

EXPERIMENTAL METHODS IN PHONOSEMANTICS:
PRELIMINARY TESTING OF THE ANTONYMIC HYPOTHESIS AS A WAY OF
MEDIATING BETWEEN THE ARBITRARY NATURE OF LINGUISTIC
REPRESENTATION AND ASPECTS OF ICONISM

by

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ABSTRACT

The question of whether or not linguistic sounds might convey inherent meaning has never conclusively been resolved. This is an empirical study weighing evidence for and against the existence of phonosemantics, also known as sound symbolism or iconism. Contrary to well established principles such as the arbitrary nature of the sign and the double articulation, the phonosemantic hypothesis proposes that the sounds which compose a given word correlate with aspects of the meaning of that word by virtue of their articulatory features. 116 individuals of 19—73 years of age from both sexes were interviewed to determine their intuitions regarding potential meanings of linguistic sounds. The experiment consisted of three distinct parts. First, participants were asked to define nonsense words with their only cueing being the sound segments of the nonsense word. Second, for a given definition, participants were asked to create an appropriate-sounding nonsense word, uninfluenced by any real words. Finally, for a given image, participants were asked to create an appropriate-sounding nonsense word, uninfluenced by any real words. Participants' responses from the first part were analyzed for semantic patterns, while responses from the second and third parts were analyzed for phonic patterns. Data was interpreted according to the *antonymic hypothesis*, which states that iconism is most readily observable in articulations that can be set in antonymic contrast to other articulations. This includes points of articulation from the extremities of the vocal apparatus such as front, back, high, and low and manners of articulation such as stops and continuants. The data gathered presents little evidence in support of phonosemantics; hence, by default, the opposite case is made in support of arbitrary designative processes. However, it was determined that

certain experimental procedures could be altered during future endeavors, perhaps leading to different results. This alteration primarily involves ways to better control extra-stimulus motivation (interference from real words) which was judged as the most crucial variable of the experimental process.

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CHAPTER I

INTRODUCTION

What is Phonosemantics?

Phonosemantics is a discipline within the broader field of linguistics that involves the study of sounds in an effort to determine if they convey inherent meaning and, if so, to what extent and how. As its name would suggest, it represents a fusion of the classical linguistic disciplines of *phonology* and *semantics*. Phonology is the study of how sound encodes meaning in a particular language while semantics is the study of the interpretation of signs or symbols as used in a particular context. The distinct linguistic discipline of *phonetics* can also play a roll, as it did in the present research. Phonetics is the study of the sounds of human speech. It is concerned with the physical properties of speech sounds, their physiological production and auditory perception.

It is widely accepted that the *morpheme* is the smallest meaning-bearing unit in a linguistic system. For example, *hat* [hæt] is a *free* morpheme. It is free because it can stand alone and it is a morpheme because it can undergo no further phonemic reduction without it resulting in either a fundamental semantic alteration or a rendering of it as meaningless; if /h/ is removed it becomes a totally different word and if /t/ is removed it becomes meaningless.

Within the theoretical framework of phonosemantics however, meaning does not end at the morphemic level. According to the phonosemantic hypothesis, each phoneme in an utterance, like [hæt], could potentially bear meaning. A phoneme is the smallest segmental unit of sound

employed to form meaningful contrasts between utterances. In [hæt], for example, this implies that the phonemes /h/, /æ/ and /t/ could individually communicate something unique. What the field of phonosemantics ultimately seeks to demonstrate is that there is a verifiable, quantifiable, intrinsic relationship between phonemes and the meaning of the words in which they are found. In other words, the sounds of a word can, at times, have a direct impact on a word's meaning and a word's meaning is not solely a function of arbitrary designation. Carried out to its maximum potential, this would mean that each linguistic sound that the human vocal apparatus is capable of producing could be assigned a set of meanings. Every instance of a word containing a particular phoneme in any given language in the world would contain a specific element of meaning derived directly from that phoneme and any word in any language lacking that phoneme would lack that same element of meaning (Magnus, 2001, p. 4).

Any interpretation of the phonosemantic hypothesis stands in stark contrast to the fact that language is overwhelmingly arbitrary, a necessary feature as it permits semantically neutral phones to be recombined in an infinite number of ways to convey an infinite number of meanings at the morphemic level. If language were wholly iconic, this would demand an infinite number of phones to represent every conceivable nuance in a one-to-one relationship, an impossibility which clearly is not descriptive of real language. André Martinet, in *Éléments de linguistique générale* (1970), described this simultaneous presence of neutral phonemes and semantically charged morphemes as the *double articulation*.

Traditionally when conducting phonosemantic studies, data has come from two different sources, real languages or invented words and definitions. When employing real languages, researchers will analyze part or all of a particular language's lexicon (Wallis, 1653; Nodier, 1808; Bolinger, 1950; Rhodes & Lawler, 1981; Tsur, 1992; Berlin, 1994; Diffloth, 1994;

Whissell, 1999; Magnus, 2001). One can approach the analysis of a lexicon from one of two angles. One involves grouping together words of similar meaning and analyzing them for various manifestations of sound similarity. The other involves grouping together words of similar sound structure and analyzing them for semantic commonalities.

The second primary source of data comes from conducting phonosemantic experiments that involve the creation of invented words and definitions (Sapir, 1929; Fox, 1935; Bolinger, 1949; Davis, 1961; Magnus, 2001). Logistically, this can be significantly more complicated than the lexicon method. In place of a dictionary or other lexical sources, the data is acquired through surveying the intuitions of interviewees regarding words and definitions that are carefully designed to bear as little resemblance as possible to real language¹. The same process that was used with real languages of searching for sound similarities among words and semantic similarities among definitions is employed with this manner of analysis. Phonosemantic experimentation through elicitation was the method that was employed in the present research.

The Central Hypothesis of this Research

Ever mindful of the overwhelmingly arbitrary nature of language, the purpose of this research is to explore the possible ways in which iconism could be manifest. In searching for a reasonable avenue by which iconism could present itself, I arrived at the *antonymic hypothesis*. The antonymic hypothesis states that iconism is most readily observable in articulations that can be set in antonymic contrast to other articulations. For the most part, this means points of articulation occurring at the extremities of the vocal apparatus. Vowels and consonants

¹The surveying of participant intuition can also involve the use of real words if the real words are presented to participants unfamiliar with the language to which the words belong. The end result is the same in that the stimulus is still *nonsense* to the participant.

articulated in the back of the mouth and the throat are hypothesized to indicate distance, obscurity, darkness, etc. while phones articulated in the front could represent light, shallowness, clearness, etc. The same antonymic principle applies to phones of low articulation compared to those of high articulation. Low articulations could indicate depth, lowness, weight, depression etc. while high articulations could indicate legerity, lightness, levity, altitude, etc. For vowels, the presence or absence of lip rounding could be iconic. Round lips could hypothetically represent constriction, tension, deprivation, focus, discrimination, etc. while unrounded lips could represent openness, acceptance, relaxation, broadness, etc. Considering antonymic manners of articulation, this involves *stops* versus *continuant*s. Stops hypothetically represent impediments, restricted motion, frustration, burdens, etc. while continuants could represent propagation, encouragement, progress, dynamism, free movement, etc.²

The antonymic hypothesis assumes an extremely limited capacity of the vocal apparatus to iconically represent objects and concepts. The reader should be aware that it and the meanings attached to the various points and manners of articulation are speculative. These are not being presented as fact. The hypothesis is offered only as a potential means of explanation for the small amounts of data present in this research that could be viewed as positive evidence for iconism.

² Stop consonants, viewed through the lens of the antonymic hypothesis, were at the heart of the best positive evidence of this research, as scant as it was, for potential iconic activity.

Theoretical Issues of Phonosemantics

These are some foundational principles which guided the present research. They all tie in with and further develop the antonymic hypothesis.

Vocal Gesture: The Physical Nature of Sound Production

Phonation is a physical act under conscious control (Bolinger, 1965). Linguistic sounds are produced through a complex interaction of the lungs with various features of the throat, mouth, nose, tongue, teeth and lips. Just as physical gestures e.g., the clutching of the throat to signal choking, are seen as iconic, the activity of phonation could be viewed in the same manner as *vocal gesture*. The vocal apparatus must coordinate all of its anatomical parts in adopting a position that is unique for each individual consonant and vowel when creating sound. The relative position(s) of these various parts is the hypothesized basis for the connection between sound and meaning. Consider the physical, antonymic qualities of rounded versus unrounded lips. The same applies to tongue position. Whether it is high, low, forward or back, these antonymic postures are not abstract. When the vocal apparatus adopts a different position, it affects our perceptions through the different sounds created, though it is not the sounds that are hypothesized to be the initiator of iconicity. They are secondary to the position of the vocal apparatus anatomy (Paget, 1930; Fónagy, 1963). This is not to diminish the importance of the sounds, for it is the sounds that are most readily perceived, not the actual anatomical positions creating them. But, it is the antonymic positioning of the vocal anatomy that is hypothesized to be the iconic foundation.

The Guillotine and the Scalpel

The question of precision is fundamental to understanding the nature of phonosemantics. What force keeps language from being wholly iconic? This is explained through the physical

aspect of sound production and the representative limitation that is characteristic of the vocal apparatus. According to the antonymic hypothesis, the vocal apparatus is capable of iconically representing diametrically opposed concepts: high versus low, tight versus loose, etc. This is significant but, semantically, it will only go so far. Taking into account all the different nuances one can convey with relative ease in a fully functioning linguistic system, it is not hard to ascertain how limited iconism's repertoire would be. Consider the analogy of a guillotine versus a scalpel. The ability of both tools to cut corresponds to the shared ability of iconism and conventionalism to communicate in their respective ways. The differences between the pairs are copious, though. A guillotine is a crude chopping instrument that is limited to a pre-established track. It is a capable tool, but its employment is specific and limited. It is poorly adapted to precise incising. This is the realm of the scalpel, which in the hands of a dexterous surgeon can be used in performing the finest, most delicate strokes. Likewise, the iconism capable of being communicated by the vocal apparatus is insufficient, too crude for communicating fine distinctions and nuance. The exact limit of iconic precision that is attainable is uncertain. But it is safe to say that it would be extremely limited. This principle is critical. The vocal apparatus is clearly incapable of communicating all meanings via pure iconicity because it is too rough of an instrument. Hypothetically though, it does appear capable of representing a handful of rudimentary, antonymic concepts.

The Iconic Swiss Army Knife

Another important characteristic of linguistic iconism lies in its multi-functional nature. A *Swiss Army Knife* is that famous, pocket-sized tool that has a plurality of uses. It is referred to in general as a *knife* because it sports a knife blade but it also is a saw, a can-opener, scissors, etc. The knife exists as a unit that is composed of many tools. Each tool can be used in multiple

ways in a variety of situations. A knife blade can be used to cut something, or it can be used to pry something apart. This describes the vocal apparatus and the iconicity of which it is capable. The vocal apparatus as a unit has many different tools, such as the lips, tongue and teeth. A particular tool within the unit, like the tongue, can be used in multiple ways. For example, according to the antonymic hypothesis, when the tongue is low in the mouth this can be iconic of several concepts: low, deep, slow, weight, etc. In keeping with the analogies involving cutting instruments, this multi-use principle is a double-edged sword. While this would hypothetically increase the iconic potential of the vocal apparatus it proportionally complicates any effort to assign meaning to a particular variety of articulation and contributes to the overall imprecision that characterizes the iconic potential of the vocal apparatus.

Region of Articulation

This principle, related to the three above it, is offered as a hypothetical means to further explain how something as relatively crude as the vocal apparatus could iconically represent multiple ideas. This concept is based on the traditional phonetic principle of sounds being described in terms of *point* and *manner of articulation* though it is only the point of articulation that enters into the discussion here. *Region of articulation* is a less precise, more inclusive manner of describing where sounds are articulated. The reason why such an approach would be beneficial is that it mimics in structure the previously antonymic relationships that are hypothesized to characterize linguistic iconism. Similar to what Chomsky & Halle (1968) suggest, instead of describing points of articulation such as *bilabial* and *labiodental*, these would be grouped together under a super-category: *anterior*. Likewise, the points of articulation like velar, uvular, pharyngeal and glottal would be grouped together as *posterior*. When sounds are described in this manner, antonymic relationships become more transparent, thereby making it

better adapted to discussions of iconicity. Traditionally, vowels are already described in an antonymic manner e.g., front-back, high-low, though not under the classification of region of articulation. Manner of articulation already has broadened , antonymic terms in current use as well—*stop* and *continuant*—that describe it in this generalized fashion.

Terminology of Phonosemantics

It is appropriate to include a definition of terms. The most important term, *phonosemantics*, was already defined above. The term *iconism* and other derivatives of *icon* are used frequently. This may bring to mind C. S. Peirce and his three levels of signs: *iconic*, *indexical* and *symbolic* (Hoopes, 1991). Of these three terms, iconic and its derivatives are the ones with the most application and the greatest currency within phonosemantics. Iconic, as it is typically used in this field and particularly in the present research, refers to a linguistic sound or sounds which, by virtue of its articulation and sound qualities, is deemed in some way inherently representative of the object to which it applies. *Sound-symbolism* is another term used in this research. In current use, this is a general term that encompasses different varieties of vocal sounds that are deemed to convey meaning. This term was appropriated for stylistic purposes as synonyms were desired for periodic use in place of *iconism*. Technically speaking, sound-symbolism includes phenomena such as *onomatopoeia*, discussed below, that do not enter into the traditional phonosemantic discussion. The reader should bear in mind that when I use the term *sound-symbolism*, it is to the exclusion of onomatopoeia and other related phenomena. In the present research it is equated with iconism. Another term of currency is *phonoestheme*, which denotes a systematic correlation between sound and meaning. In the prior literature, phonesthemes typically are represented as being composed of two or more sound segments,

known as *clusters*. This appears to be the convention as I was unable to find many examples that did not conform to this pattern. For example, some common English phonoesthemes are *gl-* which pertains to light and vision (glint, gleam, glow, glance, glare, etc.) and *sl-* which pertains to low-to-the-ground motion, often involving a certain degree of friction (slide, slip, slink, slither, slog, slouch, slump, etc.). Phonesthemes such as this have been studied for hundreds of years (Wallis, 1653; Bolinger, 1950; Lawler, 1990; Magnus, 2001). While there are a small amount of consonant clusters that are analyzed in this research, they are not the focus of it. This research presents no convincing evidence for phonesthemes in the traditional sense. For the consonant clusters present herein that were deemed worthy of analysis, they are not referred to as phonesthemes as the evidence for their iconic potential was judged too tenuous. *Ideophone* is another term of common usage in the field. An ideophone is a word that is used to evoke a vivid impression of a smell, color, shape, sound or action. These are frequently referred to in African linguistics (Doke, 1927, 1935, 1954; Samarin 1967, 1972; Childs, 1989, 1994) though they are present in all languages to some extent. Examples of English ideophones are *hippetyhop* referring to the manner in which a rabbit hops about and *bling-bling* which refers to sparkle or luster and, by extension in common usage, wealth. Though ideophones do not play a significant part in this research, they are common enough to warrant mention.

Items not Entering into the Phonosemantic Discussion

Due to the highly fluid nature of this field, there are many opportunities for misunderstandings to arise as to what is true and what isn't about phonosemantics itself and the beliefs of those who participate in it. This section is intended to address some of these misunderstandings. A very common and well-known manifestation of sound symbolism is

onomatopoeia. This is the phenomenon of a word imitating a sound through its sound structure. In English, examples of onomatopoeia include *meow*, imitating the call of a cat and *tick-tock*, which imitates the sound of a clock. Onomatopoeia typically does not factor into phonosemantic research. Theoretically, there could be iconic activity present within an utterance which also presents onomatopoeia but since the sound-meaning connection of onomatopoeia is normally taken for granted, this manifestation of sound symbolism is viewed separately from actual iconism. The distinction between the two is that contrary to onomatopoeia, iconism is concerned with potential meaning-bearing sounds found in words which do not represent sounds in nature.

Another related phenomenon that I personally feel should not be considered in the field is *synesthesia*. Synesthesia is a neurological condition where the stimulation of one sense leads to the involuntary stimulation of a second sense (van Campen, 2008). Synesthesia's connection to phonosemantics lies in its supposed potential for explaining the meanings that individuals will associate with sounds. According to the theory, the perception of meaning is the involuntary consequence of sound stimulation. I personally reject synesthesia as a plausible explanation for phonosemantic phenomena in the broad sense. As I see it, iconism, if it exists, is rooted in nature. It has a physical foundation based on the way speakers use the vocal apparatus. It is not a pathology, as described in Harrison (2001), but a completely natural phenomenon that, hypothetically, language users instinctively or purposefully engage in. Not everybody is a synesthete but, as far as the phonosemantic and antonymic hypotheses are concerned, everybody can hypothetically use some degree of iconic language. I do not discount the possibility that among confirmed synesthetes some may be inclined to associate specific meanings with specific sounds. This is a function of their particular manifestation of synesthesia however, and should be considered separately. In addition, synesthetes will experience secondary stimulation in

unique ways (Cytowic, 1993). For example, one synesthete may attribute meaning *a* to phoneme *x* while another synesthete may attribute meaning *b* to phoneme *x*. They are both correct in the sense that that is what their synesthesia dictates to them but this clearly can not be descriptive of real iconism as the meaning attributed to a given phoneme would necessarily need to be the same for an entire speech community.

Another common misconception of phonosemantics is that adherents to the theory believe that a word's meaning is wholly determined by the quality of its phonetic makeup. In actuality, I have never come across any individual or anything in the literature that would indicate that presently this idea is seriously entertained. Granted, in the past there appears to have been some individuals who speculated on this. Cratylus, in his eponymous dialogue of Plato, and others like G  belin (1775), de Brosses (1789) and Nodier (1808) seemed to view this idea favorably. But from all that can be ascertained, it remains unclear whether these individuals viewed this as the actual case or were just considering theoretical abstractions. The current debate in the field is focused on determining the degrees of iconicity that exist in union with the pervasive, dominant forces of arbitrary designation.

The final myth to address is that phonosemanticists are all mystics, *bigfoot chasers* or highly eccentric individuals on the academic fringe. This is not the case. Many of the most famous linguists who ever lived gave serious consideration to the phonosemantic hypothesis. The list reads like a *Who's Who* among twentieth century linguists: Leonard Bloomfield (1909-1910, 1984), Edward Sapir (1921, 1929), Otto Jespersen (1933, 1964), John Rupert Firth (1957, 1986), Dwight Bolinger (1940, 1949, 1950, 1959, 1965) and Roman Jakobson (1956, 1965, 1978, 1980) to name a few. Many if not most of them came to the conclusion that there was some validity in it, though there were differing ideas about the precise nature of the

phenomenon. Compared to the early and middle parts of the twentieth century, the field is in a bit of a lull, especially during the current decade. The questions still remain though, and with scholars such as Margaret Magnus, who is the standard bearer of phonosemantic research for our times, the field is in position to make further advancement.

CHAPTER 2

A BRIEF HISTORY OF PHONOSEMANTICS

This is an outline of some of the highpoints in the history of phonosemantics and some of the key figures who have speculated on it, one way or another. This is not intended to represent a comprehensive account of all the important events that have transpired in the field over the millennia. Such accounts are already in existence, none of which is more sublime than that of Gérard Genette: *Mimologics* (1995). If one wishes to view a comprehensive account of this field's history, one need not look any further than this. Margaret Magnus's (2001) dissertation, *What's in a word?: Studies in phonosemantics*, is another fine example. It offers a condensed history that is nonetheless rich in detail and insightful commentary. Both of these were quite inspirational to the present history, but particularly that of Magnus. Many of the same prominent figures found in these works are also commented on here, generally in chronological order. What follows is intended to give credit to the giants on whose shoulders I and other researchers stand who participate in this branch of linguistics. Included are some whose contribution may be less well known but were still judged important and, of course, those whose contribution has made the greatest impact on the present research.

Phonosemantic Mysticism

It appears that as far back as recorded history can attest, there have been individuals and even entire societies, eastern and western, speculating on the relationship between the meanings of words and the sounds that compose them. In Europe, ancient peoples such as Vikings and

Celts perceived what they felt was a link between their respective alphabets and intrinsic meaning. Viking orthography was comprised of symbols called runes or futhark³ which constituted the alphabets of various Germanic languages prior to the introduction of the Latin alphabet (Page, 1995). The Celtic people of ancient Wales revered *The Book of Taliesin*, a collection of poems, for its sound symbolic qualities. The book itself dates back to the early fourteenth century but the poems are believed to be hundreds of years older than this (Parry, 1955). The same attitude of sound-meaning connection was current in ancient Egypt where extra-canonical gospels were recorded on papyrus scrolls found at the Nag Hammadi Library (Robinson, 1988). In ancient India and further east in Japan, the same sentiments were entertained. The *Upanishads* are Hindu scriptures concerned with the concept of *self-realization* by which one understands the ultimate nature of reality, or *Brahman*. Central to the significance of the *Upanishads* is their ability to convey meaning by virtue of the sounds of the scriptures (Keith, 1998). *Kotodama*, lit. *word spirit*, is the ancient Japanese belief that mystical powers dwell in words and names (Philippi, 1969). *Kotodama* is based in the belief that sounds can affect objects through supernatural means, and that ritual word usage can influence the environment, body, mind, and soul. These ancient traditions were not grounded in science.

Classical Roots

Phonosemantics received its first modern treatment in the *Cratylus* of Plato. In this dialogue, there are three main interlocutors: Socrates, Hermogenes and Cratylus. Hermogenes argues from the perspective that words and their sounds are joined purely by convention.

³ Runes as a whole are sometimes referred to as *futhark*, which represents the pronunciation of the first six runes.

Cratylus takes the opposing perspective that the sounds which compose a word are the essential determiner of a word's meaning. It is Socrates in the middle who plays devil's advocate when arguing with each man. It appears that Socrates arrives at the conclusion that the semantics of words are neither wholly determined by their sounds nor by simple convention. The perspective of Socrates falls in line very well with the viewpoint of many others who would follow him. One could even argue that Socrates was the father of the moderate stance. Here is an excerpt from the dialogue where Socrates debates Hermogenes, making the case for some degree of natural connection between names and what they represent:

Socrates: ...Answer me this: If we hadn't a voice or tongue, and wanted to express things to one another, wouldn't we try to make signs by moving our hands, head and the rest of our body, just as dumb people do at present?

Hermogenes: What other choice would we have Socrates?

Socrates: So, if we wanted to express something light in weight or above us, I think we'd raise our hand towards the sky in imitation of the very nature of the thing. And if we wanted to express something heavy or below us, we'd move our hand towards the earth. And if we wanted to express a horse (or any other animal) galloping, you know that we'd make our bodies and our gestures as much like theirs as possible.

Hermogenes: I think we'd have to.

Socrates: Because the only way to express anything by means of our body is to have our body imitate whatever we want to express.

Hermogenes: Yes.

Socrates: So, if we want to express a particular fact by using our voice, tongue, and mouth, we will succeed in doing so, if we succeed in imitating it by means of them?

Hermogenes: That must be right I think.

Socrates: It seems to follow that a name is a vocal imitation of what it imitates and that someone who imitates something with his voice names what he imitates.

Hermogenes: I think so.

Socrates: Well, *I* don't. I don't think this is a fine thing to say at all.

Hermogenes: Why not?

Socrates: Because then we'd have to agree that those who imitate sheep, cocks and other animals are naming the things they imitate.

Hermogenes: That's true, we would.

Socrates: And do you think that's a fine conclusion?

Hermogenes: No, I don't. But then what sort of imitation is a name, Socrates?

Socrates: In the first place, if we imitate things the way imitate them in music we won't be naming them, not even if the imitation in question is vocal. And the same holds if we imitate the things music imitates. What I mean is this: each thing has a sound and a shape, and many of them have a color, don't they?

Hermogenes: Certainly.

Socrates: It doesn't seem to be the craft of naming that's concerned with imitating these qualities, however, but the crafts of music and painting. Isn't that so?

Hermogenes: Yes.

Socrates: And what about this? Don't you think that just as each thing has a color or some of these other qualities we mentioned it also has a being or essence? Indeed, don't color and sound each have a being or essence, just like every other thing that we say "is"?

Hermogenes: Yes, I think they do.

Socrates: So if someone were able to imitate in letters and syllables this being or essence that each thing has, wouldn't he express what each thing itself is? (Cooper, 1997, pp. 139-140)

Later, Socrates, in debating Cratylus, makes the point that a name can not possibly be wholly representative of the object for which it stands:

Socrates: So presumably one person will be a good craftsman of names and another a bad one?

Cratylus: Yes.

Socrates: And this craftsman is named a rule-setter?

Cratylus: Yes.

Socrates: By god, presumably some rule-setters are good and others are bad then, especially if what we agreed to before is true, and they are just like other craftsman.
Cratylus: That's right. But you see, Socrates, when we assign 'a', 'b', and each other of the letters to names by using the craft of grammar, if we add, subtract, or transpose a letter, we don't simply write the name incorrectly, we don't write *it* at all, for it immediately becomes a different name, if any of those things happens.

Socrates: That's not a good way for us to look at the matter, Cratylus.

Cratylus: Why not?

Socrates: What you say may well be true of numbers, which have to be a certain number or not be at all. For example, if you add anything to the number ten or subtract anything from it, it immediately becomes a different number, and the same is true of any other number you choose. But this isn't the sort of correctness that belongs to things of sensory qualities, such as images in general. Indeed, the opposite is true of them—an image cannot remain an image if it presents all the details of what it represents. See if I'm right. Would there be two things—Cratylus and an image of Cratylus—in the following circumstances? Suppose some god didn't just represent your color and shape the way painters do, but made all the inner parts like you, with the same warmth and softness, and put motion, soul, and wisdom like yours into them—in a word, suppose he made a duplicate of everything you have and put it beside you. Would there then be two Cratyluses or Cratylus and an image of Cratylus?

Cratylus: It seems to me, Socrates, that there would be two Cratyluses.

Socrates: So don't you see that we must look for some other kind of correctness in images and in the names we've been discussing, and not insist that if a detail is added to an image or omitted from it, it's no longer an image at all. Or haven't you noticed how far images are from having the same features as the things of which they are images? (Cooper, 1997, pp. 147-148)

This discussion, temporally so far removed, has aged remarkably well. All the elements that are pertinent in today's debate are present here. To what extent is a word, or *name* as Socrates refers to it, influenced semantically by its sounds? What role do arbitrary forces play in this process? How does nature motivate one during the act of naming? It is apparent why today the *Cratylus* is so revered among early linguistic discussions.

Rebirth in Europe- The Age of Enlightenment

After this landmark discussion in ancient Greece there was a period of relative inactivity until the seventeenth century in Europe. John Wallis, mathematician and chief cryptographer for the British Parliament of 45 years, broke the silence when he published a rather large list of phonesthemes from English in *Grammatica linguae anglicanae* [*A Grammar of the English Language*] (1653). Though this book has been translated from Latin into English in Kemp (1972), this list, found in chapter 14 of the original work, was curiously not included in the English translation. Therefore, I rely on Genette (1995):

- *shr* suggests a strong contraction : *to shrink*; *shrimp*, “a miniscule and as though shrunk fish”; *to thrive*; *shroud*. “Without *r* the meaning is more subdued.”
- *sw* suggests an almost still agitation , or a slight lateral movement: *to sway*, *to swim*, *to swing*, *swift*, *sweet*.
- *sl* is a silent gliding, a nearly imperceptible movement: *to slide*, *sly*, *slow*.
- *sq*, *sk*, *scr*, indicate a violent compression: *to squeeze*, *to screw*.
- *sp* indicates “a certain dispersion or expansion, preferably rapid, especially with the addition of an *r*, as if coming from *spargo* or *separo*”: *to spread*, *to spit*. (pp. 37—39)

In this work, he makes the argument that among groups of words in the English language sharing particular phonetic elements there are demonstrable similarities of meaning which are directly attributable to those phonetic similarities. He takes it one step further in asserting that certain words’ semantic qualities can be completely determined through a breakdown of their phonesthemic constituents.

Later, an intellectual quarrel developed between John Locke and Wilhelm Gottfried Leibniz over the true nature of words and any iconic potential that they might bear. Locke, English philosopher of the empiricist school and highly influential in political theory, did not

view words as anything but arbitrary. In *An Essay Concerning Human Understanding* (1689), he said:

Words... come to be made use of by Men, as the Signs of their Ideas; not by any natural connexion, that there is between particular articulate Sounds and certain Ideas, for then there would be but one language amongst all Men; but by a voluntary Imposition, whereby such a Word is made arbitrarily the Mark of such an Idea. (Nidditch, 1975, p. 405)

Leibniz, philosopher and mathematician who invented the binary system, penned a response to Mr. Locke in *New Essays on Human Understanding* (1704) in which he expressed a belief in the natural means by which words represent what they stand for:

I know that Scholastics and everyone else are given to saying that the significations of words are arbitrary (*ex instituto*), and it is true that they are not settled by natural necessity; but they are settled by reasons—sometimes natural ones in which chance plays some part, sometimes moral ones which involve choice. Perhaps there are some artificial languages that are wholly chosen and completely arbitrary... But those that which we know to have been made up out of already known languages involve a mixture of chosen features and natural and chance features of the languages upon which they are built. (Remnant and Bennett, 1996, p. 279)

In France during the eighteenth and early nineteenth centuries, phonosemantics became a popular topic of debate. Certain primary sources from this period are difficult to come by. The most convenient way to view them is online at <http://gallica.bnf.fr> or at <http://books.google.com> where the entire original documents in scanned format can be found. Finding these in English translation can be even harder. Genette (1995) is the most readily available source for these materials in English. The quotes in English translation below come from that work.

Charles de Brosses, member of the *Académie des Inscriptions et Belles-Lettres* of Paris and parliamentary president of his hometown of Dijon, saw virtue in many ideas related to sound symbolism. Among these ideas that he considered was an immaculate, original language where sound corresponded perfectly to meaning, which is found in *Traité de la formation mécanique*

des langues et des principes physiques de l'étymologie (1789). Here is de Brosses discussing the intimate, natural relationship he saw between words and what they stand for:

The first rule, the simplest one as indicated by nature in the formation of words, is that they be *true*; that is to say, that they represent the thing named as accurately as is possible for the vocal instrument to do. The truth of words, just like that of ideas, lies in their conformity with things... There can be no doubt that the first names were fitted to the nature of things they express; to think otherwise would be to believe mankind insane, for that would be to argue that their aim in speaking was not to communicate. (as cited in Genette, 1995, p. 65, pp. 30—31 in original work)

Antoine Court de Gébelin, a self-described etymologist, influenced by the philosopher and historian Giambattista Vico and his *New Science* (1725), expressed a viewpoint similar to that of de Brosses in his *Origine du langage et de l'écriture* (1775):

Our overarching principle, that all is imitation...(as cited in Genette, 1995, p. 91, p. 376 in original work)

Never were the seeds, the principles, the developments of an art as essential and as wonderful as speech which could be called *the glory and prerogative of the human race*, abandoned to arbitrariness. (as cited in Genette, 1995, pp. 91—92, p. 275 in original work)

Never [would men assign a name to an object] without being guided by some relationship between the name chosen and the object to be named... We have said, and it cannot be repeated enough: speech is nothing else but a painting of our ideas, and our ideas, a painting of objects we know; therefore, a *necessary relationship* must exist between words and the ideas they present, as one exists between ideas and their objects. Indeed *the act of painting cannot possibly be arbitrary; it is always determined by the nature of the object to be painted*. In order to designate an object or an idea, men were thus forced to choose the sound most *analogous* to that object, to that idea. (as cited in Genette, 1995, p. 92, p. 275 in original work)

It is evident that both men saw words as being naturally representative of the objects they stand for. Their beliefs, as passionate as they were, are more extreme than what prevails today. Few if any supporters today would claim that a word's meaning can be determined strictly

through an evaluation of its phonetic constituents. The view that both iconic and arbitrary forces shape the meaning of words is what prevails today.

Étienne Condillac, philosopher and psychologist, in *An Essay on the Origin of Human Knowledge* (1756) theorized about the origin of human language. It was through his desire to explain this origin that he was ultimately led to speculate on the relationship between words and the sounds that compose them. He saw gesture, or as he referred to it, “language of action” (Aarsleff, 2001, pp. 114—119), as being the foundation upon which the original language was built. Through gesture’s intimate connection of communication and meaning, a similar correspondence would develop between objects and the words that name them. Using a hypothetical example of two children lost in a desert who had never learned a language, he deduced that as the need for more and more complex communication arose, processes analogous to the gesture would eventually generate all the necessary characters of language. Through these deductions, it appears Condillac, unlike some of his contemporaries, recognized both iconic and arbitrary designative forces in language.

Much later, philosopher Jacques Derrida would critique the view of Condillac in *L’archéologie du frivole* (1973). Derrida observed that analogy, the process Condillac postulated would give rise to increasingly complex forms of communication, was itself imaginary and divorced from nature (pp. 81—82). As a language increases in complexity, it must become more and more distant from its origin as a signifying gesture. This demands an increase in arbitrariness. Derrida also rejected the premise that language at its origin was completely representative of an object since gesture does not become language until it has become detached and conventionalized making it usable for social interaction. He concludes “...the *property* of the sign is the system of the arbitrary (p. 112).” While both men, Condillac and Derrida,

acknowledged arbitrary forces in language, it was Derrida who apparently saw no room for iconic processes.

Another supporter of the correspondence between sound and meaning, Charles Nodier, author of the Romanticist tradition, wrote his *Dictionnaire raisonné des onomatopées françaises* (1808, as cited in Genette, 1995, pp. 132—134). Among his entries were:

Achoppement {stumbling}: noise of one body striking another. (p. 36 in original work)

Cascade {waterfall}: the first syllable is an artificial sound that causes the second one to ricochet, and this effect effectively represents the redundant noise of the *cascade*. (pp. 80—81 in original work)

Catacombe {catacomb}: the union of these two happily married words produces one of the beautiful, imitative effects of the {French} language. It is impossible to find a more picturesque sequence of sounds for rendering the ringing of the casket, gradually rolling down on the sharp angles of the stones and suddenly coming to a halt in the middle of the tombs. (p.81 in original work)

Fifre {fife}: the vowel squeezed in between the two whistling letters gives a very accurate idea of the high-pitched noise of this instrument, and the rolling ending {-re} registers its somewhat raucous outburst. (pp. 126—127 in original work)

Rincer {to rinse}: noise of the fingers against the inside of a glass that one is rinsing. (p. 223 in original work)

He had in mind to create his own language where such sound-meaning correspondences ruled supreme. He later determined it was not possible and in *Notions élémentaires de linguistique* (1834) he declared more moderate views:

It does not follow from this system that all creatures ought to be designated by universal homonyms, because for this it would be indispensable for each creature to offer itself only one single character and to be potentially judged by only one single sensation, a ridiculous limitation. (as cited in Genette, 1995, p. 122, pp. 52—53 in original work)

Wilhelm von Humboldt, philosopher and diplomat, was one of the most significant speculators on phonosemantic phenomena of the early nineteenth century. He published *Über*

die Verschiedenheit des menschlichen Sprachbaues und ihren Einfluß auf die geistige Entwicklung des Menschengeschlechts [*On the diversity of Human Language Construction and its Influence on the Mental Development of the Human Species*] (1836). In this work, he divides the connection that exists between sound and meaning into three areas. Following his order of presentation as cited in Losonsky (1999), the first area was called “directly imitative” or onomatopoeia, where a noise emitted by a sounding object is represented in the word (p. 73). He referred to the second type of sound-meaning correspondence as:

The designation that imitates, not directly, but by way of a third factor common to both sound and object... This type of designation, which relies upon a certain significance attaching to each individual letter, and to whole classes of them, has undoubtedly exerted a great and perhaps exclusive dominance on primitive word designation. Its necessary consequence was bound to be a certain likeness of designation throughout all the languages of mankind, since the impression of objects would have everywhere to come into more or less the same relationship to the same sounds. Much of this kind can still be observed even in languages of today, and must in fairness prevent us from at once regarding all the likeness of meaning and sound to be encountered as an effect of communal descent. (p.73)

Von Humboldt called the third classification:

Designation by sound-similarity, according to the relationship of the concepts to be designated. Words whose meanings lie close to one another are likewise accorded similar sounds; but in contrast to the type of designation just considered, there is no regard here to the character inherent in these sounds themselves. (p. 74)

The Beginnings of Empiricism

In the first decade of the twentieth century, Leonard Bloomfield, the developer of structural linguistics, gave a fair bit of consideration to sound symbolism. The following comes from *Language* (1984). Here, Bloomfield is commenting on the presence of phonesthemic roots in English though he does not use this terminology:

Perhaps in most languages, most of the roots are morphemes. Even in cases like English sing : sang: sung: song or flap : flip : flop, a relevant description will view one of the forms as basic and the others as secondary derivatives or as primary derivatives with phonetic modification of the root. In other cases, however, we find clearly marked phonetic-semantic resemblances between elements which we view as different roots...complex morphologic structure of the root is much plainer in the case of English symbolic words; in these we can distinguish, with varying degrees of clearness and with doubtful cases on the border-line, a system of initial and final *root-forming* morphemes, of vague signification. It is plain that the intense, symbolic connotation is associated with the structure. Thus, we find recurrent initials:

- [fl-] ‘moving light’: *flash, flare, flame, flick-er, flimm-er*.
- [fl-] ‘movement in air’: *fly, flap, flit, (flutt-er)*.
- [gl-] ‘unmoving light’: *glow, glare, gloat, gloom (gleam, gloam-ing, glimm-er), glint*.
- [sl-] ‘smoothly wet’: *slime, slush, slop, slob-er, slip, slide*.
- [kr-] ‘noisy impact’: *crash, crack (creak), crunch*.
- [skr-] ‘grating impact or sound’: *scratch, scrape, scream*.
- [sn-] ‘breath-noise’: *sniff (snuff), snore, snort, snot*.
- [sn-] ‘quick separation or movement’: *snap (snip), snatch (snitch)*.
- [j-] ‘up and down movement’: *jump, jounce, jig (jog, jugg-le), jangle (jingle)*.
- [b-] ‘dull impact’: *bang, bash, bounce, biff, bump, bat*. (pp. 244—245)

In this same era, Edward Sapir, an anthropologist-linguist, was busy conducting experiments where he was testing speakers’ intuitions regarding the meanings of foreign words and nonsense words. He was frequently interested in perceptions regarding relative size and he conducted extensive phonosemantic experimentation in this area. In his article “A Study in Phonetic Symbolism” (1929), also available in *Selected Writings of Edward Sapir* (1949), one of his most famous experiments is found. This involved his presenting 500 participants with two

nonsense words, *mil* and *mal*. He informed them that these were both words for tables in a foreign language, one was large the other was small. Based on the sounds of the words, participants had to decide which word meant the large table and which one meant the small table. 83% of children and 96% of adults found *mil* to be smaller and *mal* to be bigger.

Otto Jespersen, well known in the present field for his article “The Symbolic Value of the Vowel i” (1933) in which he came to similar conclusions as Sapir regarding the relative size values of high and low vowels, was a devoted seeker of empirical evidence. Also like Sapir, Jespersen tested speaker intuitions regarding sounds. When considering the contrasting arguments between arbitrary designation and inherent meaning Jespersen said the following in his posthumous *Language, Its Nature, Development and Origin* (1964):

Yes, of course it would be absurd to maintain that all words at all times in all languages had a signification corresponding exactly to their sounds, each sound having a definite meaning once for all. But is there really much more logic in the opposite extreme which denies any kind of sound symbolism (apart from the small class of evident echoisms and ‘onomatopoeia’) and sees in our words only a collection of accidental and irrational associations of sound and meaning? ...If linguistic historians are averse to admitting sound symbolism, this is a natural consequence of their being chiefly occupied with words which have undergone regular changes in sound and sense; and most words which form the staple of linguistic books are outside the domain of sound symbolism. There is no denying, however, that there are words which we feel instinctively to be adequate to express the ideas they stand for, and others the sounds of which are felt to be more or less incongruous with their signification. (pp. 397—398)

Jespersen later arrived at a trichotomy that one should bear in mind “in order to obtain a true valuation of this factor [sound symbolism] in the life of language...” First, no language will use sound symbolism to its fullest extent, meaning no languages are composed of words whose meanings are solely determined by their sound constituents. Second, words that were symbolically expressive may cease to be so under the influence of historical development.

Third, certain words may increase in expressiveness under the same historical forces (pp. 406—407).

Another researcher of this era was Sir Richard Paget, who, in *Human Speech* (1930), made the assertion that articulation was of greater influence in determining the semantics of words than the sounds of words.

Observations of the actual resonance changes which occur in the production of the vowels and consonants show that we accept as identical sounds which are widely different *provided* they are made of similar postures or gestures of the organs of articulation. From this it is argued that the significant elements in human speech are the postures and gestures, rather than the sounds. The sounds only serve to indicate the postures and gestures which produced them. We lip-read by ear. (p. 174)

Some of Paget's articulations of significance include the bilabial consonants /p/, /b/ and /m/ which "denote closing, containing or gripping actions...", the high vowels /i/ and /u/ which indicate "a projecting, pointing" or "directing...", the dental fricatives /θ/ and /ð/ which correspond to "smearing, kneading, etc.", the alveolar lateral approximant /l/ which "denotes movement, flow or rapid change of posture" and the velars /k/, /g/, /ŋ/ and glottal /h/ which denote "hang", "take", and "hold" (Paget, 1930, pp.155—156).

Clement Doke was a missionary in Africa who became a scholar of Bantu languages. He developed the concept of an ideophone, though he preferred the term *radical*. An ideophone is a word used to evoke a vivid impression of a sensation or sensory perception such as smell, color, shape, sound, or movement. Theoretically, ideophones exist in all languages but appear to figure more prominently in non-European languages. Doke observed that ideophones in Bantu follow unique syntactic and morphologic patterns. Among his works on African linguistics are *Bantu Linguistic Terminology* (1935) and *The Southern Bantu Languages* (1954). Since Doke, William Samarin, anthropologist-linguist perhaps most famous in more recent years for his research into

glossolalia, or speaking in tongues, took up the study of Bantu ideophones. Among his many publications is “Appropriateness and Metaphor in the Use of Ideophones” (1972). Ideophones lie outside the realm of the current research but the underlying principles that contribute to their meaning-bearing qualities are similar to what is discussed herein. They are still actively investigated today and a substantial corpus of research has been amassed dedicated to their study.

John Rupert Firth was another active figure at this time. His ideas, later referred to as *Firthian*, gave rise to the *London School* of linguistics. Within the present field, he is most famous for coining the term *phonaestheme* in the tract *Speech* (1930) which was aimed at heightening the general public’s awareness of linguistic issues. This tract combined with another of similar intent was subsequently released in *The Tongues of Men and Speech* (1986). Firth was cautious in his beliefs on the extent of sound-meaning correspondence. In the publication of 1986, he attributed the perception of sounds bearing meaning to “attunements”. He said “People who habitually use similar noises in similar situations are of one mind about the fundamental things of life (p. 181).” Speaking of onomatopoeia he voiced similar ideas: “it... is probably based on the habitual similar phoneticizing of similar contexts of experience (p. 188).”

One of the greatest skeptics of iconism was active in these early days of the twentieth century. This was the Swiss, Ferdinand de Saussure. Within the field of phonosemantics, he is best known for the title of the second subsection of the first chapter of Part One of his posthumous book, *Cours de linguistique générale* (1916), which reads “Premier principe: l’arbitraire du signe” [First principle: the arbitrariness of the sign] (p. 67), implying he saw no room for phonosemantic phenomena aside from examples like onomatopoeia. This is how Saussure elaborates on the axiom above in the translation of Baskin (1964):

The bond between the signifier and the signified is arbitrary. Since I mean by sign the whole that results from the associating of the signifier and the signified, I can simply say: *the linguistic sign is arbitrary*. The idea of “sister” is not linked by any inner relationship to the succession of sounds *s-ø-r* which serves as its signifier in French; that it could be represented equally by just any other sequence is proved by differences among other languages and by the very existence of different languages...No one disputes the principle of the arbitrary nature of the sign, but it is often easier to discover a truth than to assign to it its proper place. Principle I dominates all the linguistics of language; its consequences are numberless. It is true that not all of them are equally obvious at first glance; only after many detours does one discover them, and with them the primordial importance of the principle. (pp. 67—68)

In a curious twist in the legacy of Saussure, it appears that he might have entertained ideas of words concealing meaning beyond their referent. From Jean Starobinski’s *Words upon Words : the Anagrams of Ferdinand de Saussure* (1979), one learns about Saussure’s secret fascination with language’s potential to mask hidden meanings. It appears that over the course of approximately three years Saussure dedicated a large amount of effort into decoding anagrams of Homer, Virgil, Seneca, the Vedas, and other examples of classical literature. Anagrams involve rearranging the letters of a word or phrase to produce a new word or phrase. There is evidence that he may have intended to publish some of his findings though this never happened. Given this bit of information it is hard to determine exactly where Saussure stood. After comparing his thoughts to the thoughts of others who believed just as strongly that sounds do convey meaning it almost leads one to believe that much of the speculation on phonosemantics from both sides has been too narrow. While it is beyond dispute that the sign is primarily arbitrary, the question of whether or not it can, under very specific conditions, be naturally motivated has never been answered.

Dwight Bolinger, famed linguist and professor of Romance Languages, was also a supporter of phonosemantics. He countered the arguments of Saussure when he published the articles “The Sign is Not Arbitrary” (1949) and “Rime, Assonance and Morpheme Analysis”

(1950). Both articles were later combined with many others in the collection *Forms of English: Accent, Morpheme, Order* (1965). It was Bolinger's view that the morpheme was not the minimal meaning-bearing unit. He felt that one should refer to monosyllable roots exhibiting rhyme and assonance as *sub-morphemes* due to their tendency to share common meanings beyond what would normally occur statistically. Many of his ideas were based on the apparent capability of phonesthemes to convey meaning. The following quote, in which Bolinger comments on the power of linguistic sounds to influence meaning, is taken from "The Sign is Not Arbitrary" in *Forms of English* (1965):

...subtle examples become undeniable...in constellations of words having similar meanings tied to similar sounds. How such constellations originate is immaterial: it may be that some one word is used so often that phonetically similar words are affected, as has apparently happened with English *bulge* reflected in *divulge* and *indulgent*, suggesting 'expansiveness'; or it may be that two or more forms coincidentally resemble one another in both form and meaning, thereby drawing closer together and pulling other form into their orbit, as seems to have happened with *chary*, *wary*, and *scary* (*skeery*) in their effect upon *leery*. The result is the same: the cluster maintains itself and attracts outside matter to it. Examples in Spanish are *tajar*, *rajar*, *ajar*, *bajar*, *fajar*, *majar*, *sajar*, and *desgajar*, analogizing closely with English *bash*, *mash*, *smash*, *crash*, *dash*, *lash*, *hash*, *rash*, *brash*, *clash*, *trash*, *plash*, *splash* and *flash*. (p. 237)

Ivan Fónagy culled together phonemes from diverse languages and presented the meanings that had been assigned to them in their respective grammatical traditions in *Die Metaphern in der Phonetik* (1963). As this book is unavailable in English, I present the description found in Magnus (2001, p.26). Fónagy referred to these meaning-bearing phonemes as *metaphors*. Fricatives were referred to as *raw* and *hairy* by the Greeks. European linguists labeled unvoiced stops as *thin*. Front vowels are viewed as *high* and *fine* whereas nasal vowels are considered *dark*. Palatalization renders words moister according to linguists of various origin. Leibniz proposed that children would opt for /l/ when they found /r/ too sharp. The

historian and teacher of ancient Greece, Dionysius of Halicarnassus, found /l/ to be the softest and sweetest of the semi-vowels, as opposed to the sharper and nobler /r/. Fónagy viewed these metaphors as having a physiological basis. Lower-pitched sounds were considered masculine because men's voices are deep. Unvoiced stops were considered harder than their voiced counterparts because of perceived tension. Fónagy also cited a Hungarian study in which it was analyzed how deaf children interpreted phonemes. It was observed that they responded much the same way hearing children do. He interpreted this as evidence for an articulatory rather than an acoustic basis for phonosemantics.

Roman Jakobson was influential in phonosemantics during the latter half of the 20th century. His contribution was different though than most others mentioned here. Jakobson did not have an experimental approach and thus did not produce much empirical evidence in support of his beliefs. His contribution sprang from his extensive knowledge of the tenets of others in the field, upon which he commented frequently. He did not develop much in the way of new theories, though. Among many other publications, he is well known for an essay on linguistic iconism entitled "Quest for the Essence of Language" (1965) and the book *The Sound Shape of Language* (1979), co-authored with Linda Waugh. Jakobson's view of language was strongly influenced by his interest in poetry. His poetic studies served to heighten his awareness of the influence that form could have on content.

Richard Rhodes and John Lawler are well known for their conference paper "Athematic Metaphors" (1981), assessing the sound symbolic intuitions of the Ojibwa people. Rhodes and Lawler noticed the word *mdwesjiged* was defined by most speakers to mean only *ring the church bells* when in actuality it was used in many contexts, all of which could be characterized as *be/make a sound at a distance*. When questioned on this, Ojibwa speakers would agree that the

verb was used in this general sense as well. Rhodes and Lawler refer to the semantic shifting as *athematic metaphor*. They go on to present other examples from Ojibwa and English where the actual usage of a word differs from its official meaning. Ultimately, this shift is attributed to sound interactions between phonesthemes causing assonances and rhymes. Lawler is also known for his paper “Women, Men, and Bristly Things: The Phonosemantics of the BR-Assonance in English” (1990) in which he analyzes three English phonesthemes, *br-*, *bl-* and *pr*. Limiting his study to monosyllables and extended monosyllables (words with monosyllabic roots), he grouped together words that contained these phonesthemes, (or assonances as he referred to it) which also shared semantic elements. For example, *preach*, *prance*, *prattle*, *prom*, *prate*, *prim*, *preen*, *primp*, *prissy*, *pretty* and *proper* all were grouped into the category of *appropriateness of personal appearance and conventional behavior*.

Recent Contributions to Phonosemantics

Yakov Malkiel was one of the first to confront the issue of how diachronic sound change affects phonosemantic properties in the collection *Diachronic Problems in Phonosymbolism* (1990). The argument states that if a word’s meanings are impacted by its sounds, this would imply that any altering of a word’s phonetic constitution would likewise result in an altering of a word’s semantic constitution. It has been clearly demonstrated that the phonetic constitution of words does change over time. It has also been clearly demonstrated that a word’s semantic breadth can change over time. However, the idea of a causal relationship where the semantic drift is the direct result of iconic-based, phonetic change is difficult to prove. Regular processes of historical sound change such as epenthesis, prothesis, haplology and aphaeresis are systematic and internally explainable by the phonetic environments where the sound changes take place.

Phonetic changes which result from such processes do not normally lead to any significant semantic alteration (Crowley, 2000). This is something that must be taken into consideration. Could one explanation, among others, for the diachronic gain or loss of meanings and sounds involve sound symbolism? Contrary to the views of many historical linguists, Malkiel proposed that semantic shifts will frequently occur along with sound change so that the meaning of the word does not remain unchanged should its phonetic properties change. Under such conditions, words can appear in new contexts where they could not before and they are disallowed from old contexts where they were previously. Sometimes words will fall out completely and be replaced with new ones.

Take Lat. *sībilāre* «to hiss», with a by-form *sīfilāre*... From *sībi-*, *sīfi-lāre* Spanish has inherited three verbs: first *silbar* «to whistle»; second, *chiflar* «to hiss, gulp down», «to whistle, sing» (said of birds), plus, reflexively and only in the familiar register, «to become unbalanced», witness *chifladura* «craze»; and, third, *chillar* «to shriek, screech, creak, squeak, hiss, scream» (figuratively said of colors); (in New World dialects) «to squeal», i.e., «to turn informer»; among hunters, «to utter a fox call». Observe that the second and third products are given away as phonosymbolically colored not only by the representation of ancestral *s-*, before the high, front vowel, via *ch-* /č/, but also by a bizarre rendition of the ancestral word-medial *-bil-* or *-fil-* sequence through /fl/ or /ɲ/, counter to expectation; in contrast, the *-lb-* cluster of *silbar* involves an entirely innocuous metathesis of syncopated parental *-b'l-*. *Silbar* is, practically «lautgesetzlich»; nothing of the sort can be asserted of either *chiflar* or *chillar*. But this is not all: The semantic development of *silbar* has been slow and imperceptibly slight; conversely, those of *chiflar* and *chillar* have been saltatory, to the point of wildness- in unfettered substandard and dialect speech even more so than in relatively polished literary Spanish. (Malkiel, 1990, p.25)

The introduction to Malkiel (1990) is the most eloquent explanation I have come across of why the study of sound symbolism is in the state (of torpor) that it is. No matter where an individual stands in the debate, he or she will find these five pages quite captivating.

Reuven Tsur, professor of Hebrew literature and literary theory, in his book *What Makes Sound Patterns Expressive* (1992), details the field of *Cognitive Poetics*, which he pioneered two decades earlier. Cognitive poetics involves elements of literary theory, linguistics, psychology,

and philosophy. It explores the relationship between the structure of the text and the manner in which it is perceived. Sound symbolism plays a major role in this approach. Tsur addresses this role:

This work assumes there is a ...third, “Poetic Mode” of speech perception in which some rich precategory sensory information is sublimely perceived, which is the source of the “mysterious” intuitions concerning speech sounds. It explains, for instance, ...the relative height and brightness of front vowels as compared to back vowels, the relative hardness of voiceless consonants, and much more. (Tsur, 1992, p. viii)

He goes on to analyze the perceived meaning-bearing qualities of consonants and vowels in various examples of poetry. He outlines an experiment he conducted where he asked participants to assign antonymic values to the vowels /i/ and /u/. There was a strong tendency to find /i/ as “lighter, nearer, smaller, thinner... than /u/” (pp. 25—29). Among the discussions of consonants were the trilled /r/ and the velar and glottal stops where he incorporated ideas of Fónagy. In a psychoanalytical discussion invoking plentiful elements of Freud, things took a bit of an unseemly turn as the /r/ was related to phallic erection while the velar and glottal stops were discussed in terms of the anus (pp. 136—145).

Sound Symbolism (1994) edited by Hinton, Nichols and Ohala is one of the greatest single-volume resources available for those interested in phonosemantics. In this collection of conference papers, twenty four scholars representing some of the most prestigious linguistic and anthropology departments in the world came together to discuss and synthesize data to determine how sound symbolism fits within the broader field of linguistics and its implications for language theory. The range of topics is surprisingly diverse so it's likely anyone who participates in the field would encounter something new inside. Only three of the papers are discussed below, but every one from this indispensable volume is worth reading.

Shoko Hamano conducted a lexical study of sound-symbolic Japanese words collectively known as *giongo*, *giseego* and *gitaigo* in “Palatalization in Japanese sound symbolism” (1994). Consonantal palatalization is a prominent feature of this system. The semantic implications of palatalization ranges over a continuum of “childishness, immaturity, instability, unreliability, uncoordinated movement, diversity, excessive energy, noisiness, lack of elegance, and cheapness.” (p. 148):

pata-pata	“hitting a flat surface with a large flat object such as a fan”
patya-patya	“hitting the surface of the water with a big splash”
horo-horo	“weeping elegantly”
hyoro-hyoro	“looking thin and weak”
tara-tara	“thick creamy liquid drops”
tyara-tyara	“flashy and cheap”
koro-koro	“something hard and round rolls on”
kyoro-kyoro	“to look around curiously without focusing on one thing”
	(pp.148—149)

Hamano asserts that the semantic continuum can be reduced to an association of palatalization of alveolar stops and fricatives with the list of generally negative characteristics listed above: childishness, immaturity, etc. This striking implication for sound symbolism follows: “Studies of language acquisition report palatalization as one of the universal characteristics of early stages of children’s language acquisition” (p.154). Hamano then cites Snow and Ferguson (1977) who reported palatalization as one of the commonest devices of baby-talk, i.e. adult modification of speech to children (p. 154).

Gérard Diffloth conducted an analysis of the Bahnar language of Vietnam which he presented in “i: *big*, a: *small*” (1994). He examined a group of words which he referred to *expressives*. Expressives roughly correspond to ideophones in the African linguistic tradition. Diffloth noticed a pattern among expressives regarding relative size and the vowel quality used

to represent that size which seemed to conflict with the findings of those such as Sapir and Jespersen. In Bahnar "...the iconic values of the vowels are, roughly speaking: high = big and low = small, exactly opposite to the English..."(p. 112):

/blooŋ–bleɛw/ "descriptive reduplication of the numerous reflections caused by a single ray of light on a large big, shiny object."

/bleel–bleel/ "descriptive reduplication of large flames appearing intermittently but remaining vivid."

/bloŋŋ–bleɛw/ "descriptive reduplication of the numerous reflections caused by a single ray of light on a small shiny object."

/bleel–bleel/ "descriptive reduplication of small flames appearing intermittently but remaining vivid." (pp. 109—110)

But Diffloth showed no consternation:

There is nothing peculiar about this Bahnar system, and one can easily find an iconic basis for it. In the articulation of high vowels, the tongue occupies a much larger volume in the mouth than it does for low vowels. The proprioceptive sensation due to this, reinforced by the amount of contact between the sides of the tongue and the upper molars, is available to all speakers and is probably necessary to achieve a precise, articulatory gesture. The most direct form of iconicity relies on finding similarities between two different kinds of sensations: articulatory feedback sensations (or proprioception of articulation) on the one hand, and the various sensations conveyed by expressives on the other. In this perspective, two different languages may easily use the same phonetic variable (vowel height) to convey the same range of sensations (size) and come up with exactly opposite solutions, both being equally iconic; all they need to do is focus upon different parts of the rich sensation package provided by articulatory gestures, in our case the volume of tongue instead of the size of the air passage between it and the palate. Iconicity can be both physiologically motivated and culturally relative at the same time. (pp. 112—113)

Brent Berlin conducted a study that was both unusual and empirically based which he presented in "Evidence for pervasive synesthetic sound symbolism in ethnozoological nomenclature" (1994). The experiment was based on a list of fifty word pairs from the Huambisa language of north central Peru. Each pair consisted of a bird and a fish e.g. 1. a. *chunchuikit* b. *máuts*, 2. a. *katish* b. *waikiách*, 3. a. *weáhai* b. *tsakanána*. He presented the list to an anthropology class of about 600 students and instructed them to guess which word was a fish

and which one was a bird based solely on the sounds of the animals' names. The students guessed correctly with a 58% accuracy rate, which is not high but significantly better than chance. His determinations were:

The phonetic characteristics of the names of birds and fish in Huambisa suggest the workings of universal sound-symbolic processes. First, birds and fish differ on the basis of the differential distribution of phonetic segments of high and low acoustic frequency. Bird names show a disproportionate number of segments that are of acoustically high frequency which, it is claimed, connote quick and rapid motion (i.e. "birdness"). This contrasts with the lower frequency segments in fish names which lead to connotations of smooth, slow continuous flow (i.e. "fishness"). Secondly, both bird and fish nomenclature demonstrate a prominent internal pattern of size-sound symbolism where vowel quality and relative size are positively associated at high levels of statistical significance. Smaller birds and fish show disproportionate numbers of high frequency vowel [i] stems while larger birds and fish show disproportionate numbers of lower frequency vowel [a] and [u] stems...In a perfect world, names for the creatures of nature should reflect their natural, inherent qualities. These data suggest that to a large extent, the Huambisa...are unconsciously motivated to develop systems of zoological nomenclature whose sound-meaning associations take full advantage of the frequency code innate to many living species. (p.91)

Mimologics (1995) by Gérard Genette is the standard by which all other historical accounts of the field of phonosemantics are measured. There is no other resource that takes the reader from the Cratylus to modern times with the same amount of detail and rhetorical elegance. The true strength of this book however is how it sheds light on past contributors who many readers would have never heard of, or, who are well known in fields other than linguistics. Genette is so vivid in his portrayal of these so-called minor figures that after reading about them all it's difficult to judge anybody as being insignificant. One can not digest this work without coming away with a deeper appreciation of the field and it might cause the reader who had dismissed the notion of linguistic iconism (the *Hermogenist* as Genette likes to say) to reconsider, at least for a moment, the point of view of the believer (the *Cratylist*).

Janis Nuckolls, anthropologist-linguist, in her book *Sounds Like Life: Sound Symbolic Grammar, Performance and Cognition in Pastaza Quechua* (1996) investigated diverse aspects

of sound symbolism in the Pastaza Quechua language of Peru. She illustrates the complex manner in which sound symbolism is infused with Quechua grammar:

Quechua speakers' use of sound symbolism suggests an orientation to the world that unites the material with the conceptual and the natural with the cultural or conventional. For the lowland Ecuadorean Quechua, language use is modeled on sounds, patterns, movements, and rhythms of the natural world and of one's bodily experiences in it. The "sounds of sound" communicate not an abstract, detached meaning, but a concrete movement, rhythm or process unfolding in time. Sound-symbolic utterances simulate the material qualities of the natural, sensible world and thereby articulate Quechua peoples' cultural constructions of it. (p. 3)

Concepts like duration and movement pattern, for example, are communicated through iconic means. For the Quechua, sound symbolism is not merely a way of speaking, it is iconic of their way of life and a way of experiencing the world. Later, in her article "The Case for Sound Symbolism" (1999), she presented additional evidence through her examination of various experiments and research efforts throughout the twentieth century, evaluating multiple manifestations of sound symbolism throughout the world's languages.

John Ohala has made several relatively recent contributions to the field. One recurrent theme in his research is the influence of frequency (pitch) on sound symbolism. Ohala, in his articles "The Frequency Code Underlies the Sound Symbolic Use of Voice Pitch" (1994) and "Sound Symbolism" (1997), asserts that frequency of resonances is a generally accurate, cross-linguistic communicator of size:

There is extensive documentation of a cross-language similarity in the use of certain consonants and vowels in sound symbolism...words denoting or connoting SMALL or SMALLNESS (and related notions) tend to exhibit a disproportionate incidence of vowels and/or consonants characterized by high acoustic frequency. In consonants, voiceless obstruents have higher frequency than voiced because of the higher velocity of the airflow, ejectives higher than plain stops (for the same reason) and dental, alveolar, palatal and front velars higher frequencies...than labials and back velars. In the case of vowels, high, front vowels have higher F_2 [frequency] and low, back vowels have the lowest F_2 . (Ohala in Hinton, Nichols & Ohala, 1994, p. 335)

The phonetic generalization that can be made is that the expression of size utilizes speech sounds whose characteristic acoustic frequencies vary inversely with size of the thing designated. (Ohala, 1997, p. 99)

Another of Ohala's trademarks is that his ideas are often based in biology. The vocal tract must become smaller and more constricted to produce the high frequency sounds thought to be symbolic of "smallness, non-threatening attitude, desire for the good will of the receiver..." and conversely it must grow larger to produce low frequency sounds that are presumably symbolic of "largeness, threat, self-confidence and self-sufficiency." (Ohala in Hinton, Nichols & Ohala, 1994, p. 343)

During the current decade, arguably the most influential contributor to the field has been Margaret Magnus. Her dissertation, *What's in a word?: Studies in phonosemantics* (2001), was a voluminous blending of theory and empirical evidence. The hallmark of this dissertation is the experimental section. Through fourteen separate experiments, she presents one of the greatest collections of empirical evidence ever assembled in the field. Ten of these experiments involve lexical analysis and four involve word/definition creation. The latter group is elaborated on at the beginning of the next chapter. From the lexical analysis group, these are further divided into examinations of English, and a single, cross-linguistic study. In the first experiment (pp. 54—77), Magnus isolated all the monosyllables familiar to her from a dictionary and then divided them into 24 classes according to each consonant phoneme present in the monosyllable. She then devised a tentative phonosemantic working classification for each of these groupings. Finally, the words within each of the resulting classes were subdivided again according to the phoneme's position within the syllable. For example, the phoneme /g/ contained the following categories with its number of constituents indicated: the gullet 27; sound and talk 33; voice, containers and valleys 49; quantity 50; getting, holding and greed 77; blockage 38; giving 6;

going 55; growing 26; goodness 15; light 18; understanding 23; grids and grains 12; death and gloom 30; too much where it doesn't belong 112; not enough where it's needed 106; hidden source or goal 117. It was determined that only three percent of the monosyllables did not fit into a classification. These non-conformers were mostly concrete nouns. Experiment three (pp. 86—89) involved choosing a list of words all starting with the same letter at random by selecting every tenth word, going in alphabetical order. She then analyzed the words for semantic commonalities and divided them into semantic categories. For example, word-initial /b/ was selected. After analyzing every tenth word starting with /b/ (in a dictionary), categories were made to group the words together that meant similar things. One such category was *bump* with the following members: *bag, bale, ball, bay, bead, belch, bell, bilge, blimp, blip, bloat, blob* etc. In experiment four (pp. 90—93), a semantic classification that worked well for words containing one phoneme was applied to words containing another phoneme. All the monosyllables containing /l/ were taken and it was attempted to fit them into the /b/ classes. It was determined that there was very little overlap. For the category *bulging* these were the /b/ words: *bag, bale, ball, belch, bell, bilge, blimp, bloat, blob, blouse, blow, boil, boob, bulge, bum, bun/s, burl, burst, bust*. The only conforming /l/ word was *lung*. Experiment six (pp. 101—108) involved the presentation of certain semantic classes which were identified as favoring labial consonants. Among these classes were bulges, mountains, humps and peaks; fountains and blowing; foundations; beginnings; pairs, names, pictures and symbols. For example, the category of *round words* (presumably a subsection of one of the above semantic classes) with the labial consonant occurring word-initially included the following: /b/ *bale, ball, bay, bead, bell, blimp, blip, blob, blotch, bowl, bulb*; /p/ *pea, pearl, pill, pip, pit, plate, pock, pod, point, pore, puck*; /r/

reel, ring, rink, roll, round, wrap, wreath, wrench, wrest, wring, wrist; /w/ waist, wheel, whirl, whorl. Experiment ten (pp. 127—129) was a cross-linguistic analysis of the appearance of the consonant cluster /str/ as it exists across various Indo-European languages as well as Indonesian. It was determined that Irish, Norwegian, German, Catalan and other languages showed many examples of this cluster occurring in words belonging to similar semantic categories. Some examples from the category of *straight* are: Catalan: *estira stretching*; Greek: *sortheksi deer horn*; Hindi: *sutari heavy needle*; Indonesian: *setrip line, stripe, slash*; Irish: *starr tooth*; Lithuanian: *strele arrow*. More cross-linguistic experimentation is greatly needed in the field. Magnus has published two other works in addition to her dissertation: *The Gods of the Word: Archetypes in the Consonants* (1998) and *A Dictionary of English Sound* (1999). The former is a general presentation of phonosemantic issues designed for the lay reader while the latter is a comprehensive dictionary of English phonesthemes. She also maintains a vast website dedicated to phonosemantics which is geared towards broadening interest among scholars and the general public alike.

CHAPTER 3

METHOD

The Present Research in Light of Previous Research

While there is a rich tradition of phonosemantic research within academic disciplines such as linguistics, anthropology and psychology, the majority of it has involved the use of real language lexicons (Wallis, 1653; Nodier, 1808; Bolinger, 1950; Rhodes & Lawler, 1981; Tsur, 1992; Berlin, 1994; Diffloth, 1994; Whissell, 1999; Magnus, 2001). One of the reasons for this is because a real language will offer an extensive, ready-made data set that is quite convenient for the researcher. Another reason is that, if evidence for iconism is found in the lexicon, there will be an actual speech community using the language to which the findings can be practically applied for whatever purposes the researcher has in mind. This manner has its drawbacks, though. If trends are isolated, the investigator has no way of ascertaining if, on the one hand, they are due to some manifestation of iconism or, on the other hand, to processes such as the according of similar sounds to words with similar meanings (von Humboldt, 1836 as cited in Losonsky, 1999) and common etymological descent. This problem can be side-stepped by using the made-up word and definition paradigm. This method involves the presentation and elicitation of created (nonsense) words and definitions to interviewees to determine their phonosemantic intuitions. This is the most effective way to determine if there is any natural connection between articulated sounds and meaning. Because the words are made-up, the aforementioned problems are avoided completely. The caveat is that there is the possibility of

participants relating the nonsense words and definitions to real, existing words. This is more likely to occur if the words and definitions are not designed to be as different as possible from the language(s) that the interviewees speak. I refer to this relating of the stimuli to actual language as *extra-stimulus motivation*. This is the primary problem one has to be cognizant of when using this method of phonosemantic research. If the pitfall of extra-stimulus motivation can be avoided, this method is the one with the most potential to reveal trends of iconism. It was the nonsense word and definition method that was chosen for the present research.

The invented word and definition model has been employed significantly less than the lexicon method, which is one of the reasons why I chose it. There are five previous examples of research which I find to be most exemplary of the made-up word and definition tradition that I ultimately decided to take up. The first is Edward Sapir's "A Study in Phonetic Symbolism" (1929), appearing in *Selected Writings of Edward Sapir* (1949). In this study consisting of three experiments, Sapir tested the intuitions of participants as it related to the symbolic magnitude value of various vowels and consonants. In the first experiment (pp. 62—64), participants had to evaluate sixty nonsense word pairs, divided into two groups of thirty pairs, containing the vowels /i/ and /a/ with the goal of determining the relative size of each word. One group of thirty contained only sounds native to English while the other group of thirty contained some sounds not native to English. For example, one of the word pairs was *mal* and *mil* which the participants were told were tables. They had to decide which word represented the big table and which word represented the small table. Sapir found that the first group of thirty pairs saw /a/ associated with *large* 81% of the time while the second group of thirty pairs saw /a/ associated with *large* 73% of the time. In the second experiment, five hundred subjects, most of whom were school children, were read a list of one hundred word-pairs and were asked to determine the size of the

first word in the pair relative to the size of the second word. Some of the variables Sapir used were vowels that ranged from low to high in certain word pairs and vowels with the presence or absence of lip rounding. Sapir arrived at the same results as the first experiment regarding the perception of relative size of /i/ versus /a/: “It is obvious that...English-speaking society does...feel that these two vowels, *a*, by and large, is possessed of a greater potential magnitude symbolism than the contrasted vowel *i*” (p.65). In the third experiment, which was conducted with adult participants, Sapir offered a nonsense word which he had already defined to the individual. Next, he altered one aspect of the nonsense word, usually the first vowel but occasionally a consonant, and he asked the participant to describe any new meanings that the words acquired through the new sound. The original word was *mila* [mila] which was defined as a *brook*. Some of the modified forms were [mela], [mɛla] and [mæla]. Sapir noticed the same patterns with the vowels as before. The brook got smaller or larger as the vowels got higher or lower. But, in this experiment, Sapir did not explicitly introduce the concept of large or small into the question. This happened spontaneously which he found interesting:

...a considerable number of the responses here quoted from the third series of experiments check some of the magnitude symbolisms independently obtained from the first and second. This is true of most of the schedules in this set and is significant because neither magnitude variations nor any other class of variations in the responses had been suggested. (p.72)

The second study is Charles Fox’s “An Experimental Study of Naming” (1935). Fox was primarily concerned with the correlation of nonsense words to drawings. His approach was divided into ten separate experiments. Several of these were merely slight variations of preceding experiments so all ten will not be explicitly described here. One manner of experimentation involved the presentation of simple, abstract drawings made from four strokes

of a pen. A stroke could be a straight line, an arc of a circle, or a full circle. Each drawing was accompanied by six nonsense words made up differing numbers of consonants and vowels. The participants, of which there were five, were given ten seconds to choose the nonsense word which best suited the drawing. They were also asked to provide their reasoning for choosing the nonsense word that they did. Fox reported a few incidents of word-drawing associations that could not be attributed to chance as well as a few incidents of similar reasoning behind these identical word choices. One of these was with the nonsense word *zitix* which was explained as “a good name for ‘crosses’” (p.562) by three of the participants. Trends such as this were not very common, however. Fox also tested the appropriateness of the responses he received when, up to thirteen months later, he presented the same questions to his original participants to determine if their answers would remain consistent. Though it did happen some, he noticed that the nonsense words originally selected were frequently not selected the second time. In another approach, Fox had participants create their own nonsense words for ten abstract drawings that were supplied to them. They were asked to create one word that seemed appropriate and two words that seemed inappropriate (p.566). Following this, he had the participants create drawings for multiple groups of three nonsense words that were supplied to them. The drawing had to seem appropriate for one of the words on the list and inappropriate for the other two (p.567). Later, combining the data from these two previous sets, the participants were asked to evaluate the words and drawings of other participants to determine if they arrived at similar conclusions. Fox reports the following results:

The only agreements in reported bases which can be found among these are as follows: 3 Os [participants] found angularity or hardness or sharpness in *hexit*; 2 Os called *xex* tangled or confused; 2 referred to rotundity or curvedness in characterizing *bul*; 2 called *rakok* harsh or angular or sharp; two spoke of an emphatic harmony between *gajan* and the appertaining figure; 2 reported associations of *tirogon* with the word polygon; and for 2 Os *rililin* suggested a series of similar arcs. Otherwise the Os disagree concerning their

bases for these 15 names or simply do not report reasons. As in other series, we find a correlation far from perfect between word selected and ‘reason’ for its selection. [italics added] (p. 570)

A subsequent experiment involved Fox manipulating the drawings that the participants had created into a new form that he felt was the opposite of the original. He asked the participants to assign a name to the drawing from the list of nonsense words that had applied to the old drawing. The objective was to see if the same word would be picked again. He observed that as the figures changed so did the names (p. 573). Fox concluded that while participants will be sometimes be drawn to associate words with drawings beyond what chance would allow, their reasoning will usually differ, making it difficult to say what, if any, relationship there is between the sounds of nonsense words and the shapes they describe.

The third study is from Dwight Bolinger’s “The Sign is not Arbitrary” (1949) appearing in Bolinger’s *Forms of English* (1965). The article describes an experiment he conducted where he coined the nonsense word *smuck*. He surveyed sixteen people asking them first to determine if the word seemed *nice* or *not nice* and then to define it. Thirteen people found the word not nice, two people found it nice and one did not respond. He then asked the participants to define the word. Five people defined it as dirt or mud while four defined it as a socially unacceptable person. Other single definitions reported were something slimy or sticky, a stupid act, a stupid person, an opprobrious name for a foreigner and a slap. Bolinger finds remarkable “the cooperativeness with which speakers enter into a suggestion of this sort: it seems natural to them that sound should affect meaning” (p. 236). He also alludes to many other experiments of this type that he had previously carried out, but this is the only one that he presents.

The fourth study is R. Davis’ “The Fitness of Names to Drawings: A Cross-Cultural Study in Tanganyika” (1961). During a 1959 Oxford University expedition to the Lake

Tanganyika region of East Africa, along the lakeshore near the former Congo-Tanganyika border, Davis had the opportunity to experimentally assess the naming instincts of Kitongwe-speaking school children. In the first experiment (which did not involve nonsense words), Davis presented the children with two stick figures, one with a circular head and one with a square head. They were instructed to assign each of the figures a gender. The children selected the round head as the female and the square head as the male beyond chance figures (pp. 261—262). In the second experiment, he presented them with another pair of drawings which were based on previous drawings designed by Köhler (1929). One was angular and the other was rounded. He then presented two nonsense words also inspired by Köhler, *takete* and *uloomu*, which the children had to assign to the drawings. *Uloomu* was the name consistently assigned to the rounded drawing while *takete* was the name favored for the angular drawing (pp. 262—263). Davis also ran a control experiment with British school children prior to the African expedition and arrived at essentially the same results (p.263). This cross-cultural dimension of the experiment lends additional support to what Davis refers to as “structural relationships”, which is the term he uses to designate the motivation for employing selected sounds to appropriately designate specific objects.

The fifth study is Magnus’s *What’s in a word?: Studies in phonosemantics* (2001). In total, Magnus ran fourteen separate experiments, ten of which were lexical studies with the remaining four being of the invented word or definition type. The first experiment (pp. 135—149) of that latter group involved a list of roughly sixty mono- and bi-syllables which Magnus referred to as *quasi-words*. She posted the words on a web page and asked participants to write definitions for the entries. Among the entries was the nonsense word *glon*. One of the semantic categories to classify the definitions she received for this stimulus was *light*. Some of the actual

definitions were *a type of bright light, to look at something shiny or reflective* and *to shine in the distance*. The second experiment (pp. 150—151) was like the first in that it involved definitions of nonsense words however there was a narrowing of the semantic field prior to the defining of the nonsense word. One of these questions was “If ‘nem’ were a size, what size would it be?” Participants had to choose between *big*, *medium* and *small*. *Small* was the overwhelming favorite for this particular nonsense word. The third experiment (pp. 152—159) involved creating a nonsense word for a given definition. One of these definitions was *to swarm over the head like mosquitoes*. Some of the nonsense words created were *beez*, *bist*, *bizz*, *briz*, *peeeesh*, *frazz*, *sizz*, *swizz*, *ziz*, *shum*, *slif*, *zirr*, *ziz*, and *virn*. The fourth experiment (pp. 160—165) involved invented words to describe images. One of the images was a close-up of several expandable metal watch bands. Some of the nonsense words offered for this image were *bant*, *chongs*, *drak*, *jig*, *mah*, *pleads*, *rapp*, *sai*, *skent*, *stit*, *teek* and *zam*. Magnus (2001) was the first example of phonosemantic research that I ever encountered and it was ultimately what was responsible for bringing me into this field in the first place. It is, by far, the study that has had the greatest impact on this study. I have the greatest respect for Magnus and her work and it is the springboard off which I attempted to further develop the experimental process that she and others, such as Sapir (1929) and Bolinger (1949), have used.

My own approach, which is outlined in detail later in this section, was an experimental one following in the empirical traditions above. I interviewed participants to ascertain their intuitions regarding made-up words and definitions that I created as well as images that I selected. The point was to look for semantic patterns within the definitions the participants created and to look for phonic patterns within the words that they created. As the word and definition creation method was the only method used in this research, I had a unique opportunity

to focus in on what works best for it and what does not. It is my view that there is room for the development of new approaches and the need to dispense with certain old approaches in this specific type of phonosemantic research that could lead to more reliable results. I made the attempt to employ only what seemed to be the most effective methods in the present research.

In the past, various research endeavors have, to varying degrees, taken it for granted that participants would not reference their native language when creating their words and definitions (Sapir, 1929; Bolinger, 1949; Magnus, 2001). I believe this kind of confidence to be too optimistic. The temptation to fall back on one's native language in this process seems to be much greater than is previously acknowledged. I interviewed 116 people and I observed that the majority of them were improperly influenced at one point or another by their native language (English for most) when formulating their responses. In the event that a participant creates a word or definition where there is even the possibility that it is inspired by English (or any other language), the data is rendered untrustworthy. This is because it becomes impossible to say with any confidence whether or not the data is exemplary of true phonosemantic instinct or just word association like rhyme, assonance, etc. This type of prejudicial word referencing, or extra-stimulus motivation, is the most important variable to control in this type of experimentation. For all three of the present experiments, I made it my top priority when interviewing participants to try to curtail such associations. There are indications, which are discussed later, that I was not as successful in this as I would have liked. But, I remain convinced that future experimental procedures of this kind must adhere to stricter standards regarding the forbiddance of real language influence when designing original stimuli, eliciting responses, and evaluating responses, if reliable data is to be gathered.

Since the advent of the internet, data gathering and interviewing have frequently been conducted online, such as with Magnus (2001). While this is not necessarily detrimental to the data itself, it makes it much more difficult for the researcher to maintain control over certain variables, particularly that of extra-stimulus motivation. Online, it would be impossible to ask participants to formulate new responses in this event. All the data gathering for the present research was conducted face to face and participants were, in fact, frequently asked to create another word or definition when it was suspected that the initial response was tainted. (This is discussed in depth later on.)

For the *Words Requiring Definitions* and *Definitions Requiring Words* experiments, all the stimuli and all the participants answers were conveyed orally in the present research. This has not always been the case, as in Sapir (1929), Fox (1935), Davis (1961), and Magnus (2001). The presentation of written nonsense words is different than the presentation of oral nonsense words because the participants, once exposed to a graphic representation of the stimulus, might find it more difficult to abstain from associating elements of that graphic representation with their created word. This is especially the case with English. As all the stimuli in this research conformed to English sound patterns, the participants only hearing the nonsense words could not make an exact determination as to how the stimulus was spelled, which was deemed beneficial. All that is essential for a participant in assessing nonsense words for meaning is how they sound. Knowing how a nonsense word is spelled is, at best, extraneous information and, at worst, could be prejudicial to the response.

The process that went into the design of each stimulus in the *Words Requiring Definitions* and *Definitions Requiring Words* experiments was more detailed than most before. The nonsense words of the first experiment being organized according to four distinct syllable

lengths has never been done before to my knowledge. Other studies have considered which sounds were to be included in the nonsense words but none have made it explicit that their stimuli were methodically designed, one segment at a time, like the stimuli were for part one. The use of semantic subcategories like the three states of matter and three primary emotions for the *Definitions Requiring Words* and the three primary colors for the *Images Requiring Words* is novel as well.

This study is the first that I am aware of to utilize the International Phonetic Alphabet in the rendering of narrow phonetic transcriptions of the data that came from the participants' creation of nonsense words in an effort to search for phonic trends, including possible trends conforming to the antonymic hypothesis. This applies to parts two and three. Also particular to this study, a specially-created phonetic alphabet based on English pronunciation is included to aid in the interpretation of the participants' responses. Another unique feature is that it presents the individual segments, consonant clusters and whole syllables of Questions that required the coining of a nonsense word by the participant in a customized *phonetic order*, which greatly facilitates the interpretation of the data.

In the past, experiments have been conducted where the participant was forced to work within the framework of a pre-determined list of nonsense words which were to be applied to a stimulus, as in Fox (1935). Other approaches have presented participants with a limited semantic field to work in, which forces responses of a binary type. This was the case in one or more experiments in performed in Sapir (1929), Bolinger (1949), Davis (1961), and Magnus (2001). My approach was to allow the participants as much freedom as possible in their creation of answers so that if trends did develop, they could not be dismissed as resulting from my leading the participants towards a particular end.

Another original contribution of this research is that it breaks down the created nonsense words of Questions S. –g. in terms of individual segments, consonant clusters and whole syllables into a template format organized by syllable configuration, syllable stress and word length. This allows for an expedient yet comprehensive evaluation of each Question.

Finally, this study introduces the antonymic hypothesis which states that iconism is manifest in articulations that can be set in antonymic opposition to other articulations. For the points of articulation, this includes phones originating from the extremities of the vocal apparatus and for the manners of articulation this includes stops and continuants.

Participants

116 people were interviewed, 62 males and 54 females. Participants ranged in age from 19—73 years. The breakdown of age groups was: 19—30 years: 94, 30—50 years: 6, 50—73 years: 16. The native languages represented were: English: 110, Spanish: 7, other (Catalan, Russian, Urdu, Slovenian): 4. All participants save one were fluent in English. The participant who was not fluent in English was a native speaker of Spanish. Five participants spoke English and one other native language: Spanish: 3, Russian, and Urdu. Five participants did not speak English as a native language: Spanish: 3, Slovenian, and Spanish/Catalan. There were eleven participants who were fluent but non-native in a language(s) other than English: Spanish, French: 4, German: 3, French/German, French/Spanish, and French/Italian/Serbo-Croatian.

Materials

Question Creation

The experimental process began with the creation and gathering of stimuli, designated as *Questions*, which I would use when conducting interviews. I divided the Questions into two main groups: *auditory stimuli* and *visual stimuli*. These main groups were then subdivided into smaller groups. Each Question was assigned a fixed alphabetic value, A.—g., for identification purposes, making 33 Questions in total. What follows is a breakdown of the design of the auditory and visual stimuli groups.

Auditory Stimuli

The auditory stimuli are referred to as such because they were spoken aloud by me to each participant. They were divided into two primary sections: *Words Requiring Definitions* and *Definitions Requiring Words*. These will be discussed one at a time.

Words requiring definitions.

monosyllables: A. smitch [smɪtʃ] B. jube [dʒuːb] C. keeve [kʰiv] D. wam [wam]

bisyllables: E. easloff ['iːz · lɔf] F. kedid ['kʰɛ · rəd] G. mavar ['meɪ · vaɪ] H. eyeyu ['aɪ · juː]

trisyllables: I. narathooze ['næ · ɹə · θuːz] J. phillontave ['fɪ · lən · tʰeɪv]

K. lulurode ['luː · lə · ɹoʊd] L. goxiwall ['gɑk · sə · wɔɪ]

tetrasyllables: M. cengastumine [sɪn · 'gæs · tə · maɪn] N. poncrilader ['pʰɑŋ · kɹə · leɪ · rə]

O. bowertilldew [ˌba · wə · tʰɪl · duː] P. chocksaheeble ['tʃɑk · sə · hi · bə]

Q. whoagsafflerick [woʊg · 'zæ · fəl · ɹɪk] R. tobecraydrub [tʰoʊ · bə · 'kɹeɪ · dɹəb]

This section made up the first part of the interview. It consisted of sixteen Questions, designated A.—P.. This group of sixteen was divided into four groups of four words. The first tetrad consisted of monosyllables. The second tetrad consisted of bisyllables. The third consisted of trisyllables and the fourth, tetrasyllables. The *four of four* configuration was chosen

because I deemed it a good balance between maintaining a quantity of words large enough to promote stimulus variety and at the same time a quantity that was practical in size to work with. All sixteen of these Questions, though sometimes referred to as words, were not regular words. They were actually nonsense words or made-up words. Magnus (2001, pp.135—149) was the inspiration behind the formulation of these Questions. Each word was designed with several criteria in mind.

First, they were designed to bear as little resemblance as possible to real words. This was at best very challenging and at times, arguably, impossible. I determined that there was a direct relationship between the length (number of syllables) of a word and the facility with which it could be designed to sound like no other real word. The shorter the word, the harder it was to achieve this. The longer the word, the easier it was. All words, though not real, conform to English phonological patterns. This means that I limited myself to the phonetic inventory of Standard American English when creating these words. This limited palate approach had its advantages and disadvantages. On the upside, it made it possible for me to conduct the interviews in a strict, controlled manner as I was able to confidently pronounce the words identically each time I interviewed a participant. It also made it easier for the participants to understand the sounds I was using as the majority of them were native speakers of American English. The downside of this approach was that the words, though not real, at times sound to an English speaker as though they could be real. This can create problems because it opens the door for participants to draw comparisons based on sound similarity such as rhyme or assonance. This was especially true for monosyllables. Metaphorically, one could say I was struck by how little real estate there was available in the monosyllable part of town. If one limits oneself to the consonants and vowels of English, there are very few listings for new monosyllables which

would not form a minimal pair with an existing word. Using this type of sound-similarity reference or extra-stimulus motivation, is something participants were forbidden to do. This will be discussed in more detail later.

The second criterion was that the words sound distinct from each other. This was achieved by making sure that a wide range of consonants and vowels of American English was present. The sound constituents were used in rotation, none to the total exclusion of the others. This created a phonically diverse Question set and helped the participants not get caught up in constantly repeated sounds as this could have promoted an undesired influence on their semantic judgments.

The third criterion was that the words sound appealing and interesting. I sought words that would capture the attention and provoke the creativity of the participants. This is of course very subjective as what sounds mellifluous, intriguing or thought-provoking to one person could create quite the opposite effect in another. The object of this criterion was to have the participants fully engaged in the interview process.

After I had interviewed about twenty people, I decided that two words, Questions M. and N., were eliciting definitions that were highly suspect regarding their potential, and if true, illegal influence by English. It's true that the same could be said for other words in the data set as well, especially the monosyllables. But, given that these suspect words were tetrasyllables, I decided that to neglect taking preventative action in this instance would be unjustifiable since, when designed properly, tetrasyllables have the potential among all four word lengths to be the most phonically distinct from real words. The action I took involved creating two new tetrasyllables with great care. These became Questions Q. and R.. These two new words actually wound up being the best examples I had of made-up words that bore little if any resemblance to English

and the results of the interviews bear this out. As pleased as I was with these new words, I decided to keep Questions M. and N. in the interview process since I already had approximately twenty examples of them recorded and it would not necessitate that much extra work to have two extra Questions to analyze. So in the end the Questions of the *Words Requiring Definitions* section amounted to eighteen, A.—R., rather than sixteen, A.—P..

The creative process behind words requiring definitions: Questions A.—R..⁴

Question A. smitch [smɪtʃ].

I wanted a word that ended in an affricate like /tʃ/ because I felt this had a strong possibility for conveying semantic elements, though I did not know exactly how. I also was interested in having the consonant cluster /sm/ in the same word as I hypothesized this would contribute to the richness of sonority.

Question B. jube [dʒu^wb].

I selected the affricate /dʒ/ because I felt it was very colorful. The way the nucleus and the coda interact is also quite interesting. The rounding of the lips followed by the bilabial stop seemed like a rich phonosemantic environment.

Question C. keeve [k^hiv].

The initial /k/ followed by the vowel /i/ created a shrill, sharp effect. The /v/ in the coda complemented this very well I thought.

⁴ Questions A.-R. were designed prior to the formulation of the antonymic hypothesis, which was developed during the process of analyzing the data. This means that these nonsense words contain many phones not originating at the extremities of the vocal apparatus.

Question D. wam [wam].

I was interested to see how the approximant /w/ would interact with the bilabial /m/. Since both sounds actively involve the lips, I hypothesized they would create an interesting environment through their joint appearance.

Question E. easloff ['iːz · lɔf].

I was interested in combining the vowel /i/ with the buzzing sonority of /z/. In the second syllable I wanted to use a liquid in conjunction with a continuant.

Question F. kedid ['kʰɛ · rəd].

This word occurred to me all at once and was not designed one segment at a time. As far as the constituents go, the succession of similar alveolar consonants makes an impression on the ear. This and the presence of a word-initial /k/ are the most striking phonic elements of this word.

Question G. mavar ['meː · vaɪ].

For me, the most striking part of the word was the second syllable. I wanted to use /v/ with /ɪ/. This seemed like a colorful combination. However, the sentiment of the word was dependant on the interplay between both syllables. The contrast between the vowels is prominent.

Question H. eyeyu ['aː · juʷ].

My original thoughts behind this Question were to use no consonants. This word represents the compromise I reached in that attempt. I feel what is most salient with this word springs from this interaction between only vowels and semivowels. The word feels very smooth

in its articulation. I predicted that these characteristics would have an impact on the responses, but how this impact would be manifest I did not know.

Question I. narathooze ['næ · ɹə · θu^wz].

The first two syllables pass quickly as they only consist of a single segment onset and a nucleus. The last syllable by contrast is quite long and drawn out. From the interdental onset to the nucleus that seems to demand lengthening to the continuant in the coda, it is clearly a different animal than the first two. It was this contrast that I found most interesting about this Question.

Question J. phillontave ['fɪ · lən · t^heɪv].

This word was dominated by continuants until the last syllable where a stop was present. The pattern picked up again as the word concluded with a word-final continuant.

Question K. lulurode ['lu^w · lə · ɹo^wd].

It is important to note that this is the only question to contain a built-in phonosemantic variable at the supra-segmental level: reduplication. I was quite interested to see what kind of impact this would have. I chose to use a liquid as the onset in the reduplication because I liked its potential to promote phonosemantic trends compared to other types of consonants in that environment. This was a subjective decision like all decisions when designing these Questions. I predicted that some responses might contain elements of repetition because of this.

Question L. goxiwall ['gak · sə · wɔɪ].

The first syllable featured a lone velar plosive in the onset and coda. Both consonants are stops. The third syllable featured a continuant in the onset and coda: an approximant and a liquid. The phonic contrast between the first and third syllables is conspicuous.

Question M. cengastumine [sɪn · 'gæs · tə · maɪn].

Because of its length, I hypothesized it would be representative of something complex. I also sensed that it would represent something specific. I found the first and last syllables to be the most provocative. Three of the four consonants were nasals, plus the one fricative. I predicted the nasals in this context would influence responses by virtue of their vibration.

Question N. poncrilader ['pʰaŋ · kɪə · leɪ · rəɪ].

I hypothesized that the first and second syllables were the strongest and most evocative of the word. The third syllable was possibly influential as well. The word-initial plosive was attention-grabbing. The consonant cluster in the onset of the second syllable in conjunction with the schwa was heavy and grounding. The importance of the third syllable was in its liquid onset and its front vowel.

Question O. bowertilldew [,ba · wə · 'tʰɪl · duː].

In this word no particular syllables stand out more than the others but they all seem to be playing a role. The vowels were constantly moving up and, eventually, back. The consonants started towards the front and moved slightly back. There was never a return down or forward on the part of any of the segments.

Question P. chocksaheeble ['tʃak · sə · hi · bəɪ].

Once again, I decided to put an affricate in the word-initial position. I hypothesized that affricates would be consistently attention grabbing in any environment. The first syllable was the strongest overall of the word. The expulsion of air in the third syllable onset, welling up from low and back in the throat, that ends up at the fourth syllable onset at the lips represents the maximal distance possible from one articulation to another. The word concludes with a return towards the center.

Question Q. whoagsafflerick [wɒ^wg · 'zæ · fəɫ · ɹɪk].

This word, like most of the tetrasyllables, was predicted to elicit responses that were on the complex side due to its length. All four syllables worked together to create an effect that sounded quite odd for a word composed exclusively of phones native to English. This was the intention. I strove to create something bizarre because I wanted that unfamiliarity to carry over to the definition process. The second and third syllables created a curious sonority through its combination of /z/ in the onset, /f/ in the onset and the liquid /r/ in the coda. The fourth syllable was unique with its liquid onset that followed the liquid coda before it.

Question R. tobecraydrub [t^hɒ^w · bæ · 'kreɪ^j · drəb].

This was another word that was structured in a way that English phones are not typically structured. It was replete with stops; every syllable had at least one. This was the point of the word.

Definitions requiring words.

concrete nouns: S. the wad of hair removed when cleaning a hairbrush

T. the grease that accumulates on top of a hot pizza

U. an unexpected cool breeze on a sultry day

abstract nouns: V. the feeling experienced by a death-row inmate after being pardoned or exonerated

W. a feeling of extreme disappointment

X. the feeling of being woken in the middle of the night by a strange noise

independent: Y. the name of the remotest island on earth

This question set formed the second part of the auditory stimuli as well as the second part of the interview. It could be viewed as a transition set between the first and third parts as it is a

hybrid which contains elements of both of those. This group, designated Questions S.—Y., consisted of seven definitions read aloud to the participants. Magnus (2001, pp.152—159) was the inspiration behind the formulation of these Questions. The definitions themselves were divided into three groups: two triads and a single definition. The first triad was composed of definitions involving the three states of matter: solid, liquid and gas. These formed the concrete nouns. I chose to structure the first group in this way for two reasons. First, matter in one of these states will have distinct physical properties that make it possible to differentiate it from matter in the other two states. I hypothesized that the difference in physical state could have a discernable, quantifiable impact on the way participants created words. Second, I made the assumption that these ideas would be easy to visualize and universally understood by the interviewees who all hailed from technological cultures that recognize the three states of matter and whose educational institutions teach the concept of the three states of matter from a relatively early age.

The second triad was composed of definitions involving primary emotions. These formed the abstract nouns. The exact name and number of all primary emotions varies depending on the school of thought but common to every list are the three used: joy, sadness and fear. The reasons I chose to use primary emotions were similar to the reasons why I chose the three states of matter. The difference between these emotions being poles apart, I felt that their comparative uniqueness could provoke phonic trends that would be equally unique. I also felt that these would be easy for all the participants to relate to as, theoretically, they are common to all people (Wierzbicka, 1992, citing Izard and Buechler, 1980).

The final definition of the second part was one that I created both for its potential ability to elicit phonosemantic trends and for its ability to stir the imagination. The semantic features of

this Question hypothesized to have the greatest impact on the sounds the participants would elect to employ were aspects of extreme isolation, silence and seemingly endless water.

I did not prime the participants by divulging the impetus for or structure of these definitions sets. I wanted to see if the essence of these concepts could transcend the definitions that outwardly represented them and then be manifest in quantifiable phonic patterns.

For all seven Questions of *Definitions Seeking Words*, the words used in the defining process were nouns. Though I had no control over what went on in the minds of the participants, I designed this question set in this manner because I predicted that nouns would be the easiest word class to visualize for the participants. I recognized at the outset that what I was asking the participants to do was not easy. In fact it can be exceedingly challenging.⁵ This concern was a guiding force throughout the designing of the interview which is why seven nouns were chosen over a variety of word classes.

The same procedure regarding the distinctiveness of the stimuli that was followed in the first part was implemented in the second part. I endeavored to create stimuli that were as unique as possible, bearing no resemblance to anything already in existence. I'm as certain as I could be that that no actual words are already in existence that would be accurately and wholly defined by the definitions I created. This was done on purpose, of course, to make it easier for the participants to invent a new word. It would have been unreasonable to ask them to create a new word for a familiar object like a broom. The image and the real word that represents it in English would be exceedingly difficult to ignore. For this reason I deemed it necessary to invent definitions that are, by my own admission, curious. These definitions also have what I refer to as

⁵My suspicions were later confirmed during the interview process as I often found myself thinking that, if the tables were turned, I might be unable to successfully complete my own interview.

multiple *semantic peaks*. This means they have more than one striking aspect to them. There will naturally be elements of the states of matter and the primary emotions in the first six but there is more to them than just that. These definitions were designed to include multiple, image-creating elements that work in parallel with the fundamental aspects of the states of matter and the emotions. All this was done to facilitate the participant's word creation.

The creative process behind definitions requiring words: Questions S.—Y..

Question S. the wad of hair removed when cleaning a hairbrush.

This was the first of the *Definitions Requiring Words* Questions and the first in the triad of the three states of matter. This one represented the solids. The other salient qualities of this Question include a coiled mass, wispieness and the texture of the wad of hair, oiliness, uselessness, and something to dispose of. It's possible that certain elements of the hairbrush itself influenced the responses. One of these could be the appearance or texture of the prongs from which the wad of hair was removed. All in all, I found the image to be provocative in its unusualness. The wad of hair was something that I assumed all participants could relate to but something for which none would have previously encountered a specialized name.

Question T. the grease that accumulates on top of a hot pizza.

This was the second of the *Definitions Requiring Words* Questions and the second in the triad of the three states of matter. This one represented the liquids. The other salient qualities of this Question included the taste of the pizza and oil, the viscosity and texture of the oil, the heat of the pizza, and possible revulsion or disgust. The various colors of the oil itself and any toppings on the pizza that the participants may have envisioned could have impacted the responses. I intended for the image to be a bit off-putting. My intention was that it would help the participants focus creatively on the naming process owing to the strength of the image. This

was something that I assumed all participants could relate to but something for which none would have previously encountered a specialized name.

Question U. an unexpected cool breeze on a sultry day.

This was the third of the *Definitions Requiring Words* Questions and the third in the triad of the three states of matter. This one represented the gasses. The other salient qualities of this Question included aspects of discomfort and relief, the sound of the breeze and a summertime setting perhaps. This type of breeze was something that I assumed all participants could relate to but something for which none would have previously encountered a specialized name.

*Question V. the feeling experienced by a death-row inmate after being pardoned or
exonerated.*

This was the fourth of the *Definitions Requiring Words* Questions and the first in the triad of three primary emotions. This one represented joy. The other salient qualities of this Question included aspects of surprise, disbelief, capital punishment, (in)justice, life and death, crimes worthy of death row, luck, and various perspectives of life inside prison. While this situation was something that I expected none of the participants could relate to from personal experience, I assumed that most all of them had heard stories of such events. But even if one had never heard such stories, I felt it was a situation that all people could relate to on some emotional level. I assumed this was something for which none would have previously encountered a specialized name.

Question W. a feeling of extreme disappointment.

This was the fifth of the *Definitions Requiring Words* Questions and the second in the triad of three primary emotions. This one represented sadness. It was hard to explicitly state what the other salient qualities might be attached to this Question because

it was so open-ended. All the Questions up to this point had been very specific and I wanted to try a change of approach. Since disappointment is so non-specific, about all that could be said for the expected responses would be that they would represent something negative. I expected that the participants could relate to some kind of disappointment from personal experience. Even though this situation is generic, I still felt it was something for which none would have previously encountered a specialized name.

Question X. the feeling of being woken in the middle of the night by a strange noise.

This was the sixth of the *Definitions Requiring Words* Questions and the third in the triad of three primary emotions. This one represented fear. Other salient qualities of this Question were darkness, familiar surroundings cast in an unfamiliar light, tension, harm, curiosity and perhaps temporary paralysis. I expected that many participants could relate to this from personal experience. For those that could not, I did not expect them to have a hard time imagining themselves in that position. I assumed this was something for which none would have previously encountered a specialized name.

Question Y. the name of the remotest island on earth.

This was the last of the *Definitions Requiring Words* section. This question formed its own category. The salient qualities of this Question included silence, isolation, perhaps a struggle for survival, exile, a potential tropical setting, the ocean and deep water and maybe a traditional island culture if the participants envisioned this island as an inhabited one. I expected that few participants could relate to this from personal experience. I did expect them to be able to imagine themselves in such a place. I assumed this was something for which none would have previously encountered a specialized name.

Visual Stimuli

The visual stimuli part of the interview represented a change in approach as I no longer spoke to the participants to elicit their responses. The visual stimuli consisted of just one primary section, *Images Requiring Words*.

Images requiring words.



This question set formed the third part of the interview. It alone constituted the visual stimuli part. These Questions were designated Z.—g.. It contained elements of the previous section in that the participants were asked once again to create original words based on the stimulus they were presented. The difference was that the stimuli were visual instead of auditory. The process in this part involved my presenting eight images, one at a time, to the participants. They were asked to create a new word inspired only by the stimulus which felt

phonically appropriate. Magnus (2001, pp. 160—165) was the inspiration behind the formulation of these Questions. The participants were forbidden to use any existing word as motivation for their responses.

The eight images were sub-divided into three groups: two triads and one dyad. The first triad consisted of images dominated by the three primary colors— red, yellow and blue— with subtle, amorphous accents throughout. I chose these particular images because I felt there was something elemental in them as they are the foundation of all other colors. I made the assumption that the interviewees (mostly American), all products of technological societies, would recognize these colors in more or less the same manner. I hypothesized that this primacy could possibly be revealed in the manner in which the participants chose to linguistically represent these images. I did not wish to use images that presented nothing but a field of solid color as I felt this might pose too much of a challenge as far as looking beyond the confines of one's language(s) in order to create an original word. I required something as a distraction so the participants would not focus solely on the color. This means however that the indistinct forms present in the first three images could have had a direct influence on words created by the participants. This is not a problem but it must be recognized when interpreting the data.

The second triad consisted of images presenting different colors and shapes equally. Content-wise, it was the most diverse of all three groups. The colors present run the entire spectrum, with one particular image representing every main color on its own, though this is not done in an obvious, rainbow-like fashion. The shapes are equally diverse with there being a mix of straight lines and curves, acute and obtuse angles, recognizable geometric patterns and chaos. I selected these images because of their striking combinations of color and shape and their overall busyness. They seemed like good candidates to potentially elicit phonic trends. I also

chose these configurations because they represent the convergence of the colors and shapes of the first triad with the theme of the final group, the shape-dominant dyad.

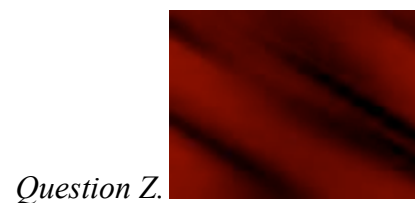
In the dyad it is the shape which dominates the image with the color playing a supporting role. The shapes are quite different from each other as are the background colors. I chose these particular images because each shape leads the observer to distinct places. One has a finite, terminal aspect to it while the other conveys a sentiment of continuance through unknown origin or destination. One presents many points while the other is primarily round. In short, they are quite different, with even their background colors being at opposite ends of the spectrum (blue and reddish). I surmised once again that the various, opposing attributes of these images would be advantageous to the creation of responses untainted by English. I also found both images to be striking which I felt could only help the creative process.

For the same reasons that I chose odd-sounding definitions for the second part, I chose images that I felt would be unfamiliar for the third part. I felt that it would be too great an impediment to the participants to present them with concrete images, like of children playing or a bowl of fruit. These images already have words that are adequate. I felt it would be too difficult for the participants to avoid real word influence if they had great familiarity with the image. Like the definitions of the second section, these images are complex. This was by design as it was intended to aid the participants in their creative process.

Because these were the only stimuli not made from scratch, it was part of the interview protocol for each participant that I verify that they were unfamiliar with the images. There was only one instance of a participant claiming familiarity with an image, which involved Question f. However, due to her insistence that she had never considered what its name might be, her response was allowed to remain for later analysis.

As this is the final section of the interview, it is convenient at this point to mention the down side to having multiple strong elements in a stimulus.⁶ In this situation it becomes more difficult to know what element of the stimulus to attribute to the development of the patterns. What aspect or aspects influenced the formation of the trend? All or some? This problem can only be resolved by further rounds of experimentation that incorporate the elements suspected of eliciting the patterns previously to determine if the same trends develop again. The present experimentation is intended primarily to determine if phonic patterns are developing at all. To determine what is causing them, while definitely related, is secondary.

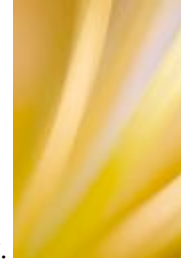
The selection process behind images requiring words: Questions Z.—g.



This was the first of the *Images Requiring Words* section and the first in the primary color triad. It represented the primary color red. The salient qualities of this Question included the color, which was a rich, dark variety of red and the abstract texturing in the background. I hypothesized that the physical properties of red, the longest wavelength in the color spectrum, might be manifest linguistically. It was uncertain how the background texturing would influence the responses. This was an open-ended stimulus that did not offer much in the way of structure. Apart from what was described above, ostensibly there was nothing else to stimulate a participant's response.

⁶ These strong elements are the *semantic peaks* referred to earlier. This applies to the whole experiment and to the second and third parts in particular.

Question a.



This was the second of the *Images Requiring Words* section and the second in the primary color triad. It represented the primary color yellow. The salient qualities of this Question included the color, which was a bright, vibrant variety of yellow and the abstract texturing in the background. I hypothesized that the physical properties of yellow, a moderate wavelength in the color spectrum, might be manifest linguistically. It was uncertain how the background texturing would influence the responses. This was an open-ended stimulus that did not offer much in the way of structure. Apart from what was described above, ostensibly there was nothing else to stimulate a participant's response.

Question b.



This was the third of the *Images Requiring Words* section and the third in the primary color triad. It represented the primary color blue. The salient qualities of this Question included the color, which was a bright, aqua variety of blue and the abstract texturing in the background. I hypothesized that the physical properties of blue, a short wavelength in the color spectrum, might be manifest linguistically. It was uncertain how the background texturing would influence the responses. This was an open-ended stimulus that did not offer much in the way of structure. Apart from what was described above, ostensibly there was nothing else to stimulate a participant's response



Question c.

This was the fourth of the *Images Requiring Words* section and the first of the triad that presented colors and shapes equally. The background was a light shade of yellow. It was overlain with abstract forms of various size and color. Each main color from the spectrum was represented in these forms. I predicted the combination of colors and shapes would serve as a great stimulus for possible phonosemantic phenomena. The image was very busy and I hypothesized this in particular might influence the word-creation process.



Question d.

This was the fifth of the *Images Requiring Words* section and the second of the triad that presented colors and shapes equally. The background was multi-colored and presented lines that were vertical or slightly meandering in orientation. All background colors were in the pastel range. Through the middle was a large meandering shape which was darker than the background. I predicted that the combination of colors and shapes would serve as a great stimulus for possible phonosemantic phenomena. This image, like the previous one, was on the busy side. I hypothesized this might positively influence the word-creation process.

Question e.



This was the sixth of the *Images Requiring Words* section and the third of the triad that presented colors and shapes equally. This image presented no background. It consisted of squares and rectangles of different colors, textures and sizes. I chose it because it represented more structure than the previous two images. Many but not all colors of the spectrum were represented. I predicted the combination of colors and shapes would serve as a great stimulus for possible phonosemantic phenomena. This image was the least busy of the triad. This was the only image to contain the color brown. I hypothesized that all these different attributes might influence the word-creation process in a measurable way.

Question f.



This was the seventh of the *Images Requiring Words* section and the first of the dyad that presented shapes more prominently than colors. This image presented a background of royal blue. The focus of the image consisted of an egg-like object, eggshell in color, which was open on one side. The open side featured several, thick, spiny projections that curved in toward the center of the object. I chose it because it was attention-grabbing and thought-provoking. The contrast between the dark background and the light object made the image more striking. I hypothesized that all these attributes together would serve as a great stimulus for possible phonosemantic phenomena.

Question g.



This was the eighth and last of the *Images Requiring Words* section and the second of the dyad that presented shapes more prominently than colors. This image presented a background of brownish-red. The focus of the image consisted of a grayish, metallic-like spiral that was oriented horizontally. Like the previous image, I chose this one because it was attention-grabbing and thought-provoking. The lack of contrast between the dark background and the dark object was quite mood-creating. The different features of the spiral were also compelling. I hypothesized all these attributes would serve as a great stimulus for eliciting possible phonosemantic phenomena.

Equipment Used

An Olympus Recorder, model VN-5200PC, was used for this study. During the interviews, the recording setting was HQ, the highest quality setting possible.

Procedures

Interview Locations

Most interviews were conducted on the campus of the University of Alabama, Tuscaloosa. Among these, the majority were held in 231 B.B. Comer Hall, in the controlled environment⁷ of my office. A few interviews were conducted in other parts of B.B. Comer Hall,

⁷ A controlled environment is defined as a setting where I have unchallenged control over the variables of the light, noise and the number of people present in that environment. An uncontrolled environment is one where I lack control over one or more of these variables.

most in controlled environments. Participants 20—32 were interviewed in Jupiter, Florida. All these interviews save one were conducted in controlled environments. Participants 63—70 were interviewed off campus in a controlled environment. Participants 71—87 and 97—104 were interviewed on campus in a controlled environment, but not at B.B. Comer Hall, over the course of many days. Noise and other distractions were not a great problem for the interviews not conducted in a controlled environment though background noises and other small distractions were present at times.

Pre-Interview Questions

To qualify legally for an interview, a prospective participant had to be at least 19 years of age. A participant also was required to sign an informed consent waiver approved by the University of Alabama's Institutional Review Board. After a difficult interviewing experience early on, I made it an additional requirement that all participants had to be fluent speakers of English. If an interested individual met these three requirements, I would gladly accept him or her and we would proceed to the interview preparation.

The interview preparation involved the ascertainment of specific background information. First, a participant's age and sex were indicated. Next linguistic background was determined. This included languages that the participant spoke natively as well as any languages of which that he or she had some degree of knowledge. To determine which languages the participants spoke natively I asked the question: "What is your native language?" This question does not take into account grey areas like cases of primary language attrition. This level of precision was not judged to be crucial to the success of this research, though. For the sake of simplicity, I decided that the above question would suffice. Most participants were not reticent to talk about their linguistic heritage though, especially when it was on the complex side. If

there was good reason to indicate that a particular participant was a special case in this regard, this would have been indicated. After determining a participant's native language(s), I asked him or her about any other languages that they knew. The question posed was "Are there any other languages that you have some knowledge of or study?" Later in the interview process I started asking another question: "Are there any other languages that you have knowledge of that could influence your answers here today?" I felt this was more precise and better suited to my purposes.

To classify their answers, I employed a simplified version of the proficiency standards proposed by the American Council on the Teaching of Foreign Languages (ACTFL). This version was of my own design, customized for the purposes of this research. This was done because it was judged impractical to follow the protocols of ACTFL to judge the linguistic competence of every language spoken by every participant. A compromise had to be reached, so four categories of proficiency were recognized: beginning learner, intermediate learner, advanced learner, fluent speaker. I classified a beginning learner as anybody who had knowledge consisting of a few words all the way to that of a first year student or, through real-world experience, had a roughly equivalent knowledge. An intermediate learner was somebody who had had from two to three years of instruction or, had a real-world equivalent knowledge of it. An advanced learner had four or more years of instruction or had a roughly equivalent knowledge. Fluent speaker was reserved for anybody who spoke a language fluently but did not acquire it prior to their teens.

Interview Procedures

The most important variable in this experiment was the degree of influence that the languages that a participant spoke would have over the answers he or she gave. This is the rule

to which all other procedures had to conform. Therefore, in addition to the section-specific directions given for each of the three parts, the participants were constantly reminded to keep their thought processes away from English or any other language as a reference point for their answers.

The instructions for the first part of the auditory stimuli, the *Words Requiring Definitions*, were: “I’m going to read to you a list of eighteen nonsense words. These are words that I created. They are not real words. I need you to define these words based strictly on how they sound without using English or any other language as a reference point. You may not be influenced by rhyme or any other resemblance that these words might have to real words. Simply listen to the sounds of the word and assign the word a meaning that you think is appropriate based solely on the sounds you hear.” I gave these instructions to every participant. After telling the participants the rules I began reciting the list, A.—R..

If there was an answer that I suspected of being inadmissible, I would make an effort to get the participant to try again, though not always explicitly. I employed different methods of trying to get acceptable answers out of the participants depending on what could be ascertained about their mood, personality and any other relevant attributes I observed. There were occasions where I would directly call the participant out and ask them to try again immediately because, for example, their answer rhymed with the nonsense word or maybe their definition was describing something that rhymed with the nonsense word. Other times, I determined it would work better to skip a question that a participant was having a hard time answering and return to it later. Another method I employed involved not alerting the participant to anything at all but moving the Question to a later point. Frequently it appeared the participant did not remember answering

the Question from earlier and, with a fresh perspective, they would provide an acceptable answer the second time, unaware that it was the second time.

For the second part, *Definitions Requiring Words*, the instructions were: “We’re going to flip things around now. I’m going to provide you with a definition and you’re going to provide me with a nonsense word of your creation that you feel captures the essence of this definition. Just as before, you can not be influenced by any real words in your decision making. Here’s how you should go about it: Consider all the different (linguistic) sounds you can make with your mouth. Isolate a few that feel most appropriate for this definition, put them together in the form of a word, and then tell me your word.” After explaining the directions I proceeded to recite Questions S.—Y.. I was ever vigilant for words created that bore a resemblance to real words that could be related to the definition. If I suspected that this was happening, I would follow the same procedures I described above in an attempt to get a usable response.

The third part, *Images Requiring Words*, Questions Z.—g., was handled in a similar manner to the second part. The directions I gave to the participants were essentially the same except I explained that they would create a word for an image instead of a definition. The recommended process of sound isolation and combination was the same. Unless there was a reason to skip an image, I presented them all in the same order each time I interviewed. (This was the protocol I followed for all three parts.) The third part was the conclusion of the interview.

The average interview lasted between fifteen and twenty recording minutes. The shortest interview was approximately five recording minutes, while the longest was approximately forty recording minutes. *Recording minutes* refers only to the interview time that was actually

recorded.⁸ Very few interviews were shorter than twenty minutes real time. Most were about thirty minutes. A few lasted nearly an hour.⁹

Analysis

Transcription

The process of transcribing the data began as soon as the interviews concluded. The transcription of the data was divided into two phases. The first involved interpreting the definitions the participants provided from the first section of the interview. The second involved phonetic transcriptions of the second and third parts of the interviews.¹⁰ The two phases will be described one at a time.

Transcription of Part One-Words Requiring Definitions

This was by far the easier of the two phases of transcription. It became apparent soon after beginning this process that a literal transcription of what was said would not always be possible. Sometimes the participants were exceedingly loquacious and other times some of what they said did not have an impact of the essence of their definition. The decision was made to

⁸ I usually turned the recorder off while I explained directions, answered questions and during long pauses when the participant did not know how to respond.

⁹ The feedback I got from participants after completing the interview was largely positive. Most people seemed to enjoy themselves and, in this case, appearances were largely indicative of the truth because through positive word of mouth and former participant's recommendations I was able to interview many of their friends and acquaintances. I think this interview caused most all the participants to think about language in a way they had never thought about it before so in this sense it was a success as well.

¹⁰ While transcribing the data, I found it convenient to listen to the recordings over headphones. The headphones allowed me to get as clear a representation as possible of what was on the recording. They had a very useful noise cancellation feature which put me in as good a position as possible to make accurate transcriptions.

record a literal transcription when it was practical. Practical was defined as a length within the range of 8-10 words or fewer. I considered a transcription that did not include conversation filler such as *like* or *umm* or *you know* or other related items characteristic of discourse as literal, if it was otherwise brief. If present, miscues and changes of thought were not indicated but a transcription was still counted as literal if there was no further distillation of the response.

When a response was much longer than eight to ten significant words, I would paraphrase in as accurate a manner as possible. When paraphrasing, I started out by listening to the definition in its entirety, usually multiple times, so that I could follow the participant's train of thought. Once I understood where they were going with it, I listened for words that were semantically *heavy*, which is to say the words that are at the crux of the definition. These are the words that cannot be removed without fundamentally altering the meaning of the definition. Once I had these isolated, I formed them into a denser version of what the participant offered. Paraphrased definitions can sometimes be identified by the presence of *pertaining to* or *some kind of*.

Transcription of Parts Two and Three- Definitions Requiring Words and Images Requiring Words

The transcription of parts two and three was quite different than the first part. Since the participants were creating words rather than definitions, the manner of transcription was completely altered. Each word was transcribed in two different ways. First, in a system that was designed specifically for this research, I represented each word phonetically in the English alphabet. I did this with those readers in mind who might not be familiar with the International Phonetic Alphabet (IPA). I designed the system so that anybody who can read English could read these words and know with a relatively high degree of accuracy what they sound like

without the need of a primer. I endeavored to create as close to a one-to-one system as possible, like the IPA, where each sound is represented by only one letter or combination of letters in the English alphabet. Admittedly, in some environments it was impossible to achieve this correspondence due to the variety of consonants and vowels I encountered and the imprecision of the English alphabet to represent foreign sounds. The reader who can not read an IPA transcription should be aware that the accompanying English alphabetic transcription is not always 100% accurate. However, they are never that far off the mark, and they will consistently give one a reasonable idea of what a response sounded like.

The second transcription was done in the IPA. The transcriptions rendered in the IPA should be classified as *narrow* given that aspiration, partially realized segments, unreleased consonants, glides and other juncture phenomena were indicated.¹¹ There was never any question about the necessity of doing narrow transcriptions of the data. I had to make a decision however about the level of precision that I was interested in achieving. This question was answered based on issues of practicality and utility. Practically speaking, the transcriptions made were as narrow as possible given the volume of data to analyze and the amount of time I had to spend analyzing it. From a utilitarian standpoint, I had to determine what level of precision best served the present purposes. While the IPA is capable of representing utterances with great precision, I had to consider what was the minimum level of precision that I could accept for achieving the desired results and then, how far I was interested in going beyond that. I realized that there was a point of diminishing returns regarding the effort required to make the transcription narrower and narrower and the benefits I would reap in terms of phonosemantic

¹¹ The IPA, when it is used to its fullest potential, is capable of offering an astounding level of precision. I make no claims, though, to have used the IPA to its fullest in the present research.

qualities elucidated by the narrower and narrower transcriptions. After a careful evaluation of all the different features that the IPA allows one to represent I eventually decided which ones were indispensable regarding their potential to impact phonosemantic trends and which ones could be ignored.¹²

Data Set Creation

After the process of transcription was complete I began creating various data sets for organizational, illustrative and problem solving purposes. These data sets represent the sum of all my research efforts. These are where the judgments on the presence or absence of phonosemantic phenomena are made. Each example of data set is addressed below.

Foundational Data Sets

These two data sets described below formed the foundation of the entire family of data sets that I created. I use the term *family* by design as one data set gave rise to the next through a process of refinement. This is not to say that the offspring was somehow superior to the parent. Even though there was refinement going on, the parent data set would retain information that is unique to it and crucial to the overall development of the research. Each generation of data set served a unique purpose that could only be realized by it. Almost all later data sets are direct descendants of these two: the *Participant Data Sheets* and the *Question Data Sheets*.

Participant data sheets.

The *Participant Data Sheets* were the first data set created. They were formed during the transcription process as a means of recording the responses of all 116 individual participants.

¹² I probably did go beyond what was necessary to effectively address the phonosemantic concerns of this research, but, I feel it was not a wasted effort. If nothing else, it removes any doubt that there was anything else I could have done to identify phonosemantic trends, assuming the features chosen were the useful features and the ones I ignored were overlooked justifiably.

These data sheets are actually the progenitor of every data set and, therefore, every conclusion that would come after them. They catalog a participant's background information such as age, sex, and linguistic background as well as every answer that they gave. These were designed from a template. These sheets also allow the reader to view how each participant responded to the interview at a glance.

Question data sheets.

The *Question Data Sheet* data set was created to present all the answers to a particular Question at a glance. All 33 Questions, A.-g., were represented. All 116 participants' responses were listed in numerical order on each sheet. This early data set, a direct descendent of the *Participant Data Sheets*, was the first to assume the Question-centered format that all subsequent data sets would assume.

Trend Data Sets

These were the data sets where the search for and classification of trends began. These data sets were the most important of the research because what they revealed dictated the conclusions that were drawn. The trend data sets were divided into two sections. The first section consists of the *Definition Grouping Data Sheets*. The second section consists of the three *Segmental and Supra-Segmental* data sets.

Definition grouping data sheets.

This data set indicated where the semantic trends lie for Questions A.—R.. In order to qualify as a trend, there had to be two responses that could logically be grouped together because of shared semantic elements. Trends varied in size from two to nearly forty constituents. Responses were allowed to be in more than one grouping if it was appropriate. For responses not fitting in any category there was a non-conforming category. It may not seem apparent at first

why a particular response was included in a particular category. This is because I evaluated responses very broadly. Some connections might not be obvious and some are abstract. This is on purpose. I decided to classify the responses in this manner because I determined it would be better to err on the side of inclusion rather than exclusion and easier to strike unwanted answers if necessary rather than have to broaden the categories and re-evaluate all the data. There was no methodical way to analyze this data set. The strategy I employed simply involved reading the lists over and over, relying on short-term memory to identify definitions that could be grouped together.

Segmental and supra-segmental data sheets.

These three data sets marked the phase of detailed evaluation that would establish the identities and the absolute numbers of phonetic constituents, their relative rank in terms of number of appearances and their frequency represented as a percentage, all within their respective phonetic environments. These are the most important of all the S.— g. data sets as far as their ability to comment on the presence or absence of phonosemantic trends. The descriptions of these three data sets are below.

Segmental and supra-segmental profile data sheets.

The *Segmental and Supra-Segmental Profile Data Sheets* descended from the *Question Data Sheets* S.-g.. This was the point where the data sheets assumed the template format that would be used for all three Segmental and Supra-Segmental data sets. The format of the data set was designed to illustrate the features of the participants' answers that were deemed to best bring any phonosemantic trends to the forefront. The data sheets were divided into segmental and supra-segmental sections, hence the name. The segmental section consisted only of the segmental category. The supra-segmental section was then further divided into three smaller

categories. These were consonant clusters, whole syllables and whole words. Throughout the data set, the environments in which the segments and supra-segments appeared were listed. These environments vary, depending on the category involved. Each category is illustrated separately.

Segments were always the first to be analyzed. The first environment where the segments were analyzed was structured according to the syllables where they were found and, within each of these syllables, in terms of syllable configuration. This means that the segments of the onset, nucleus and coda of each numbered syllable were broken down and recorded according to which one of these three environments they appeared in. The syllables of this part were distinguished by the presence or absence of stress. This means there were two categories of each numbered syllable: stressed and unstressed. Stressed syllables were indicated in bold typeface while unstressed syllables were indicated in regular typeface. Monosyllables were analyzed separately here as I did not evaluate them as exhibiting stress. (Syllable number clearly does not apply to them, either.) Once the segments were assigned a place within the configuration paradigm, they were placed in what I refer to as phonetic order. To my knowledge, this is an order that I designed and is not official as far as the IPA is concerned. I am also unaware of any recommended, official phonetic order that has been proposed by the IPA or other linguistic entities which is why I created it. I defined the phonetic order of consonants as beginning at the front according to the point of articulation, where the bilabials /p/ and /b/ are found, and moving down through all the manners of articulation of the bilabial column until all are exhausted. Then, moving towards the back (the right) to the next point of articulation, which is the labiodentals, the next column was evaluated in the same way, from top to bottom through all the manners of articulation. This process continued, top to bottom and front to back, until the

entire consonant chart was covered, usually ending in the voiceless glottal fricative, /h/.

Phonetic order of the vowels was defined differently. I started with the high, front, tense, unrounded vowel /i/ and moved from left to right on the chart which is front to back in terms of tongue position, ending with the high, back, tense, rounded vowel /u/. I continued the pattern of front to back with the next row down starting with the high, front, lax, unrounded vowel /ɪ/ and ending with the high, back, lax, unrounded vowel /ʊ/. I continued this pattern, front to back and high to low until reaching the terminus which was usually the low, back, lax, unrounded vowel /a/. (Its rounded counterpart was absent in the data.) This phonetic order was used as means to organize all segments and, later, all supra-segments in all environments. Having the data in phonetic order allowed it to be in a form that imitated the vocal apparatus and this permits one to see where in the vocal tract the preponderance of segments and supra-segments were clustering. Word-initial and word-final segments were indicated by the presence of the symbol #. This was placed in front of word-initial segments and behind word-final segments. When a segment was repeated, and almost always they were, a number in parentheses was placed immediately next to it to indicate the number of times it appeared in that particular environment. For example, if /p/ appeared five times in an environment, this would be represented as p(5). The following segmental environment involved evaluating the onsets and codas in terms of stress. Next, stress was ignored and all onsets and all codas were merged. The monosyllable onsets and codas were added in here. The next environment of the segments saw a collapsing of the syllable configurations and indicated only syllable number and stress with a separate category for monosyllables. This environment marks the point where the consonants and vowels would be

separated into two distinct groups. The consonants, being the larger group, were always listed first and the vowels were listed underneath. This also marks the point where syllabic nasals and liquids would have to be pulled from the nucleus and listed among the consonants of the environment in question. The next environment involved the removal of the stressed/unstressed distinction and only indicated in which syllables the segments belonged. The following environment merged all stressed segments into one group and all unstressed segments in another. The final environment of the segments saw all consonants merged regardless of stress or syllable number and all vowels merged regardless of stress or syllable number. Monosyllables were added in at this point. This formed the narrow segment count. The final step in the evaluation of the segments, still within the same environment, involved merging of all the segments together into the broad count without regard to word-initial/word-final position or diacritics. The segments of the narrow count roughly correspond to allophonic variations. When these segments were merged, they became what roughly corresponds to phonemes.¹³ This completed the segmental evaluation.

The second category, which was the first of the supra-segments, was the consonant clusters. These were analyzed in environments similar to the segments. They were also placed in phonetic order according to the first consonant in the cluster and assigned word-initial/ word-final values and diacritics when applicable. The first environment of the consonant clusters included syllable configuration, number, and stress. This did not include a nucleus position as with the segments because consonant clusters cannot appear there. Monosyllable consonant clusters were treated separately in this environment just as they were above. The next

¹³ Technically, these weren't real allophones or phonemes because I wasn't working within the parameters of a real linguistic system and it has not been established how these sounds correspond to meaning.

environment involved the analysis of clusters in terms of stress and syllable configuration (onset and coda) without respect to syllable number. The following environment saw the variable of stress fall away as all the onset clusters and all the coda clusters were merged. Monosyllable clusters were added at this point. Next came the environment of collapsing syllable configurations. Clusters were organized according to syllable number and stress. Monosyllables were analyzed separately here, as they were above with the segments. After this came the environment of clusters organized by syllables only, without stress. The following environment grouped clusters only by the presence or absence of stress. Finally the environment of merging everything together without regard to stress or syllable number came with the narrow count. Monosyllables were added back in at this point. Staying within the same environment, the broad count came after this which saw the further merging of the clusters without regard to word-initial/word-final position or diacritics.

The category subsequent to the consonant clusters was the whole syllables. Whole syllables were grouped according to stress and syllable number and were assigned word-initial and word-final values as well as diacritics. The phonetic order method that was used up to this point was applied differently to the whole syllables. Within each environment, whole syllables were first grouped according to the vowel in their nucleus. This means the number of groups was equal to the number of vowels represented. Each vowel group was put in phonetic order by placing them one underneath the other with the first vowel according to phonetic order on top, the second under the first, the third under the second, etc. Then, within each vowel group, its members were put into phonetic order according to their first constituent. If the first constituent was the nucleus (the vowel) then this syllable would be placed at the beginning of its vowel group. If there were multiple examples of syllable-initial vowels, they were put in order from

shortest to longest. Whole syllable environments were fewer in number compared to previous categories. The first whole syllable environment had them organized according to syllable number and stress. Monosyllables were pulled out and organized separately. The next environment was organized by syllable with no regard to stress. The following environment was structured according to stress with no regard to syllable number. In the final environment, the whole syllables were grouped together into the narrow count with no stress or syllable number distinctions made between them. Monosyllables were added back at this point, as usual. Staying in this environment, the distinction between word-initial/word-final position and diacritics fell away forming the broad count which was the end of the whole syllables. In some environments the number of whole syllables was too great to fit on a single line. When this occurred, any subsequent lines (placed directly below the first line) were indented to facilitate the reading and interpretation of the list. This curiosity of formatting was intended to remove any possibility that the second line would be interpreted as a new group instead of a continuation of the previous group.

The category that concluded the *Segmental and Supra-Segmental Profile Data Sheets* was the whole words. These were analyzed differently than everything before. They were grouped according to word length. With all the monosyllables together, all the bisyllables together, etc. Within these groups there was a further distinction made between which syllable was receiving stress. For example, the bisyllables were divided into two sub-groups: a group receiving stress on the first syllable and a group receiving stress on the second syllable. This was done for all word lengths. When necessary, there was a separate category for words other than monosyllables that exhibited no stress.

An explanation is warranted regarding the conspicuous presence of empty environments that occasionally appear throughout this and the other two Segmental and Supra-Segmental data sets. Each Question elicited different types of responses from the participants. No two Questions are exactly alike in how they were answered. Some Questions featured responses that were predominantly bisyllabic and some showcased plentiful examples of polysyllabic words. Some Questions had large amounts of consonant clusters in their answers and others did not. Some Questions featured responses that delayed stress till late in the word while others tended to place it early. These and other differences between Questions mean that there will be variations between which environments in a particular word are productive and which are nonproductive. To help the reader appreciate the differences between productive and nonproductive environments, as they will vary from Question to Question, I made the decision to leave the names of all environments in place regardless of whether or not they housed constituents. When one comes across an unproductive environment, one should take notice of it. It should not be forgotten that this is an environment that for some reason seemed inappropriate to all 116 participants, whether or not they were even aware that this was happening. When viewed in this manner, empty environments can reveal interesting things, too.

Segmental and supra-segmental ranking data sheets.

This data set is a direct descendant of the one right above it. I created it as a way to conveniently illustrate which segments and supra-segments were appearing most frequently in their respective environments. One will recall that the constituents of the environments in the data set above were all placed in a variety of my phonetic order. It was determined however that the reader of this research needed a way to more easily identify which segments were dominating the numbers in any given environment. This was the solution. The template that formed the

basis for the previous data set remained unchanged for this data set. What one notices immediately upon seeing this data set is a series of segments or supra-segments in bold typeface that are listed in descending order. To form a part of this list a segment or supra-segment had to be repeated at least once. All segments and supra segments that were not repeated were allowed to remain but they were not placed in bold and were listed at the end. When there were examples of two or more segments or supra-segments that were repeated the same number of times they were put in phonetic order. All single, unrepeated constituents were placed in phonetic order as well. The environments remained the same as they were in the previous data set. One may refer to the environmental descriptions of the *Segmental and Supra-Segmental Profile Data Sheets* above if one requires an explanation of the various environments for this data set.

Another difference between this and the previous data set was the presence of a word length and stress analysis chart. This chart served several different purposes. First it broke down the total number of whole words by word length and then displayed the total number of whole words. Second it illustrated which syllables were receiving stress within a particular word length and how often this was occurring for a particular word length. Finally, it totaled how many times across the entire spectrum of whole words that a particular syllable was stressed. Monosyllables did not figure into the stress tallies because they were not analyzed as showing any stress.

Segmental and supra-segmental frequency data sheets.

This data set is a direct descendant of the one right above it. Its purpose was to display the incidence with which constituents were appearing in their respective environments in terms of a percentage. The percentage was calculated by dividing the number of times an individual constituent appeared in an environment by the total number of constituents in the environment.

In this data set, constituents that were not repeated were not represented as they were in the previous data set. This was done for two reasons. As this is the last of the three *Segmental and Supra-Segmental* data sets, I decided this was the appropriate time to start focusing exclusively on data that indicated trends. Clearly there can be no trends where there is no repetition. Second this was done in an effort to save space which would make reading easier. In the event one wishes to determine the percentages of the unrepeated constituents they can always be found in the *Ranking* data set that gave rise to this data set. Consonants and vowels were considered separately, as usual. This means that most environments in the segment category show two different percentages. Note that the broad counts of the segments, consonant clusters and whole syllables of the *Frequency* data sheets were what would form the basis of the *Results Data Sheets* that followed the completion of all data sets. It was from the *Results Data Sheets* that final conclusions would be drawn for all Questions. The percentages were recorded out to two decimal places because it eliminated the need to round and it improved accuracy all at once. The segments and consonant clusters of this data set for the first time assumed the vertical positioning that was only characteristic of the whole syllables. This was deemed easier to read and, intrinsic to its design, it effectively illustrates the numerical superiority of the constituents on top relative to those lower down. The environments remained the same as they were in the previous two *Segmental and Supra-Segmental* data sets. For a detailed explanation of their structure and purpose, one may read the description found above for the *Segmental and Supra-Segmental Profile Data Sheets*.

At the end of each *Frequency* data set, there is a chart similar to the one found in the *Ranking* data set which described totals of various word lengths and stress positions. The chart here was based on the information contained in the old one but it was represented quite

differently as it was constructed in terms of percentage. A key is required to properly interpret it. The key was included with the chart at the bottom of the Frequency data sheets but I will outline a brief explanation of it here. The words were divided once again according to their length. Their frequency relative to the total number of words is indicated as a percentage. The words' stress was analyzed again, too. First, for each word length, it was indicated by percentage where each of its syllables was receiving stress. Second, it indicated with what frequency a particular syllable was stressed for each word length. Third, from the perspective of all words, it indicated how often a particular syllable was stressed. Words showing no stress were not analyzed in this third category for obvious reasons. Monosyllables, as before, did not figure into the percentages because they were not analyzed as containing stress.

Phonetic Inventory Data Set

This data set was created to conveniently illustrate the array and quantity of sound segments for a particular Question in terms of the IPA chart. There are two varieties within this data set: the *Phonetic Inventory Data Sheet-Narrow* and the *Phonetic Inventory Data Sheet-Broad*.¹⁴ Both data sets are discussed below.¹⁵

Phonetic inventory data sheets-narrow.

These data sheets illustrated in a narrow fashion all the different varieties of consonants and all the different varieties of vowels present among the responses of Questions S.—g.. The presence of aspiration, on- and off-glides, unreleased airflow, vowel lengthening and word-

¹⁴ The term *phonetic* was used as a matter of convenience. These sound segments were not representative of a real linguistic system and can not be tied to any established meanings.

¹⁵ The reader should be aware that infrequently throughout the *Phonetic Inventory Data Sheets*, the *Participant Data Sheets* and the *Question Data Sheets*, the rhotacized schwa /ə̃/ was employed in stressed syllables. This is unorthodox in some traditions where /ɜ/ is preferred in stressed positions. In the present research, the rhotacized schwa was used in both environments.

initial/word-final position was indicated. The number of appearances was not indicated in this group for practical reasons. Several of the cells, even without the numbers, were quite ponderous due to the high level of variations they contain. To add in numbers to all the segments in this situation would only exacerbate the problems of tables that were already excessively turgid in certain cells, thereby throwing them even further out of symmetry, perhaps to the point where they both would no longer be able to fit on the same page. The number of appearances for the segments of the narrow counts can be found on the *Profile* data sheets at the end of the segment category section if one is curious.

Phonetic inventory data sheets-broad.

These data sheets exhibit a broad, phonemic-like representation of the sound segments of the participants' responses to Questions S.—g.. None of the distinctions listed above were indicated. There was room in this chart to include the numbers of appearances of the segments listed. The reader will notice that I analyzed the rhotacized schwa separately from the non-rhotic schwa, so I did not merge them.¹⁶ The segments that were listed on these broad data sheets were the same ones that were analyzed in the *General Analysis* of S.—g..

Results Data Sheets

This was the next large step in the research. It consisted of two main parts. First was the analysis of part one, which involved the further dissection of the definitions that the participants supplied. The second was the examination of parts two and three which involved the deeper

¹⁶ The acoustic effect was judged sufficiently distinct to warrant this; spectrograms indicate that the rhotacized schwa experiences a lowering of the third formant compared to the non-rhotic variety. This was not a pivotal decision however and had no real impact on the way the data was analyzed overall. The schwa was already among the most frequent vowels which qualified for scrutiny in the *Results* section without even taking into consideration the rhotacized examples. This means that merged or not it would have had no impact on the large trends that were analyzed for phonosemantic phenomena because the schwa was going to be present either way.

scrutiny of all the words the participants created. The purpose of the *Results Data Sheets* was to showcase the strongest trends that developed in the data and to discuss their significance. It was from the data as it's presented in the *Results* chapter that the final conclusions would be drawn. Both parts of the analysis will be detailed separately.

Results: A.—R.

The analysis of the first part involved determining which categories of definitions merited being placed front and center in the write-up of the research and which ones could be viewed in the appendix. The determination was made that in order for a category to qualify for appearance in the *Results Data Sheets* it had to comprise at least 5% of the total number of definitions. The process I used for arriving at this figure involved comparing percentages of categories from all Questions A.—R.. While making the comparisons, I noticed that the strongest categories comprised just over 20% of all the definitions for a particular question. (The non-conforming categories, which can be much larger than this, were not considered in this comparison.) This being the case, I decided that if a category could be roughly 25% the size of the largest categories than they could be admitted for consideration. This, I determined, was the smallest percentage allowable that had a legitimate possibility at not being explained away by chance. Admittedly, it is not a large percentage but I wanted to be as thorough as possible in my attempt to isolate semantic trends. There were of course many categories with percentages much higher than 5%. I was unable to locate any precedent for determining statistical significance in a scenario such as this. Given the subjective nature of grouping definitions into semantic categories and considering the added complexity of frequent cross-grouping, I determined that fixing the lower baseline through internal comparison seemed the most sensible and practical way to proceed.

After listing the qualifying categories, I introduced my analysis. I discussed the relative size of the categories paying close attention the non-conforming category. I felt it was important to judge these (and all the data) with a critical eye so I included in my analyses alternative explanations for the trends that developed. These explanations normally revolved around possible English words that could have interfered in the definition process. Specifically, this means that the participant allowed rhyme or some other manifestation of sound similarity to illegally influence their decision making process.

Results: S.—g.

The analysis of the second and third parts was based on the information that came from the *Segmental and Supra-Segmental Frequency Data Sheets*. The same decision made for the previous analysis had to be made for this part as well: Which segments and supra-segments merited being included in the write-up and which ones did not? I decided that for a segment to qualify for inclusion it had to comprise over 9% of the broad count if it were a consonant and over 13% if it were a vowel. The consonant clusters had to comprise over 8% and the whole words had to comprise over 1% of the broad count. The process of internal comparison I used for determining these figures was more or less the same as the process I used above. For each Question S.—g., I determined what the highest percentages were in the broad count for each category of constituent. I then compared them all to determine, in terms of percentage, how soon the drop-off began after the most frequent constituents. The reasons for following this method were the same, too. There were no established methods that seemed appropriate given these unique circumstances so I was inclined to develop methods that were tailored to the needs of the present research. These sheets do not indicate the empty environments like the Segmental and Supra-Segmental data sets do. The reader is encouraged to reference the various *Segmental and*

Supra-Segmental data sets in the appendix where the empty environments were allowed to remain.

After listing the qualifying segments and supra-segments in their respective environments, I discussed the trends in terms of their composition and the various environments where they were found.

CHAPTER 4

RESULTS

Results Data Sheet

Words Requiring Definitions

Question ID: A. smitch [smitʃ]

Below is a listing of most of the definitions given for the word above. Definitions sharing semantic elements were grouped together into the categories below. Some definitions belong to more than one category. A category had to comprise at least 5% of the total amount of definitions to be listed here. See *Definition Groupings Data Sheet A.* in the appendix for a complete listing of all definitions and categories.

a small amount (26): 22.41%

- #4 a pinch of something you cook with
- #17 a little bit of something
- #22 a short, bulky guy
- #24 a little bit
- #25 a small amount
- #28 a small quantity of something
- #29 small
- #30 a small quantity of something
- #31 small
- #34 a small portion of something
- #41 a small animal like a mouse
- #47 a small quantity
- #56 a little bit of something
- #57 a nerdy person without a lot of friends
- #59 a small amount of something
- #60 a small smudge
- #63 a speck
- #72 a small animal, like a squirrel
- #77 the little ball of lint in the pocket
- #84 a short race of people
- #85 something subtracted from something else
- #104 something small
- #106 a small spot
- #107 a very small adult person, like an Irish
- #108 a small game bird, similar to a quail
- #111 a short trip

an imperfect person or action (24): 20.68%

- #6 mean, not nice
- #7 an expression of disappointment like "aw shucks"
- #10 something that injures a person
- #15 when somebody treats you in a manner that causes you to feel insecure
- #16 to smack or smother
- #20 a traitor
- #23 a liar
- #33 to tell on someone
- #35 a person you don't like very much
- #40 sneaky
- #49 untrustworthy
- #50 sly
- #57 a nerdy person without a lot of friends
- #67 a thief

an imperfect person or action (24): 20.68% (cont.)

#73 to be sarcastic
#74 to snatch
#91 a mean person
#93 an accomplice
#99 to snatch
#102 to ogle over something
#105 something gross or smutty
#109 smug
#114 to steal
#115 a person upset by the comment of another

a stain or mark (14): 12.06%

#3 a stain
#26 a smear of color on a wall
#32 a muddy substance
#51 to stain something
#60 a small smudge
#63 a speck
#64 black
#81 soot
#82 a mark, maybe on the wall
#89 a stain
#92 a smudge
#94 to mark on the wall
#106 a small spot
#113 a stain on a garment

restricted motion (14): 12.06%

#11 a tunneling animal like a groundhog
#16 to smack or smother
#18 a glove used in sports, like a baseball mitt
#22 a short, bulky guy
#40 sneaky
#41 a small animal like a mouse
#55 to cloister
#75 a limping way of walking
#78 a car part, like a piston
#79 a briar patch
#95 to cut off (lose) a toenail while stumping it
#97 an interruption
#100 a hard hit in football, like spearing somebody
#111 a short trip

a small place (9): 7.75%

#1 a place in a wall
#2 something you can do with your mouth
#11 a tunneling animal like a groundhog
#43 a crack, like in a sidewalk
#55 to cloister
#77 the little ball of lint in the pocket
#78 a car part, like a piston
#87 digging holes
#101 a pocket watch

diminished (8): 6.89%

#15 when somebody treats you in a manner that causes you to feel insecure
#42 to scribble
#44 something hidden
#52 a fleeting feeling
#55 to cloister
#65 to flash a smile
#71 to quiet somebody
#75 a limping way of walking

abrasive or hard (8): 6.89%

#5 to scratch
#9 the sound of a shoe hitting a nail into a board
#36 a cracker or something crunchy
#66 a scratch

abrasive or hard (8): 6.89% (cont.)

#73 to be sarcastic
#90 bitter tasting
#98 a type of grittiness
#116 a painful boil

handmade (7): 6.03%

#21 a quilting term
#27 a measurement for a perfect fit
#37 a tack
#38 a tool for fletching
#45 to sew rapidly
#62 a tool like a hammer or a wrench
#96 somebody who makes art

Question discussion.

Question A. showed the development of several large trends. It was, comparatively speaking, one of the easier questions to group into categories. It had one of the lowest numbers of definitions not conforming to a category, which can be viewed on *Definition Groupings Data Sheet A.* in the appendix. Many of these trends could have been influenced by English. These are the suspect trends and the English words that might have influenced them:

a small amount, a small place, diminished, restricted motion: *smidge, smidgen*

an imperfect person or action: *snitch*

a stain or mark: *smudge*

handmade: *stitch*

There are other, smaller categories listed on *Definition Groupings Data Sheet A.* which were arguably influenced by English as well. See that *Data Sheet* for the smaller trends not included above and the proposed English words of interference.

Results Data Sheet

Words Requiring Definitions

Question ID: B. jube [ɖʒu^wb]

Below is a listing of most of the definitions given for the word above. Definitions sharing semantic elements were grouped together into the categories below. Some definitions belong to more than one category. A category had to comprise at least 5% of the total amount of definitions to be listed here. See “Definition Groupings Data Sheet B.” in the appendix for a complete listing of all definitions and categories.

a round shape (38): 32.75%

- #2 a fat tube
- #3 a bug like a beetle
- #4 an orb-shaped thing
- #7 a ball-shaped thing, like a toy
- #8 a bottle of something
- #21 a round fruit like a grape or an avocado
- #28 an oblong, round shape
- #29 a stone
- #30 a stocky, little guy
- #32 a jar
- #34 a round bouncing object
- #35 a ball you use in a game
- #41 a round kind of candy, like a jelly bean
- #42 a type of bouncy ball
- #45 a type of candy, shaped like a jelly bean
- #51 a candy like a jelly bean
- #56 a ball
- #62 a round, fruity candy
- #63 a blob of something
- #65 a tube
- #66 a tube in a ‘J’-form
- #68 a bathtub
- #71 a big, round rock
- #74 a glob of something
- #75 a small ball
- #82 a nickname for a fat friend
- #83 a ball
- #85 a general spherical object
- #89 a fruit, like an orange
- #93 a sphere
- #94 a soup bowl
- #96 a spherical shape
- #97 a round shape
- #105 a chamber pot
- #106 like a light bulb
- #108 a ball shaped object
- #109 a round bug with dots
- #110 a brightly colored, plastic toy consisting of folding pipes that can be formed into different shapes
- #113 an inner tube that kids play with
- #116 a chewy candy like a gummy bear, cone shaped

pertaining to fruit (10): 8.62%

- #1 a hard, strawberry candy
- #17 a sweet, seedless fruit
- #21 a round fruit like a grape or an avocado
- #37 a fruit spread
- #62 a round, fruity candy
- #69 jelly
- #79 a jelly-type substance
- #89 a fruit, like an orange
- #90 a gelatinous substance
- #104 a natural fruit drink

candy (7): 6.03%

- #1 a hard, strawberry candy
- #41 a round kind of candy, like a jelly bean

candy (7): 6.03% (cont.)

- #45 a type of candy, shaped like a jelly bean
- #51 a candy like a jelly bean
- #62 a round fruity candy
- #90 a gelatinous substance
- #116 a chewy candy like a gummy bear, cone shaped

a color (7): 6.03%

- #24 a color like purple
- #52 a shade of yellow
- #77 a shade of purple seen after the sun sets
- #99 red
- #110 a brightly colored, plastic toy consisting of folding pipes that can be formed into different shapes
- #111 a color between blue and green
- #112 a shade of blue

actions (7): 6.03%

- #31 to stop
- #46 to jump
- #53 movement to the left
- #55 to throw
- #67 to run
- #91 to dodge
- #95 to fall going up the stairs

Question discussion.

Question B. boasts one of the largest definition groupings of the study found under the **a round shape** category. Curiously, it also had quite a large group of non-conforming definitions which can be seen on *Definition Groupings Data Sheet B.* in the appendix. There is the possibility that several of the groupings were influenced by English words. These are the groupings and the possible interfering words:

a round shape : *boob, tube*

pertaining to fruit, candy: *Jujubes*

actions: *juke*

There were other groupings too small to include on this page which could have been influenced by English. These can be found on *Definition Groupings Data Sheet B.* along with the English words that might have influenced them.

Results Data Sheet

Words Requiring Definitions

Question ID: C. keeve [k^hiv]

Below is a listing of most of the definitions given for the word above. Definitions sharing semantic elements were grouped together into the categories below. Some definitions belong to more than one category. A category had to comprise at least 5% of the total amount of definitions to be listed here. See *Definition Groupings Data Sheet C.* in the appendix for a complete listing of all definitions and categories.

a hole, depression or falling (23): 19.82%

- #1 a small damp place in a cave
- #3 a hole
- #4 a trench
- #17 a hole you dig in the ground
- #24 a narrow passageway
- #29 to keel over
- #30 to cave in, collapse
- #32 a small opening
- #34 a small crevice in a rock wall
- #36 to fall or bust
- #37 to fall down
- #41 a type of difficult, precise dive performed off a diving board
- #48 to overburden yourself
- #53 to hide away treasure as a kid
- #54 a vase for flowers
- #67 to dig
- #77 the little area where you can slide a pen inside the ring of a spiral notebook
- #78 a soft seat, like an airplane seat
- #84 a mound
- #93 to sink
- #99 an atoll
- #109 a crevice in the earth
- #116 the start of the descent on a rollercoaster

cutting instruments, sharp, piercing actions (16): 13.79%

- #7 a tool like a saw
- #10 a tool to open a can
- #31 something sharp, pointed
- #41 a type of difficult, precise dive performed off a diving board
- #42 to cut or open something up
- #43 to jump off of something or to dive
- #49 a peninsula
- #55 a knife
- #61 a manner of working with wood
- #65 a weapon, like a dagger
- #79 a cutting motion
- #80 a special kind of knife
- #90 a large, jagged, free-standing rock
- #91 to cut
- #96 to make something out of wood
- #103 the speed of sound

mental irritation or anguish (12): 10.34%

- #8 a state of being perturbed
- #16 to direct somebody in a precise direction
- #20 a scoundrel
- #70 an unpleasant person
- #94 to pry somebody for help they shouldn't be giving you
- #104 to do something stupid
- #105 something that really annoys somebody
- #107 to antagonize somebody to the point of altercation
- #111 the look you make when you have little hope of success
- #112 to freak out
- #113 to procrastinate so much you are about to miss your deadline
- #115 a description of the sound somebody makes when surprised

food and fruit (12): 10.34%

- #14 an exotic, sweet, green fruit
- #22 a bright orange fruit
- #23 a type of bread
- #25 a quantity of fruit
- #33 a spicy chicken dish
- #35 a type of bread, like a bagel
- #57 a bland food that poor people would eat
- #63 a green fruit like a lime (NOT a kiwi)
- #73 a green vegetable, like a pea
- #75 a type of hearty soup
- #76 a glass dish for storing cakes
- #98 a green fruit, shaped like a banana but smaller

a violent action (10): 8.62%

- #9 the action of a bee striking a car
- #13 to push something over
- #27 a collision between objects
- #28 to push something out of the way
- #36 to fall or bust
- #37 to fall down
- #51 to break something in half
- #71 a sudden movement
- #74 a swinging motion
- #82 a cough or an illness

Question discussion.

Question C. showed some decent-sized definition groupings and only a moderate amount of definitions not conforming to a category which can be seen on *Definition Groupings Data Sheet C.* in the appendix. There are some groupings that could have been influenced by English. They are:

a hole, depression or falling: *cave*
cutting instruments, sharp, piercing actions; a violent action: *cleave*
mental irritation or anguish: *skeeve*
food and fruit: *kiwi*

There were also other groupings which, due to their size, did not qualify for inclusion on this page. Some of these were perhaps influenced by English, too. These can be found on *Definition Groupings Data Sheet C.* along with the English words that might have influenced them.

Results Data Sheet

Words Requiring Definitions

Question ID: D. wam [wam]

Below is a listing of most of the definitions given for the word above. Definitions sharing semantic elements were grouped together into the categories below. Some definitions belong to more than one category. A category had to comprise at least 5% of the total amount of definitions to be listed here. See *Definition Groupings Data Sheet D.* in the appendix for a complete listing of all definitions and categories.

a noise (17): 14.65%

- #10 a sound to describe the impact of crashing onto the floor
- #13 the sound a trombone makes
- #17 a wind instrument in a marching band
- #29 silent
- #32 represents an explosion
- #33 the sound of an impact
- #34 a wind instrument, like a didgeridoo
- #42 an echoing sound
- #44 a big drum or other percussion instrument
- #56 to make a noise
- #57 an exclamation of astonishment
- #67 to listen
- #71 describes a moaning noise
- #75 a shouting way of speaking
- #94 when you hit two pens together really loud
- #100 a long, low-pitched, slow noise with a sudden high-pitched part
- #116 a dispute

an impact (16): 13.79%

- #2 denotes an impact
- #10 a sound to describe the impact of crashing onto the floor
- #32 represents an explosion
- #33 the sound of an impact
- #44 a big drum or other percussion instrument
- #54 to throw a punch
- #66 a splash
- #68 to slap
- #85 to strike
- #86 to strike
- #87 to bounce
- #93 to hit
- #94 when you hit two pens together really loud
- #96 to hit something hard
- #104 something crumpled up, like paper
- #116 a dispute

comfortable, motherly, warm (12): 10.34%

- #6 mother
- #16 to completely relax on the beach
- #26 something warm and fuzzy that wraps around you
- #28 an object you would sit in
- #37 to be at peace
- #43 soft or fluffy, like a blanket
- #51 to cuddle up with a blanket
- #62 spicy chicken
- #73 something woven, like a basket or quilt
- #110 a fuzzy blanket
- #113 comfortable, soothing
- #114 motherly

an animal (12): 10.34%

- #7 a mythical, silly animal
- #11 a type of bird, large and pink
- #12 a small, brown, arboreal animal
- #15 a furry, long-haired, arboreal animal
- #18 a medium-sized animal with a short tail that lives in the jungle

an animal (12): 10.34% (cont.)

- #22 flying squirrel
- #38 an animal like a bat
- #70 a small animal, like a domesticated dog
- #89 a wild animal, like a mountain lion
- #91 a large, black dog
- #106 a rat
- #107 a bat (animal)

Asian food (10): 8.62%

- #4 Asian food
- #21 Asian food
- #31 a Chinese soup
- #45 a Chinese noodle
- #47 a thick, reddish-brown sauce
- #48 chopsticks
- #49 exotic cuisine
- #62 spicy chicken
- #105 a thin, water-based soup
- #108 A food like rice and shrimp or other seafood

pertaining to water (8): 6.89%

- #19 swimming
- #23 an island
- #25 stormy weather
- #72 a wooden sailboat
- #74 something that's wet
- #79 to wade through water
- #88 muddy black ice
- #99 a creek

a large, wide, open space (7): 6.03%

- #8 an open place
- #24 a big, wide-open space
- #40 a lot of something
- #58 big
- #59 a type of wide-brimmed hat
- #82 deserted area
- #98 something broad and concave, like a crater

emotional or mental discontent (7): 6.03%

- #36 to complain
- #50 confused
- #92 to wonder or worry
- #95 to complain
- #102 to be tired
- #109 to be deeply saddened
- #112 bored (not interested)

(non-Asian)food (7): 6.03%

- #5 a type of gin
- #14 a spicy, Latino food
- #46 a fruity candy
- #69 a type of fruity gum
- #78 reminiscent of eggs
- #90 a type of candy, chewy and sweet
- #115 a cooking appliance

Question discussion.

Question D. showed mostly medium-sized trends. This includes the category of non-conforming definitions recorded on *Definition Groupings Data Sheet D.* in the appendix. There were no particularly large categories. As is frequently the case, there were several categories

where the possibility of English influence can't be summarily dismissed. These are the categories and some of the possible English words impacting their constituents:

a noise, an impact: *wham*

comfortable, motherly, warm: *warm, mom*

an animal: *wombat*

Asian food: *Wang, Wong*

Question D. had several categories too small to justify their inclusion here. These can be seen on *Definition Groupings Data Sheet D.*. Possible interfering words coming from English can also be found there.

Results Data Sheet

Words Requiring Definitions

Question ID: E. easloff ['iːz · lɔf]

Below is a listing of most of the definitions given for the word above. Definitions sharing semantic elements were grouped together into the categories below. Some definitions belong to more than one category. A category had to comprise at least 5% of the total amount of definitions to be listed here. See *Definition Groupings Data Sheet E.* in the appendix for a complete listing of all definitions and categories.

elevation or a superior position (21): 18.10%

- #3 a food with something melted and oozing on top
- #8 a surface to paint or draw on
- #27 a mountainous location
- #33 a country like those in Tolkien's "Lord of the Rings"
- #45 a wooden ladder
- #48 an elf
- #49 a ladder
- #52 a kite
- #53 when a plane pulls back prior to takeoff
- #57 a hearty sandwich with a dressing on it
- #63 to ski
- #64 high
- #70 a giraffe
- #74 something that's high up, like the top floor
- #76 to flick water off of a surface
- #79 pertaining to a castle
- #91 a cathedral-type church
- #96 a ladder
- #99 a bastion
- #100 a valley
- #106 a giant wall, like on the Parthenon

loafing, relaxation or idleness (20): 17.24%

- #10 a tropical island
- #13 easily achieved
- #15 a person who likes to choose the easy way out
- #17 a library, a place of peace
- #19 something soft, like a pillow
- #26 a defense attorney who hasn't done his homework
- #31 something smooth, relaxed
- #35 a religious holiday
- #51 to purposefully not do something
- #58 a couch
- #66 pertaining to ease and flow
- #86 a slacker
- #92 to calm down
- #97 a sleeping arrangement involving two or more palates
- #101 a slacker
- #102 relaxed
- #103 a cushion brought to sporting events to sit on
- #105 somebody who's lazy
- #107 to be lazy
- #112 tired

religion (often pertaining to Semites) (10): 8.62%

- #1 a Jewish name
- #4 a Hebrew person
- #5 an eastern religion
- #22 an Arab man
- #34 a Germanic language
- #35 a religious holiday
- #43 a holiday celebrating the harvest
- #75 to pray
- #91 a cathedral-type church
- #108 an expression of jubilation

food (9): 7.75%

- #3 a food with something melted and oozing on top
- #6 a type of food, like rice
- #11 type of food consisting of meat and sauce
- #44 an East Indian food, like curry or rice
- #57 a hearty sandwich with a dressing on it
- #67 to eat
- #72 a soup with noodles, maybe homemade
- #98 a type of noodle, like linguini
- #110 a fruit-flavored, strong alcoholic drink

load moving or bearing (6): 5.17%

- #7 to shovel something
- #20 a pulley
- #25 a cart to carry things
- #42 a tool for spreading something
- #60 to remove something
- #116 a tool, like a shovel and a crowbar

travel or transportation (6): 5.17%

- #21 having to do with roads, highways, bridges
- #32 access to a highway
- #73 walking
- #83 a black sports car
- #111 a dual concept of both a journey and a destination
- #113 a tool used to measure distance

quick movement (6): 5.17%

- #39 quickly
- #53 when a plane pulls back prior to takeoff
- #77 a person who runs around the block with no shoes
- #81 running
- #82 to stop or relent
- #84 to skip fluidly

Question discussion.

Question E. had two fairly large categories with several other medium-sized ones. It also had a large non-conforming category seen on *Definition Groupings Data Sheet E.* in the appendix. There are possible English words which might have influenced several of the categories. These are the categories and the English words:

elevation or a superior position: *loft, lift*

loafing, relaxation or idleness: *ease, easy, to loaf*

religion (often pertaining to Semites): the *-off* or *-ov* surname suffix

Question E. also had several smaller categories that were too small to be included here. These and any English words that might have affected their meanings can be found on *Definition Groupings Data Sheet E..*

Results Data Sheet

Words Requiring Definitions

Question ID: F. kedis ['k^hε · rəd]

Below is a listing of most of the definitions given for the word above. Definitions sharing semantic elements were grouped together into the categories below. Some definitions belong to more than one category. A category had to comprise at least 5% of the total amount of definitions to be listed here. See *Definition Groupings Data Sheet F.* in the appendix for a complete listing of all definitions and categories.

relative distance (to be/ bring near or drive away) (20): 17.24%

- #3 an adjective meaning 'adjacent to'
- #4 to catch things, like fish
- #8 the feeling experienced upon seeing somebody you haven't seen in a long time
- #25 to gather things together
- #27 to scurry away
- #29 close
- #37 to find something
- #52 a shy person
- #55 close together
- #62 to throw something away
- #63 skittish
- #65 twisted together in a pile
- #79 a fruit gathering action
- #87 to catch
- #100 a throw to home plate from the outfield
- #104 to obtain
- #106 to put the top on a pot
- #107 to be reserved
- #111 to bring together
- #113 stacked up, one on another

food (14): 12.06%

- #10 something to store food inside the refrigerator
- #21 food cooked just right, between raw and burned
- #33 a type of lettuce, like kale
- #39 to cook
- #42 a type of dry dog food, like kibble
- #49 a type of wheat
- #67 popcorn
- #68 something to cook in, like a pan
- #77 the scent left after burnt popcorn
- #79 a fruit gathering action
- #82 a long, orange fruit or vegetable, like a banana or a cucumber
- #83 a spice, like garlic
- #101 a big cooking pot, like a cauldron
- #108 a plant, like a cabbage or a lettuce

truncation, cutting, shortening (12): 10.34%

- #15 short and to the point
- #28 to be shorted on something
- #31 something sharp, pointed
- #34 to terminate a game early when a probable outcome has been determined
- #45 to truncate something
- #47 to be brusque
- #48 to cut somebody off in a car
- #54 a type of bed, low to the ground and boxy
- #56 skipped
- #71 something that has been shortened
- #95 to declaw a cat
- #96 something notched

sports (most all involving balls) (9): 7.75%

- #1 a way of kicking a ball
- #7 a type of sport, like soccer
- #34 to terminate a game early when a probable outcome has been determined
- #53 when you're in the outfield and you try to get the ball but miss it

sports (most all involving balls) (9): 7.75% (cont.)

- #59 a hard ball between the size of a softball and a basketball
- #73 a sport with balls
- #84 swimming
- #87 to catch
- #100 a throw to home plate from the outfield

enclosed, bounded or delineated (8): 6.89%

- #10 something to store food inside the refrigerator
- #11 a cabinet
- #12 a secret
- #17 a dog kennel
- #34 to terminate a game early when a probable outcome has been determined
- #61 a type of bucket or container
- #102 to put something away for safe keeping or to wrap something up
- #116 fenced in

shy or reserved (7): 6.03%

- #27 to scurry away
- #38 an introverted person
- #52 a shy person
- #63 skittish
- #86 an aggressive person
- #94 to be shy around your parents but outgoing around everyone else
- #107 to be reserved

shaping by force or striking (7): 6.03%

- #2 beaten into shape
- #23 something stamped
- #43 bent, folded or wrinkled
- #44 something that has an uneven surface
- #60 a manner of striking something
- #66 to hit something
- #74 something that's riveted or studded

twisted or tangled (6): 5.17%

- #13 tangled
- #43 bent, folded or wrinkled
- #44 something that has an uneven surface
- #65 twisted together in a pile
- #76 mixed up words or thoughts
- #109 cross stitching

damaged or destroyed (6): 5.17%

- #6 hurt, injured
- #22 describes a drunk person
- #26 an item that has fallen into the possession of a dog and is destroyed
- #51 incomprehensible
- #92 flawed
- #97 a state of moribund flesh

Question discussion.

Question F. had one comparatively large trend and many other moderate ones. It showed a non-conforming category roughly equal in size to the largest trend category. This can be seen on *Definition Groupings Data Sheet F.* in the appendix. There are a couple of possibilities for English interference among the trends. These are the trends and the suspect English words:

truncation, cutting, shortening, enclosed, bounded or delineated: *cut*

sports (most all involving balls), kick

There were several categories whose definitions were too few in number to include here. These may be found on *Definition Groupings Data Sheet F.*. None of these small categories were suspected of being influenced by English.

Results Data Sheet

Words Requiring Definitions

Question ID: G. mavar ['me^j·vaɪ]

Below is a listing of most of the definitions given for the word above. Definitions sharing semantic elements were grouped together into the categories below. Some definitions belong to more than one category. A category had to comprise at least 5% of the total amount of definitions to be listed here. See *Definition Groupings Data Sheet G.* in the appendix for a complete listing of all definitions and categories.

ships, boats or sailing (14): 12.17%

- #1 a pirate's ship
- #3 an old wooden boat like those of Columbus' day
- #18 a large wooden boat
- #35 a journey
- #43 a quantity of water
- #52 a barge
- #55 an early, metal ship
- #62 something on a ship, maybe for navigation
- #63 to travel
- #65 a big ship
- #67 a ship, like a yacht
- #74 an old boat with sails
- #84 a large, Viking-like sailboat
- #105 a long, epic voyage

color (11): 9.56%

- #4 a bright, sunny time of year
- #12 a yellow cake
- #14 a color close to purple
- #21 a color like mauve
- #26 a type of rose that has the fragrance of lavender
- #36 a hot color, like orange or yellow
- #45 a small, green, ringed planet
- #53 the process of applying a light skin of color to a canvas
- #70 a fruit like an orange
- #83 a type of yellow flower
- #90 a color between light blue and lavender

food (9): 7.82%

- #10 a utensil to prepare food
- #16 a box of candy
- #42 spreadable food in general, like PB&J or Vegemite
- #54 a type of cornstarch
- #69 escargot
- #73 a food like chocolate
- #98 a manufactured milk substance
- #104 ice cream
- #115 a bland food made of eggs, cream and milk

sharp or pointed (8): 6.95%

- #26 a type of rose that has the fragrance of lavender
- #33 a fencing sword
- #37 to cut something
- #72 sharp medical tools
- #94 a single blade razor
- #99 a coat of arms
- #107 a bullfight
- #108 a military job, maybe a cavalryman

upheaval, discontent (8): 6.95%

- #41 a war helmet
- #56 an accident
- #59 to destroy something
- #75 a big, automatic gun
- #89 stormy weather
- #92 angry

upheaval, discontent (8): 6.95% (cont.)

#93 chaos

#116 a dark, melancholy individual

flying (7): 6.08%

#15 a mythological or extinct winged creature

#27 a military airplane

#35 a journey

#63 to travel

#78 a wing(s)

#95 the first voyage on a new aircraft

#105 a long, epic voyage

pertaining to the intellect (7): 6.08%

#6 smart, intelligent

#47 a technical piece of equipment, like with a telescope

#50 complex

#80 a scientific measurement of electricity

#85 absent minded

#91 to think

#100 curious

an animal (6): 5.21%

#15 a mythological or extinct winged creature

#19 an insect like a moth

#69 escargot

#71 a small, ground-dwelling mammal

#82 a big, vicious, hairy animal

#97 a small mammal from Australia

picturesque (6): 5.21%

#2 a description of scenery in a painting

#5 a vineyard

#28 a small, southern town

#68 grass

#87 a type of tree, like a walnut

#102 pretty

Question discussion.

Question G. showed only moderate-sized trends. It had a relatively large non-conforming definition category seen on *Definitions Groupings Data Sheet G.* in the appendix. There were a couple of categories that could have been influenced by English. These are the categories and the possible interfering English words:

ships, boats or sailing: *naval, navy*

color: *mauve*

Question G. also had a fairly large number of categories too small to be included here. They can be seen on *Definition Groupings Data Sheet G.* Any categories that could have been influenced by English are accompanied by the proposed word of interference.

Results Data Sheet

Words Requiring Definitions

Question ID: H. eyeyu ['a^j · ju^w]

Below is a listing of most of the definitions given for the word above. Definitions sharing semantic elements were grouped together into the categories below. Some definitions belong to more than one category. A category had to comprise at least 5% of the total amount of definitions to be listed here. See *Definition Groupings Data Sheet H.* in the appendix for a complete listing of all definitions and categories.

a terrestrial animal (17): 14.65%

- #1 a dog-like animal with a bushy tail and a long nose
- #8 a furry, passive animal
- #12 a type of beetle
- #14 a long, short, white mammal
- #17 a small reptile
- #23 a jackal-type animal
- #27 a small, furry rodent
- #28 an African animal like a deer, with antlers
- #31 a worm
- #35 a big bird, like an ostrich
- #40 a fluffy, white animal found in cold climates
- #41 a medium-sized, ground-dwelling, brown animal with a short tail
- #55 a grey rabbit-like animal
- #72 an animal like a bear that walks on two legs
- #74 a small bird around parks
- #94 a small bird, like a sparrow
- #106 reminiscent of a sled dog

boats and/or water (13): 11.20%

- #30 an inlet on an island
- #33 a small boat the Eskimos would use
- #43 a landform, like a delta
- #44 a canoe paddle
- #54 a peaceful, fishing Indian tribe
- #59 a small one-person boat
- #60 a type of aquatic animal
- #62 a fish or some other aquatic creature
- #82 a small, saltwater fish
- #103 a game played at the beach involving two Frisbees, an umbrella and a wiffle ball
- #105 a pirogue
- #112 water
- #116 a small dolphin

cold or the arctic (7): 6.03%

- #13 an igloo
- #20 an igloo
- #33 a small boat the Eskimos would use
- #40 a fluffy, white animal found in cold climates
- #79 the color of ice when it gets dirty
- #88 a rotten smell in the fridge
- #106 reminiscent of a sled dog

a greeting (7): 6.03%

- #7 a slang form of greeting
- #63 a greeting
- #80 a friendly greeting
- #84 a greeting
- #92 a greeting
- #95 to see an old friend
- #104 to say goodbye

pertaining to Eskimos and Native Americans (6): 5.17%

- #5 a Native American tribe
- #11 a Native American tribe
- #13 an igloo
- #20 an igloo

pertaining to Eskimos and Native Americans (6): 5.17% (cont.)

#33 a small boat the Eskimos would use

#54 a peaceful, fishing Indian tribe

Question discussion.

Question H. had no trends that were both semantically precise and large in number.

There was a very large category of non-conforming definitions amounting to over three times the size of the largest category of semantically groupable definitions. This can be viewed on

Definition Groupings Data Sheet H. in the appendix. There were a few categories that could

have been influenced by English. Here are those suspect categories and the English words that could have influenced them:

boats and/or water: *bayou*

cold or the arctic, pertaining to Eskimos and Native Americans: *igloo*

a greeting: *hi, you!*

There were several smaller categories that did not qualify for inclusion on this page. See *Definition Groupings Data Sheet H.* for these categories and any English words that might have influenced them.

Results Data Sheet

Words Requiring Definitions

Question ID: I. narathooze ['næ · ɹə · θu^wz]

Below is a listing of most of the definitions given for the word above. Definitions sharing semantic elements were grouped together into the categories below. Some definitions belong to more than one category. A category had to comprise at least 5% of the total amount of definitions to be listed here. See *Definition Groupings Data Sheet I.* in the appendix for a complete listing of all definitions and categories.

a medical procedure, medicine or an illness (36): 31.03%

- #2 nose spray
- #4 a sickness of the nose
- #17 an upper respiratory or nasal infection
- #18 a cold medicine, nasal spray
- #22 a medicine for nasal congestion
- #26 an emollient for the feet
- #27 a disease
- #28 a small passageway
- #31 something to do with the nose, smell
- #35 a mental disorder
- #36 the tube used to help a patient breathe
- #39 a nasal strip
- #41 a disease of the immune system that makes you feel drowsy
- #42 an allergy medicine
- #44 a pain reliever, like Icy Hot
- #45 a medicine for the brain
- #46 a cold (illness)
- #48 a drug to treat ADD
- #56 to sneeze
- #57 a medical instrument for internal x-rays
- #58 a type of anesthesia
- #60 relates to the esophagus
- #65 nose medicine
- #71 a decongestant
- #75 a state of being numb
- #76 a nose medicine
- #77 homemade nasal spray
- #78 therapeutic
- #84 a prescription sleeping pill
- #94 a product for the nose or sinuses
- #96 a type of medicine for arthritis
- #98 a sinus condition where the nasal passages are constricted
- #99 a canal
- #102 a medicine for a skin rash
- #107 medicine that treats breast cancer
- #109 similar to neurons in the brain, they transmit signals

the nose (spray) (20): 17.24%

- #2 nose spray
- #4 a sickness of the nose
- #17 an upper respiratory or nasal infection
- #18 a cold medicine, nasal spray
- #22 a medicine for nasal congestion
- #28 a small passageway
- #31 something to do with the nose, smell
- #36 the tube used to help a patient breathe
- #39 a nasal strip
- #42 an allergy medicine
- #46 a cold (illness)
- #56 to sneeze
- #60 relates to the esophagus
- #65 nose medicine
- #71 a decongestant
- #76 a nose medicine
- #77 homemade nasal spray
- #94 a product for the nose or sinuses

the nose (spray) (20): 17.24% (cont.)

- #98 a sinus condition where the nasal passages are constricted
- #99 a canal

a confined passageway (18): 15.51%

- #9 the action of a marble travelling along a Styrofoam pipe
- #21 the path and shape of a river
- #28 a small passageway
- #30 to be close in proximity
- #36 the tube used to help a patient breathe
- #47 an inlet
- #52 a natural passageway
- #53 a trough in the earth
- #55 a sea monster like Loch Ness
- #60 relates to the esophagus
- #70 socks
- #88 a dangerous switchback on a cliff
- #95 to drive off a cliff
- #98 a sinus condition where the nasal passages are constricted
- #99 a canal
- #101 a piece of tubing, like a funnel
- #108 a pass through a canyon
- #116 a knot that can't be untied

mental acuity or confusion and ignorance (15): 12.93%

- #14 confused
- #16 nonsense
- #25 one's thoughts
- #35 a mental disorder
- #43 an intellectual person
- #45 a medicine for the brain
- #48 a drug to treat ADD
- #49 a philosopher
- #51 to daydream
- #85 ignorant
- #86 a person who isn't very smart
- #87 confusion
- #104 to educate somebody
- #109 similar to neurons in the brain, they transmit signals
- #114 to dream

sleep, calm or tranquility (9): 7.75%

- #1 a Greek god of sleep
- #11 a fairy tale for children, like a fable
- #51 to daydream
- #58 a type of anesthesia
- #59 to calm somebody down
- #79 a state of being numb
- #84 a prescription sleeping pill
- #110 soporific
- #114 to dream

festive, excitement, happy (8): 6.89%

- #5 to become excited over
- #6 silly
- #8 something that would make you happy, like a movie
- #19 a parade
- #20 happy
- #50 a competition
- #72 a bubbly, alcoholic beverage
- #103 a drink containing four types of alcohol and fruit juice

storytelling (6): 5.17%

- #1 a Greek god of sleep
- #3 a dark (evil) character from Greek or Roman mythology
- #11 a fairy tale for children, like a fable
- #29 playful
- #37 a story passed down
- #63 to read

Question discussion.

Question I. showed some exceptional categories both in terms of size. It showed a moderate non-conforming category as well which can be viewed on *Definition Groupings Data Sheet I.* in the appendix. These are the categories whose definitions might have been influenced by English:

sleep, calm or tranquility: *snooze*

a confined passageway: *narrow*

There were several categories that were too small to include on this page. These can be found on *Definition Groupings Data Sheet I.*

Results Data Sheet

Words Requiring Definitions

Question ID: *J. phillontave* ['fɪ · lən · tʰeɪv]

Below is a listing of some of the definitions given for the word above. Definitions sharing semantic elements were grouped together into the categories below. Some definitions belong to more than one category. A category had to comprise at least 5% of the total amount of definitions to be listed here. See *Definition Groupings Data Sheet J.* in the appendix for a complete listing of all definitions and categories.

a tool (15): 13.04%

- #31 a mechanical tool used for levering
- #40 a writing utensil
- #42 a shovel used in the garden
- #43 a writing pen
- #50 a measuring device, like a beaker
- #53 a piece of hardware that tightens down a lamp fixture
- #55 a leather-working tool
- #59 a tool like a pick used in archaeology
- #68 duct tape
- #82 a utensil, like a spatula
- #83 a mechanical pencil
- #96 a machine used to cut
- #101 a pitcher, like for water
- #103 a radar detector used by police and baseball scouts
- #107 a car dent remover

caulk or glue (11): 9.56%

- #8 a type of gel used to caulk
- #18 a bone or cartilage in the nose
- #41 a packaging material used at the post office
- #65 something sticky and gritty
- #68 duct tape
- #72 toothpaste
- #77 the glue for tape or a post-it
- #87 a type of glue
- #102 a strong glue or cement
- #105 denture glue, like Fixodent
- #109 a type of caulk

Question discussion.

Question J. was one of the least productive questions for finding semantic trends. The non-conforming category was one of the largest of the entire data set and can be found in *Definition Groupings Data Sheet J.* in the appendix. There were only two categories that were numerous enough to include here. Both were of moderate size. One of these groupings could have been influenced by English:

caulk or glue: *fill, filling*

There were a handful of small groupings that were not listed here. These can be found on *Definition Groupings Data Sheet J.*. Some of these smaller trends could have been influenced by English as well. The proposed English word of interference is listed with the trend.

Results Data Sheet

Words Requiring Definitions

Question ID: K. lulurode ['lu^w · lə · ɹo^wd]

Below is a listing of most of the definitions given for the word above. Definitions sharing semantic elements were grouped together into the categories below. Some definitions belong to more than one category. A category had to comprise at least 5% of the total amount of definitions to be listed here. See *Definition Groupings Data Sheet K.* in the appendix for a complete listing of all definitions and categories.

windy, twisty or curvy (34): 29.31%

- #2 an uneven street
- #3 a windy road like in the game Candyland
- #8 a windy, country road
- #15 a toy for children consisting of interlocking hoops
- #18 a pipe snake
- #23 a mountain trail
- #34 a shortcut on a road trip
- #45 to bypass something
- #48 ambiguous
- #49 a tool for weaving
- #51 to meander
- #60 a passageway
- #61 something that goes on and on and on
- #64 erratic motion
- #66 to swerve down the road
- #67 curves, like in a road OR a rose
- #73 a line of people
- #78 twisty
- #80 a trick involving flips
- #81 a jump rope
- #86 a speed bump
- #87 to run around
- #88 to go off on a tangent when speaking
- #90 to evade a question
- #91 a crazy person, like a schizophrenic
- #98 something that is permanently curled
- #100 misleading
- #105 a winding road
- #106 a big roll of paper
- #107 a bicycle tire
- #108 bizarre or confusing
- #109 a small, delicate, purple flower, built around a central axis
- #110 a mammal that hops and jumps
- #116 a carnival ride, like a merry-go-round

game, play, or whimsy (28): 24.13%

- #3 a windy road like in the game Candyland
- #5 a game, maybe a video game
- #7 a little kid
- #11 a children's game
- #14 a fun, happy, comfortable place
- #15 a toy for children consisting of interlocking hoops
- #17 a toy
- #20 exuberant
- #21 a child's game
- #33 a carefree person
- #38 a whimsical animal with a long tail, like a lemur
- #39 to play
- #40 whimsical, girlish, childhood play
- #57 a game that small children play at recess
- #58 a type of toy
- #76 a piece of play equipment
- #80 a trick involving flips
- #81 a jump rope
- #84 a vacation
- #85 laid back

game, play, or whimsy (28): 24.13% (cont.)

- #87 to run around
- #92 joyful
- #93 whimsical
- #96 a game with a ball
- #97 a soft and frilly fabric
- #111 a positive emotion, like overjoyed
- #113 an incredibly amazing party
- #116 a carnival ride, like a merry-go-round

a flower (purple) (13): 11.20%

- #1 a small, red, fragrant flower
- #4 bright, colorful flowers
- #9 the action of a flower swaying in the wind
- #13 a small, yellow flower
- #16 flowery, embellished
- #31 a small, purple flower
- #53 a bright purple flower
- #62 a flower bed
- #65 fresh irises
- #67 curves, like in a road OR a rose
- #89 colorful
- #102 a purple-pink flower, medium sized
- #109 a small, delicate, purple flower, built around a central axis

a dance (6): 5.17%

- #22 a dance
- #28 a fast-paced dance
- #41 a dance, like the aloha dance
- #59 a tribal dance
- #69 a swing dance
- #79 a shuffling movement

massive or large (6): 5.17%

- #6 a rock
- #19 a hippopotamus
- #25 something heavy
- #27 a planet
- #42 a mountain range
- #101 something solid

Question discussion.

Question K. presented several strong categories, some of which were quite large. It also showed a fairly large, non-conforming category which can be seen in *Definition Groupings Data Sheet K.* in the appendix. Some of the categories could have been influenced by English. Here are the categories and the proposed English interferers:

windy, twisty or curvy : *loop, road*

game, play, or whimsy, a dance the old children's song *Skip to My Lou*, *ludicrous*, *luau*

There were a handful of categories that were not large enough to be included here. They can be found on *Definition Groupings Data Sheet K.*.

Results Data Sheet

Words Requiring Definitions

Question ID: L. goxiwall ['gak · sə · wɔ̃]

Below is a listing of most of the definitions given for the word above. Definitions sharing semantic elements were grouped together into the categories below. Some definitions belong to more than one category. A category had to comprise at least 5% of the total amount of definitions to be listed here. See *Definition Groupings Data Sheet L.* in the appendix for a complete listing of all definitions and categories.

fantastical, non-sensical or different than the norm (25): 21.73%

- #3 something without coherence, nonsensical
- #7 a weird town in a valley
- #8 a circus freak, maybe an animal-man
- #14 reminiscent of Halloween, scary ghosts
- #15 a ferocious animal the size of a raccoon, arboreal, nocturnal, and carnivorous
- #29 an alien monster
- #43 an extraterrestrial being
- #46 a movie monster
- #47 a fantastical Tolkien character
- #58 a big, mean monster, like Grendel
- #61 a weird (drinking) bar
- #65 large, powerful castles, maybe with gargoyles
- #66 to make a weird noise
- #69 a ghost
- #85 insane
- #94 pure mayhem
- #100 an odd, diagonal pattern, like with tiles
- #101 a flying animal, not necessarily a bird, dangerous to people
- #102 a troll or goblin
- #108 an ugly sea creature with tentacles
- #110 an exotic animal, small and grey, harmless to people, maybe found in Australia
- #112 dark (evil)
- #113 a young, mischievous, irresponsible, problem-solving child
- #115 a non-sense statement
- #116 an ogre

something to be feared or otherwise negative (25): 21.73%

- #11 a wolf-like animal
- #14 reminiscent of Halloween, scary ghosts
- #15 a ferocious animal the size of a raccoon, arboreal, nocturnal, and carnivorous
- #28 a mistake you would want to cover up
- #29 an alien monster
- #40 a disease of the skin, a rash
- #46 a movie monster
- #48 to screw up majorly
- #58 a big, mean monster, like Grendel
- #65 large, powerful castles, maybe with gargoyles
- #69 a ghost
- #73 to freak out
- #74 the action of breaking something
- #75 vomiting
- #85 insane
- #90 to hit somebody with a bat
- #92 scared, anxious
- #94 pure mayhem
- #101 a flying animal, not necessarily a bird, dangerous to people
- #102 a troll or goblin
- #108 an ugly sea creature with tentacles
- #112 dark (evil)
- #113 a young, mischievous, irresponsible, problem-solving child
- #114 to make fun of
- #116 an ogre

an animal (18): 15.65%

- #1 a white, vegetarian, ox-like animal
- #8 a circus freak, maybe an animal-man

an animal (18): 15.65% (cont.)

- #11 a wolf-like animal
- #15 a ferocious animal the size of a raccoon, arboreal, nocturnal, and carnivorous
- #18 a type of tropical bird
- #22 a type of waterfowl
- #23 a medium-sized, dog-like animal
- #24 a big, tropical bird
- #27 a parrot
- #42 a bird, like a seagull
- #54 an animal with scales and feet, like an iguana
- #57 a small herbivore animal hunted for its meat
- #84 a short woodland creature, like a koala
- #91 a bird, like a gull
- #101 a flying animal, not necessarily a bird, dangerous to people
- #108 an ugly sea creature with tentacles
- #110 an exotic animal, small and grey, harmless to people, maybe found in Australia
- #111 a beast of the forest, like a small cat, not dangerous to people

adhesives (11): 9.56%

- #9 putty used for sealing up cracks
- #44 floor sealant
- #49 a type of adhesive
- #51 to glue something together
- #56 a type of slime or sludge
- #76 something that gets stuck to the bottom of your shoe
- #87 a type of caulk
- #93 thick
- #96 a putty to form molds for repairs
- #103 a putty substance used to fix leaks
- #107 caulk for floor tile

a castle, architecture, or a structure (8): 6.95%

- #21 describes the architecture of a castle
- #25 a thatched roof
- #33 Spanish-type architecture
- #34 supports a building like a flying buttress
- #59 a construction tool for measuring
- #65 large, powerful castles, maybe with gargoyles
- #67 an old castle
- #71 a stained glass window

food and drink (6): 5.21%

- #26 a seasoning salt for cooking shellfish
- #38 a Scottish alcoholic beverage
- #79 a traditional way in which beer is consumed
- #83 a green spherical vegetable
- #105 a food like sausages and sauerkraut
- #109 a spicy chili from Spain

Question discussion.

Question L. showed several good-sized trends. It also had a large non-conforming category which was actually the largest category of the question. This can be viewed on *Definition Groupings Data Sheet L.* in the appendix. There was a category where there might be a connection between English and the definitions provided:

adhesives, a castle, architecture, or a structure: *wall*

There were several categories too small to fit on this sheet. Any of these that were possibly influenced by English are accompanied by the hypothesized English word. This information may be found on *Definition Groupings Data Sheet L.*

Results Data Sheet

Words Requiring Definitions

Question ID: M. cengastumine [sɪn · 'gæs · tə · maɪn]

Below is a listing of most of the definitions given for the word above. Definitions sharing semantic elements were grouped together into the categories below. Some definitions belong to more than one category. A category had to comprise at least 5% of the total amount of definitions to be listed here. See *Definition Groupings Data Sheet M.* in the appendix for a complete listing of all definitions and categories.

disease, the body or gastro-intestinal issues (21): 18.10%

- #1 a skin disease of the legs
- #14 a stomach disease
- #19 a stomach ache
- #23 a disease of the stomach
- #25 a stomach disease
- #27 an internal organ
- #29 an illness of the immune system
- #30 a stomach problem
- #31 a medicine for the sinuses
- #39 to do surgery
- #40 nausea
- #43 a blood disease
- #57 describes something unpleasant in the body, uneasiness
- #60 a disease where sweating is one of the symptoms
- #82 a saw that a surgeon would use
- #90 a parasitic insect that sucks blood
- #98 a manufactured compound in a prescription drug
- #101 a disease of the intestines
- #105 bloated
- #110 a disease of the intestines
- #115 a medical procedure where scans of the internal organs are made

chemical compounds, elements or minerals (17): 14.65%

- #5 oil refining
- #9 a chemical compound used for making rubber ducks
- #12 something poisonous, like asbestos
- #21 something's chemical composition
- #22 an element from the periodic table
- #37 a chemical element
- #42 a toxic, chemical compound
- #56 an element
- #73 to experiment with chemicals
- #78 something synthetic or false
- #84 a bright orange mineral
- #87 radioactive chemical
- #91 an ore, something that would be mined
- #96 a type of chalky rock
- #97 a chemical product used as a fire retardant
- #98 a manufactured compound in a prescription drug
- #109 a gasoline additive

warfare, chemical weapons, poison or the infliction of harm (16): 13.79%

- #2 a gas chamber in the Holocaust
- #4 something having to do with warfare and trenches
- #6 an explosion
- #7 a poisonous chemical
- #8 something dangerous, a poisonous murder weapon
- #13 chemical explosion
- #15 to poison with an inhalant
- #17 a tank or related weapon
- #36 a poisonous by-product from a factory
- #42 a toxic, chemical compound
- #46 a large booming noise
- #49 a volatile chemical
- #61 a way of destroying something
- #83 an artificial poisonous chemical

warfare, chemical weapons, poison or the infliction of harm (16): 13.79% (cont.)

#87 radioactive chemical

#107 a liquid explosive

duplication (9): 7.75%

#3 a replication, mimesis or parroting

#33 a synonym

#44 systematically searching for a treasure

#51 to talk nonstop

#62 two things that are alike

#94 when you don't believe somebody because they are a liar

#103 a type of English bifocal

#106 writing a satire of satires

#111 a door to door salesman

low places (6): 5.17%

#4 something having to do with warfare and trenches

#32 to break through a surface

#48 to erupt, like a volcano

#55 an ocean trench

#74 a cavern

#77 the grooves left in hardwood that comes from heavy furniture

Question discussion.

Question M. was one of two questions that were ultimately replaced by different tetrasyllables because it appeared that the participants were having a hard time ignoring resemblances that certain syllables bore to actual English words. The decision was made to analyze both words that were replaced anyway because I had already gone to the trouble to collect the data.

Question M. shows several well-developed semantic trends. It also has a large non-conforming category which is listed on *Definition Groupings Data Sheet M.* in the appendix. There were numerous instances where the improper influence of English was suspected in the designation of meaning by the participants. Here are the suspected categories and English words:

disease, the body or gastro-intestinal issues, low places: *gas*
chemical compounds, elements or minerals, low places: *mine, gas*
warfare, chemical weapons, poison or the infliction of harm, low places: *sin*¹⁷, *gas, mine*
duplication: *mime*

Question M. had several small categories that are listed only on *Definition Groupings Data Sheet M.*. One of these small categories was suspected of being prejudiced by English. The suspected English word can be found on the aforementioned data sheet as well.

¹⁷ The participants were not privy to the manner in which I was spelling the words. Though the reader sees the syllable *cengastumine*, the participants only heard me pronounce the word, which sounds like the English *sin*.

Results Data Sheet

Words Requiring Definitions

Question ID: N. poncrilader ['pʰaŋ · kɿə · leʝ · rə]

Below is a listing of most of the definitions given for the word above. Definitions sharing semantic elements were grouped together into the categories below. Some definitions belong to more than one category. A category had to comprise at least 5% of the total amount of definitions to be listed here. See *Definition Groupings Data Sheet N.* in the appendix for a complete listing of all definitions and categories.

domestic or office tools (23): 20.00%

- #6 a cooking utensil
- #13 a fancy stereo
- #23 a coffee pot
- #33 a coffee pot
- #36 a cleaning utensil
- #42 a paper hole puncher
- #43 an electrical appliance, like a blender or toaster
- #44 a water purifier
- #45 an extension cord
- #51 earthenware
- #57 a device to mix drinks
- #66 a technological device for pushing or opening things
- #68 tongs
- #78 a grinder
- #79 a vegetable juicer
- #84 a thermostat
- #86 a copy machine
- #104 a washing machine
- #105 a noise-making toy with buttons corresponding to different sounds
- #108 churning butter
- #109 an air purifier
- #113 a machine that matches up music with images
- #116 transfers files from a recorder to a television

a measuring device (16): 13.91%

- #10 a tool to measure depth
- #18 a portable heart monitor
- #21 a mathematical device for making calculations
- #25 a meter for determining volume
- #41 a timekeeper
- #49 a device for measuring pressure or temperature
- #52 a machine that tests air pressure
- #59 a time keeper, like a watch
- #62 a measuring device
- #81 a thermostat
- #82 an instrument for finding heart murmurs
- #101 a tool to measure distances
- #102 a switch board or control station
- #106 a person who calculates scores
- #114 a medical device that measures blood pressure
- #115 a device used by a neurologist to measure the amount of electricity in you

a device pertaining to engines or cars (15): 13.04%

- #4 a car part
- #14 a car part
- #16 a car made into an object of art
- #21 a mathematical device for making calculations
- #24 a tool used in car repair
- #32 a guy with a tanker truck
- #35 a part of a car engine
- #37 a pump for filling up tires
- #48 a very fancy car
- #50 a grater or bulldozer
- #54 a part of an engine, like the fuel injectors
- #63 a type of motorbike, like a dirt bike
- #84 a street sweeper

a device pertaining to engines or cars (15): 13.04% (cont.)

- #90 a new type of fuel pump for a car
- #94 a car part, like an oil filter

an impact-causing device (10): 8.69%

- #42 a paper hole puncher
- #56 a machine that hammers
- #58 a machine that stamps things
- #60 something to punch through concrete
- #64 to poke
- #97 something to punch holes in metal
- #98 a large machine that crushes rocks
- #103 a nightstick carried by the police
- #107 a torture device, like a dull guillotine
- #110 a steam powered machine that stamps out widgets

a medical device (10): 8.69%

- #1 a machine which helps keep the muscles strong
- #3 a pacemaker for the pancreas
- #5 a medical device
- #8 a defibrillator
- #12 a medical device to revive people who have passed out
- #18 a portable heart monitor
- #69 a psychotherapist
- #82 an instrument for finding heart murmurs
- #114 a medical device that measures blood pressure
- #115 a device used by a neurologist to measure the amount of electricity in you

(pseudo-)intellectualism (7): 6.08%

- #15 a person obsessed with punctuation
- #30 the means of achieving an end
- #34 somebody whose mind jumps from one place to another
- #39 exploring new places
- #53 a savvy move in poker
- #70 an intelligent person
- #71 a know-it-all

heavy, load-bearing machines (6): 5.21%

- #32 a guy with a tanker truck
- #47 a concrete mixer
- #50 a grater or bulldozer
- #87 an elevator part, maybe a gear
- #96 a machine that moves heavy objects
- #98 a large machine that crushes rocks

Question discussion.

Question N. was one of two questions that were ultimately replaced by different tetrasyllables because it appeared that the participants were having a hard time ignoring resemblances that certain syllables bore to actual English words. The decision was made to analyze both words that were replaced anyway because I had already gone to the trouble to collect the data.

Question N. shows several well-developed semantic trends, most of which center on various type of tools or machines. It has a moderate non-conforming category which can be

viewed on *Definition Groupings Data Sheet N.* in the appendix. There were numerous instances where the improper influence of English was suspected in the designation of meaning by the participants. Here are the suspected categories and English words:

domestic or office tools, a measuring device, a device pertaining to engines or cars, an impact-causing device, a medical device, heavy, load-bearing machines: It is assumed that the presence of the *-er* suffix, a suffix of agency in English, caused most participants to gravitate towards various mechanical devices and machines.

a device pertaining to engines or cars, a medical device: *pump*

(pseudo-)intellectualism: *punk*

an impact-causing device: *punch*

Question N. had several categories too small to merit their inclusion on this page. These can be found on *Definition Groupings Data Sheet N.*. When these categories are suspected of being influenced by English, the suspected English word is indicated below the category.

Results Data Sheet

Words Requiring Definitions

Question ID: O. bowertilldew [ba · wə · 'tɪl · du^w]

Below is a listing of most of the definitions given for the word above. Definitions sharing semantic elements were grouped together into the categories below. Some definitions belong to more than one category. A category had to comprise at least 5% of the total amount of definitions to be listed here. See *Definition Groupings Data Sheet O.* in the appendix for a complete listing of all definitions and categories.

a tool (16): 14.15%

- #3 a balance (scale)
- #10 a tool used for cleaning
- #14 a tool for breaking up dirt
- #27 a drill-like tool used to fashion wood
- #34 a tool for setting up a tent
- #61 a piece of farming equipment that plants seeds
- #62 an electronic gadget for measuring
- #71 a lawn mower
- #76 an automated vacuum
- #79 a barbed spear
- #80 a large, hand-operated digging instrument
- #82 an instrument to clean out the intestines
- #85 a garden tool, like an aerator
- #96 something used to cut grass
- #103 a writing utensil for electronic smart boards, like a stylus
- #109 an essential piece in a pulley system

farming or cultivation (11): 9.73%

- #14 a tool for breaking up dirt
- #20 a garden
- #42 describes somebody who works with their hands
- #47 a lamp that hangs in the garden
- #61 a piece of farming equipment that plants seeds
- #80 a large, hand-operated digging instrument
- #85 a garden tool, like an aerator
- #97 descriptive of boggy soil, like in Scotland
- #101 a term for a hard worker
- #105 cultivation, planting
- #114 a young, hard worker

the passage of time or something put off for later (8): 7.07%

- #17 an activity that you wish to avoid
- #18 implying the wish to procrastinate
- #30 a time late in the day
- #68 tomorrow
- #70 to procrastinate
- #94 to push the snooze button on the alarm
- #95 to waste time
- #111 an amount of time

a mode of transportation (7): 6.19%

- #23 a ship's bilge
- #29 an army tank
- #33 an anchor on a boat
- #65 a sailboat
- #81 a car
- #83 type of helicopter
- #107 reminiscent of a jet engine

pertaining to nobility (7): 6.19%

- #4 descriptive of English nobility long ago
- #35 a round tower with many windows
- #40 something royal
- #56 a castle
- #69 someone in charge
- #74 a boss or leader, like a mayor

pertaining to nobility (7): 6.19% (cont.)

#91 a medieval castle

fantasy worlds (7): 6.19%

#8 a genre of writing, creative non-fiction that uses embellishments to enrich the story

#12 a fantasy novel, like Lord of the Rings

#37 a long sword

#56 a castle

#60 a mythical creature greatly revered in a civilization

#73 a RPG-type video game

#91 a medieval castle

wooded places or forests (6): 5.30%

#31 a wooded place

#32 a highway through the Amazon

#41 a place with a lake where people vacation

#48 a small, colorful bird of the rainforest

#54 a type of tree that produces only pine cones

#59 a type of wild plant, like a bush

an article of clothing (6): 5.30%

#2 an article of clothing

#13 men's casual pants

#43 pants, like jeans

#46 a plastic mask

#55 an ornate robe

#98 a 16th Century men's cloth hat

Question discussion.

Question O. presented no trends of above average size. Moderate to small exemplifies this question. It had an average-sized non-conforming category when compared against other questions. However, the non-conforming category was the largest category of this question. It can be viewed on *Definition Groupings Data Sheet O.* in the appendix. There were possibilities for English impacting the meaning designation process. These are the suspected categories and the English words that might have impacted them:

pertaining to nobility, fantasy worlds: *to bow*

farming or cultivation: *tilling*

the passage of time or something put off for later: *'til* or *until*

a mode of transportation: *bow* (of a boat)

Question O. had many small categories that were too small to include here. These as well as any potential English interfering words can be seen on *Definition Groupings Data Sheet O.*

Results Data Sheet

Words Requiring Definitions

Question ID: P. chocksaheeb ['tʃak · sə · hi · bəʔ]

Below is a listing of most of the definitions given for the word above. Definitions sharing semantic elements were grouped together into the categories below. Some definitions belong to more than one category. A category had to comprise at least 5% of the total amount of definitions to be listed here. See *Definition Groupings Data Sheet P.* in the appendix for a complete listing of all definitions and categories.

a cluster, pile or group of repeated objects (33): 28.94%

- #3 a large gathering of people
- #7 a material like bricks or cement
- #9 a device used for chopping round objects
- #14 somebody who got sick and threw up
- #24 a mixture of various snack foods, like a chex mix
- #28 a big mess
- #29 a stand of logs
- #33 a pile of various, countable pieces
- #35 a group of loud children
- #40 a pile of meaningless crap
- #42 a big mess, a cluster
- #43 a big concert, like Woodstock
- #52 a food made from a mashed up root
- #53 the bend in a river where sediment has collected and it makes the area un-navigable
- #55 an old piece of farming equipment, like for tilling
- #62 reminiscent of bamboo
- #63 to chop something
- #74 to cook something in a wok
- #76 a thick food with big chunks
- #77 the skill of leaping on stones that are far away from one another when crossing a creek
- #79 ground corn
- #82 a crushed up grain, maybe red in color
- #85 many
- #86 a stump grinder
- #87 an ingredient in concrete
- #88 a relay game you play running from pole to pole
- #96 a fence
- #97 a regular polyhedron
- #105 multi-faceted
- #106 a large, indefinite number
- #108 cornmeal-based food
- #112 rocks, like boulders, dispersed
- #116 a big pile of food

food (24): 21.05%

- #2 a hot drink, like tea, taken when ill or in the winter
- #4 a type of candy
- #6 a type of hard, cinnamon candy
- #8 someone who eats a lot
- #16 something to grill on a campfire
- #23 Chinese food
- #24 a mixture of various snack foods, like a Chex mix
- #34 a rich foreign (to Americans) candy
- #37 a foreign candy
- #39 to prepare a food you never prepared before
- #41 a sweet, thick, European food served in a bowl
- #52 a food made from a mashed-up root
- #64 sweet
- #67 chewy candy
- #71 a kitchen table
- #74 to cook something in a wok
- #76 a thick food with big chunks
- #79 ground corn
- #82 a crushed up grain, maybe red in color
- #95 to make a cake
- #102 a vitamin or herb useful for steadying the hand

food (24): 21.05% (cont.)

- #104 to eat
- #108 cornmeal-based food
- #116 a big pile of food

tools (13): 11.40%

- #9 a device used for chopping round objects
- #10 a tool used to make marks on various surfaces
- #47 a part in a furnace
- #49 a tool used by native people for hunting
- #55 an old piece of farming equipment, like for tilling
- #56 the handle on a drawer
- #59 something that helps find direction, like a map or a compass
- #60 a wooden spear
- #83 a touch screen desktop computer
- #86 a stump grinder
- #100 a hammer
- #103 a parking brake for steep inclines
- #107 a hatchet

Indians (9): 7.89%

- #3 a large gathering of people
- #12 an American Indian tribe
- #20 an Indian tribe
- #27 name of an ancient tribe of Native Americans
- #32 a temple in Mexico
- #36 an Indian shelter, like a teepee
- #38 pertaining to Sasquatch
- #46 Indian face paint
- #84 a story passed down about ancestors

an animal (8): 7.01%

- #1 a purple, unfriendly, reptile-like animal
- #44 a large, mysterious monster, like Bigfoot
- #58 pertaining to a rooster
- #61 a big furry monster that eats people
- #68 a horse barn
- #90 an animal that lives in a rocky desert
- #101 a small, furry dinosaur
- #111 an animal, like a squirrel but with a spiky tail

emotion (7): 6.14%

- #5 to become angry over something
- #13 a violent act
- #50 to be cocky
- #93 something funny
- #98 somebody opposed to an idea even though they know it is the morally right thing to do
- #99 a malevolent spirit
- #115 an emotion of anger or disgust

Question discussion.

Question P. showed large, moderate and small semantic trends. Its non-conforming category was fairly small and can be seen on *Definition Groupings Data Sheet P.* in the appendix. There are instances where the influence of English can't be ruled out. These are the categories and the possible interfering English words:

a cluster, pile or group of repeated objects: *heap*

food: *chocolate*
Indians: *Choctaw*
tools: *chop*

Question P. had several small categories not listed here. These can be found on

Definition Groupings Data Sheet P..

Results Data Sheet

Words Requiring Definitions

Question ID: Q. whoagsafflerick [wɒˈg · 'zæ · fəl · ɪk]

Below is a listing of most of the definitions given for the word above. Definitions sharing semantic elements were grouped together into the categories below. Some definitions belong to more than one category. A category had to comprise at least 5% of the total amount of definitions to be listed here. See *Definition Groupings Data Sheet Q.* in the appendix for a complete listing of all definitions and categories.

generally negative (26): 22.60%

- #6 a short, ugly dwarf
- #16 stupidity, arrogance, obnoxiousness
- #20 folly
- #28 to exaggerate about something, to stretch the truth
- #29 weeds
- #32 a really mad person
- #33 someone who commits a serious crime
- #34 a xenophobic feeling
- #35 an ill-tempered person
- #46 some kind of trouble or misfortune
- #52 the action of carjacking
- #58 a torture chamber
- #74 a big, furry, wild, dangerous animal
- #76 hard, manual labor
- #82 a large, evil monster
- #87 a side effect from a drug
- #88 describing an overdressed man
- #91 ridiculous
- #93 something that causes pain
- #94 something crazy
- #97 somebody down on their luck or depressed
- #105 scratchy
- #106 reminiscent of characters like Don Quixote
- #111 a disease affecting the whole body
- #112 sadness
- #113 a booby prize

emotion (18): 15.65%

- #15 describes a person who has gone through an experience that gave them both sadness and happiness at the same time
- #16 stupidity, arrogance, obnoxiousness
- #18 to be astonished
- #20 folly
- #28 to exaggerate about something, to stretch the truth
- #34 a xenophobic feeling
- #35 an ill-tempered person
- #38 a happy reaction
- #50 aggressive
- #51 to be lazy on the sofa
- #59 something fantastic or amazing
- #60 terrific
- #75 a rave
- #78 fun
- #97 somebody down on their luck or depressed
- #112 sadness
- #115 kind or concerned
- #116 a cry of exasperation or excitement

a tool or machine (17): 14.78%

- #3 relating to a pulley mechanism, an archaic means of hoisting something
- #7 a complex machine used for moving things
- #12 a huge, Viking battleaxe
- #13 a time machine
- #17 a rusted, long sword
- #36 an instrument that makes a deep sound, like a brass instrument
- #40 an organizational tool, like a syllabus
- #42 motor oil or engine coolant

a tool or machine (17): 14.78% (cont.)

- #49 a long sword
- #56 a system of pulleys
- #61 a machine to help you do your hair
- #79 a cleat on a wooden boat
- #80 an inky part of the printing press
- #84 a ski lift
- #98 a steering implement for a boat or maybe an amphibious vehicle
- #100 an off-road vehicle like the ones used in African safaris
- #104 a computer

pertaining to water (14): 12.17%

- #5 log riding
- #9 a ship made of toilet paper
- #17 a rusted, long sword
- #24 a tropical island
- #31 a water dam
- #47 a barge
- #54 a duck habitat
- #63 a raft
- #69 a color like dark blue
- #71 a steamboat
- #79 a cleat on a wooden boat
- #83 a fishing boat
- #96 a type of canoe
- #98 a steering implement for a boat or maybe an amphibious vehicle

an animal (12): 10.43%

- #2 a type of squirrel
- #10 a barking animal
- #21 a small animal, like a squirrel
- #25 reminiscent of a wolf
- #27 an animal in the Zebra family
- #43 a wild canine
- #54 a duck habitat
- #55 a small fly
- #62 a small insect
- #74 a big, furry, wild, dangerous animal
- #103 a prehistoric lobster
- #109 a legendary wolf that walks on two legs

furry or fuzzy (10): 8.69%

- #2 a type of squirrel
- #4 furry or fuzzy
- #10 a barking animal
- #14 something wooly or furry
- #21 a small animal, like a squirrel
- #25 reminiscent of a wolf
- #43 a wild canine
- #73 soft material, like cashmere
- #74 a big, furry, wild, dangerous animal
- #109 a legendary wolf that walks on two legs

a spectacle or entertainment (7): 6.08%

- #8 something amazing
- #11 a puppet from a kid's show
- #70 something amazing
- #77 the art of having crumbs fall from the mouth to the beard forming little artistic symbols
- #85 magic
- #92 to ponder
- #107 an exceptional piano player

a textile or garment (6): 5.21%

- #23 a judge's robe
- #30 a type of natural material for a garment
- #39 to sew clothes
- #65 pertaining to knitting
- #66 something woven
- #67 a quilt

Question discussion.

Question Q. presented several substantial categories. It showed a moderate non-conforming category which can be seen on *Definition Groupings Data Sheet Q.* in the appendix. There were a couple of instances where it is possible that English prejudiced the answers of the participants. These are the suspected categories and the English words that might have influenced them:

a tool or machine, *rig*
generally negative, *woe*

Question Q. had several small categories that did not qualify for inclusion on this page. These can be found on *Definition Groupings Data Sheet P.*. Some of these smaller categories could have been influenced by English. When this is suspected, the English word is indicated below the category.

Question Q. was one of two tetrasyllabic questions that were brought in to replace two other tetrasyllables which were deemed to difficult to fairly evaluate due to their strong affinity to actual English words. Great care went in to both of these words' creation and the results speak for themselves. There was clearly less possible interference from rhyme or other resemblance to English.

Results Data Sheet

Words Requiring Definitions

Question ID: R. tobecraydrub [tʰoʷ · bə · 'kɻɛʝ · dɻəb]

Below is a listing of most of the definitions given for the word above. Definitions sharing semantic elements were grouped together into the categories below. Some definitions belong to more than one category. A category had to comprise at least 5% of the total amount of definitions to be listed here. See *Definition Groupings Data Sheet R.* in the appendix for a complete listing of all definitions and categories.

massive, oversized or relatively large (22): 19.13%

- #8 a big, heavy piece of furniture, like a dresser
- #9 a candy bar with 1000 different flavors
- #15 a type of earthworm that lives in a colony that could cause problems if they are too numerous
- #24 a snow-covered, cold mountain
- #34 a gigantic, above-ground reservoir
- #38 a large piece of construction equipment, like a dump truck
- #55 a mountainous place, like Nepal
- #56 a large, plastic, box-shaped container
- #60 a big, multi-purpose tub
- #62 a large enclosed object
- #63 a big rock, like a boulder
- #69 a musical instrument, like the tuba
- #78 fat, gigantic
- #79 two astral bodies colliding
- #82 a giant mushroom
- #85 a fictitious animal that is large, nocturnal, and winged
- #93 large rocks, like mountains
- #95 to break a chair
- #98 a volcanic formation, different from a crater or a caldera
- #105 the feeling from looking at a mountain range from the sky
- #106 a large, flowering bush
- #109 a Caribbean fruit, peach colored, round and the size of a cantaloupe

cold, dark or hard (18): 15.65%

- #5 spelunking
- #24 a snow-covered, cold mountain
- #31 a snow sled
- #34 a gigantic, above-ground reservoir
- #38 a large piece of construction equipment, like a dump truck
- #52 a boxy, older kind of car
- #55 a mountainous place, like Nepal
- #58 an above-ground cave
- #60 a big, multi-purpose tub
- #63 a big rock, like a boulder
- #66 reminiscent of a cave
- #79 two astral bodies colliding
- #93 large rocks, like mountains
- #98 a volcanic formation, different from a crater or a caldera
- #99 a temple
- #105 the feeling from looking at a mountain range from the sky
- #111 a dull color, like a flat grey or silver
- #113 a layer of rock that geologists would study

impeded movement, confinement or slow (17): 14.78%

- #13 a turtle
- #33 a slothful creature of the forest
- #38 a large piece of construction equipment, like a dump truck
- #40 a sitting object, like a vase, used for aesthetic purposes
- #45 to release something
- #46 an ice cream topping, like syrup
- #48 a sedentary person who eats just to eat
- #49 a catatonic condition
- #55 a mountainous place, like Nepal
- #56 a large, plastic, box-shaped container
- #62 a large enclosed object
- #75 jumping in place

impeded movement, confinement or slow (17): 14.78% (cont.)

- #77 the level ice filters reach when they need to be replaced
- #79 two astral bodies colliding
- #94 a feeling of frustration
- #115 a special room in a house for relaxation
- #116 a compartment for holding birds

food (11): 9.56%

- #2 a mushy, bitter, African dish with rice
- #6 a food like a pita with a spicy filling
- #9 a candy bar with 1000 different flavors
- #12 a type of spicy food from the Pacific eaten with fingers
- #26 a type of leafy, oriental vegetable
- #27 a type of East Indian Food
- #46 an Ice Cream topping, like syrup
- #48 a sedentary person who eats just to eat
- #51 to snack
- #82 a giant mushroom
- #109 a Caribbean fruit, peach colored, round, and the size of a cantaloupe

storage (11): 9.56%

- #11 a bathroom towel hanger
- #34 a gigantic, above-ground reservoir
- #56 a large, plastic, box-shaped container
- #60 a big, multi-purpose tub
- #61 a new backpack that floats behind you
- #62 a large enclosed object
- #71 a closet
- #83 a box to store something in
- #100 a small Tupperware set
- #107 like a backpack or a harness, something to be carried on your person
- #116 a compartment for holding birds

plants (8): 9.56%

- #17 a pink & purple plant with circular leaves
- #18 a tall plant with a purple flower
- #42 an exotic type of tree, thin, short with unique leaves
- #80 a suspended flower pot
- #86 a medium sized, seasonal tree
- #97 an arrangement of leaves on a plant
- #101 a yellow weed flower, like a dandelion
- #106 a large, flowering bush

mountains (8): 9.56%

- #24 a snow-covered, cold mountain
- #55 a mountainous place, like Nepal
- #63 a big rock, like a boulder
- #76 a dip in the landscape
- #93 large rocks, like mountains
- #105 the feeling from looking at a mountain range from the sky
- #112 a mineral ore that is grey or silver
- #113 a layer of rock that geologists would study

an animal (7): 6.08%

- #1 an insect
- #13 a turtle
- #15 a type of earthworm that lives in a colony that could cause problems if they are too numerous
- #33 a slothful creature of the forest
- #35 an animal like a wolf
- #57 a small, wild animal, potentially dangerous, that some find cute
- #85 a fictitious animal that is large, nocturnal, and winged

disease or medicine (7): 6.08%

- #7 a liquid medicine
- #10 a type of pain medicine
- #22 a hypochondriac
- #36 a malignant growth, like on the skin
- #37 a disease like cancer
- #68 a type of cough syrup
- #89 medicine, like antibiotics

misfortune or evil (6): 5.21%

#20 craven

#25 something that is falling apart

#59 something sad or melancholy

#67 evil

#73 something to be feared

#110 a negative outcome, trouble

Question discussion.

Question R. showed several substantial trends. It had a non-conforming category slightly smaller than the largest defined category. It can be viewed on *Definition Groupings Data Sheet R.* in the appendix. There was one suspected case of possible English interference: Here is the category and the possible English word of interference.

storage: tub

Question R. had many small categories not included on this sheet. To see all of Question R.'s categories, see *Definition Groupings Data Sheet R.*

Question R. was one of two tetrasyllabic questions that were brought in to replace two other tetrasyllables which were deemed too difficult to fairly evaluate due to their strong affinity to actual English words. Great care went in to both of these words' creation and the results speak for themselves. There was clearly less possible interference from rhyme or other resemblance to English.

Results Data Sheet

Definitions Requiring Words

Question ID: S. the wad of hair removed when cleaning a hairbrush

Below is a listing of the most frequent segments and supra-segments of this Question, the environments in which they appeared and the frequency with which they appeared in the indicated environments. In order to qualify for this data set, segments and supra-segments must have accounted for a minimum percentage of the broad total listed at the end of each section. The minimum values are as follows: consonants- >9%, vowels- >13%, consonant clusters- >8%, whole syllables- >1%. For a complete listing of the segments, supra-segments, environments and frequencies of this Question see the various Question S. data sheet sets in the appendix.

Segments

The most frequent consonants were /s/, /ɹ/, and /k/. The most frequent vowels were /a/ and /ə/.

Segment Total for Stressed and Unstressed Syllables and Monosyllables according to Syllable Configuration

Monosyllable Onset (46):

ɹ(9), 19.56%

#s(5), 10.86%

k(2) 4.34%

Monosyllable Nucleus (26):

a(5) 19.23%

Monosyllable Coda (29):

k#(3) 10.34%

First Syllable Segment Stressed Onset (81):

ɹ(8), 9.87%

#s(6), 7.40%

#k^h(5), 6.17%

k(4) 4.93%

First Syllable Segment Stressed Nucleus (72):

a(14) 19.44%

First Syllable Segment Stressed Coda (34):

k(9), 26.47%

s(3), 8.82%

ɹ(2) 5.88%

First Syllable Segment Unstressed Onset (13):

#s(3) 23.07%

First Syllable Segment Unstressed Nucleus (16):

ə(6) 37.50%

First Syllable Segment Unstressed Coda (6):

k(2) 33.33%

Second Syllable Segment Stressed Onset (17):

s(3) 17.64%

Second Syllable Segment Stressed Nucleus (14):

a(3) 21.42%

Second Syllable Segment Stressed Coda (6):

ɹ(2) 33.33%

Second Syllable Segment Unstressed Onset (82):

s(11), 13.41%

ʌ(7), 8.53%

k(4) 4.87%

Second Syllable Segment Unstressed Nucleus (74):

ə(16), 21.62%

ɑ(10) 13.51%

Second Syllable Segment Unstressed Coda (24):

s#(2), ʌ#(2) 8.33%

Third Syllable Segment Unstressed Onset (36):

ʌ(5), 13.88%

s(4), 11.11%

k(3) 8.33%

Third Syllable Segment Unstressed Nucleus (29):

ə#(4), ɑ(4), 13.79%

ə(3) 10.34%

Third Syllable Segment Unstressed Coda (16):

s#(3) 18.75%

Segment Total for Stressed and Unstressed Onsets and Codas

Stressed Onset (101):

ʌ(8), 7.92%

#s(6), 5.94%

#k^h(5), 4.95%

s(4), k(4) 3.96%

Stressed Coda (40):

k(9), 22.50%

ʌ(4), 10.00%

s(3) 7.50%

Unstressed Onset (134):

s(15), 11.19%

ʌ(14), 10.44%

k(8), 5.97%

#s(3) 2.23%

Unstressed Coda (48):

s#(6), 12.5%

ʌ#(2), k(2), k#(2) 4.16%

Segment Total for Onsets and Codas

Onset (281):

ʌ(31), 11.03%

s(19), 6.76%

#s(14), k(14), 4.98%

#k^h(6) 2.13%

Coda (117):
k(12), 10.25%
s#(7), 5.98%
k#(6), 5.12%
ɹ(5), 4.27%
ɹ#(4), 3.41%
s(3) 2.56%

Segment Total for Stressed and Unstressed Syllables and Monosyllables

Monosyllable Segment (75):
ɹ(9), 12.00%
#s(5), 6.66%
k(3), k#(3) 4.00%

(26):
a(5) 19.23%

First Syllable Segment Stressed (115):
k(13), 11.30%
ɹ(10), 8.69%
#s(6), 5.21%
#k^h(5), 4.34%
s(3) 2.60%

(72):
a(14), 19.44%
#a(2) 2.77%

First Syllable Segment Unstressed (19):
#s(3), k(3) 15.78%

(16):
ə(6) 37.5%

Second Syllable Segment Stressed (23):
s(3), 13.04%
ɹ(2) 8.69%

(14):
a(3) 21.42%

Second Syllable Segment Unstressed (122):
s(11), 9.01%
ɹ(8), 6.55%
k(4),
s#(2), ɹ#(2) 1.63%

(58):
ə(16), 27.58%
a(10) 17.24%

Third Syllable Segment Unstressed (56):
ɹ(5), 8.92%
s(4), 7.14%
s#(3), k(3) 5.35%

(25):
ə#(4), a(4), 16.00%
ə(3) 12.00%

Segment Total by Syllable

First Syllable Segment (134):
k(16), 11.94%
ɹ(11), 8.20%
#s(9), 6.71%
#k^h(5), 3.73%
s(3) 2.23%

(72):
a(14), 19.44%
#a(2) 2.77%

Second Syllable Segment (145):
s(14), 9.65%
ɹ(10), 6.89%
k(4), 2.75%
ɹ#(3), 2.06%
s#(2), k#(2) 1.37%

(72):
ə(16), 22.22%
a(13) 18.05%

Third syllable Segment (59):
s(5), ɹ(5), 8.47%
s#(3), k(3) 5.08%

(27):
ə#(4), a(4), 14.81%
ə(3) 11.11%

Segment Stressed and Unstressed Total

Stressed Segment (140):
k(13), 9.28%
ɹ(12), 8.57%
s(7), 5.00%
#s(6), 4.28%
#k^h(5) 3.57%

(88):
a(17), 19.31%
#a(2) 2.27%

Unstressed Segment (202):
s(15), ɹ(15), 7.42%
k(10), 4.95%
s#(6), 2.97%
#s(3), 1.48%
ɹ#(2), k#(2) .99%

(103):

ə(26), 25.24%

ɑ(15), 14.56%

ə#(4), 3.88%

ɑ#(2) 1.94%

Segment Total (absolute)

Narrow (411):

ɹ(36), 8.75%

k(26), 6.32%

s(22), 5.35%

#s(14), 3.40%

s#(7), 1.70%

k#(6), 1.45%

#k^h(5), 1.21%

ɹ#(3), .72%

k^h(2) .48%

(216):

ɑ(37), 17.12%

ə(26), 12.03%

ə#(4), 1.85%

ɑ#(2), #ɑ(2) .92%

Broad (411):

s(43), 10.46%

ɹ(39), k(39) 9.48%

(216):

ɑ(41), 18.98%

ə(30) 13.88%

627 total segments

Supra-Segments: Consonant Clusters

The most frequent consonant clusters were /sk/ and /gl/.

Consonant Cluster Total for Stressed and Unstressed Syllables and Monosyllables according to Syllable Configuration

Monosyllable Consonant Cluster Onset (all entries are word initial) (19):

#gl(3), 15.78%

#sk(2) 10.52%

First Syllable Consonant Cluster Stressed Onset (all entries are word initial) (18):

#sk(4), 22.22%

#gl(3) 16.66%

Consonant Cluster Total for Stressed and Unstressed Onsets and Codas

Stressed Onset (24):

#sk(4), 16.66%

#gl(3) 12.50%

Consonant Cluster Total for Onsets and Codas

Onset (54):

#sk(6), #gl(6) 11.11%

Consonant Cluster Total for Stressed and Unstressed Syllables and Monosyllables

Monosyllable Consonant Cluster (25):

#gl(3), 12.00%

#sk(2) 8.00%

First Syllable Consonant Cluster Stressed (20):

#sk(4), 20.00%

#gl(3) 15.00%

Consonant Cluster Total per Syllable

First Syllable Consonant Cluster (21):

#sk(4), 19.04%

#gl(3) 14.28%

Consonant Cluster Stressed and Unstressed Total

Consonant Cluster Stressed (27):

#sk(4), 14.81%

#gl(3) 11.11%

Consonant Cluster Total (absolute)

Narrow (68):

#sk(6), #gl(6) 8.82%

Broad (68):

sk(7), 10.29%

gl(6) 8.82%

68 total consonant clusters

Supra-Segments: Whole Syllables

The most frequent whole syllable was /b^h/.

Whole Syllable Total for Stressed and Unstressed Syllables and Monosyllables

Second Syllable Whole Syllable Unstressed (74):

b^h#(3) 4.05%

Whole Syllable Total per Syllable

Second Syllable Whole Syllable (88):

b^h#(3) 3.40%

Whole Syllable Stressed and Unstressed Total

Whole Syllable Unstressed (124):

b^h#(3) 2.41%

Whole Syllable Total (absolute)

Narrow (237):

b^h#(3) 1.26%

Broad (237):

b^h(4) 1.68%

237 total whole syllables

Supra-Segments: Whole Words

Word Length and Stress Analysis—Absolute

Table S.-A

	Syllable Receiving Stress					
	None	First	Second	Third	Fourth	Fifth
Word Length Total						
Monosyllabic: 26						
Bisyllabic: 57	0	54	3			
Trisyllabic: 28	1	18	8	1		
Tetrasyllabic: 2	0	0	2	0	0	
Pentasyllabic: 1	0	0	0	1	0	0
Total: 114	1	72	13	2	0	0

Word Length and Stress Analysis—Relative

Table S.-B

	Syllable Receiving Stress					
	None	First	Second	Third	Fourth	Fifth
Word Length Total						
Monosyllabic: 22.80%						
Bisyllabic: 50.00%	0	94.73%/ 75.00%	5.26%/ 23.07%			
Trisyllabic: 24.56%	3.57%/ 100%	64.28%/ 25.00%	28.57%/ 61.53%	3.57%/ 50.00%		
Tetrasyllabic: 1.75%	0	0	100%/ 15.38%	0	0	
Pentasyllabic: .87%	0	0	0	100%/ 50.00%	0	0
Stressed Syllable Total:		82.75%	14.94%	2.29%	0	0

Table Key: The “Word Length Total” column figure represents the percentage of words that is of that word length. For the cells inside the “Syllable Receiving Stress” columns, the amount on top indicates what percentage of a particular word length was stressed on that syllable. The number on the bottom indicates, for all the words that received stress on a particular syllable, what percentage of these words were of a particular word length. The “Stressed Syllable Total” row indicates what percentage of words was stressed on a particular syllable. Note that monosyllables were not analyzed as receiving stress and the “None” cell in the “Stressed Syllable Total” row is inapplicable.

Question discussion.

Question S. presented as its most frequent segments consonants /s/, /ɹ/, and /k/ and vowels /a/ and /ə/. Two of the consonants, /s/ and /ɹ/, are alveolar. The remaining one, /k/, is velar. /s/ and /k/ are both voiceless. Both vowels, /a/ and /ə/, are unrounded. /ə/ is intermediate and /a/ is lax. The vowels occupy the mid central (/ə/) and low back (/a/) positions.

All segments were absent from fourth and fifth syllables. They were most common in first stressed syllables and in second and third unstressed syllables. Stressed and unstressed totals were roughly even. Syllable configuration positions were roughly even. All segments tended to be word-medial. The monosyllables contained all the segments except /ə/. (/ə/ can never be present in a monosyllable.) /sk/ and /gl/ were the most frequent consonant clusters. /g/ is a voiced, velar plosive. /l/ is an alveolar approximant. Both clusters contain velar consonants. They were only found in monosyllables and in the first stressed syllable in the onset. /bɤ/ was the most frequent whole syllable. /b/ is a voiced, bilabial plosive. /ɤ/ is a retroflex, lateral approximant. It was used syllabically. It was only found in the second unstressed syllable, frequently word-final. Its onset and nucleus are not among the most common segments. For all 114 whole words there were no repeated words.

Results Data Sheet

Definitions Requiring Words

Question ID: T. the grease that accumulates on top of a hot pizza

Below is a listing of the most frequent segments and supra-segments of this Question, the environments in which they appeared and the frequency with which they appeared in the indicated environments. In order to qualify for this data set, segments and supra-segments must have accounted for a minimum percentage of the broad total listed at the end of each section. The minimum values are as follows: consonants- >9%, vowels- >13%, consonant clusters- >8%, whole syllables- >1%. For a complete listing of the segments, supra-segments, environments and frequencies of this Question see the various Question T. data sheet sets in the appendix.

Segments

The most frequent consonants were /s/, /l/, and /k/. The most frequent vowels were /u/ and /a/.

Segment Total for Stressed and Unstressed Syllables and Monosyllables according to Syllable Configuration

Monosyllable Onset (54):

#s(14), l(14), 25.92%

#l(3) 5.55%

Monosyllable Nucleus (32):

a(2) 6.25%

Monosyllable Coda (40):

k#(7), 17.5%

s(2), s#(2) 5.00%

First Syllable Segment Stressed Onset (89):

#s(17), 19.10%

l(7), 7.86%

#k^h(6), 6.74%

k(3), 3.37%

#l(2) 2.24%

First Syllable Segment Stressed Nucleus (67):

u^w(8), a(8), 11.94%

u^w(2) 2.98%

First Syllable Segment Stressed Coda (21):

k(3), 14.28%

s(2), 9.52%

First Syllable Segment Unstressed Onset (15):

#s(3) 20.00%

First Syllable Segment Unstressed Nucleus (13):

a(2) 15.38%

Second Syllable Segment Stressed Onset (12):

l(4) 33.33%

Second Syllable Segment Unstressed Onset (77):

l(7), 9.09%

s(6), 7.79%

k(5) 6.49%

Second Syllable Segment Unstressed Nucleus (70):

a(8), 11.42%

u^w(5), 7.14%

u^w#(4) 5.71%

Second Syllable Segment Unstressed Coda (19):

s#(5), 26.31%

k#(2) 10.52%

Third Syllable Segment Stressed Nucleus (4):

a(3) 75.00%

Third Syllable Segment Unstressed Onset (24):

l(3), 12.50%

s(2), k(2) 8.33%

Third Syllable Segment Unstressed Coda (13):

s#(4), 30.76%

k#(2) 15.38%

Segment Total for Stressed and Unstressed Onsets and Codas

Stressed Onset (105):

#s(17), 16.19%

l(11), 10.47%

#k^h(6), 6.66%

k(3), 2.85%

#l(2), k^h(2) 1.90%

Stressed Coda (27):

k(4), 14.81%

s(3), 11.11%

Unstressed Onset (122):

l(11), 9.01%

s(8), 6.55%

k(7), 5.73%

#s(3) 2.45%

Unstressed Coda (32):

s#(5), 15.62%

k#(4), 12.50%

s(2) 6.25%

Segment Total for Onsets and Codas

Onset (281):

l(36), 12.81%

#s(34), 12.09%

k(11), 3.91%

s(9), 3.20%

#k^h(8), 2.84%

#l(5), 1.77%

k^h(2) .71%

Coda (99):
k#(11), 11.11%
s(7), s#(7), 7.07%
k(5), 5.05%

Segment Total for Stressed and Unstressed Syllables and Monosyllables

Monosyllable Segment (89):
#s(14), l(14), 15.73%
k#(7), 7.86%
#l(3), 3.37%
s(2), s#(2) 2.24%

(32):
a(2) 6.25%

First Syllable Segment Stressed (110):

#s(17), 15.45%
l(7), 6.365%
k(6), #k^h(6), 5.45%
s(2), #l(2), 1.81%

(67):
u^w(8), a(8), 11.94%
u^w(2) 2.98%

First Syllable Segment Unstressed (19):
#s(3), 15.78%

(13):
a(2) 15.38%

Second Syllable Segment Stressed (16):

l(4), 25.00%
s(2) 12.50%

Second Syllable Segment Unstressed (111):

l(7), 6.30%
s(6), 5.40%
s#(5), k(5), 4.50%
k#(2) 1.80%

(55):
a(8), 14.54%
u^w(5), 9.09%
u^w#(4) 7.27%

Third Syllable Segment Stressed:

(4):
a(3) 75.00%

Third Syllable Segment Unstressed (38):

s#(4), 10.52%
s(3), l(3), k(3), 7.89%
k#(2) 5.26%

Segment Total by Syllable

First Syllable Segment (129):

#s(20), 15.50%
l(7), #k^h(7), 5.42%
k(6), 4.65%
s(3), #l(3), 2.32%

(80):

a(10), 12.50%
#u^w(2), u^w(2) 2.50%

Second Syllable Segment (127):

l(11), 8.66%
s(8), 6.29%
s#(5), k(5), 3.93%
k#(2) 1.57%

(66):

a(9), 13.63%
u^w(6), 9.09%
u^w#(5) 7.57%

Third syllable Segment (44):

s#(4), k(4), 9.09%
s(3), l(3), 6.81%
k#(2) 4.54%

(24):

a(4), 16.66%
u^w(2) 8.33%

Segment Stressed and Unstressed Total

Stressed Segment (132):

#s(17), 12.87%
l(11), 8.33%
k(7), 5.30%
#k^h(6), 4.54%
s(4), 3.03%
#l(2), k^h(2) 1.51%

(82):

a(12), 14.63%
u^w(9), 10.97%
u^w(3) 3.65%

Unstressed Segment (172):

l(11), 6.39%
s(10), 5.81%
s#(9), 5.23%
k(8), 4.65%
k#(4), 2.32%
#s(3) 1.74%

(93):
 a(11), 11.82%
 u^w(6), 6.45%
 u^w#(5), 5.37%

Segment Total (absolute)

Narrow (397):
 l(36), 9.06%
 #s(34), 8.56%
 s(16), k(16), 4.03%
 s#(11), k#(11), 2.77%
 #k^h(8), 2.01%
 #l(6), 1.51%
 k^h(2) .50%

(207):
 a(25), 12.07%
 u^w(19), 9.17%
 u^w#(6), 2.89%
 #u^w(2), .96%

Broad (397):
 s(62), 15.61%
 l(42), 10.57%
 k(39) 9.82%

(207):
 u(28), 13.52%
 a(27) 13.04%

604 total segments

Supra-Segments: Consonant Clusters

The most frequent consonant clusters were /sl/ and /st/.

Consonant Cluster Total for Stressed and Unstressed Syllables and Monosyllables according to Syllable Configuration

Monosyllable Consonant Cluster Onset (all entries are word initial) (19):
 #sl(8) 42.10%

Monosyllable Consonant Cluster Coda (all entries are word final) (8):
 st#(2) 25.00%

Second Syllable Consonant Cluster Unstressed Onset (8):
 st(2) 25.00%

Third Syllable Consonant Cluster Unstressed Onset (5):
 st(2) 40.00%

Consonant Cluster Total for Stressed and Unstressed Onsets and Codas

Unstressed Onset (17):
 st(4) 23.52%

Consonant Cluster Total for Onsets and Codas

Onset (62):
#sl(9), 14.51%
st(4) 6.45%

Coda (11):
st#(3) 27.27%

Consonant Cluster Total for Stressed and Unstressed Syllables and Monosyllables

Monosyllable Consonant Cluster (27):
#sl(8), 29.62%
st#(2) 7.40%

Second Syllable Consonant Cluster Unstressed (8):
st(2) 25.00

Third Syllable Consonant Cluster Unstressed (7):
st(2) 28.57%

Consonant Cluster Total per Syllable

Second Syllable Consonant Cluster (9):
st(2) 22.22%

Third Syllable Consonant Cluster (7):
st(2) 28.57%

Consonant Cluster Stressed and Unstressed Total

Consonant Cluster Unstressed (19):
st(4) 21.05%

Consonant Cluster Total (absolute)

Narrow (73):
#sl(9), 12.32%
st(4), 5.47%
st#(3) 4.10%

Broad (73):
sl(9), 12.32%
st(8) 10.95%

73 total consonant clusters

Supra-Segments: Whole Syllables

The most frequent whole syllables were /u/ and /la/.

Whole Syllable Total for Stressed and Unstressed Syllables and Monosyllables

Whole Syllable Total per Syllable

First Syllable Whole Syllable (all entries are word initial) (82):
#u^w(2) 2.43%

Whole Syllable Total (absolute)

Narrow (227):
#u^w(2) .88%

Broad (227):
u(3), la(3) 1.32%

227 total whole syllables

Whole syllable /la/ was never repeated in the same environment which is why it was not recorded above until the final, broad count. To see it in all of its environments, see *Question T. Segmental and Supra-Segmental Profile Data Sheet* in the appendix.

Supra-Segments: Whole Words

Table T.-A

	Syllable Receiving Stress					
	None	First	Second	Third	Fourth	Fifth
Word Length Total						
Monosyllabic: 32						
Bisyllabic: 57	0	53	4			
Trisyllabic: 19	0	13	5	1		
Tetrasyllabic: 6	0	1	2	3	0	
Pentasyllabic: 0	0	0	0	0	0	0
Total: 114	0	67	11	4	0	0

Table T.-B

	Syllable Receiving Stress					
	None	First	Second	Third	Fourth	Fifth
Word Length Total						
Monosyllabic: 28.07%						
Bisyllabic: 50.00%	0	92.98%/79.10%	7.01%/36.36%			
Trisyllabic: 16.66%	0	68.42%/19.40%	26.31%/45.45%	5.26%/25.00%		
Tetrasyllabic: 5.26%	0	16.66%/1.49%	33.33%/18.18%	50.00%/75.00%	0	
Pentasyllabic: 0	0	0	0	0	0	0
Stressed Syllable Total:		81.70%	13.41%	4.87%	0	0

Table Key: The “Word Length Total” column figure represents the percentage of words that is of that word length. For the cells inside the “Syllable Receiving Stress” columns, the amount on top indicates what percentage of a particular word length was stressed on that syllable. The number on the bottom indicates, for all the words that received stress on a particular syllable, what percentage of these words were of a particular word length. The “Stressed Syllable Total” row indicates what percentage of words was stressed on a particular syllable. Note that monosyllables were not analyzed as receiving stress and the “None” cell in the “Stressed Syllable Total” row is inapplicable.

Question discussion.

Question T. presented as its most common segments consonants /s/, /l/, and /k/ and vowels /u/ and /a/. /s/ is a voiceless alveolar fricative. /l/ is an alveolar lateral approximant. /k/ is a voiceless velar plosive. /u/ a rounded, tense, high, back vowel and /a/ is an unrounded, lax,

low, back vowel. They were most common in first stressed syllables and in second and third unstressed syllables. They were also prevalent in monosyllables except for /u/, which was absent in this environment. The consonants favored the syllable onset. The monosyllables contained all the high-frequency segments except for /u/. The segments slightly favored unstressed environments over stressed environments. There was a slight tendency for /s/ and /l/ to be word-initial and for /k/ to be word-medial. The vowels were word-medial for the most part. The most frequent consonant clusters were /sl/ and /st/. /t/ is a voiceless, alveolar, plosive. Both start with the same consonant which was among the most frequent consonants. /sl/ was only found in monosyllables while /st/ was found in second and third unstressed syllables. Both favored syllable onsets over codas. /sl/ was exclusively word-initial while /st/ was only word-medial and word-final. The most frequent whole syllables were /u/ and /la/. Both syllables' vowels were the most frequent vowels of the Question. /u/ tended to be in the first syllable, word-initial while /la/ favored word-medial positions. For all 114 whole words there were no repeated words.

Results Data Sheet

Definitions Requiring Words

Question ID: U. an unexpected cool breeze on a sultry day

Below is a listing of the most frequent segments and supra-segments of this Question, the environments in which they appeared and the frequency with which they appeared in the indicated environments. In order to qualify for this data set, segments and supra-segments must have accounted for a minimum percentage of the broad total listed at the end of each section. The minimum values are as follows: consonants- >9%, vowels- >13%, consonant clusters- >8%, whole syllables- >1%. For a complete listing of the segments, supra-segments, environments and frequencies of this Question see the various Question U. data sheet sets in the appendix.

Segments

The most frequent consonants were /s/, /l/, and /l/. The most frequent vowels were /i/ and /ɪ/.

Segment Total for Stressed and Unstressed Syllables and Monosyllables according to Syllable Configuration

Monosyllable Onset (42):

#s(6), l(6), 14.28%

ɹ(3) 7.14%

Monosyllable Nucleus (27):

ɪ(6), 22.22%

iː(3) 11.11%

Monosyllable Coda (29):

s#(4) 13.79%

First Syllable Segment Stressed Onset (71):

#s(10), 14.08%

#l(7), 9.85%

ɹ(5), 7.04%

l(4) 5.63%

First Syllable Segment Stressed Nucleus (63):

ɪ(9), 14.28%

iː(8) 12.69%

First Syllable Segment Stressed Coda (17):

s(3), 17.64%

ɹ(2) 11.76%

First Syllable Segment Unstressed Onset (25):

l(2) 8.00%

Second Syllable Segment Stressed Onset (20):

l(4) 20.00%

Second Syllable Segment Stressed Nucleus (20):

iː(2), ɪ(2) 10.00%

Second Syllable Segment Unstressed Onset (69):

ɹ(6), l(6), 8.69%

s(3) 4.34%

Second Syllable Segment Unstressed Nucleus (67):

i^l#(8), ɪ(8), 11.94%

i^l(5) 7.46%

Second Syllable Segment Unstressed Coda (17):

ɹ#(2) 11.76%

Third Syllable Segment Unstressed Onset (31):

ɹ(8), 25.80%

s(3), l(3) 9.67%

Third Syllable Segment Unstressed Nucleus (28):

i^l(4), i^l#(4), ɪ(4) 14.28%

Third Syllable Segment Unstressed Coda (12):

ɹ#(2) 16.66%

Fourth Syllable Segment Unstressed Coda (4):

s#(2) 50.00%

Segment Total for Stressed and Unstressed Onsets and Codas

Stressed Onset (93):

#s(10), 10.75%

l(9), 9.67%

#l(7), 7.52%

ɹ(5) 5.37%

Stressed Coda (27):

s(4), 14.81%

ɹ(3), t(3), 11.11%

s#(2) 7.40%

Unstressed Onset (133):

ɹ(15), 11.27%

l(11) 8.27%

Unstressed Coda (37):

ɹ#(4), 10.81%

s#(3), 8.10%

ɹ(2) 5.40%

Segment Total for Onsets and Codas

Onset (267):

l(26), 9.73%

ɹ(23), 8.61%

#s(16), 5.99%

#l(8), 2.99%

s(6), 2.24%

#ɹ(3) 1.12%

Coda (93):

s#(9), 9.67%

s(5), ɹ(5), 5.37%

ɹ#(4) 4.30%

Segment Total for Stressed and Unstressed Syllables and Monosyllables

Monosyllable Segment (71):

#s(6), l(6), 8.45%

s#(4), 5.63%

ɹ(3) 4.22%

(27):

ɪ(6), 22.22%

iʃ(3) 11.11%

First Syllable Segment Stressed (88):

#s(10), 11.36%

ɹ(7), #l(7), 7.95%

l(4), 4.54%

s(3) 3.40%

(63):

ɪ(9), 14.28%

iʃ(8) 12.69%

First Syllable Segment Unstressed (29):

ɹ(2), l(2) 6.89%

Second Syllable Segment Stressed (28):

l(4) 14.28%

(20):

iʃ(2), ɪ(2) 10.00%

Second Syllable Segment Unstressed (99):

ɹ(6), l(6), 6.06%

s(4), 4.04%

ɹ#(2) 2.02%

(54):

iʃ#(8), ɪ(8), 14.81%

iʃ(5) 9.25%

Third Syllable Segment Unstressed (43):

ɹ(9), 20.93%

s(3), l(3), 6.97%

ɹ#(2) 4.65%

(28):

iʃ(4), iʃ#(4), ɪ(4) 14.28%

Fourth Syllable Segment Unstressed (9):

s#(2) 22.22%

Segment Total by Syllable

First Syllable Segment (117):

#s(10), 8.54%

ɹ(9), 7.69%

#l(8), 6.83%

l(6), 5.12%

s(3), 2.56%

#ɹ(2) 1.70%

(87):

iː(9), ɪ(9), 10.34%

#ɪ(2) 2.29%

Second Syllable Segment (127):

l(10), 7.87%

ɹ(7), 5.51%

s(4), 3.14%

ɹ#(2) 1.57%

(74):

ɪ(10), 13.51%

iː#(8), 10.81%

iː(7) 9.45%

Third syllable Segment (47):

ɹ(9), 19.14%

s(4), l(4), 8.51%

s#(2), ɹ#(2) 4.25%

(32):

iː#(5), ɪ(5), 15.62%

iː(4) 12.50%

Fourth Syllable Segment (9):

s#(2) 22.22%

Segment Stressed and Unstressed Total

Stressed Segment (120):

#s(10), 8.33%

l(9), 7.50%

ɹ(8), 6.66%

#l(7), 5.83%

s(4), 3.33%

s#(2) 1.66%

(87):

ɪ(12), 13.79%

iː(10) 11.49%

Unstressed Segment (184):

ɹ(17), 9.23%

l(11), 5.97%

s(7), 3.80%

ɹ#(4), 2.17%

s#(3) 1.63%

(114):
 ɪ(14), 12.28%
 i^h#(13), 11.40%
 i^h(10) 8.77%

Segment Total (absolute)

Narrow (375):
 ɹ(28), 7.46%
 l(26), 6.93%
 #s(16), 4.26%
 s(11), 2.93%
 s#(9), 2.40%
 #l(8), 2.13%
 ɹ#(4), 1.06%
 #ɹ(3) .80%

(228):
 ɪ(32), 14.03%
 i^h(23), 10.08%
 i^h#(14), 6.14%
 #ɪ(2) .87%

Broad (375):
 s(36), 9.60%
 ɹ(35), 9.33%
 l(34) 9.06%

(228):
 i(38), 16.66%
 ɪ(34) 14.91%

603 total segments

Supra-Segments: Consonant Clusters

The most frequent consonant clusters were /fl/ and /sw/.

Consonant Cluster Total for Stressed and Unstressed Syllables and Monosyllables according to Syllable Configuration

Monosyllable Consonant Cluster Onset (all entries are word initial) (16):
 #fl(3), #sw(3) 18.75%

Consonant Cluster Total for Onsets and Codas

Onset (39):
 #fl(4), #sw(4) 10.25%

Consonant Cluster Total for Stressed and Unstressed Syllables and Monosyllables

Monosyllable Consonant Cluster (20):
 #fl(3), #sw(3) 15.00%

Consonant Cluster Total (absolute)

Narrow (48):
 #fl(4), #sw(4) 8.33%

Broad (48):
 fl(4), sw(4) 8.33%

48 total consonant clusters

Supra-Segments: Whole Syllables

The most frequent whole syllable was /kə/.

Whole Syllable Total for Stressed and Unstressed Syllables and Monosyllables

First Syllable Whole Syllable Unstressed (all entries are word initial) (25):

#kə(4) 16.00%

Whole Syllable Total per Syllable

First Syllable Whole Syllable (all entries are word initial) (87):

#kə(4) 4.59%

Whole Syllable Stressed and Unstressed Total

Whole Syllable Unstressed (127):

#kə(4) 3.14%

Whole Syllable Total (absolute)

Narrow (241):

#kə(4) 1.65%

Broad (241):

kə(5) 2.07%

241 total whole syllables

Supra-Segments: Whole Words

Table U.-A

	Syllable Receiving Stress					
	None	First	Second	Third	Fourth	Fifth
Word Length Total						
Monosyllabic: 27						
Bisyllabic: 55	0	50	5			
Trisyllabic: 26	0	11	12	3		
Tetrasyllabic: 4	0	1	3	0	0	
Pentasyllabic: 2	0	0	1	1	0	0
Total: 114	0	62	21	4	0	0

Table U.-B

	Syllable Receiving Stress					
	None	First	Second	Third	Fourth	Fifth
Word Length Total						
Monosyllabic: 23.68%						
Bisyllabic: 48.24%	0	90.90%/80.64%	9.09%/23.80%			
Trisyllabic: 22.80%	0	42.30%/17.74%	46.15%/57.14%	11.53%/75.00%		
Tetrasyllabic: 3.50%	0	25.00%/1.61%	75.00%/14.28%	0	0	
Pentasyllabic: 1.75%	0	0	50.00%/4.76%	50.00%/25.00%	0	0
Stressed Syllable Total:		71.26%	24.13%	4.59%	0	0

Table Key: The “Word Length Total” column figure represents the percentage of words that is of that word length. For the cells inside the “Syllable Receiving Stress” columns, the amount on top indicates what percentage of a particular word length was stressed on that syllable. The number on the bottom indicates, for all the words that received stress on a particular syllable, what percentage of these words were of a particular word length. The “Stressed Syllable Total” row indicates what percentage of words was stressed on a particular syllable. Note that monosyllables were not analyzed as receiving stress and the “None” cell in the “Stressed Syllable Total” row is inapplicable.

Question discussion.

The most frequent segments presented in Question U. were consonants /s/, /ɹ/, and /l/ and vowels /i/ and /ɪ/. /s/ is a voiceless alveolar fricative, /ɹ/ is an alveolar approximant and /l/ is an alveolar lateral approximant. /i/ is an unrounded, tense, high, front vowel and /ɪ/ is an unrounded, lax, high, front vowel. They were most common in first stressed syllables and second and third unstressed syllables. The fourth unstressed syllable showed only a coda. The segments favored unstressed syllables over stressed syllables. Syllable onsets were favored over codas. All segments were present at times in the monosyllables. /s/ and /l/ favored word-initial environments while /ɹ/ favored word-medial. The vowels favored word-medial positions. The most frequent consonant clusters were /fl/ and /sw/. /f/ is a voiceless, labiodental fricative. /w/ is a labial-velar approximant. /l/ and /s/ were among the most frequent segments. Both were exclusively found in monosyllable onsets, word-initial. The most frequent whole syllable was

/kə/. /k/ is a voiceless, velar plosive. /ə/ is a an unrounded, intermediate, mid, central vowel. It was almost exclusively found in the first, unstressed syllable, word-initial. For all 114 whole words there were no repeated words.

Results Data Sheet

Definitions Requiring Words

Question ID: V. the feeling experienced by a death-row inmate after being pardoned or exonerated

Below is a listing of the most frequent segments and supra-segments of this Question, the environments in which they appeared and the frequency with which they appeared in the indicated environments. In order to qualify for this data set, segments and supra-segments must have accounted for a minimum percentage of the broad total listed at the end of each section. The minimum values are as follows: consonants- >9%, vowels- >13%, consonant clusters- >8%, whole syllables- >1%. For a complete listing of the segments, supra-segments, environments and frequencies of this Question see the various Question V. data sheet sets in the appendix.

Segments

The most frequent consonants were /n/ and /s/. The most frequent vowels were /ɪ/ and /a/.

Segment Total for Stressed and Unstressed Syllables and Monosyllables according to Syllable Configuration

Monosyllable Nucleus (17):

ɪ(2) 11.76%

Monosyllable Coda (25):

s#(2) 8.00%

First Syllable Segment Stressed Onset (68):

#s(3), 4.41%

#n(2) 2.94%

First Syllable Segment Stressed Nucleus (63):

ɪ(14), 22.22%

a(10), 15.87%

#a(7) 11.11%

First Syllable Segment Stressed Coda (25):

n(8), 32.00%

s(2) 8.00%

First Syllable Segment Unstressed Nucleus (34):

ɪ(3), 8.82%

#a(2) 5.88%

First Syllable Segment Unstressed Coda (12):

s(2) 16.66%

Second Syllable Segment Stressed Onset (38):

s(6), 15.78%

n(3) 7.89%

Second Syllable Segment Stressed Nucleus (28):

ɪ(3) 10.71%

Second Syllable Segment Stressed Coda (18):

n#(2), n(2) 11.11%

Second Syllable Segment Unstressed Onset (77):

s(13), 16.88%

n(5) 6.49%

Second Syllable Segment Unstressed Nucleus (69):

ɪ(9), 13.04%

əŋ#(5), a(5), 7.24%

əŋ(4), 5.79%

a#(2) 2.89%

Second Syllable Segment Unstressed Coda (22):

s#(4), 18.18%

n#(3), 13.63%

n(2) 9.09%

Third Syllable Segment Unstressed Onset (41):

n(3) 7.31%

Third Syllable Segment Unstressed Nucleus (40):

ɪ(8), 20.00%

əŋ#(4) 10.00%

Third Syllable Segment Unstressed Coda (18):

s#(4) 22.22%

Fourth Syllable Segment Unstressed Coda (7):

s#(3) 42.85%

Fifth Syllable Segment Unstressed Nucleus (2):

əŋ#(2) 100%

Segment Total for Stressed and Unstressed Onsets and Codas

Stressed Onset (114):

s(6), 5.26%

n(5), 4.38%

#s(3), 2.63%

#n(2) 1.75%

Stressed Coda (45):

n(10), 22.22%

n#(2), s(2) 4.44%

Unstressed Onset (155):

s(17), 10.96%

n(8) 5.16%

Unstressed Coda (59):

s#(11), 18.64%

n#(5), 8.47%

n(3), 5.08%

n(2), s(2) 3.38%

Segment Total for Onsets and Coda

Onset (287):

s(23), 8.01%

n(13), 4.52%

#s(4), 1.39%

#n(2) .69%

Coda (129):

s#(14), 10.85%

n(12), 9.30%

n#(7), 5.42%

s(4) 3.10%

Segment Total for Stressed and Unstressed Syllables and Monosyllables

Monosyllable Segment (43):

s#(2) 4.65%

(17):

i(2) 11.76%

First Syllable Segment Stressed (93):

n(8), 8.60%

#s(3), 3.22%

#n(2), s(2) 2.15%

(63):

i(14), 22.22%

a(10), 15.87%

#a(7) 11.11%

First Syllable Segment Unstressed (38):

s(2) 5.26%

(34):

i(3), 8.82%

#a(2) 5.88%

Second Syllable Segment Stressed (56):

s(6), 10.71%

n(5) 8.92%

(28):

i(3) 10.71%

Second Syllable Segment Unstressed (113):

s(13), 11.50%

n(7), 6.19%

ʔn#(5), 4.42%

ʔn(4), s#(4), 3.53%

n#(3) 2.65%

(55):

i(9), 16.36%

a(5), 9.09%

a#(2) 3.63%

Third Syllable Segment Unstressed (66):
n(4), ɹŋ#(4), s(4), s#(4) 6.06%

(33):
ɪ(8) 24.24%

Fourth Syllable Segment Unstressed (16):
s#(3) 18.75%

Fifth Syllable Segment Unstressed (4):
ɹŋ#(2) 50.00%

Segment Total by Syllable

First Syllable Segment (131):
n(9), 6.87%
#s(4), s(4), 3.05%
#n(2) 1.52%

(97):
ɪ(17), 17.52%
a(11), 11.34%
#a(9) 9.27%

Second Syllable Segment (169):
s(19), 11.24%
n(12), 7.10%
n#(5), ɹŋ#(5), s#(5), 2.95%
ɹŋ(4) 2.36%

(83):
ɪ(12), 14.45%
a(5), 6.02%
a#(2) 2.40%

Third syllable Segment (75):
n(5), 6.66%
ɹŋ#(4), s(4), s#(4) 5.33%

(39):
ɪ(8), 20.51%
a(2) 5.12%

Fourth Syllable Segment (19):
s#(3), 15.78%
n(2) 10.52%

Fifth Syllable Segment (4):
ɹŋ#(2) 50.00%

Segment Stressed and Unstressed Total

Stressed Segment (158):
n(15), 9.49%
s(8), 5.06%
#s(3), 1.89%
#n(2), n#(2) 1.26%

(99):

ɪ(17), 17.17%

ɑ(11), 11.11%

#ɑ(7) 7.07%

Unstressed Segment (238):

s(19), 7.98%

n(13), 5.46%

ɹ̥n̥(12), 5.04%

s#(11), 4.62%

n#(5), ɹ̥n̥(5) 2.10%

(130):

ɪ(21), 16.15%

ɑ(7), 5.38%

ɑ#(4), 3.07%

#ɑ(2) 1.53%

Segment Total (absolute)

Narrow (439):

n(28), 6.37%

s(27), 6.15%

s#(14), 3.18%

ɹ̥n̥(12), 2.73%

n#(7), 1.59%

ɹ̥n̥(5), 1.13%

#s(4), .91%

#n(2) .45%

(246):

ɪ(40), 16.26%

ɑ(19), 7.72%

#ɑ(9), 3.65%

ɑ#(4) 1.62%

Broad (439):

n(54), 12.30%

s(45) 10.25%

(246):

ɪ(42), 17.07%

ɑ(34) 13.82%

685 total segments

Supra-Segments: Consonant Clusters

The most frequent consonant clusters were /st/, /gɹ/, and /fl/.

Consonant Cluster Total for Stressed and Unstressed Syllables and Monosyllables according to Syllable Configuration

Monosyllable Consonant Cluster Onset (all entries are word initial) (3):

#gɹ(3) 100%

First Syllable Consonant Cluster Stressed Onset (all entries are word initial) (13):

#gɹ(2) 15.38%

Second Syllable Consonant Cluster Stressed Onset (9):

st(2) 22.22%

Second Syllable Consonant Cluster Unstressed Onset (7):

st(2) 28.57%

Third Syllable Consonant Cluster Unstressed Onset (4):

st(3) 75.00%

Consonant Cluster Total for Stressed and Unstressed Onsets and Codas

Stressed Onset (24):

fl(2), st(2), #gɹ(2) 8.33%

Unstressed Onset (15):

st(5) 33.33%

Consonant Cluster Total for Onsets and Codas

Onset (42):

st(7), 16.66%

#gɹ(5), 11.90%

fl(3), 7.14%

#fl(2) 4.76%

Consonant Cluster Total for Stressed and Unstressed Syllables and Monosyllables

Monosyllable Consonant Cluster (12):

#gɹ(3) 25.00%

First Syllable Consonant Cluster Stressed (13):

#gɹ(2) 15.38%

Second Syllable Consonant Cluster Stressed (10):

st(2) 20.00%

Second Syllable Consonant Cluster Unstressed (10):

st(2) 20.00%

Third Syllable Consonant Cluster Unstressed (7):

st(3) 42.85%

Consonant Cluster Total per Syllable

First Syllable Consonant Cluster (18):

#fl(2), #gɹ(2) 11.11%

Second Syllable Consonant Cluster (20):

fl(2), st(2) 10.00%

Third Syllable Consonant Cluster (9):

st(3) 33.33%

Consonant Cluster Stressed and Unstressed Total

Consonant Cluster Stressed (25):

fl(2), st(2), #gɹ(2) 8.00%

Consonant Cluster Unstressed (23):

st(5) 21.73%

Consonant Cluster Total (absolute)

Narrow (60):
 st(7) 11.66%
 #gɹ(5), 8.33%
 fl(3), 5.00%
 #fl(2) 3.33%

Broad (60):
 st(7), 11.66%
 gɹ(6), 10.00%
 fl(5) 8.33%

60 total consonant clusters

Supra-Segments: Whole Syllables

The most frequent whole syllable was /ɹi/.

Whole Syllable Total for Stressed and Unstressed Syllables and Monosyllables

First Syllable Whole Syllable Unstressed (all entries are word initial) (36):
 #ɹi¹(2) 5.55%

Whole Syllable Total per Syllable

First Syllable Whole Syllable (all entries are word initial) (97):
 #ɹi¹(3) 3.09%

Whole Syllable Stressed and Unstressed Total

Whole Syllable Unstressed (157):
 #ɹi¹(2), ɹi¹#(2) 1.27%

Whole Syllable Total (absolute)

Narrow (270):
 #ɹi¹(3) 1.11%
 ɹi¹#(2) .74%

Broad (270):
 ɹi(5) 1.85%

270 total whole syllables

Supra-Segments: Whole Words

Table V.-A

	Syllable Receiving Stress					
	None	First	Second	Third	Fourth	Fifth
Word Length Total						
Monosyllabic: 17						
Bisyllabic: 52	0	42	10			
Trisyllabic: 33	0	18	13	2		
Tetrasyllabic: 10	0	1	5	4	0	
Pentasyllabic: 2	0	0	0	0	2	0
Total: 114	0	61	28	6	2	0

Table V.-B

	Syllable Receiving Stress					
	None	First	Second	Third	Fourth	Fifth
Word Length Total						
Monosyllabic: 14.91%						
Bisyllabic: 45.61%	0	80.76%/ 68.85%	19.23%/ 35.71%			
Trisyllabic: 28.94%	0	54.54%/ 29.50%	39.39%/ 46.42%	6.06%/ 33.33%		
Tetrasyllabic: 6.94%	0	10.00%/ 1.63%	50.00%/ 17.85%	40.00%/ 66.66%	0	
Pentasyllabic: 1.75%	0	0	0	0	100%/ 100%	0
Stressed Syllable Total:		62.88%	28.86%	6.18%	2.06%	0

Table Key: The “Word Length Total” column figure represents the percentage of words that is of that word length. For the cells inside the “Syllable Receiving Stress” columns, the amount on top indicates what percentage of a particular word length was stressed on that syllable. The number on the bottom indicates, for all the words that received stress on a particular syllable, what percentage of these words were of a particular word length. The “Stressed Syllable Total” row indicates what percentage of words was stressed on a particular syllable. Note that monosyllables were not analyzed as receiving stress and the “None” cell in the “Stressed Syllable Total” row is inapplicable.

Question discussion.

For Question V. the most frequent segments were consonants /n/ and /s/ and vowels /ɪ/ and /a/. /n/ is an alveolar nasal and /s/ is a voiceless, alveolar fricative. /ɪ/ is an unrounded, lax, high, front vowel and /a/ is an unrounded, lax, low, back vowel. The segments were predominant in the first stressed and second unstressed syllables. They were infrequent in monosyllables, first unstressed, second stressed, and third, fourth and fifth unstressed syllables. The segments favored unstressed environments over stressed environments. Both segments were evenly distributed between onsets and codas with /n/ appearing syllabically in second, third and fifth unstressed syllable nuclei. The monosyllables were lacking /n/ and /a/. Both consonants favored word-medial positions overall. /s/ had more word-initial examples than word-final examples and /n/ was the opposite. The vowels favored word-medial positions. The most frequent consonant clusters were /st/, /gɹ/, and /fl/. /t/ is a voiceless, alveolar plosive. /g/ is a

voiced, velar plosive. /ɹ/ is an alveolar approximant. /f/ is a voiceless, labiodental fricative. /l/ is an alveolar, lateral approximant. /gɹ/ occurs almost exclusively word initially, split evenly between monosyllables and first stressed syllables. /st/ occurs in second syllables stressed and unstressed and third syllables unstressed, word medial. /fl/ occurs in first and second stressed syllables, word-initial and word-medial. The most frequent whole syllable was /ɹi/. /i/ is an unrounded, tense, high, front vowel. /ɹi/ occurs exclusively in first unstressed syllables, both word-initial and word-final. For all 114 whole words there were no repeated words.

Results Data Sheet

Definitions Requiring Words

Question ID: W. a feeling of extreme disappointment

Below is a listing of the most frequent segments and supra-segments of this Question, the environments in which they appeared and the frequency with which they appeared in the indicated environments. In order to qualify for this data set, segments and supra-segments must have accounted for a minimum percentage of the broad total listed at the end of each section. The minimum values are as follows: consonants- >9%, vowels- >13%, consonant clusters- >8%, whole syllables- >1%. For a complete listing of the segments, supra-segments, environments and frequencies of this Question see the various Question W. data sheet sets in the appendix.

Segments

The most frequent consonants were /n/, /s/, /ɹ/, and /d/. The most frequent vowels were /a/ and /ɪ/.

Segment Total for Stressed and Unstressed Syllables and Monosyllables according to Syllable Configuration

Monosyllable Onset (29):

ɹ(4) 13.79%

Monosyllable Nucleus (20):

ɑ(3), 15.00%

#ɑ(2) 10.00%

Monosyllable Coda (31):

d#(4), 12.90%

ɹ(3), 9.67%

n(2) 6.45%

First Syllable Segment Stressed Onset (70):

#d(10), 14.28%

#s(9), 12.85%

ɹ(5), 7.14%

#ɹ(3) 4.28%

First Syllable Segment Stressed Nucleus (63):

ɑ(10), 15.87%

ɪ(7) 11.11%

First Syllable Segment Stressed Coda (26):

n(4), ɹ(4) 15.38%

First Syllable Segment Unstressed Onset (17):

#d(3), 17.64%

#s(2) 11.76%

First Syllable Segment Unstressed Nucleus (25):

#ɑ(3), 12.00%

ɪ(2) 8.00%

First Syllable Segment Unstressed Coda (3):

n(2) 66.66%

Second Syllable Segment Stressed Onset (22):

ɹ(5), 22.72%

d(2), s(2) 9.09%

Second Syllable Segment Stressed Nucleus (20):

ɑ(2) 10.00%

Second Syllable Segment Stressed Coda (12):

d#(3), 25.00%

n(2) 16.66%

Second Syllable Segment Unstressed Onset (72):

n(9), 12.50%

s(6), 8.33%

d(5), ɹ(5) 6.94%

Second Syllable Segment Unstressed Nucleus (68):

ɪ(13), 19.11%

ɑ(7), 10.29%

əŋ(3), 4.41%

əŋ#(2) 2.94%

Second Syllable Segment Unstressed Coda (34):

s#(7), 20.58%

n#(5), 14.70%

d#(2), s(2) 5.88%

Third Syllable Segment Unstressed Onset (28):

ɹ(4), 14.28%

n(3), s(3) 10.71%

Third Syllable Segment Unstressed Nucleus (25):

ɑ(4) 16.00%

Fourth Syllable Segment Unstressed Nucleus (10):

ɪ(3) 30.00%

Fourth Syllable Segment Unstressed Coda (3):

n#(2) 66.66%

Segment Total for Stressed and Unstressed Onsets and Codas**Stressed Onset (97):**

#d(10), ɹ(10), 10.30%

#s(9), 9.27%

s(3), #ɹ(3), 3.09%

d(2) 2.06%

Stressed Coda (38):

n(6), 15.78%

ɹ(4), 10.52%

d#(3), 7.89%

s(2) 5.26%

Unstressed Onset (128):

n(13), 10.15%

ɹ(10), 7.81%

s(9), 7.03%

#s(2) 1.56%

Unstressed Coda (46):
n#(10), 21.73%
s#(8), 17.39%
d#(3), n(3), s(3) 6.52%

Segment Total for Onsets and Codas

Onset (254):
ɹ(24), 9.44%
#d(14), 5.51%
n(13), 5.11%
#s(12), s(12), 4.72%
d(8), 3.14%
#ɹ(4), 1.57%
#n(2) .78%

Coda (115):
n#(12), 10.43%
n(11), 9.56%
d#(10), 8.69%
s#(9), 7.82%
ɹ(7), 6.085%
s(5), 4.34%
ɹ#(2) 1.73%

Segment Total for Stressed and Unstressed Syllables and Monosyllables

Monosyllable Segment (60):
ɹ(7), 11.66%
d#(4), 6.66%
n(2) 3.33%

(20):
a(3), 15.00%
#a(2) 10.00%

First Syllable Segment Stressed (96):

#d(10), 10.41%
#s(9), ɹ(9), 9.37%
n(4), 4.16%
#ɹ(3) 3.12%

(63):

a(10), 15.87%
ɹ(7) 11.11%

First Syllable Segment Unstressed (20):

#d(3), 15.00%
n(2), #s(2) 10.00%

(25):
#a(3), 12.00%
ɹ(2) 8.00%

Second Syllable Segment Stressed (34):

ɹ(5), 14.70%
d#(3), s(3), 8.82%
d(2), n(2) 5.88%

(20):

a(2) 10.00%

Second Syllable Segment Unstressed (118):

n(10), 8.47%
s(8), 6.77%
s#(7), 5.93%
d(5), n#(5), ɹ(5), 4.23%
əŋ(3), 2.54%
d#(2), əŋ#(2) 1.69%

(56):

ɪ(13), 23.21%
a(7) 12.50%

Third Syllable Segment Unstressed (34):

#ɹ(4), 11.76%
n(3), s(3) 8.82%

(23):

a(4) 17.39%

Fourth Syllable Segment Unstressed (13):

n#(2) 15.38%

(9):

ɪ(3) 33.33%

Segment Total by Syllable

First Syllable Segment (116):

#d(13), 11.20%
#s(11), 9.48%
ɹ(9), 7.75%
n(6), 5.17%
#ɹ(3), 2.58%
s(2) 1.72%

(88):

a(10), 11.36%
ɪ(9), 10.22%
#a(3) 3.40%

Second Syllable Segment (152):

n(12), 7.89%
s(11), 7.23%
ɹ(10), 6.57%
s#(7), 4.60%
n#(6), 3.94%
d#(5), 3.28%
əŋ(3), 1.97%
əŋ#(2), ɹ#(2) 1.31%

(76):
ɪ(14), 18.42%
ɑ(9) 11.84%

Third syllable Segment (38):
s(4), #ɪ(4), 10.52%
n(3) 7.89%

(26):
ɑ(4) 15.38%

Fourth Syllable Segment (13):
n#(2) 15.38%

(9):
ɪ(3) 33.33%

Segment Stressed and Unstressed Total

Stressed Segment (135):

ɪ(14), 10.37%
#d(10), 7.40%
#s(9), 6.66%
n(6), 4.44%
s(5), 3.70%
d#(3), d(3), #ɪ(3) 2.22%

(87):

ɑ(12), 13.79%
ɪ(8) 9.19%

Unstressed Segment (189):

n(16), 8.46%
s(12), 6.34%
n#(10), 5.29%
s#(8), 4.23%
d(6), ɪ(6), 3.17%
#ɪ(4), 2.11%
#d(3), d#(3), ʔn(3), ʔn#(3), 1.58%
#s(2) 1.05%

(115):
ɪ(20), 17.39%
ɑ(11), 9.56%
#ɑ(3) 2.60%

Segment Total (absolute)

Narrow (384):
ɹ(27), 7.03%
n(24), 6.25%
s(17), 4.42%
#d(14), 3.64%
n#(12), #s(12), 3.12%
t(10), d#(10), 2.60%
d(9), s#(9), 2.34%
#ɹ(8), 2.08%
ʔn(3), ʔn#(3), .78%
#n(2), ɹ#(2) .52%

(222):
ɪ(29), 13.06%
a(26), 11.71%
#a(5) 2.25%

Broad (384):
n(44), 11.45%
s(38), 9.89%
ɹ(37), 9.63%
d(35) 9.11%

(222):
a(32), 14.41%
ɪ(29) 13.06%

606 total segments

Supra-Segments: Consonant Clusters

The most frequent consonant clusters were /st/, /gɹ/, and /kɹ/.

Consonant Cluster Total for Stressed and Unstressed Syllables and Monosyllables according to Syllable Configuration

Monosyllable Consonant Cluster Onset (all entries are word initial) (8):
#gɹ(2) 25.00%

Second Syllable Consonant Cluster Unstressed Coda (8):
st#(2) 25.00%

Third Syllable Consonant Cluster Unstressed Onset (4):
st(2) 50.00%

Consonant Cluster Total for Stressed and Unstressed Onsets and Codas

Unstressed Onset (11):
st(3) 27.27%

Unstressed Coda (8):
st#(2) 25.00%

Consonant Cluster Total for Onsets and Codas

Onset (29):
st(4), #gɹ(4), 13.79%
#k^hɹ(2) 6.89%

Coda (17):
st#(2) 11.76%

Consonant Cluster Total for Stressed and Unstressed Syllables and Monosyllables

Monosyllable Consonant Cluster (15):
#gɹ(2) 13.33%

Second Syllable Consonant Cluster Unstressed (13):
st#(2) 15.38%

Third Syllable Consonant Cluster Unstressed (4):
st(2) 50.00%

Consonant Cluster Total per Syllable

First Syllable Consonant Cluster (9):
#gɹ(2) 22.22%

Second Syllable Consonant Cluster (18):
st#(2), st(2) 11.11%

Third Syllable Consonant Cluster (4):
st(2) 50.00%

Consonant Cluster Stressed and Unstressed Total

Consonant Cluster Unstressed (19):
st(3), st#(2) 10.52%

Consonant Cluster Total (absolute)

Narrow (46):
st(4), #gɹ(4), 8.69%
st#(2), #k^hɹ(2) 4.34%

Broad (46):
st(6), 13.04%
gɹ(5), 10.86%
kɹ(4) 8.69%

46 total consonant clusters

Supra-Segments: Whole Syllables

The most frequent whole syllables were /di/, /ɹi/, /mɪn/, /no/, /so/, /ə/, /nə/, /sə/, /kə/, /kə/, and /ka/.

Whole Syllable Total for Stressed and Unstressed Syllables and Monosyllables

First Syllable Whole Syllable Stressed (all entries are word initial) (65):
#diⁱ(2), #k^ha(2) 3.07%

First Syllable Whole Syllable Unstressed (all entries are word initial) (23):
#ə(2), #sə(2) 8.69%

Second Syllable Whole Syllable Unstressed (68):
no^w#(2) 2.94%

Third Syllable Whole Syllable Unstressed (25):
ɹiⁱ#(2), nə(2) 8.00%

Whole Syllable Total per Syllable

First Syllable Whole Syllable (all entries are word initial) (88):

#diⁱ(2), #ə(2), #sə(2), #k^ha(2) 2.27%

Second Syllable Whole Syllable (88):

no^w#(2) 2.27%

Third Syllable Whole Syllable (28):

ɹiⁱ#(2), nə(2) 7.14%

Whole Syllable Stressed and Unstressed Total

Whole Syllable Stressed (89):

#diⁱ(2), #k^ha(2) 2.24%

Whole Syllable Unstressed (128):

mɪn#(3), no^w#(3), nə(3), 2.34%

ɹiⁱ#(2), #ə(2), #sə(2) 1.56%

Whole Syllable Total (absolute)

Narrow (242):

mɪn#(3), no^w#(3), 1.23%

#diⁱ(2), ɹiⁱ#(2), #ə(2), nə(3), #sə(2), #k^ha(2) .82%

Broad (242):

di(3), ɹi(3), mɪn(3), no(3), so(3), ə(3), nə(3), sə(3), kə(3), kə(3), ka(3) 1.23%

Whole syllables /so/, /kə/, and /kə/ were never repeated in the same environment which is why they were not recorded above until the final, broad count. To see them in all of their environments please see the Question W. "Segmental and Supra-Segmental Profile Data Sheet" in the appendix.

Supra-Segments: Whole Words

Table W.-A

	Syllable Receiving Stress						
	None	First	Second	Third	Fourth	Fifth	Sixth
Word Length Total							
Monosyllabic: 25							
Bisyllabic: 60	0	52	8				
Trisyllabic: 18	0	8	9	1			
Tetrasyllabic: 8	0	3	3	2	0		
Pentasyllabic: 1	0	1	0	0	0	0	
Hexasyllabic: 1	0	0	0	0	0	1	0
Total: 113	0	64	20	3	0	1	0

Table W.-B

	Syllable Receiving Stress						
	None	First	Second	Third	Fourth	Fifth	Sixth
Word Length Total							
Monosyllabic: 22.12%							
Bisyllabic: 53.09%	0	86.66%/81.25%	13.33%/40.00%				
Trisyllabic: 15.92%	0	44.44%/12.50%	50.00%/45.00%	5.55%/33.33%			
Tetrasyllabic: 7.07%	0	37.50%/4.68%	37.50%/15.00%	25.00%/66.66%	0		
Pentasyllabic: .88%	0	100%/1.56%	0	0	0	0	
Hexasyllabic: .88%	0	0	0	0	0	100%/100%	0

Table Key: The “Word Length Total” column figure represents the percentage of words that is of that word length. For the cells inside the “Syllable Receiving Stress” columns, the amount on top indicates what percentage of a particular word length was stressed on that syllable. The number on the bottom indicates, for all the words that received stress on a particular syllable, what percentage of these words were of a particular word length. The “Stressed Syllable Total” row indicates what percentage of words was stressed on a particular syllable. Note that monosyllables were not analyzed as receiving stress and the “None” cell in the “Stressed Syllable Total” row is inapplicable.

Question discussion.

For Question W. the most frequent segments were consonants /n/, /s/, /ɹ/, and /d/ and vowels /a/ and /ɪ/. /n/ is an alveolar nasal. /s/ is a voiceless, alveolar fricative. /ɹ/ is an alveolar approximant. /d/ is a voiced, alveolar plosive. /a/ is an unrounded, lax, low, back vowel. /ɪ/ is an unrounded, lax, high, front vowel. The segments were most common in first stressed syllables and in second and third unstressed syllables. They were also prevalent in monosyllables except for /s/. They were infrequent in first unstressed, second stressed and fourth unstressed syllables. The segments favored unstressed environments over stressed environments. Consonants favored onsets except for second unstressed syllables where the coda was favored. Syllabic /n/ occurred in the second unstressed syllable nucleus. Monosyllables were lacking /s/ and /ɪ/. Consonants were evenly distributed between word-initial and word-final positions. The vowels preferred word-medial positions with /a/ appearing infrequently as word-initial. The most frequent

consonant clusters were /st/, /gɹ/ and /kɹ/. /t/ is a voiceless, alveolar plosive. /g/ is a voiced, velar plosive. /k/ is a voiceless, velar plosive. /st/ occurred in second and third unstressed syllables, frequently in the coda. /gɹ/ occurred almost exclusively word-initially, in monosyllables and first syllables. /kɹ/ frequently occurred word initially. The most frequent whole syllables were /di/, /ɹi/, /mɪn/, /no/, /so/, /ə/, /nə/, /sə/, /kə/, /kəʔ/, and /ka/. /i/ is an unrounded, tense, high, front vowel. /m/ is a bilabial nasal. /o/ is a round, tense, mid, back vowel. /ə/ is an unrounded, intermediate, mid, central vowel. /k/ is a voiceless, velar plosive. /əʔ/ is a rhoticized, unrounded, intermediate, mid, central vowel. /di/ and /ka/ were the only whole syllables to occur in a stressed position. This was word-initial in the first syllable. /ə/ and /sə/ occurred in first unstressed syllables, word-initial. /no/ occurred in second syllables, word-final. /ɹi/ and /nə/ occurred in third syllables. /ɹi/ was word-final in this position. /mɪn/ occurred only word-finally. For all 113 whole words there were no repeated words.

Results Data Sheet

Definitions Requiring Words

Question ID: X. the feeling of being woken in the middle of the night by a strange noise

Below is a listing of the most frequent segments and supra-segments of this Question, the environments in which they appeared and the frequency with which they appeared in the indicated environments. In order to qualify for this data set, segments and supra-segments must have accounted for a minimum percentage of the broad total listed at the end of each section. The minimum values are as follows: consonants- >9%, vowels- >13%, consonant clusters- >8%, whole syllables- >1%. For a complete listing of the segments, supra-segments, environments and frequencies of this Question see the various Question X. data sheet sets in the appendix.

Segments

The most frequent consonants were /ɹ/, /k/, and /n/. The most frequent vowels were /ɪ/, /a/, and /ə/.

Segment Total for Stressed and Unstressed Syllables and Monosyllables according to Syllable Configuration

Monosyllable Onset (30):

ɹ(5), 16.66%

#ɹ(3), 10.00%

#k^h(2) 6.66%

Monosyllable Nucleus (24):

ɪ(4), 16.66%

#a(2) 8.33%

Monosyllable Coda (31):

k(4), k#(4) 12.90%

First Syllable Segment Stressed Onset (47):

ɹ(9), 19.14%

k(4), #k^h(4), 8.51%

#ɹ(2) 4.25%

First Syllable Segment Stressed Nucleus (61):

a(11), 18.03%

ɪ(6), 9.83%

#a(3) 4.91%

First Syllable Segment Stressed Coda (32):

ɹ(9), 28.12%

k(7), 21.87%

n(5) 15.62%

First Syllable Segment Unstressed Onset (23):

#k(2) 8.69%

First Syllable Segment Unstressed Nucleus (29):

ɪ(7), 24.13%

ə(6), 20.68%

#ə(3), 10.34%

a(2) 6.89%

First Syllable Segment Unstressed Coda (11):

k(4), 36.36%

ɹ(2) 18.18%

Second Syllable Segment Stressed Onset (35):

ɹ(9), 25.71%

k(2), k^h(2) 5.71%**Second Syllable Segment Stressed Nucleus (27):**

ɪ(4), 14.81%

a(3) 11.11%

Second Syllable Segment Stressed Coda (20):

n(5), 25.00%

ɹ(2) 10.00%

Second Syllable Segment Unstressed Onset (67):

ɹ(8), 11.94%

n(3), k(3) 4.47%

Second Syllable Segment Unstressed Nucleus (63):

ɪ(9), ə(9), 14.28%

a(4) 6.34%

ʔɹ#(2) 3.17%

Second Syllable Segment Unstressed Coda (32):

n#(6), 18.75%

k#(4), 12.50%

ɹ#(3) 9.37%

Third Syllable Segment Unstressed Onset (26):

n(4), ɹ(4) 15.38%

Third Syllable Segment Unstressed Nucleus (25):

ə(4), 16.00%

ɪ(3), ʔɹ#(3) 12.00%

Third Syllable Segment Unstressed Coda (7):

n#(2) 28.57%

Fourth Syllable Segment Unstressed Onset (7):

n(2) 28.57%

Fourth Syllable Segment Unstressed Nucleus (9):

ə#(4) 44.44%

Segment Total for Stressed and Unstressed Onsets and Codas**Stressed Onset (100):**

ɹ(18), 18.00%

k(6), 6.00%

#k^h(4), 4.00%#ɹ(2), k^h(2) 2.00%**Stressed Coda (52):**

ɹ(11), 21.15%

n(10), 19.23%

k(8) 15.38%

Unstressed Onset (116):

ɹ(12), 10.34%

n(9), 7.75%

k(3), 2.58%

#k(2) 1.72%

Unstressed Coda (56):

n#(8), 14.28%

k#(5), 8.92%

k(4), 7.14%

ɹ#(3), 5.35%

ɹ(2) 3.57%

Segment Total for Onsets and Codas

Onset (246):

ɹ(35), 14.22%

n(9), k(9), 3.65%

#ɹ(6), #k^h(6), 2.43%

#n(2), #k(2), k^h(2) .81%

Coda (139):

k(16), 11.51%

ɹ(14), 10.07%

n(12), 8.63%

k#(9), 6.47%

n#(8), 5.75%

ɹ#(4) 2.87%

Segment Total for Stressed and Unstressed Syllables and Monosyllables

Monosyllable Segment (61):

ɹ(6), 9.83%

k(4), k#(4), 6.55%

#ɹ(3), 4.91%

#k^h(2) 3.27%

(24):

ɪ(4), 16.66%

#a(2) 8.33%

First Syllable Segment Stressed (96):

ɹ(18), 18.75%

k(11), 11.45%

n(5), 5.20%

#k^h(4), 4.16%

#ɹ(2) 2.08%

(61):

a(11), 18.03%

ɪ(6), 9.83%

#a(3) 4.91%

First Syllable Segment Unstressed (34):

k(4), 11.76%

ɹ(2), #k(2) 5.88%

(29):

ɪ(7), 24.13%

ə(6), 20.68%

#ə(3), 10.34%

a(2) 6.89%

Second Syllable Segment Stressed (55):

ɹ(11), 20.00%

n(5), 9.09%

k(3), 5.45%

k^h(2) 3.63%

(27):

ɪ(4), 14.81%

ɑ(3) 11.11%

Second Syllable Segment Unstressed (112):

ɹ(8), 7.14%

n#(6), 5.35%

k#(4), 3.57%

n(3), ɹ#(3), k(3), 2.67%

ɹ̥#(2) 1.78%

(50):

ɪ(9), ə(9), 18.00%

ɑ(4) 8.00%

Third Syllable Segment Unstressed (38):

n(4), ɹ(4), 10.52%

ɹ̥#(3), 7.89%

n#(2) 5.26%

(20):

ə(4), 20.00%

ɪ(3) 15.00%

Fourth Syllable Segment Unstressed (13):

n(2) 15.38%

(9):

ə#(4) 44.44%

Segment Total by Syllable

First Syllable Segment (130):

ɹ(20), 15.38%

k(15), 11.53%

n(6), 4.61%

#k^h(4), 3.07%

#ɹ(3), 2.30%

#n(2), #k(2) 1.53%

(90):

ɪ(13), ɑ(13), 14.44%

ə(6), 6.66%

#ɑ(4), 4.44%

#ə(3) 3.33%

Second Syllable Segment (167):

ɹ(19), 11.37%
n(8), 4.79%
n#(6), k(6), 3.59%
k#(4), 2.39%
ɹ#(3), 1.79%
ʔn#(2), k^h(2) 1.19%

(77):

ɪ(13), 16.88%
ə(9), 11.68%
a(7) 9.09%

Third Syllable Segment (39):

n(4), ɹ(4), 10.25%
ʔn#(3), 7.69%
n#(2) 5.12%

(21):

ə(4), 19.04%
ɪ(3) 14.28%

Fourth Syllable Segment (13):

n(2) 15.38%

(9):

ə#(4) 44.44%

Segment Stressed and Unstressed Total

Stressed Segment (152):

ɹ(29), 19.07%
k(14), 9.21%
n(10), 6.57%
#k^h(4), 2.63%
#ɹ(2), k^h(2) 1.31%

(89):

a(14), 15.73%
ɪ(10), 11.23%
#a(3) 3.37%

Unstressed Segment (197):

ɹ(14), 7.10%
n(10), 5.07%
n#(8), 4.06%
k(7), 3.55%
ʔn#(5), k#(5), 2.53%
ɹ#(3), 1.52%
#k(2) 1.01%

(108):

ɪ(20), ə(20), 18.51%
a(7), 6.48%
ə#(6), 5.55%
#ə(3) 2.77%

Segment Total (absolute)

Narrow (410):

ɹ(49), 11.95%
k(25), 6.09%
n(21), 5.12%
nʃ(8), 1.95%
#ɹ(6), #k^h(6), 1.46%
ɹnʃ(5), 1.21%
ɹʃ(4), .97%
#n(2), #k(2), k^h(2) .48%

(221):

ɹ(34), 15.38%
a(22), 9.95%
ə(20), 9.04%
əʃ(6), #a(6), 2.71%
#ə(3), 1.35%
aʃ(2) .90%

Broad (410):

ɹ(60), 14.63%
k(45), 10.97%
n(37) 9.02%

(221):

ɹ(35), 15.83%
a(30), 13.57%
ə(29) 13.12%

631 total segments

Supra-Segments: Consonant Clusters

The most frequent consonant clusters were /st/ and /kɹ/.

Consonant Cluster Total for Stressed and Unstressed Syllables and Monosyllables according to Syllable Configuration

First Syllable Consonant Cluster Stressed Onset (all entries are word initial) (13):

#k^hɹ(3) 23.07%

Second Syllable Consonant Cluster Stressed Onset (7):

st(2) 28.57%

Consonant Cluster Total for Stressed and Unstressed Onsets and Codas

Stressed Onset (20):

#k^hɹ(3), 15.00%
st(2) 10.00%

Consonant Cluster Total for Onsets and Codas

Onset (36):

#k^hɹ(3), 8.33%
st(2) 5.55%

Consonant Cluster Total for Stressed and Unstressed Syllables and Monosyllables

First Syllable Consonant Cluster Stressed (15):

#k^hɹ(3) 20.00%

Second Syllable Consonant Cluster Stressed (12):
st(2) 16.66%

Consonant Cluster Total per Syllable

First Syllable Consonant Cluster (20):
#k^hɹ(3) 15.00%

Second Syllable Consonant Cluster (16):
st(2) 12.50%

Consonant Cluster Stressed and Unstressed Total

Consonant Cluster Stressed (27):
#k^hɹ(3), 11.11%
st(2) 7.40%

Consonant Cluster Total (absolute)

Narrow (55):
st(3), #k^hɹ(3) 5.45%

Broad (55):
st(5), kɹ(5) 9.09%

55 total consonant clusters

Supra-Segments: Whole Syllables

The most frequent whole syllable was /ə/.

Whole Syllable Total for Stressed and Unstressed Syllables and Monosyllables

First Syllable Whole Syllable Unstressed (all entries are word initial) (29):
#ə(3) 10.34%

Fourth Syllable Whole Syllable Unstressed (9):
ə#(2) 22.22%

Whole Syllable Total per Syllable

First Syllable Whole Syllable (all entries are word initial) (90):
#ə(3) 3.33%

Fourth Syllable Whole Syllable (9):
ə#(2) 22.22%

Whole Syllable Stressed and Unstressed Total

Whole Syllable Unstressed (123):
#ə(5) 4.06%

Whole Syllable Total (absolute)

Narrow (239):
#ə(5) 2.09%

Broad (239):
ə(5) 2.09%

239 total whole syllables

Supra-Segments: Whole Words

Table X.-A

	Syllable Receiving Stress					
	None	First	Second	Third	Fourth	Fifth
Word Length Total						
Monosyllabic: 24						
Bisyllabic: 64	0	52	12			
Trisyllabic: 17	0	6	11	0		
Tetrasyllabic: 9	0	3	5	1	0	
Pentasyllabic: 0	0	0	0	0	0	0
Total: 114	0	61	28	1	0	0

Table X.-B

	Syllable Receiving Stress					
	None	First	Second	Third	Fourth	Fifth
Word Length Total						
Monosyllabic: 21.05%						
Bisyllabic: 56.14%	0	81.25%/ 85.24%	18.75%/ 42.85%			
Trisyllabic: 14.91%	0	35.29%/ 9.83%	64.70%/ 39.28%	0		
Tetrasyllabic: 7.89%	0	33.33%/ 4.91%	55.55%/ 17.85%	11.11%/ 100%	0	
Pentasyllabic: 0	0	0	0	0	0	0
Stressed Syllable Total:		67.77%	31.11%	1.11%	0	0

Table Key: The “Word Length Total” column figure represents the percentage of words that is of that word length. For the cells inside the “Syllable Receiving Stress” columns, the amount on top indicates what percentage of a particular word length was stressed on that syllable. The number on the bottom indicates, for all the words that received stress on a particular syllable, what percentage of these words were of a particular word length. The “Stressed Syllable Total” row indicates what percentage of words was stressed on a particular syllable. Note that monosyllables were not analyzed as receiving stress and the “None” cell in the “Stressed Syllable Total” row is inapplicable.

Question discussion.

For Question X. the most frequent segments were consonants /ɹ/, /k/, and /n/ and vowels /ɪ/, /a/, and /ə/. /ɹ/ is an alveolar approximant. /k/ is a voiceless, velar plosive. /n/ is an alveolar nasal. /ɪ/ is an unrounded, lax, high, front vowel. /a/ is an unrounded, lax, low, back vowel. /ə/ is an unrounded, intermediate, mid, central vowel. The segments were most frequent in first stressed and second unstressed syllables. They were less frequent, though not rare, in first

unstressed and second stressed and third unstressed syllables. All segments but /n/ were present in monosyllables. The first unstressed syllable nucleus frequently housed these vowels. The segments were rare in fourth unstressed syllables. They favored unstressed syllables over stressed syllables. Segments were evenly split between syllable onsets and codas. The second and third syllable unstressed nuclei contained syllabic /n/. The monosyllables showed every segment except for /n/. (/ə/ will never occur in monosyllables.) Segments preferred word-medial positions. There were examples of word-initial and word-final positions for all consonants. /ɪ/ only occurred word-medially while /ə/ was found in all three positions. The most frequent consonant clusters were /st/ and /kɹ/. /s/ is a voiceless, alveolar fricative. /t/ is a voiceless, alveolar plosive. /st/ frequently occurred in the second syllable stressed onset. /kɹ/ frequently occurred in the first syllable stressed onset. The most frequent whole syllable was /ə/. It occurred most frequently in the first syllable unstressed, word-initial and in the fourth syllable unstressed, word-final. For all 114 whole words there were no repeated words.

Results Data Sheet

Definitions Requiring Words

Question ID: Y. the name of the remotest island on earth

Below is a listing of the most frequent segments and supra-segments of this Question, the environments in which they appeared and the frequency with which they appeared in the indicated environments. In order to qualify for this data set, segments and supra-segments must have accounted for a minimum percentage of the broad total listed at the end of each section. The minimum values are as follows: consonants- >9%, vowels- >13%, consonant clusters- >8%, whole syllables- >1%. For a complete listing of the segments, supra-segments, environments and frequencies of this Question see the various Question Y. data sheet sets in the appendix.

Segments

The most frequent consonants were /n/, /s/, /ɹ/, and /l/. The most frequent vowels were /a/ and /ə/.

Segment Total for Stressed and Unstressed Syllables and Monosyllables according to Syllable Configuration

Monosyllable Onset (16):

#s(2), l(2) 12.50%

Monosyllable Nucleus (12):

a(3) 25.00%

Monosyllable Coda (16):

n(2) 12.50%

First Syllable Segment Stressed Onset (51):

#s(7), #l(7), 13.72%

l(3), 5.88%

#ɹ(2) 3.92%

First Syllable Segment Stressed Nucleus (56):

a(9), 16.07%

#a(3) 5.35%

First Syllable Segment Stressed Coda (26):

n(10), 38.46%

ɹ(4), 15.38%

s(2) 7.69%

First Syllable Segment Unstressed Onset (36):

#s(4), 11.11%

#ɹ(3) 8.33%

First Syllable Segment Unstressed Nucleus (46):

ə(11), 23.91%

a(4), #a(4), 8.69%

#ə(3) 6.52%

First Syllable Segment Unstressed Coda (11):

n(6), 54.54%

ɹ(2) 18.18%

Second Syllable Segment Stressed Onset (39):

l(7), 17.94%

ɹ(6), 15.38%

n(3), s(3) 7.69%

Second Syllable Segment Stressed Nucleus (36):

a(7) 19.44%

Second Syllable Segment Stressed Coda (15):

n(2), ɹ#(2) 13.33%

Second Syllable Segment Unstressed Onset (73):

s(7), 9.58%

l(6), 8.21%

ɹ(3), 4.10%

n(2) 2.73%

Second Syllable Segment Unstressed Nucleus (67):

ə(14), 20.89%

a(6), 8.95%

əŋ#(4), 5.97%

əŋ(2), ə#(2) 2.98%

Second Syllable Segment Unstressed Coda (22):

n#(5), 22.72%

n(4), 18.18%

s#(2) 9.09%

Third Syllable Segment Unstressed Onset (45):

l(6), 13.33%

ɹ(5), 11.11%

n(4), 8.88%

s(3) 6.66%

Third Syllable Segment Unstressed Nucleus (43):

ə(5), 11.62%

ə#(4), a(4), 9.30%

əŋ#(2), a#(2) 4.65%

Third Syllable Segment Unstressed Coda (10):

n#(2) 20.00%

Fourth Syllable Segment Unstressed Onset (11):

l(3), 27.27%

ɹ(2) 18.18%

Fourth Syllable Segment Unstressed Nucleus (15):

ə#(3), 20.00%

a(2), a#(2) 13.33%

Fourth Syllable Segment Unstressed Coda (4):

n#(2) 50.00%

Segment Total for Stressed and Unstressed Onsets and Codas

Stressed Onset (99):

l(11), 11.11%

#s(7), ɹ(7), #l(7), 7.07%

n(5), 5.05%

s(4), 4.04%

#ɹ(2) 2.02%

Stressed Coda (41):

n(12), 29.26%
 ɹ(5), 12.19%
 s(3), 7.31%
 ɹ#(2) 4.87%

Unstressed Onset (165):

l(15), 9.09%
 ɹ(12), 7.27%
 s(11), 6.66%
 n(6), 3.63%
 #s(4), 2.42%
 #ɹ(3) 1.81%

Unstressed Coda (50):

n(10), 20.00%
 n#(9), 18.00%
 ɹ(4), 8.00%
 s#(3) 6.00%

Segment Total for Onsets and Codas**Onset (280):**

l(28), 10.00%
 ɹ(20), 7.14%
 s(15), 5.35%
 #s(13), 4.64%
 n(11), 3.92%
 #l(8), 2.85%
 #ɹ(5) 1.78%

Coda (107):

n(24), 22.42%
 n#(10), ɹ(10), 9.34%
 ɹ#(7), 6.54%
 s#(5), 4.67%
 s(3) 2.80%

Segment Total for Stressed and Unstressed Syllables and Monosyllables**Monosyllable Segment (41):**

n(2), #s(2), ɹ(2), l(2) 4.87%

(12):

a(3) 25.00%

First Syllable Segment Stressed (77):

n(11), 14.28%
 #s(7), #l(7), 9.09%
 ɹ(4), 5.19%
 l(3), 3.89%
 #ɹ(2) 2.59%

(56):

a(9), 16.07%
 #a(3) 5.35%

First Syllable Segment Unstressed (47):

n(6), 12.76%

#s(4), 8.51%

#l(3), l(3) 6.38%

(46):

ə(11), 23.91%

a(4), #a(4), 8.69%

#ə(3) 6.52%

Second Syllable Segment Stressed (54):

l(7), l(7), 12.96%

n(5), s(4), 9.25%

l#(2) 3.70%

(36):

a(7) 19.44%

Second Syllable Segment Unstressed (106):

s(7), 6.60%

n(6), l(6), 5.66%

n#(5), 4.71%

ɹn#(4), 3.77%

l(3), 2.83%

ɹn(2), s#(2) 1.88%

(56):

ə(14), 25.00%

a(6), 10.71%

ə#(2) 3.57%

Third Syllable Segment Unstressed (61):

l(6), 9.83%

l(5), 8.19%

n(4), 6.55%

s(3), 4.91%

n#(2), ɹn#(2) 3.27%

(37):

ə(5), 13.51%

ə#(4), a(4), 10.81%

a#(2) 5.40%

Fourth Syllable Segment Unstressed (15):

l(3), 20.00%

n#(2), l(2) 13.33%

(15):

ə#(3), 20.00%

a(2), a#(2) 13.33%

Segment Total by Syllable

First Syllable Segment (124):

n(17), 13.70%
 #s(11), 8.87%
 #l(8), 6.45%
 ɹ(7), 5.64%
 #ɹ(5), 4.03%
 l(3), 2.41%
 s(2) 1.61%

(102):

a(13), 12.74%
 ə(11), 10.78%
 #a(7), 6.86%
 #ə(3) 2.94%

Second Syllable Segment (160):

l(13), 8.12%
 n(11), s(11), 6.87%
 ɹ(10), 6.25%
 n#(6), 3.75%
 ɹn#(4), 2.50%
 s#(3), ɹ#(3), 1.87%
 ɹn(2) 1.25%

(92):

ə(14), 15.21%
 a(13), 14.13%
 ə#(2), a#(2) 2.17%

Third syllable Segment (69):

l(7), 10.14%
 ɹ(6), 8.69%
 n(5), 7.24%
 s(4), 5.79%
 n#(2), ɹn#(2) 2.89%

(45):

ə(5), 11.11%
 ə#(4), a(4), 8.88%
 a#(2) 4.44%

Fourth Syllable Segment (16):

n#(2), ɹ(2) 12.50%

(16):

ə#(3), a(3), 18.75%
 a#(2) 12.50%

Segment Stressed and Unstressed Total

Stressed Segment (140):

n(17), 12.14%
 ɹ(12), 8.57%
 l(11), 7.85%
 #s(7), s(7), #l(7), 5.00%
 #ɹ(2), ɹ#(2) 1.42%

(101):

a(17), 16.83%
 #a(3) 2.97%

Unstressed Segment (230):

n(16), 6.95%
 l(15), 6.52%
 ɹ(14), 6.08%
 s(11), 4.78%
 n#(9), 3.91%
 ɹn#(6), 2.60%
 #s(4), 1.73%
 s#(3), #ɹ(3), 1.30%
 ɹn(2) .86%

(156):

ə(30), 19.23%
 a(16), 10.25%
 ə#(10), 6.41%
 a#(5), 3.20%
 #a(4), 2.56%
 #ə(3) 1.92%

Segment Total (absolute)

Narrow (411):

n(35), 8.51%
 ɹ(28), l(28), 6.81%
 s(18), 4.37%
 #s(13), 3.16%
 n#(10), 2.43%
 ɹn#(6), 1.45%
 s#(5), #ɹ(5), 1.21%
 ɹ#(4), .97%
 ɹn(2) .48%

(269):

a(36), 13.38%
 ə(30), 11.15%
 ə#(10), 3.71%
 #a(7), 2.60%
 a#(6), 2.23%
 #ə(3) 1.11%

Broad (411):

n(54), 13.13%
 s(37), ɹ(37), l(37) 9.00%

(269):

ɑ(49), 18.21%

ə(43) 15.98%

680 total segments

Supra-Segments: Consonant Clusters

The most frequent consonant cluster was /kl/.

Consonant Cluster Total for Stressed and Unstressed Syllables and Monosyllables according to Syllable Configuration

Consonant Cluster Total for Onsets and Codas

Onset (20):

#k^hl(2) 10.00%

Consonant Cluster Total (absolute)

Narrow (32):

#k^hl(2) 6.25%

Broad (32):

kl(3) 9.37%

32 total consonant clusters

Supra-Segments: Whole Syllables

The most frequent consonant clusters were /lo/ and /ə/.

Whole Syllable Total for Stressed and Unstressed Syllables and Monosyllables

First Syllable Whole Syllable Unstressed (all entries are word initial) (45):

#ə(3) 6.66%

Third Syllable Whole Syllable Unstressed (44):

lo^w#(2) 4.54%

Whole Syllable Total per Syllable

First Syllable Whole Syllable (all entries are word initial) (102):

#ə(3) 2.94%

Third Syllable Whole Syllable (52):

lo^w#(2) 3.84%

Whole Syllable Stressed and Unstressed Total

Whole Syllable Unstressed (172):

lo^w#(3), #ə(3) 1.74%

Whole Syllable Total (absolute)

Narrow (285):

lo^w#(3), #ə(3) 1.05%

Broad (285):

lo(5), ə(5) 1.75%

285 total whole syllables

Supra-Segments: Whole Words

Table Y.-A

	Syllable Receiving Stress					
	None	First	Second	Third	Fourth	Fifth
Word Length Total						
Monosyllabic: 12						
Bisyllabic: 50	0	40	10			
Trisyllabic: 37	2	14	20	1		
Tetrasyllabic: 13	0	2	6	5	0	
Pentasyllabic: 2	0	0	0	1	1	0
Total: 114	2	56	36	6	1	0

Table Y.-B

	Syllable			Receiving	Stress	
	None	First	Second	Third	Fourth	Fifth
Word Length Total						
Monosyllabic: 10.52%						
Bisyllabic: 43.85%	0	80.00%/71.42%	20.00%/27.77%			
Trisyllabic: 32.45%	5.40%/100%	37.83%/25.00%	54.05%/55.55%			
Tetrasyllabic: 11.40%	0	15.38%/3.57%	46.15%/16.66%	38.46%/83.33%	0	
Pentasyllabic: 1.75%	0	0	0	50.00%/16.66%	50.00%/100%	
Stressed Syllable Total:		56.56%	36.36%	6.06%	1.01%	

Table Key: The “Word Length Total” column figure represents the percentage of words that is of that word length. For the cells inside the “Syllable Receiving Stress” columns, the amount on top indicates what percentage of a particular word length was stressed on that syllable. The number on the bottom indicates, for all the words that received stress on a particular syllable, what percentage of these words were of a particular word length. The “Stressed Syllable Total” row indicates what percentage of words was stressed on a particular syllable. Note that monosyllables were not analyzed as receiving stress and the “None” cell in the “Stressed Syllable Total” row is inapplicable.

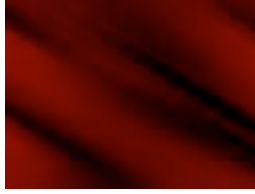
Question discussion.

For Question Y. the most frequent segments were consonants /n/, /s/, /ɹ/, and /l/ and vowels /a/ and /ə/. /n/ is an alveolar nasal. /s/ is a voiceless, alveolar fricative. /ɹ/ is an alveolar approximant. /l/ is an alveolar, lateral approximant. /a/ is an unrounded, lax, low, back vowel. /ə/ is an unrounded, intermediate, mid, central vowel. These segments were most frequent in the first syllable, stressed and unstressed, and second and third unstressed syllables. They were less

frequent in second stressed syllables, fourth unstressed syllables and monosyllables. Unstressed segments far exceeded the number of stressed segments. The onset was equal to or favored over the coda by all consonants. /n/ occurred syllabically in second and third unstressed nuclei. The monosyllables contained every segment except for /ɹ/. (/ə/ can never occur in a monosyllable.) Though the segments favored word-medial positions, the consonants except for /l/ (word-initial and -medial only) could be found in all three positions as could the vowels. The most frequent consonant cluster was /kl/. /k/ is a voiceless, velar plosive. /kl/ was frequently found as a word-initial onset. The most frequent whole syllables were /lo/ and /ə/. /o/ is a round, tense, mid, back vowel. /lo/ was frequently word-final in third unstressed syllables. /ə/ was frequently found word-initially in the first unstressed syllable. For all 114 whole words there were no repeated words.

Results Data Sheet

Images Requiring Words



Question ID: Z.

Below is a listing of the most frequent segments and supra-segments of this Question, the environments in which they appeared and the frequency with which they appeared in the indicated environments. In order to qualify for this data set, segments and supra-segments must have accounted for a minimum percentage of the broad total listed at the end of each section. The minimum values are as follows: consonants- >9%, vowels- >13%, consonant clusters- >8%, whole syllables- >1%. For a complete listing of the segments, supra-segments, environments and frequencies of this Question see the various Question Z. data sheet sets in the appendix.

Segments

The most frequent consonants were /n/, /ɹ/, and /s/. The most frequent vowels were /ə/ and /ɑ/.

Segment Total for Stressed and Unstressed Syllables and Monosyllables according to Syllable Configuration

Monosyllable Onset (41):

#s(4), ɹ(4), 9.75%

#ɹ(3) 7.31%

Monosyllable Nucleus (28):

ɑ(7) 25.00%

Monosyllable Coda (36):

n(2) 5.55%

First Syllable Segment Stressed Onset (70):

#s(11), #ɹ(11), 15.71%

ɹ(5), 7.14%

n(2) 2.85%

First Syllable Segment Stressed Nucleus (57):

ɑ(11) 19.29%

First Syllable Segment Stressed Coda (27):

n(7), ɹ(7) 25.92%

First Syllable Segment Unstressed Onset (26):

#s(4), #ɹ(4) 15.38%

First Syllable Segment Unstressed Nucleus (28):

ə(12), 42.85%

#ə(3) 10.71%

First Syllable Segment Unstressed Coda (4):

n(3) 75.00%

Second Syllable Segment Stressed Onset (32):

ɹ(5), 15.62%

n(2), s(2) 6.25%

Second Syllable Segment Stressed Nucleus (27):

ɑ(3) 11.11%

Second Syllable Segment Stressed Coda (18):

n(4), 22.22%

n#(2) 11.11%

Second Syllable Segment Unstressed Onset (59):

n(6), 10.16%

s(5), 8.47%

ɹ(4) 6.77%

Second Syllable Segment Unstressed Nucleus (58):

ə(8), 13.79%

a(6) 10.34%

əŋ#(5), 8.62%

əŋ(3) 5.17%

Second Syllable Segment Unstressed Coda (24):

n#(7) 29.16%

Third Syllable Segment Unstressed Onset (25):

n(5), ɹ(5), 20.00%

s(3) 12.00%

Third Syllable Segment Unstressed Nucleus (23):

ə(6), 26.08%

ə#(3), əŋ#(3) 13.04%

Third Syllable Segment Unstressed Coda (8):

s#(2) 25.00%

Fourth Syllable Segment Unstressed Nucleus (6):

ə(2) 33.33%

Segment Total for Stressed and Unstressed Onsets and Codas**Stressed Onset (103):**

#s(11), #ɹ(11), 10.67%

ɹ(10), 9.70%

n(4), 3.88%

s(2) 1.94%

Stressed Coda (45):

n(11), 24.44%

ɹ(7), 15.55%

n#(2), s(2) 4.44%

Unstressed Onset (115):

n(12), 10.43%

ɹ(10), 8.69%

s(8), 6.95%

#s(4), #ɹ(4) 3.47%

Unstressed Coda (39):

n#(8), 20.51%

s#(4), 10.25%

n(3), 7.69%

s(2) 5.12%

Segment Total for Onsets and Codas

Onset (259):

ɹ(24), 9.26%
#s(19), 7.33%
#ɹ(18), 6.94%
n(16), 6.17%
s(10) 3.86%

Coda (120):

n(16), 13.33%
n#(10), 8.33%
ɹ(8), 6.66%
s#(6), 5.00%
s(5), 4.16%
ɹ#(2) 1.66%

Segment Total for Stressed and Unstressed Syllables and Monosyllables

Monosyllable Segment (77):

ɹ(5), 6.49%
#s(4), 5.19%
#ɹ(3), 3.89%
n(2) 2.59%

(28):

ɑ(7) 25.00%

First Syllable Segment Stressed (97):

ɹ(12), 12.37%
#s(11), #ɹ(11), 11.34%
n(9) 9.27%

(57):

ɑ(11) 19.29%

First Syllable Segment Unstressed (30):

#s(4), #ɹ(4), 13.33%
n(3) 10.00%

(28):

ə(12), 42.85%
#ə(3) 10.71%

Second Syllable Segment Stressed (50):

n(6), 12.00%
ɹ(5), 10.00%
s(3), 6.00%
n#(2) 4.00%

(27):

ɑ(3) 11.11%

Second Syllable Segment Unstressed (97):

n#(7), 7.21%

n(6), 6.18%

ɹn#(5), s(5), 5.15%

ɹ(4), 4.12%

ɹn(3) 3.09%

(44):

ə(8), 18.18%

a(6) 13.63%

Third Syllable Segment Unstressed (36):

n(5), ɹ(5), 13.88%

s(4), 11.11%

ɹn#(3), 8.33%

s#(2) 5.55%

(20):

ə(6), 30.00%

ə#(3) 15.00%

Fourth Syllable Segment Unstressed:

(4):

ə(2) 50.00%

Segment Total by Syllable

First Syllable Segment (127):

#s(15), #ɹ(15), 11.81%

n(12), ɹ(12) 9.44%

(81):

ə(12), a(12), 14.81%

#ə(3) 3.70

Second Syllable Segment (147):

n(12), 8.16%

n#(9), ɹ(9), 6.12%

s(8), 5.44%

ɹn#(5), 3.40%

ɹn(3), 2.04%

s#(2) 1.36%

(71):

a(9), 12.67%

ə(8) 11.26%

Third syllable Segment (38):

n(5), ɹ(5), 13.15%

s(4), 10.52%

ɹn#(3), 7.89%

s#(2) 5.26%

(20):

ə(6), 30.00%

ə#(3) 15.00%

Fourth Syllable Segment:

(5):
ə(2) 40.00%

Segment Stressed and Unstressed Total

Stressed Segment (148):

ɹ(17), 11.48%
n(15), 10.13%
#s(11), #ɹ(11), 7.43%
s(4) 2.70%

(85):

ɑ(14) 16.47%

Unstressed Segment (174):

n(15), 8.62%
s(10), ɹ(10), 5.74%
əŋ#(9), 5.17%
n#(8), 4.59%
#s(4), s#(4), #ɹ(4), 2.29%
əŋ(3) 1.72%

(97):

ə(28), 28.86%
ɑ(8), 8.24%
#ə(3), ə#(3) 3.09%

Segment Total (absolute)

Narrow (399):

n(32), ɹ(32), 8.02%
#s(19), 4.76%
#ɹ(18), 4.51%
s(15), 3.75%
n#(10), 2.50%
əŋ#(9), 2.25%
s#(6), 1.50%
əŋ(3), .75%
ɹ#(2) .50%

(210):

ɑ(29), 13.80%
ə(28), 13.33%
#ə(3), ə#(3) 1.42%

Broad (399):

n(54), 13.53%
ɹ(52), 13.03%
s(40) 10.02%

(210):

ə(34), 16.19%
ɑ(33) 15.71%

609 total segments

Supra-Segments: Consonant Clusters

The most frequent consonant clusters were /bl/ and /st/.

Consonant Cluster Total for Stressed and Unstressed Syllables and Monosyllables according to Syllable Configuration

Monosyllable Consonant Cluster Onset (all entries are word initial) (13):

#bl(2) 15.38%

Second Syllable Consonant Cluster Unstressed Onset (3):

bl(2) 66.66%

Consonant Cluster Total for Stressed and Unstressed Onsets and Codas

Unstressed Onset (9):

bl(2) 22.22%

Unstressed Coda (5):

st#(2) 40.00%

Consonant Cluster Total for Onsets and Codas

Onset (42):

bl(3) 7.14%

Coda (19):

st#(3), 15.78%

Consonant Cluster Total for Stressed and Unstressed Syllables and Monosyllables

Monosyllable Consonant Cluster (23):

#bl(2) 8.69%

Second Syllable Consonant Cluster Unstressed (7):

bl(2) 28.57%

Consonant Cluster Total per Syllable

Second Syllable Consonant Cluster (13):

bl(3) 23.07%

Consonant Cluster Stressed and Unstressed Total

Consonant Cluster Unstressed (14):

bl(2), st#(2) 14.28%

Consonant Cluster Total (absolute)

Narrow (61):

bl(3), st#(3), 4.91%

#bl(2) 3.27%

Broad (61):

bl(5), st(5), 8.19%

61 total consonant clusters

Supra-Segments: Whole Syllables

The most frequent whole syllables were /ɪo/, /dæ/, and /sə/.

Whole Syllable Total for Stressed and Unstressed Syllables and Monosyllables

First Syllable Whole Syllable Unstressed (all entries are word initial) (28):

#də(2), #sə(2) 7.14%

Second Syllable Whole Syllable Unstressed (58):

sə(2) 3.44%

Whole Syllable Total per Syllable

First Syllable Whole Syllable (all entries are word initial) (85):

#də(2), #sə(2) 2.35%

Whole Syllable Stressed and Unstressed Total

Whole Syllable Unstressed (116):

sə(2), #sə(2) 1.72%

Whole Syllable Total (absolute)

Narrow (229):

#ɪo^w(2), də(2), #də(2), sə(2), #sə(2) .87%

Broad (229):

ɪo(4), də(4), sə(4) 1.74%

229 total whole syllables

Whole syllable /ɪo/ was never repeated in the same environment which is why it was not recorded above until the final, narrow count. To see it in all of its environments please see the Question Z. "Segmental and Supra-Segmental Profile Data Sheet" in the appendix.

Supra-Segments: Whole Words

Table Z.-A

	Syllable Receiving Stress					
	None	First	Second	Third	Fourth	Fifth
Word Length Total						
Monosyllabic: 28						
Bisyllabic: 62	0	50	12			
Trisyllabic: 16	0	7	9	0		
Tetrasyllabic: 6	0	0	6	0	0	
Pentasyllabic: 1	0	0	0	0	1	0
Total: 113	0	57	27	0	1	0

Table Z.-B

	Syllable			Receiving	Stress	
	None	First	Second	Third	Fourth	Fifth
Word Length Total						
Monosyllabic: 24.77%						
Bisyllabic: 54.86%	0	80.64%/87.71%	19.35%/44.44%			
Trisyllabic: 14.15%	0	43.75%/12.28%	56.25%/33.33%	0		
Tetrasyllabic: 5.30%	0	0	100%/22.22%	0	0	
Pentasyllabic: .88%	0	0	0	0	100%/100%	0
Stressed Syllable Total:		67.05%	31.76%	0	1.17%	0

Table Key: The “Word Length Total” column figure represents the percentage of words that is of that word length. For the cells inside the “Syllable Receiving Stress” columns, the amount on top indicates what percentage of a particular word length was stressed on that syllable. The number on the bottom indicates, for all the words that received stress on a particular syllable, what percentage of these words were of a particular word length. The “Stressed Syllable Total” row indicates what percentage of words was stressed on a particular syllable. Note that monosyllables were not analyzed as receiving stress and the “None” cell in the “Stressed Syllable Total” row is inapplicable.

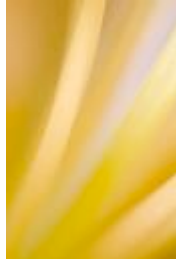
Question discussion.

For Question Z. the most frequent segments were consonants /n/, /ɹ/, and /s/ and vowels /ə/ and /a/. /n/ is an alveolar nasal. /ɹ/ is an alveolar approximant. /s/ is a voiceless, alveolar fricative. /ə/ is an unrounded, intermediate, mid, central vowel. /a/ is an unrounded, lax, low, back vowel. The segments were most prevalent in the first stressed syllable. The first unstressed, second stressed and unstressed and third unstressed syllables also frequently housed the segments. The fourth unstressed syllable had very few of these segments. The monosyllables housed all the segments except for /ə/. (/ə/ cannot appear in a monosyllable.) Unstressed segments outnumbered the stressed segments. Segments favored the syllable onsets over the codas. /n/ appeared syllabically in second and third unstressed syllable nuclei. /s/ was most frequently word-initial while the other two consonants were usually word-medial. /ə/ appeared in all three positions and /a/ appeared only word-medially. The most frequent

consonant clusters were /bl/ and /st/. /b/ is a voiced, bilabial plosive. /l/ is an alveolar, lateral approximant. /t/ is a voiceless, alveolar plosive. /bl/ occurred in monosyllables word-initially and in second unstressed syllable onsets, word-medial. /st/ occurred in word-final positions in unstressed syllables. The most frequent whole syllables were /ɪo/, /də/, and /sə/. /o/ is a rounded, tense, mid, back vowel. /d/ is a voiced, alveolar plosive. /ɪo/ frequently occurred word-initially. /də/ frequently occurred word-initially in the first unstressed syllable. /sə/ frequently occurred in the first unstressed syllable word-initially and the second unstressed syllable word-medially. For all 113 whole words there were no repeated words.

Results Data Sheet

Images Requiring Words



Question ID: a.

Below is a listing of the most frequent segments and supra-segments of this Question, the environments in which they appeared and the frequency with which they appeared in the indicated environments. In order to qualify for this data set, segments and supra-segments must have accounted for a minimum percentage of the broad total listed at the end of each section. The minimum values are as follows: consonants- >9%, vowels- >13%, consonant clusters- >8%, whole syllables- >1%. For a complete listing of the segments, supra-segments, environments and frequencies of this Question see the various Question a. data sheet sets in the appendix.

Segments

The most frequent consonants were /n/, /s/, and /l/. The most frequent vowels were /a/ and /ə/.

Segment Total for Stressed and Unstressed Syllables and Monosyllables according to Syllable Configuration

Monosyllable Onset (36):

#s(4), 11.11%

l(3), 8.33%

#l(2) 5.55%

Monosyllable Nucleus (25):

a(4) 16.00%

Monosyllable Coda (28):

n#(5) 17.85%

First Syllable Segment Stressed Onset (75):

#s(11), 14.66%

l(7), 9.33%

#l(5) 6.66%

First Syllable Segment Stressed Nucleus (57):

a(10) 17.54%

First Syllable Segment Stressed Coda (24):

n(8), 33.33%

s(4) 16.66%

First Syllable Segment Unstressed Onset (29):

#s(4), l(4) 13.79%

First Syllable Segment Unstressed Nucleus (30):

ə(6), a(6), 20.00%

#a(3), 10.00%

#ə(2) 6.66%

Second Syllable Segment Stressed Onset (28):

l(7), 25.00%

n(2), s(2) 7.14%

Second Syllable Segment Stressed Nucleus (28):

a(3) 10.71%

Second Syllable Segment Stressed Coda (11):

n#(3) 27.27%

Second Syllable Segment Unstressed Onset (61):

s(6), 9.83%

l(5), 8.19%

n(4) 6.55%

Second Syllable Segment Unstressed Nucleus (59):

ə(10), 16.94%

a(7), 11.86%

ʔn#(4), 6.77%

ə#(2) 3.38%

Second Syllable Segment Unstressed Coda (17):

n#(4), 23.52%

s#(2) 11.76%

Third Syllable Segment Unstressed Onset (31):

n(5), 16.12%

s(2) 6.45%

Third Syllable Segment Unstressed Nucleus (31):

a(6), 19.35%

ə#(5), 16.12%

ʔn#(2) 6.45%

Third Syllable Segment Unstressed Coda (14):

n#(2), s#(2) 14.28%

Fourth Syllable Segment Unstressed Nucleus (5):

ə(2) 40.00%

Fourth Syllable Segment Unstressed Coda (4):

s#(2) 50.00%

Segment Total for Stressed and Unstressed Onsets and Codas**Stressed Onset (105):**

l(15), 14.28%

#s(11), 10.47%

#l(5), 4.76%

n(3), 2.85%

s(2) 1.90%

Stressed Coda (35):

n(9), 25.71%

s(4), 11.42%

n#(3) 8.57%

Unstressed Onset (125):

l(10), 8.00%

n(9), 7.20%

s(8), ɹ(8), 6.40%

#s(4) 3.20%

Unstressed Coda (40):

n#(7), 17.50%

s#(6), 15.00%

n(2) 5.00%

Segment Total for Onsets and Codas

Onset (266):

l(28), 10.52%

#s(19), 7.14%

n(12), 4.51%

s(10), 3.75%

#l(7) 2.63%

Coda (103):

n#(15), 14.56%

n(11), 10.67%

s#(6), 5.82%

s(5), 4.85%

l#(2) 1.94%

Segment Total for Stressed and Unstressed Syllables and Monosyllables

Monosyllable Segment (63):

n#(5), 7.93%

#s(4), 6.34%

l(3), 4.76%

#l(2) 3.17%

(25):

a(4) 16.00%

First Syllable Segment Stressed (99):

#s(11), 11.11%

n(8), l(8), 8.08%

#l(5), 5.05%

s(4) 4.04%

(57):

a(10) 17.54%

First Syllable Segment Unstressed (34):

#s(4), l(4) 11.76%

(30):

ə(6), a(6), 20.00%

#a(3), 10.00%

#ə(2) 6.66%

Second Syllable Segment Stressed (39):

l(7), 17.94%

n#(3), n(3), 7.69%

s(2) 5.12%

(28):

a(3) 10.71%

Second Syllable Segment Unstressed (91):

l(5), 5.49%

n(4), n#(4), ʔn#(4), 4.39%

s#(2) 2.19%

(46):

ə(10), 21.73%

a(7), 15.21%

ə#(2) 4.34%

Third Syllable Segment Unstressed (50):

n(6), 12.00%

n#(2), ʔn#(2), s(2), s#(2) 4.00%

(26):

a(6), 23.07%

ə#(5) 19.23%

Fourth Syllable Segment Unstressed (8):

s#(2) 25.00%

(4):

ə(2) 50.00%

Segment Total by Syllable

First Syllable Segment (133):

#s(15), 11.11%

l(12), 8.88%

n(9), 6.66%

#l(5), 3.70%

s(4) 2.96%

(87):

a(13) 14.94%

Second Syllable Segment (130):

l(12), 9.23%

s(8), 6.15%

n(7), n#(7), 5.38%

ʔn#(4), 3.07%

s#(2) 1.53%

(74):

ə(11), 14.86%

a(10), 13.51%

ə#(2), a#(2) 2.70%

Third syllable Segment (51):

n(6), 11.76%

n#(2), ɹŋ#(2), s(2), s#(2), l(2) 3.92%

(27):

a(6), 22.22%

ə#(5) 18.51%

Fourth Syllable Segment (9):

s#(2) 22.22%

(5):

ə(2) 40.00%

Segment Stressed and Unstressed Total

Stressed Segment (140):

l(16), 11.42%

n(12), 8.57%

#s(11), 7.85%

s(6), 4.28%

#l(5), 3.57%

n#(3) 2.14%

(87):

a(14) 16.09%

Unstressed Segment (184):

n(11), 5.97%

l(10), 5.43%

s(8), 4.34%

n#(7), ɹŋ#(7), 3.80%

s#(6), 3.26%

#s(4), 2.17%

ɹŋ(2) 1.08%

(107):

ə(19), a(19), 17.75%

ə#(7), 6.54%

#a(3), 2.80%

#ə(2), a#(2) 1.86%

Segment Total (absolute)

Narrow (387):

l(29), 7.49%

n(23), 5.94%

#s(19), 4.90%

n#(15), s(15), 3.87%

ɹŋ#(7), #l(7), 1.80%

s#(6), 1.55%

ɹŋ(2), l#(2) .51%

(219):
 a(37), 16.89%
 ə(20), 9.13%
 ə#(7), 3.19%
 #a(3), a#(3), 1.36%
 #ə(2) .91%

Broad (387):
 n(47), 12.14%
 s(40), ɹ(40), 10.33%
 l(38) 9.81%

(219):
 a(45), 20.54%
 ə(29) 13.24%

606 total segments

Supra-Segments: Consonant Clusters

The most frequent consonant clusters were /bɹ/ and /fl/

Consonant Cluster Total for Stressed and Unstressed Syllables and Monosyllables according to Syllable Configuration

First Syllable Consonant Cluster Stressed Onset (all entries are word initial) (16):

#bɹ(3), 18.75%
 #fl(2) 12.50%

Consonant Cluster Total for Stressed and Unstressed Onsets and Codas

Stressed Onset (19):

#bɹ(3), 15.78%
 #fl(2) 10.52%

Consonant Cluster Total for Onsets and Codas

Onset (39):
 #bɹ(4), #fl(4) 10.25%

Consonant Cluster Total for Stressed and Unstressed Syllables and Monosyllables

First Syllable Consonant Cluster Stressed (16):

#bɹ(3), 18.75%
 #fl(2) 12.50%

Consonant Cluster Total per Syllable

First Syllable Consonant Cluster (19):
 #bɹ(3), 15.78%
 #fl(2) 10.52%

Consonant Cluster Stressed and Unstressed Total

Consonant Cluster Stressed (20):

#bɹ(3), 15.00%
 #fl(2) 10.00%

Consonant Cluster Total (absolute)

Narrow (47):
 #bɹ(4), #fl(4), 8.51%
 bɹ(2) 4.25%

Broad (47):
bɹ(6), 12.76%
fl(4) 8.51%

47 total consonant clusters

Supra-Segments: Whole Syllables

The most frequent whole syllable was /ə/.

Whole Syllable Total for Stressed and Unstressed Syllables and Monosyllables

First Syllable Whole Syllable Unstressed (all entries are word initial) (30):
#ə(2) 6.66%

Second Syllable Whole Syllable Unstressed (59):
ə(2) 3.38%

Whole Syllable Total per Syllable

First Syllable Whole Syllable (all entries are word initial) (87):
#ə(2) 2.29%

Second Syllable Whole Syllable (87):
ə(2) 2.29%

Whole Syllable Stressed and Unstressed Total

Whole Syllable Unstressed (125):
ə(3), 2.40%
#ə(2) 1.60%

Whole Syllable Total (absolute)

Narrow (239):
ə(3), 1.25%
#ə(2) .83%

Broad (239):
ə(5) 2.09%

239 total whole syllables

Supra-Segments: Whole Words

Table a.-A

	Syllable Receiving Stress					
	None	First	Second	Third	Fourth	Fifth
Word Length Total						
Monosyllabic: 26						
Bisyllabic: 55	0	41	14			
Trisyllabic: 26	0	15	11	0		
Tetrasyllabic: 5	0	1	3	1	0	
Pentasyllabic: 1	0	0	0	0	1	0
Total: 113	0	57	28	1	1	0

Table a.-B

	Syllable			Receiving	Stress	
	None	First	Second	Third	Fourth	Fifth
Word Length Total						
Monosyllabic: 23.00%						
Bisyllabic: 48.67%	0	74.54%/71.92%	25.45%/50.00%			
Trisyllabic: 23.00	0	57.69%/26.31%	42.30%/39.28%	0		
Tetrasyllabic: 4.42%	0	20.00%/1.75%	60.00%/10.71%	20.00%/100%	0	
Pentasyllabic: .88%	0	0	0	0	100%/100%	0
Stressed Syllable Total:		65.51%	32.18%	1.14%	1.14%	0

Table Key: The “Word Length Total” column figure represents the percentage of words that is of that word length. For the cells inside the “Syllable Receiving Stress” columns, the amount on top indicates what percentage of a particular word length was stressed on that syllable. The number on the bottom indicates, for all the words that received stress on a particular syllable, what percentage of these words were of a particular word length. The “Stressed Syllable Total” row indicates what percentage of words was stressed on a particular syllable. Note that monosyllables were not analyzed as receiving stress and the “None” cell in the “Stressed Syllable Total” row is inapplicable.

Question discussion.

For Question a. the most frequent segments were consonants /n/, /s/, and /l/ and vowels /a/ and /ə/. /n/ is an alveolar nasal. /s/ is a voiceless, alveolar fricative. /l/ is an alveolar lateral approximant. /a/ is an unrounded, lax, low back vowel. /ə/ is an unrounded, intermediate, mid, central vowel. The segments occurred most frequently in the first stressed and the second and third unstressed syllables. The first unstressed, second stressed and fourth unstressed syllables contained fewer segments. The monosyllables housed all the segments but /ə/. (/ə/ cannot appear in a monosyllable.) Unstressed segments were more numerous than stressed ones. Syllable onsets housed more segments than syllable codas. All consonants appeared in word-initial, -medial and -final positions. /s/ favored word-initial positions however, and /n/ favored word-final positions. /ə/ occurred in all three positions. /a/ occurred word-initially and word-finally. Syllabic /n/ occurred in the second and third unstressed syllables. The most frequent

consonant clusters were /bɹ/ and /fl/. /b/ is a voiced, bilabial plosive. /ɹ/ is an alveolar approximant. /f/ is a voiceless, labiodental fricative. /bɹ/ and /fl/ frequently occurred in the first stressed syllable onset, word-initial. The most frequent whole syllable was /ə/. /ə/ occurred in the first syllable unstressed, word-initial and in the second syllable unstressed, word-medial. For all 113 whole words there were no repeated words.

Results Data Sheet

Images Requiring Words



Question ID: b.

Below is a listing of the most frequent segments and supra-segments of this Question, the environments in which they appeared and the frequency with which they appeared in the indicated environments. In order to qualify for this data set, segments and supra-segments must have accounted for a minimum percentage of the broad total listed at the end of each section. The minimum values are as follows: consonants- >9%, vowels- >13%, consonant clusters- >8%, whole syllables- >1%. For a complete listing of the segments, supra-segments, environments and frequencies of this Question see the various Question b. data sheet sets in the appendix.

Segments

The most frequent consonants were /ɹ/ and /n/. The most frequent vowels were /ɑ/, /i/, and /ə/.

Segment Total for Stressed and Unstressed Syllables and Monosyllables according to Syllable Configuration

Monosyllable Nucleus (30):

i(4), ɑ(4) 13.33%

Monosyllable Coda (28):

n(4), 14.28%

ɹ(2) 7.14%

First Syllable Segment Stressed Onset (74):

ɹ(6) 8.10%

First Syllable Segment Stressed Nucleus (62):

ɑ(10), 16.12%

#ɑ(3), 4.83%

i(2) 3.22%

First Syllable Segment Stressed Coda (22):

n(8), 36.36%

ɹ(3) 13.63%

First Syllable Segment Unstressed Nucleus (23):

ə(6), 26.08%

#ɑ(3), ɑ(3), 13.04%

#ə(2) 8.69%

First Syllable Segment Unstressed Coda (3):

n(2) 66.66%

Second Syllable Segment Stressed Onset (19):

ɹ(3) 15.78%

Second Syllable Segment Stressed Nucleus (20):

i(3), ɑ(3) 15.00%

Second Syllable Segment Stressed Coda (10):

n(2), ɹ(2), ɹ(2) 20.00%

Second Syllable Segment Unstressed Onset (66):

ɹ(9), 13.63%

n(3) 4.54%

Second Syllable Segment Unstressed Nucleus (64):

ə(9), 14.06%

iː#(8), 12.50%

ɑ(3), 4.68%

iː(2), əŋ#(2) 3.12%

Second Syllable Segment Unstressed Coda (15):

n#(2) 13.33%

Third Syllable Segment Stressed Nucleus (2):

iː(2) 100%

Third Syllable Segment Unstressed Onset (30):

ɹ(4) 13.33%

Third Syllable Segment Unstressed Nucleus (27):

ə(6), 22.22%

ɑ(3), əŋ#(3), 11.11%

iː(2) 7.40%

Third Syllable Segment Unstressed Coda (11):

n#(2), ɹ#(2) 18.18%

Fourth Syllable Segment Unstressed Onset (5):

ɹ(2) 40.00%

Fourth Syllable Segment Unstressed Nucleus (9):

iː#(2), ə(2) 22.22%

Segment Total for Stressed and Unstressed Onsets and Codas

Stressed Onset (96):

ɹ(9), 9.37%

n(3) 3.12%

Stressed Coda (33):

n(10), 30.30%

ɹ(5) 15.15%

Unstressed Onset (120):

ɹ(16), 13.33%

n(6) 5.00%

Unstressed Coda (32):

n#(4), 12.50%

ɹ#(3), 9.37%

n(2) 6.25%

Segment Total for Onsets and Codas

Onset (252):

ɹ(26), 10.31%

n(9) 3.57%

Coda (93):
n(12), 12.90%
n#(8), 1(8), 8.60%
1#(6) 6.45%

Segment Total for Stressed and Unstressed Syllables and Monosyllables

Monosyllable Segment (64):
n#(4), 6.25%
1(3) 4.68%

(30):
i¹(4), a(4) 13.33%

First Syllable Segment Stressed (96):
1(9), 9.37%
n(8) 8.33%

(62):
a(10), 16.12%
#a(3), 4.83%
i¹(2) 3.22%

First Syllable Segment Unstressed (22):
n(2), 1(2) 9.09%

(23):
ə(6), 26.08%
#a(3), a(3), 13.04%
#ə(2) 8.69%

Second Syllable Segment Stressed (29):
1(5), 17.24%
n(3), 10.34%
1#(2) 6.89%

(20):
i¹(3), a(3) 15.00%

Second Syllable Segment Unstressed (95):
1(9), 9.47%
n#(2), ən#(2) 2.10%

(45):
ə(9), 20.00%
i¹#(8), 17.77%
a(3), 6.66%
i¹(2) 4.44%

Third Syllable Segment Stressed:

(2):
i¹(2) 100%

Third Syllable Segment Unstressed (47):
1(4), 8.51%
n(3), ən#(3), 6.38%
n#(2), 1#(2) 4.25%

(21):
 ə(6), 28.57%
 ɑ(3), 14.28%
 i(2) 9.52%

Fourth Syllable Segment Unstressed (10):
 ɹ(2) 20.00%

(7):
 i#(2), ə(2) 28.57%

Segment Total by Syllable

First Syllable Segment (118):
 ɹ(11), 9.32%
 n(10) 8.47%

(85):
 ɑ(13), 15.29%
 ə(6), #ɑ(6), 7.05%
 #i(2), i(2), #ə(2) 2.35%

Second Syllable Segment (124):
 ɹ(14), 11.29%
 n(6), 4.83%
 ɹ#(3), 2.41%
 n#(2), ɹn#(2) 1.61%

(70):
 ə(9), 12.85%
 i#(8), 11.42%
 ɑ(6), 8.57%
 i(5) 7.14%

Third syllable Segment (49):
 n(4), ɹ(4), 8.16%
 ɹn#(3), 6.12%
 n#(2), ɹ#(2) 4.08%

(23):
 ə(6), 26.08%
 i(4), 17.39%
 ɑ(3) 13.04%

Fourth Syllable Segment (11):
 ɹ(2) 18.18%

(8):
 i#(2), ə(2) 25.00%

Segment Stressed and Unstressed Total

Stressed Segment (128):
 ɹ(14) 10.93%
 n(13), 10.15%
 ɹ#(2) 1.56%

(85):

a(13), 15.29%

i^l(7), 8.23%

#a(3) 3.52%

Unstressed Segment (175):

ɹ(17), 9.71%

n(8), 4.57%

ɹn#(5), 2.85%

n#(4), 2.28%

ɹ#(3) 1.71%

(97):

ə(24), 24.74%

i^l#(10), 10.30%

a(9), 9.27%

i^l(4), 4.12%

#a(3), 3.09%

#ə(2), ə#(2) 2.06%

Segment Total (absolute)

Narrow (367):

ɹ(34), 9.26%

n(21), 5.72%

n#(8), 2.17%

ɹ#(6), 1.63%

ɹn#(5) 1.36%

(212):

a(26), 12.26%

ə(24), 11.32%

i^l(15), 7.07%

i^l#(10), 4.71%

#a(7), 3.30%

#ə(2), ə#(2) .94%

Broad (367):

ɹ(40), 10.89%

n(36) 9.80%

(212):

a(34), 16.03%

i(28), ə(28) 13.20%

579 total segments

Supra-Segments: Consonant Clusters

The most frequent consonant clusters were /bl/ and /pl/.

Consonant Cluster Total for Stressed and Unstressed Syllables and Monosyllables according to Syllable Configuration

First Syllable Consonant Cluster Stressed Onset (all entries are word initial) (18):

#bl(5) 27.77%

Consonant Cluster Total for Stressed and Unstressed Onsets and Codas

Stressed Onset (19):
#bl(5), 26.31%

Consonant Cluster Total for Onsets and Codas

Onset (36):
#bl(7), 19.44%
#p^hl(2) 5.55%

Consonant Cluster Total for Stressed and Unstressed Syllables and Monosyllables

First Syllable Consonant Cluster Stressed (18):
#bl(5) 27.77%

Consonant Cluster Total per Syllable

First Syllable Consonant Cluster (22):
#bl(6) 27.27%

Consonant Cluster Stressed and Unstressed Total

Consonant Cluster Stressed (19):
#bl(5) 26.31%

Consonant Cluster Total (absolute)

Narrow (43):
#bl(7), 16.27%
#p^hl(2) 4.65%

Broad (43):
bl(7), 16.27%
pl(4) 9.30%

43 total consonant clusters

Supra-Segments: Whole Syllables

The most frequent whole syllable was /a/.

Whole Syllable Total for Stressed and Unstressed Syllables and Monosyllables

First Syllable Whole Syllable Stressed (all entries are word initial) (57):
#a(2) 3.50%

First Syllable Whole Syllable Unstressed (all entries are word initial) (25):
#a(2) 8.00%

Whole Syllable Total per Syllable

First Syllable Whole Syllable (all entries are word initial) (82):
#a(4) 2.43%

Whole Syllable Stressed and Unstressed Total

Whole Syllable Stressed (82):
#a(2) 2.43%

Whole Syllable Unstressed (123):
#a(2) 1.62%

Whole Syllable Total (absolute)

Narrow (237):
#a(4) 1.68%

Broad (237):
a(4) 1.68%

237 total whole syllables

Supra-Segments: Whole Words

Table b.-A

	Syllable Receiving Stress					
	None	First	Second	Third	Fourth	Fifth
Word Length Total						
Monosyllabic: 30						
Bisyllabic: 53	0	47	6			
Trisyllabic: 20	0	10	10	0		
Tetrasyllabic: 9	0	1	5	3	0	
Pentasyllabic: 1	0	0	0	0	1	0
Total: 113	0	58	21	3	1	0

Table b.-B

	Syllable Receiving Stress					
	None	First	Second	Third	Fourth	Fifth
Word Length Total						
Monosyllabic: 26.54%						
Bisyllabic: 46.90%	0	88.67%/ 81.03%	11.32%/ 28.57%			
Trisyllabic: 17.69%	0	50.00%/ 17.24%	50.00%/ 47.61%	0		
Tetrasyllabic: 7.96%	0	11.11%/ 1.72%	55.55%/ 23.80%	33.33%/ 100%	0	
Pentasyllabic: .88%	0	0	0	0	100%/ 100%	0
Stressed Syllable Total:		69.87%	25.30%	3.61%	1.20%	0

Table Key: The “Word Length Total” column figure represents the percentage of words that is of that word length. For the cells inside the “Syllable Receiving Stress” columns, the amount on top indicates what percentage of a particular word length was stressed on that syllable. The number on the bottom indicates, for all the words that received stress on a particular syllable, what percentage of these words were of a particular word length. The “Stressed Syllable Total” row indicates what percentage of words was stressed on a particular syllable. Note that monosyllables were not analyzed as receiving stress and the “None” cell in the “Stressed Syllable Total” row is inapplicable.

Question discussion.

For Question b. the most frequent segments were consonants /ɹ/ and /n/ and vowels /a/,

/i/, and /ə/. /ɹ/ is an alveolar approximant. /n/ is an alveolar nasal. /a/ is an unrounded, lax,

low, back vowel. /i/ is an unrounded, tense, high, front vowel. /ə/ is an unrounded, intermediate, mid, central vowel. The segments most frequently occurred in first stressed and second and third unstressed syllables. The first unstressed syllable housed many vowels and few consonants. The second stressed syllable contained fewer but balanced amounts of segments. The third stressed syllable contained only vowels and the fourth unstressed syllable had both consonants and vowels. The unstressed segments easily outnumbered the stressed ones. The syllable nucleus, stressed and unstressed, generally contained the greatest concentration of segments. Syllabic /n/ was present in second and third unstressed syllables. The onsets and codas were smaller than the nuclei, but about equal to each other in size most of the time. The monosyllables contained examples of all the segments. (/ə/ can never appear in a monosyllable.) Most segments favored word-medial positions with /i/ having several examples that were word-final as well. The most frequent consonant clusters were /bl/ and /pl/. /b/ is a voiced, bilabial plosive. /l/ is an alveolar, lateral approximant. /p/ is a voiceless, bilabial plosive. Note that none of these constituents were among the most common segments. This was unusual. /bl/ occurred most frequently in first stressed syllables in the onset, word-initial. /pl/ occurred most frequently in the onset, word-initially. The most frequent whole syllable was /a/. It occurred exclusively in the first syllable, both stressed and unstressed, word-initially. For all 113 whole words there were no repeated words.

Results Data Sheet

Images Requiring Words



Question ID: c.

Below is a listing of the most frequent segments and supra-segments of this Question, the environments in which they appeared and the frequency with which they appeared in the indicated environments. In order to qualify for this data set, segments and supra-segments must have accounted for a minimum percentage of the broad total listed at the end of each section. The minimum values are as follows: consonants- >9%, vowels- >13%, consonant clusters- >8%, whole syllables- >1%. For a complete listing of the segments, supra-segments, environments and frequencies of this Question see the various Question c. data sheet sets in the appendix.

Segments

The most frequent consonants were /ɹ/ and /n/. The most frequent vowels were /ɑ/ and /ə/.

Segment Total for Stressed and Unstressed Syllables and Monosyllables according to Syllable Configuration

Monosyllable Onset (19):

ɹ(4) 21.05%

Monosyllable Nucleus (14):

ɑ(2) 14.28%

First Syllable Segment Stressed Onset (69):

ɹ(8), 11.59%

#ɹ(2) 2.89%

First Syllable Segment Stressed Nucleus (61):

ɑ(11), 18.03%

#ɑ(2) 3.27%

First Syllable Segment Stressed Coda (29):

n(6), ɹ(6) 20.68%

First Syllable Segment Unstressed Onset (33):

ɹ(5), 15.15%

#n(2) 6.06%

First Syllable Segment Unstressed Nucleus (38):

ə(8), 21.05%

ɑ(4), 10.52%

#ɑ(3) 7.89%

First Syllable Segment Unstressed Coda (12):

ɹ(4) 33.33%

Second Syllable Segment Stressed Nucleus (26):

ɑ(3) 11.53%

Second Syllable Segment Stressed Coda (11):

n#(2) 18.18%

Second Syllable Segment Unstressed Onset (82):

ɹ(8), 9.75%

n(4) 4.87%

Second Syllable Segment Unstressed Nucleus (72):

ə(15), 20.83%

ə#(2), əŋ(2) 2.77%

Second Syllable Segment Unstressed Coda (27):

n#(6), 22.22%

ɹ#(3), 11.11%

n(2) 7.40%

Third Syllable Segment Stressed Nucleus (6):

ɑ(2) 33.33%

Third Syllable Segment Unstressed Onset (42):

ɹ(6), 14.28%

n(3) 7.14%

Third Syllable Segment Unstressed Nucleus (34):

ɑ(6), 17.64%

ə(4), 11.76%

ə#(3), 8.82%

əŋ#(2) 5.88%

Third Syllable Segment Unstressed Coda (22):

n#(4), 18.18%

ɹ(2) 9.09%

Fourth Syllable Segment Unstressed Nucleus (13):

ə#(3), 23.07%

ə(2) 15.38%

Segment Total for Stressed and Unstressed Onsets and Codas

Stressed Onset (112):

ɹ(15), 13.39%

n(2), #ɹ(2) 1.78

Stressed Coda (42):

n(8), 19.04%

ɹ(7), 16.66%

n#(2) 4.76%

Unstressed Onset (169):

ɹ(20), 11.83%

n(8), 4.73%

#n(2) 1.18%

Unstressed Coda (63):

n#(10), 15.87%

ɹ(6), 9.52%

n(4), ɹ#(4) 6.34%

Segment Total for Onsets and Codas

Onset (300):

ɹ(39), 13.00%

n(10), 3.33%

#ɹ(4), 1.33%

#n(2) .66%

Coda (124):

ɹ(14), 11.29%

n#(13), n(13), 10.48%

ɹ#(4) 3.22%

Segment Total for Stressed and Unstressed Syllables and Monosyllables

Monosyllable Segment (38):

ɹ(5), 13.15%

(14):

ɑ(2) 14.28%

First Syllable Segment Stressed (104):

ɹ(14), 13.46%

n(6) 5.76%

(61):

ɑ(11), 18.03%

#ɑ(2) 3.27%

First Syllable Segment Unstressed (47):

ɹ(9), 19.14%

#n(2), ɹ̥(2) 4.25%

(36):

ə(8), 22.22%

ɑ(4), 11.11%

#ɑ(3), 8.33%

#ə(2) 5.55%

Second Syllable Segment Stressed (42):

ɹ(7), 16.66%

n#(2), n(2) 4.76%

(26):

ɑ(3) 11.53%

Second Syllable Segment Unstressed (115):

ɹ(8), 6.95%

n#(6), n(6), 5.21%

ɹ#(3), 2.60%

ɹ̥(2) 1.73%

(66):

ə(15), 22.72%

ɑ(9), 13.63%

ə#(2) 3.03%

Third Syllable Segment Stressed (8):

n(2) 25.00%

(6):

a(2) 33.33%

Third Syllable Segment Unstressed (69):

ɹ(8), 11.59%

n(4), n#(4), 5.79%

ʔn#(2) 2.89%

(29):

a(6), 20.68%

ə(4), 13.79%

ə#(3) 10.34%

Fourth Syllable Segment Unstressed:

(12):

ə#(3), 25.00%

ə(2) 16.66%

Segment Total by Syllable

First Syllable Segment (151):

ɹ(23), 15.23%

n(7), 4.63%

#n(2), ʔn(2) 1.32%

(97):

a(15), 15.46%

ə(8), 8.24%

#a(5), 5.15%

#ə(2) 2.06%

Second Syllable Segment (157):

ɹ(15), 9.55%

n#(8), n(8), 5.09%

ɹ#(3), 1.91%

ʔn(2) 1.27%

(92):

ə(15), 16.30%

a(12), 13.04%

ə#(2) 2.17%

Third syllable Segment (77):

ɹ(9), 11.68%

n(6), 7.79%

n#(4), 5.19%

ʔn#(2) 2.59%

(35):

a(8), 22.85%

ə(4), 11.42%

ə#(3) 8.57%

Fourth Syllable Segment:

(12):

ə#(3), 25.00%

ə(2) 16.66%

Segment Stressed and Unstressed Total

Stressed Segment (154):

ɹ(22), 14.28%

n(10), 6.49%

n#(2) 1.29%

(93):

ɑ(16), 17.20%

#ɑ(2) 2.15%

Unstressed Segment (248):

ɹ(26), 10.48%

n(12), 4.83%

n#(10), 4.03%

ɹ#(4), 1.61%

əɹ#(3), 1.20%

#n(2) .80%

(143):

ə(29), 20.27%

ɑ(19), 13.28%

ə#(8), 5.59%

#ɑ(3), 2.09%

#ə(2) 1.39%

Segment Total (absolute)

Narrow (425):

ɹ(53), 12.47%

n(23), 5.41%

n#(13), 3.05%

əɹ(4), ɹ#(4), #ɹ(4), .94%

əɹ#(3), .70%

#n(2) .47%

(265):

ɑ(37), 13.96%

ə(29), 10.94%

ə#(8), 3.01%

#ɑ(5), 1.88%

#ə(2) .75%

Broad (425):

ɹ(61), 14.35%

n(45) 10.58%

(265):

a(44), 16.60%

ə(39) 14.71%

690 total segments

Supra-Segments: Consonant Clusters

The most common consonant clusters were /bɹ/, /fɹ/, /tɹ/, and /gɹ/.

Consonant Cluster Total for Stressed and Unstressed Syllables and Monosyllables according to Syllable Configuration

Monosyllable Consonant Cluster Onset (all entries are word initial) (2):

#bɹ(2) 100%

First Syllable Consonant Cluster Stressed Onset (all entries are word initial) (17):

#fɹ(3), #gɹ(3) 17.64%

First Syllable Consonant Cluster Unstressed Onset (all entries are word initial) (5):

#bɹ(3) 60.00%

Second Syllable Consonant Cluster Stressed Onset (6):

bɹ(2), t^hɹ(2) 33.33%

Consonant Cluster Total for Stressed and Unstressed Onsets and Codas

Stressed Onset (23):

#fɹ(3), #gɹ(3), 13.04%

bɹ(2), t^hɹ(2) 8.69%

Unstressed Onset (12):

#bɹ(3) 25.00%

Consonant Cluster Total for Onsets and Codas

Onset (37):

#bɹ(5), 13.51%

bɹ(3), #fɹ(3), #gɹ(3), 8.10%

t^hɹ(2), tɹ(2) 5.40%

Consonant Cluster Total for Stressed and Unstressed Syllables and Monosyllables

Monosyllable Consonant Cluster (4):

#bɹ(2) 50.00%

First Syllable Consonant Cluster Stressed (17):

#fɹ(3), #gɹ(3) 17.64%

First Syllable Consonant Cluster Unstressed (5):

#bɹ(3) 60.00%

Second Syllable Consonant Cluster Stressed (7):

bɹ(2), t^hɹ(2) 28.57%

Consonant Cluster Total per Syllable

First Syllable Consonant Cluster (22):

#bɹ(3), #fɹ(3), #gɹ(3) 13.63%

Second Syllable Consonant Cluster (13):

bɹ(3), 23.07%

t^hɹ(2) 15.38%

Consonant Cluster Stressed and Unstressed Total

Consonant Cluster Stressed (24):

#fɹ(3), #gɹ(3), 12.50%

bɹ(2), t^hɹ(2) 8.33%

Consonant Cluster Unstressed (16):

#bɹ(3) 18.75%

Consonant Cluster Total (absolute)

Narrow (44):

#bɹ(5), 11.36%

bɹ(3), #fɹ(3), #gɹ(3), 6.81%

t^hɹ(2), tɹ(2) 4.54%

Broad (44):

bɹ(8), 18.18%

fɹ(4), tɹ(4), gɹ(4) 9.09%

44 total consonant clusters

Supra-Segments: Whole Syllables

The most common whole syllables were /li/, /ə/, /mə/, and /lə/.

Whole Syllable Total for Stressed and Unstressed Syllables and Monosyllables

First Syllable Whole Syllable Unstressed (all entries are word initial) (37):

#ə(2), #mə(2) 5.40%

Whole Syllable Total per Syllable

First Syllable Whole Syllable (all entries are word initial) (99):

#ə(2), #mə(2) 2.02%

Whole Syllable Stressed and Unstressed Total

Whole Syllable Unstressed (161):

li^l#(2), #ə(2), #mə(2), lə^l#(2), lə(2) 1.24%

Whole Syllable Total (absolute)

Narrow (273):

li^l#(2), #ə(2), #mə(2), lə^l#(2), lə(2) .73%

Broad (273):

li(4), ə(4), mə(4), lə(4) 1.46%

273 total whole syllables

Supra-Segments: Whole Words

Table c.-A

		Syllable			Receiving	Stress	
		None	First	Second	Third	Fourth	Fifth
Word Length Total							
Monosyllabic: 14							
Bisyllabic: 52		0	42	10			
Trisyllabic: 34		1	20	11	2		
Tetrasyllabic: 12		0	0	7	5	0	
Pentasyllabic: 1		0	0	0	1	0	0
Total: 113		1	62	28	8	0	0

Table c.-B

	Syllable			Receiving	Stress	
	None	First	Second	Third	Fourth	Fifth
Word Length Total						
Monosyllabic: 12.38%						
Bisyllabic: 46.01%	0	80.76%/ 67.74%	19.23%/ 35.71%			
Trisyllabic: 30.08%	2.94%/ 100%	58.82%/ 32.25%	32.35%/ 39.28%			
Tetrasyllabic: 10.61%	0	0	58.33%/ 25.00%	41.66%/ 62.50%	0	
Pentasyllabic: .88%	0	0	0	100%/ 12.50%	0	
Stressed Syllable Total:		63.26%	28.57%	8.16%	0	

Table Key: The “Word Length Total” column figure represents the percentage of words that is of that word length. For the cells inside the “Syllable Receiving Stress” columns, the amount on top indicates what percentage of a particular word length was stressed on that syllable. The number on the bottom indicates, for all the words that received stress on a particular syllable, what percentage of these words were of a particular word length. The “Stressed Syllable Total” row indicates what percentage of words was stressed on a particular syllable. Note that monosyllables were not analyzed as receiving stress and the “None” cell in the “Stressed Syllable Total” row is inapplicable.

Question discussion.

For Question c. the most frequent segments were consonants /ɹ/ and /n/ and vowels /a/ and /ə/. /ɹ/ is an alveolar approximant. /n/ is an alveolar nasal. /a/ is an unrounded, lax, low, back vowel. /ə/ is an unrounded, intermediate, mid, central vowel. Segments most frequently occurred in the first stressed and unstressed syllable and in the second and third unstressed syllable. The second stressed syllable contained fewer segments but was balanced. The third stressed syllable and the fourth unstressed syllable only contained vowels. Unstressed segments

far exceeded stressed segments in total number. The segments were fairly well balanced between onsets, nuclei and codas. At times, the nuclei housed a bit more segments than the other two. The monosyllables had no examples of /n/. (/ə/ is never found in a monosyllable.) In the second and third unstressed syllables, syllabic /n/ was present. Most segments were word-medial. /n/ was an exception as it showed several examples that were word-final. The most common consonant clusters were /bɹ/, /fɹ/, /tɹ/, and /gɹ/. /b/ is a voiced, bilabial plosive. /f/ is a voiceless, labiodental fricative. /t/ is a voiceless, alveolar, plosive. /g/ is a voiced, velar plosive. None of these consonants are among the most frequent consonants. /bɹ/ occurred in monosyllables, first unstressed and second stressed syllables in the onset. It was word initial in the monosyllables and the first syllables. /fɹ/ and /gɹ/ occurred most frequently in first stressed syllable onsets, word initial. /tɹ/ frequently occurred in second stressed syllables in the onset, word-medial. The most common whole syllables were /li/, /ə/, /mə/, and /lə/. /l/ is an alveolar, lateral approximant. /i/ is an unrounded, tense, high, front vowel. /m/ is a bilabial nasal. /li/ frequently occurred unstressed in word-final position. /ə/ and /mə/ frequently occurred in the first whole syllable unstressed, word-initial. /lə/ frequently occurred in unstressed syllables in word-medial and word-final positions. For all 113 whole words there were no repeated words.

Results Data Sheet

Images Requiring Words



Question ID: d.

Below is a listing of the most frequent segments and supra-segments of this Question, the environments in which they appeared and the frequency with which they appeared in the indicated environments. In order to qualify for this data set, segments and supra-segments must have accounted for a minimum percentage of the broad total listed at the end of each section. The minimum values are as follows: consonants- >9%, vowels- >13%, consonant clusters- >8%, whole syllables- >1%. For a complete listing of the segments, supra-segments, environments and frequencies of this Question see the various Question d. data sheet sets in the appendix.

Segments

The most frequent consonants were /s/, /l/, and /n/. The most frequent vowels were /ɪ/, /a/, and /ə/.

Segment Total for Stressed and Unstressed Syllables and Monosyllables according to Syllable Configuration

Monosyllable Onset (28):

#s(6), 21.42%

ɹ(3) 10.71%

Monosyllable Nucleus (15):

a(2) 13.33%

Monosyllable Coda (19):

ɹ#(2) 10.52%

First Syllable Segment Stressed Onset (101):

#s(27), 26.73%

ɹ(6), 5.94%

#ɹ(3) 2.97%

First Syllable Segment Stressed Nucleus (79):

ɪ(15), 18.98%

a(14) 17.72%

First Syllable Segment Stressed Coda (29):

n(9), 31.03%

ɹ(3), 10.34%

s(2) 6.89%

First Syllable Segment Unstressed Onset (20):

#s(5) 25.00%

First Syllable Segment Unstressed Nucleus (20):

ɪ(5), 25.00%

ə(4), 20.00%

#a(2) 10.00%

Second Syllable Segment Stressed Onset (20):

ɹ(4), 20.00%

s(2) 10.00%

Second Syllable Segment Stressed Nucleus (16):

a(5), 31.25%

ɪ(3) 18.75%

Second Syllable Segment Stressed Coda (9):

n(2), ɹ#(2) 22.22%

Second Syllable Segment Unstressed Onset (84):

ɹ(8), 9.52%

n(4), 4.76%

s(2) 2.38%

Second Syllable Segment Unstressed Nucleus (137):

ə(15), 10.94%

ɪ(8), 5.83%

a(6), 4.37%

əŋ#(4) 2.91%

Second Syllable Segment Unstressed Coda (29):

n#(6), 20.68%

s#(2) 6.89%

Third Syllable Segment Unstressed Onset (25):

n(5), 20.00%

ɹ(4), 16.00%

s(3) 12.00%

Third Syllable Segment Unstressed Nucleus (21):

ɪ(5), 23.80%

ə#(4), 19.04%

a(2) 9.52%

Third Syllable Segment Unstressed Coda (12):

s#(4) 33.33%

Fourth Syllable Segment Unstressed Nucleus (8):

ə#(4) 50.00%

Fourth Syllable Segment Unstressed Coda (3):

s#(2) 66.66%

Segment Total for Stressed and Unstressed Onsets and Codas**Stressed Onset (125):**

#s(27), 21.60%

ɹ(10), 8.00%

#ɹ(3), 2.40%

s(2) 1.60%

Stressed Coda (38):

n(11), 28.94%

ɹ(3), 7.89%

s(2), ɹ#(2) 5.26%

Unstressed Onset (135):

ɹ(14), 10.37%

n(9), 6.66%

s(6), 4.44%

#s(5) 3.70%

Unstressed Coda (48):

s#(8), 16.66%

n#(7), 14.58%

s(2), ɹ#(2) 4.16%

Segment Total for Onsets and Codas

Onset (288):

#s(38), 13.19%

ɹ(27), 9.37%

n(10), 3.47%

s(8), 2.77%

#ɹ(5) 1.73%

Coda (105):

n(14), 13.33%

n#(9), 8.57%

s#(8), 7.61%

ɹ#(6), 5.71%

s(4), ɹ(4) 3.80%

Segment Total for Stressed and Unstressed Syllables and Monosyllables

Monosyllable Segment (62):

#s(6), 9.67%

ɹ(3), 4.83%

n#(2), ɹ#(2) 3.22%

(15):

ɑ(2) 13.33%

First Syllable Segment Stressed (130):

#s(27), 20.76%

n(9), ɹ(9), 6.92%

#ɹ(3), 2.30%

s(2) 1.53%

(79):

ɪ(15), 18.98%

ɑ(14) 17.72%

First Syllable Segment Unstressed (25):

#s(5), 20.00%

ɹ(2) 8.00%

(19):

ɪ(5), 26.31%

ə(4), 21.05%

#ɑ(2) 10.52%

Second Syllable Segment Stressed (29):

ɹ(4), 13.79%
n(2), s(2), ɹ#(2) 6.89%

(16):

ɑ(5), 31.25%
ɪ(3) 18.75%

Second Syllable Segment Unstressed (132):

ɹ(8), 6.06%
n#(6), 4.54%
n(5), 3.78%
əŋ#(4), 3.03%
s(2), s#(2) 1.51%

(64):

ə(15), 23.43%
ɪ(8), 12.50%
ɑ(6) 9.37%

Third Syllable Segment Unstressed (39):

n(5), 12.82%
s(4), s#(4), ɹ(4) 10.25%

(19):

ɪ(5), 26.31%
ə#(4), 21.05%
ɑ(2) 10.52%

Fourth Syllable Segment Unstressed (10):

s#(2) 20.00%

(7):

ə#(4) 57.14%

Segment Total by Syllable

First Syllable Segment (155):

#s(32), 20.64%
ɹ(11), 7.09%
n(10), 6.45%
#ɹ(4), 2.58%
s(3) 1.93%

(98):

ɪ(20), 20.40%
ɑ(15), 15.30%
ə(4), 4.08%
#ɑ(3) 3.06%

Second Syllable Segment (161):

ɹ(12), 7.45%
n(7), 4.34%
n#(6), 3.72%
əŋ#(4), s(4), 2.48%
ɹ#(3), 1.86%
s#(2) 1.24%

(80):
ə(15), 18.75%
ɪ(11), a(11) 13.75%

Third syllable Segment (43):
n(6), 13.95%
s(4), s#(4), ɪ(4) 9.30%

(23):
ɪ(5), 21.73%
ə#(4), 17.39%
a(3) 13.04%

Fourth Syllable Segment (10):
s#(2) 20.00%

(7):
ə#(4) 57.14%

Segment Stressed and Unstressed Total

Stressed Segment (163):

#s(27), 16.56%
ɪ(13), 7.97%
n(12), 7.36%
s(4), 2.45%
#ɪ(3), 1.84%
ɪ#(2) 1.22%

(99):

a(20), 20.20%
ɪ(18) 18.18%

Unstressed Segment (206):

ɪ(15), 7.28%
n(11), 5.33%
s(8), s#(8), 3.88%
n#(7) 3.39%
#s(5), 2.42%
əɪ#(4), 1.94%
əɪ(2), ɪ#(2) .97%

(109):

ə(21), 19.26%
ɪ(19), 17.43%
#a(2) 1.83%

Segment Total (absolute)

Narrow (431):

#s(38), 8.81%

ʃ(31), 7.19%

n(24), 5.56%

s(12), 2.78%

n#(9), 2.08%

s#(8), 1.85%

ʃ#(6), 1.39%

#ʃ(5), 1.16%

əŋ#(4), .92%

əŋ(2) .46%

(223):

ɪ(37), 16.59%

a(31), 13.90%

ə(21), 9.41%

ə#(9), 4.03%

#a(3) 1.34%

Broad (431):

s(58), 13.45%

ʃ(42), 9.74%

n(40) 9.28%

(223):

ɪ(37), 16.59%

a(35), 15.69%

ə(31) 13.90%

654 total segments

Supra-Segments: Consonant Clusters

The most frequent consonant clusters were /sw/ and /skw/.

Consonant Cluster Total for Stressed and Unstressed Syllables and Monosyllables according to Syllable Configuration

Monosyllable Consonant Cluster Onset (all entries are word initial) (10):

#sw(2) 20.00%

First Syllable Consonant Cluster Stressed Onset (all entries are word initial) (25):

#sw(5) 20.00%

Second Syllable Consonant Cluster Stressed Onset (4):

skw(2) 50.00%

Consonant Cluster Total for Stressed and Unstressed Onsets and Codas

Stressed Onset (29):

#sw(5), 17.24%

skw(2) 6.89%

Consonant Cluster Total for Onsets and Codas

Onset (46):

#sw(7), 15.21%

#skw(3), 6.52%

skw(2) 4.34%

Consonant Cluster Total for Stressed and Unstressed Syllables and Monosyllables

Monosyllable Consonant Cluster (15):

#sw(2) 13.33%

First Syllable Consonant Cluster Stressed (26):

#sw(5) 19.23%

Second Syllable Consonant Cluster Stressed (5):

skw(2) 40.00%

Consonant Cluster Total per Syllable

First Syllable Consonant Cluster (29):

#sw(5), 17.24%

#skw(2) 6.89%

Second Syllable Consonant Cluster (11):

skw(2) 18.18%

Consonant Cluster Stressed and Unstressed Total

Consonant Cluster Stressed (31):

#sw(5), 16.12%

skw(2) 6.45%

Consonant Cluster Total (absolute)

Narrow (55):

#sw(7), 12.72%

skw(3), 5.45%

#skw(2) 3.63%

Broad (55):

sw(7), 12.72%

skw(5) 9.09%

55 total consonant clusters

Supra-Segments: Whole Syllables

The most frequent whole syllables were /pi/, /nə/, and /zɪ/.

Whole Syllable Total for Stressed and Unstressed Syllables and Monosyllables

Second Syllable Whole Syllable Unstressed (83):

piⁱ#(4), zɪⁱ#(4) 2.40%

Third Syllable Whole Syllable Unstressed (24):

nəⁱ#(3) 12.50%

Whole Syllable Total per Syllable

Second Syllable Whole Syllable (99):

piⁱ#(4), zɪⁱ#(4) 2.02%

Third Syllable Whole Syllable (29):

nəⁱ#(3) 10.34%

Whole Syllable Stressed and Unstressed Total

Whole Syllable Unstressed (135):

piⁱ#(4), nəⁱ#(4), zɪⁱ#(4) 29.62%

Whole Syllable Total (absolute)

Narrow (249):
 pi^l#(4), nə#(4), zɹ^l#(4) 1.60%

Broad (249):
 pi(4), nə(4), zɹ^l(4) 1.60%

249 total whole syllables

Supra-Segments: Whole Words

Table d.-A

	Syllable Receiving Stress					
	None	First	Second	Third	Fourth	Fifth
Word Length Total						
Monosyllabic: 15						
Bisyllabic: 71	0	65	6			
Trisyllabic: 20	0	12	7	1		
Tetrasyllabic: 8	0	1	3	4	0	
Pentasyllabic: 0	0	0	0	0	0	0
Total: 114	0	78	16	5	0	0

Table d.-B

	Syllable Receiving Stress					
	None	First	Second	Third	Fourth	Fifth
Word Length Total						
Monosyllabic: 13.15%						
Bisyllabic: 62.28%	0	91.54%/83.33%	8.45%/37.50%			
Trisyllabic: 17.54%	0	60.00%/15.38%	35.00%/43.75%	5.00%/20.00%		
Tetrasyllabic: 7.01%	0	12.50%/1.28%	37.50%/18.75%	50.00%/80.00%	0	
Pentasyllabic: 0	0	0	0	0	0	0
Stressed Syllable Total:		78.78%	16.16%	5.05%	0	0

Table Key: The “Word Length Total” column figure represents the percentage of words that is of that word length. For the cells inside the “Syllable Receiving Stress” columns, the amount on top indicates what percentage of a particular word length was stressed on that syllable. The number on the bottom indicates, for all the words that received stress on a particular syllable, what percentage of these words were of a particular word length. The “Stressed Syllable Total” row indicates what percentage of words was stressed on a particular syllable. Note that monosyllables were not analyzed as receiving stress and the “None” cell in the “Stressed Syllable Total” row is inapplicable.

Question discussion.

For Question d. the most frequent segments were consonants /s/, /ɹ/, and /n/ and vowels

/ɪ/, /a/, and /ə/. /s/ is a voiceless, alveolar fricative. /ɹ/ is an alveolar approximant. /n/ is an

alveolar nasal. /ɪ/ is an unrounded, lax, high, front vowel. /ɑ/ is an unrounded, lax, low, back vowel. /ə/ is an unrounded, intermediate, mid, central vowel. Most segments occurred in the first stressed and second and third unstressed syllables. Fewer occurred in the first and fourth unstressed (which lacked an onset), and the second stressed which was balanced. Unstressed segments outnumbered stressed segments. As a whole, the onset and nucleus housed the most segments. The coda, while not barren, was generally smaller. The monosyllables were lacking two of these segments: /n/ and /ɪ/. (/ə/ is not possible in a monosyllable.) Syllabic /n/ was present in second unstressed syllables. Most segments occurred word-medially. /s/ was an exception, frequently occurring word-initially. The most frequent consonant clusters were /sw/ and /skw/. /w/ is a labial-velar approximant. /k/ is an alveolar fricative. /sw/ occurred most frequently in monosyllables and stressed first syllables in the onset, word-initial. /skw/ occurred most frequently in first syllables word-initially and in second stressed syllables in the onset word-medially. The most frequent whole syllables were /pi/, /nə/, and /zɤ̣/. /p/ is a bilabial plosive. /i/ is an unrounded, tense, high, front vowel. /z/ is a voiced, alveolar fricative. /ɤ̣/ is a retroflex lateral approximant. It was used syllabically. /pi/ and /zɤ̣/ were exclusively found in the second unstressed syllable, word-final. /nə/ was mostly found in the third unstressed syllable, word-final. For all 114 whole words there were no repeated words.

Results Data Sheet

Images Requiring Words



Question ID: e.

Below is a listing of the most frequent segments and supra-segments of this Question, the environments in which they appeared and the frequency with which they appeared in the indicated environments. In order to qualify for this data set, segments and supra-segments must have accounted for a minimum percentage of the broad total listed at the end of each section. The minimum values are as follows: consonants- >9%, vowels- >13%, consonant clusters- >8%, whole syllables- >1%. For a complete listing of the segments, supra-segments, environments and frequencies of this Question see the various Question e. data sheet sets in the appendix.

Segments

The most frequent consonants were /k/, /ɹ/, /t/, and /n/. The most frequent vowels were /a/, /ɪ/, and /ə/.

Segment Total for Stressed and Unstressed Syllables and Monosyllables according to Syllable Configuration

Monosyllable Onset (26):

ɹ(4), 15.38%

#t^h(2) 7.69%

Monosyllable Nucleus (15):

a(6) 40.00%

Monosyllable Coda (16):

ɹ(2), k#(2) 12.50%

First Syllable Segment Stressed Onset (86):

ɹ(9), 10.46%

#ɹ(6), #k^h(6), 6.97%

#t^h(5), 5.81%

k(2) 2.32%

First Syllable Segment Stressed Nucleus (66):

a(16), 24.24%

ɪ(10) 15.15%

First Syllable Segment Stressed Coda (32):

n(6), ɹ(6), k(6) 18.75%

First Syllable Segment Unstressed Onset (33):

#k^h(5), 15.15%

t(2), ɹ(2), #k(2) 6.06%

First Syllable Segment Unstressed Nucleus (31):

ə(10), 32.25%

ɪ(7), 22.58%

a(3) 9.67%

First Syllable Segment Unstressed Coda (8):

ɹ(2) 25.00%

Second Syllable Segment Stressed Onset (32):

ɹ(7), 21.87%

t^h(4), 12.50%k^h(2) 6.25%**Second Syllable Segment Stressed Nucleus (28):**

a(7), 25.00%

ɪ(2) 7.14%

Second Syllable Segment Stressed Coda (21):

n(5), 23.80%

ɹ(3), 14.28%

n#(2), ɹ#(2), k(2) 9.52%

Second Syllable Segment Unstressed Onset (81):

t(10), 12.34%

ɹ(7), k(7), 8.64%

n(6) 7.40%

Second Syllable Segment Unstressed Nucleus (72):

ə(11), 15.27%

a(10), 13.88%

ɪ(9), 12.50%

ɹn#(3) 4.16%

Second Syllable Segment Unstressed Coda (30):

k#(5), 16.66%

t#(4), n#(4), 13.33%

k(3), 10.00%

n(2) 6.66%

Third Syllable Segment Unstressed Onset (32):

t(6), 18.75%

n(4) 12.50%

Third Syllable Segment Unstressed Nucleus (33):

ɪ(6), 18.18%

ə(5), 15.15%

ə#(2) 6.06%

Third Syllable Segment Unstressed Coda (16):

n#(4), 25.00%

t#(2) 12.50%

Fourth Syllable Segment Unstressed Nucleus (8):

ə#(2) 25.00%

Segment Total for Stressed and Unstressed Onsets and Codas**Stressed Onset (120):**

ɹ(17), 14.16%

#ɹ(6), #k^h(6), 5.00%#t^h(5), t^h(5), 4.16%

#k(3), 2.50%

k^h(2), k(2) 1.66%

Stressed Coda (54):

n(12), 22.22%
 ɹ(9), 16.66%
 k(8), 14.81%
 n#(2), ɹ#(2) 3.70%

Unstressed Onset (154):

t(18), 11.68%
 n(11), 7.14%
 ɹ(10), 6.49%
 k(9), 5.84%
 #k^h(5), 3.24%
 #k(2) 1.29%

Unstressed Coda (57):

n#(8), 14.03%
 k#(7), 12.28%
 t#(6), 10.54%
 ṭ#(3), k(3), 5.26%
 n(2), ɹ(2), ɹ#(2) 3.50%

Segment Total for Onsets and Codas**Onset (300):**

ɹ(31), 10.33%
 t(18), 6.00%
 #k^h(14), 4.66%
 n(12), k(12), 4.00%
 #ɹ(8), 2.66%
 #t^h(7), 2.33%
 #k(6), 2.00%
 t^h(5), 1.66%
 k^h(3) 1.00%

Coda (127):

n(14), 11.02%
 ɹ(13), 10.23%
 k(12), 9.44%
 n#(10), 7.87%
 k#(9), 7.08%
 t#(7), 5.51%
 ṭ#(4), ɹ#(4) 3.14%

Segment Total for Stressed and Unstressed Syllables and Monosyllables**Monosyllable Segment (52):**

ɹ(6), 11.53%
 #k^h(3), 5.76%
 #t^h(2), k(2), k#(2) 3.84%

(15):

a(6), 40.00%

First Syllable Segment Stressed (118):

ɹ(15), 12.71%
 k(8), 6.77%
 n(6), #ɹ(6), #k^h(6), 5.08%
 #t^h(5), 4.23%
 #k(3) 2.54%

(66):

ɑ(16), 24.24%
 ɪ(10) 15.15%

First Syllable Segment Unstressed (41):

#k^h(5), 12.19%
 ɹ(4), 9.75%
 t(2) 4.87%

(31):

ə(10), 32.25%
 ɪ(7), 22.58%
 ɑ(3) 9.67%

Second Syllable Segment Stressed (53):

ɹ(10), 18.86%
 n(6), 11.32%
 t^h(4), l(4), 7.54%
 n#(2), ɹ#(2), k^h(2), k(2) 3.77%

(28):

ɑ(7), 25.00%
 ɪ(2) 7.14%

Second Syllable Segment Unstressed (123):

t(10), k(10), 8.13%
 n(8), 6.50%
 ɹ(7), 5.69%
 k#(5), 4.06%
 t#(4), n#(4), 3.25%
 əŋ#(3) 2.43%

(60):

ə(11), 18.33%
 ɑ(10), 16.66%
 ɪ(9) 15.00%

Third Syllable Segment Unstressed (53):

t(6), 11.32%
 n(4), n#(4), 7.54%
 t#(2), k#(2) 3.77%

(28):

ɪ(6), 21.42%
 ə(5), 17.85%
 ə#(2) 7.14%

Fourth Syllable Segment Unstressed:

(7):
ə#(2) 28.57%

Segment Total by Syllable

First Syllable Segment (159):

ɹ(19), 11.94%
#k^h(11), 6.91%
k(8), 5.03%
#ɹ(7), 4.40%
n(6), 3.77%
#t^h(5), #k(5), 3.14%
t(3) 1.88%

(97):
a(19), 19.58%
ɪ(17), 17.52%
ə(10), 10.30%
#a(2) 2.06%

Second Syllable Segment (176):

ɹ(17), 9.65%
n(14), 7.95%
k(12), 6.81%
t(10), s(10), 5.68%
k#(5), 2.84%
t^h(4), t#(4), 2.27%
ʔŋ#(3), ɹ#(3), k^h(3) 1.70%

(88):
a(17), 19.31%
ɪ(11), ə(11) 12.50%

Third syllable Segment (56):

t(6), 10.71%
n(5), 8.92%
n#(4), 7.14%
t#(2), ɹ(2), k#(2) 3.57%

(30):
ɪ(6), 20.00%
ə(5), 16.66%
ə#(2) 6.66%

Fourth Syllable Segment:

(7):
ə#(2) 28.57%

Segment Stressed and Unstressed Total

Stressed Segment (174):

ɹ(26), 14.94%
 ɲ(13), 7.47%
 k(10), 5.74%
 #ɹ(6), #k^h(6), 3.44%
 #t^h(5), t^h(5), 2.87%
 #k(3), 1.72%
 ɲ#(2), ɹ#(2), k^h(2) 1.14%

(96):

ɑ(23), 23.95%
 ɪ(12) 12.50%

Unstressed Segment (229):

t(18), 7.86%
 ɲ(13), 5.67%
 ɹ(12), k(12), 5.24%
 ɲ#(8), 3.49%
 k#(7), 3.05%
 t#(6), 2.62%
 #k^h(5), 2.18%
 ʔɲ#(4), 1.74%
 t^h#(2), ʔɲ(2), ɹ#(2), #k(2) .87%

(127):

ə(27), 21.25%
 ɪ(23), 18.11%
 ɑ(14), 11.02%
 ə#(5) 3.93%

Segment Total (absolute)

Narrow (455):

ɹ(44), 9.67%
 ɲ(26), 5.71%
 k(24), 5.27%
 t(19), 4.17%
 #k^h(14), 3.07%
 ɲ#(10), 2.19%
 k#(9), 1.97%
 #ɹ(8), 1.75%
 #t^h(7), t#(7), 1.53%
 #k(6), 1.31%
 t^h(5), 1.09%
 ʔɲ#(4), ɹ#(4), .87%
 t^h#(2), t^h#(2), ʔɲ(2) .43%

(238):

ɑ(43), 18.06%
 ɪ(35), 14.70%
 ə(27), 11.34%
 ə#(5), 2.10%
 #ɑ(2), ɑ#(2) .84%

Broad (455):
k(58), 12.74%
ɟ(56), 12.30%
t(43), n(43) 9.45%

(238):
a(48), 20.16%
ɪ(35), 14.70%
ə(33) 13.86%

693 total segments

Supra-Segments: Consonant Clusters

The most frequent consonant clusters were /tɟ/ and /kɟ/.

Consonant Cluster Total for Stressed and Unstressed Syllables and Monosyllables according to Syllable Configuration

First Syllable Consonant Cluster Unstressed Onset (all entries are word initial) (3):
#k^hɟ(2) 66.66%

Second Syllable Consonant Cluster Stressed Onset (4):
t^hɟ(3) 75.00%

Consonant Cluster Total for Stressed and Unstressed Onsets and Codas

Stressed Onset (21):
t^hɟ(3) 14.28%

Unstressed Onset (10):
#k^hɟ(2) 20.00%

Consonant Cluster Total for Onsets and Codas

Onset (39):
#k^hɟ(4), 10.25%
t^hɟ(3) 7.69

Consonant Cluster Total for Stressed and Unstressed Syllables and Monosyllables

First Syllable Consonant Cluster Unstressed (3):
#k^hɟ(2) 66.66%

Second Syllable Consonant Cluster Stressed (6):
t^hɟ(3) 50.00%

Consonant Cluster Total per Syllable

First Syllable Consonant Cluster (21):
#k^hɟ(3) 14.28%

Second Syllable Consonant Cluster (18):
t^hɟ(3) 16.66%

Consonant Cluster Stressed and Unstressed Total

Consonant Cluster Stressed (24):
t^hɟ(3) 12.50%

Consonant Cluster Unstressed (17):
#k^hɟ(2) 11.76%

Consonant Cluster Total (absolute)

Narrow (53):
 #k^hɹ(4), 7.54%
 t^hɹ(3) 5.66%

Broad (53):
 tɹ(5), kɹ(5) 9.43%

53 total consonant clusters

Supra-Segments: Whole Syllables

The most frequent whole syllables were /t^əŋ/ and /r^ət/.

Whole Syllable Total for Stressed and Unstressed Syllables and Monosyllables

Whole Syllable Stressed and Unstressed Total

Whole Syllable Unstressed (144):
 t^əŋ#(3), r^ət#(3) 2.08%

Whole Syllable Total (absolute)

Narrow (258):
 t^əŋ#(3), r^ət#(3) 1.16%

Broad (258):
 t^əŋ(4), r^ət(4) 1.55%

258 total whole syllables

Supra-Segments: Whole Words

Table e.-A

	Syllable Receiving Stress					
	None	First	Second	Third	Fourth	Fifth
Word Length Total						
Monosyllabic: 15						
Bisyllabic: 63	1	51	11			
Trisyllabic: 28	0	16	12	0		
Tetrasyllabic: 7	0	1	5	1	0	
Pentasyllabic: 1	0	0	0	1	0	0
Total: 114	1	68	28	2	0	0

Table e.-B

	Syllable			Receiving	Stress	
	None	First	Second	Third	Fourth	Fifth
Word Length Total						
Monosyllabic: 13.15%						
Bisyllabic: 55.26%	1.58%/100%	80.95%/75.00%	17.46%/39.28%			
Trisyllabic: 24.56%	0	57.14%/23.52%	42.85%/42.85%	0		
Tetrasyllabic: 6.14%	0	14.28%/1.47%	71.42%/17.85%	14.28%/50.00%	0	
Pentasyllabic: .87%	0	0	0	100%/50.00%	0	0
Stressed Syllable Total:		69.38%	28.57%	2.04%	0	0

Table Key: The “Word Length Total” column figure represents the percentage of words that is of that word length. For the cells inside the “Syllable Receiving Stress” columns, the amount on top indicates what percentage of a particular word length was stressed on that syllable. The number on the bottom indicates, for all the words that received stress on a particular syllable, what percentage of these words were of a particular word length. The “Stressed Syllable Total” row indicates what percentage of words was stressed on a particular syllable. Note that monosyllables were not analyzed as receiving stress and the “None” cell in the “Stressed Syllable Total” row is inapplicable.

Question discussion.

For question e. the most frequent segments were consonants /k/, /ɹ/, /t/, and /n/ and vowels /a/, /ɪ/, and /ə/. /k/ is a voiceless, velar plosive. /ɹ/ is an alveolar approximant. /t/ is a voiceless, alveolar plosive. /n/ is an alveolar nasal. /a/ is an unrounded, lax, low, back vowel. /ɪ/ is an unrounded, lax, high, front vowel. /ə/ is an unrounded, intermediate, mid, central vowel. Most segments occurred in the first stressed, second stressed and unstressed and third unstressed syllables. The first unstressed syllable contained slightly fewer segments but was balanced and the fourth unstressed syllable consisted only of a nucleus. Unstressed segments outnumbered stressed segments. Segments were fairly evenly distributed throughout the onsets, nuclei and codas. The monosyllables did not contain /n/ and /ɪ/. (/ə/ will never appear in a monosyllable.) Syllabic /n/ was present in the second unstressed syllable nucleus. /k/ was roughly equal in its distribution between word-initial, -medial and -final environments. /n/ was

spread between word-medial and word-final positions for the most part. The other segments were predominantly word-medial. The most frequent consonant clusters were /tɹ/ and /kɹ/. All constituents of the consonant clusters are present in the most frequent segments. /tɹ/ is primarily located in second stressed syllable onset environments, word-medial. /kɹ/ is primarily located in first unstressed syllables in the onset, word-initial. The most frequent whole syllables were /təŋ/ and /rəɳ/. /r/ is an alveolar tap. /ɳ/ is a retroflex lateral approximant. /t/ and /ŋ/ are syllabic. /təŋ/ and /rəɳ/ were almost exclusively word-final. For all 114 whole words there were no repeated words.

Results Data Sheet

Images Requiring Words



Question ID: f.

Below is a listing of the most frequent segments and supra-segments of this Question, the environments in which they appeared and the frequency with which they appeared in the indicated environments. In order to qualify for this data set, segments and supra-segments must have accounted for a minimum percentage of the broad total listed at the end of each section. The minimum values are as follows: consonants- >9%, vowels- >13%, consonant clusters- >8%, whole syllables- >1%. For a complete listing of the segments, supra-segments, environments and frequencies of this Question see the various Question f. data sheet sets in the appendix.

Segments

The most frequent consonants were /n/, /s/, /k/, and /ɹ/. The most frequent vowels were /a/, /ə/, /u/, and /ɪ/.

Segment Total for Stressed and Unstressed Syllables and Monosyllables according to Syllable Configuration

Monosyllable Onset (40):

ɹ(6), 15.00%

#k^h(5), 12.50%

k(2) 5.00%

Monosyllable Nucleus (27):

a(7) 25.92%

Monosyllable Coda (32):

n(4), s#(4), 12.50%

k#(3), 9.37%

ɹ(2), k(2) 6.25%

First Syllable Segment Stressed Onset (74):

#s(17), 22.97%

k(7), 9.45%

ɹ(5), #k^h(5), 6.75%

#n(4), 5.40%

#ɹ(3) 4.05%

First Syllable Segment Stressed Nucleus (59):

a(10), 16.94%

u^w(5), 8.47%

#a(3), 5.08%

ɪ(2) 3.38%

First Syllable Segment Stressed Coda (21):

n(8), 38.09%

ɹ(3), k(3) 14.28%

First Syllable Segment Unstressed Onset (20):

#k(3), 15.00%

#s(2) 10.00%

First Syllable Segment Unstressed Nucleus (25):

u^w(5), #ɪ(5), 20.00%

ə(4), 16.00%

ɑ(3), 12.00%

#ə(2) 8.00%

First Syllable Segment Unstressed Coda (5):

n(2) 40.00%

Second Syllable Segment Stressed Onset (30):

m(5), 16.66%

ɹ(4), k^h(4), 13.33%

t^h(3), 10.00%

s(2), l(2) 6.66%

Second Syllable Segment Stressed Nucleus (22):

ɑ(9), 40.90%

u^w#(3), 13.63%

ɪ(2) 9.09%

Second Syllable Segment Stressed Coda (14):

n(5), 35.71%

s(2), ɹ(2) 14.28%

Second Syllable Segment Unstressed Onset (73):

s(7), 9.58%

k(6), 8.21%

n(4), 5.47%

ɹ(2) 2.73%

Second Syllable Segment Unstressed Nucleus (52):

ə(10), 19.23%

ɪ(8), 15.38%

ʔɪ(3), ɑ(3), 5.76%

u^w(2) 3.84%

Second Syllable Segment Unstressed Coda (25):

k#(4), 16.00%

n#(3), 12.00%

n(2), ɹ#(2) 8.00%

Third Syllable Segment Unstressed Onset (34):

n(4), ɹ(4), 11.76%

s(2) 5.88%

Third Syllable Segment Unstressed Nucleus (29):

ə(6), 20.68%

ɪ(3), 10.34%

ə#(2), ɑ(2) 6.89%

Third Syllable Segment Unstressed Coda (12):

s#(3), 25.00%

n#(2) 16.66%

Fourth Syllable Segment Unstressed Nucleus (7):
ə(2) 28.57%

Fourth Syllable Segment Unstressed Coda (3):
s#(3) 100%

Segment Total for Stressed and Unstressed Onsets and Codas

Stressed Onset (98):

#s(17), 17.34%
ɹ(9), 9.18%
k(7), 7.14%
#k^h(5), 5.10%
#n(4), k^h(4), 4.08%
#ɹ(3), 3.06%
s(2) 2.04%

Stressed Coda (35):

n(13), 37.14%
ɹ(5), 14.28%
s(3), k(3) 8.57%

Unstressed Onset (122):

s(9), 7.37%
n(8), 6.55%
k(7), 5.73%
ɹ(6), 4.91%
#k(3), 2.45%
#s(2) 1.63%

Unstressed Coda (45):

s#(7), 15.55%
n(5), n#(5), 11.11%
k#(4), 8.88%
ɹ#(3) 6.66%

Segment Total for Onsets and Codas

Onset (260):

#s(21), ɹ(21), 8.07%
k(16), 6.15%
s(11), 4.23%
#k^h(10), 3.84%
n(9), 3.46%
#n(5), 1.92%
#ɹ(4), k^h(4), 1.53%
#k(3), 1.15%
#s(2) .76%

Coda (112):

n(22), 19.64%
s#(11), 9.82%
k#(8), 7.14%
n#(7), ɹ(7), 6.25%
k(6), 5.35%
s(4), 3.57%
ɹ#(3) 2.67%

Segment Total for Stressed and Unstressed Syllables and Monosyllables

Monosyllable Segment (72):

ɹ(8), 11.11%
#k^h(5), 6.94%
n(4), #s(4), s#(4), k(4), 5.55%
k#(3), 4.16%
n#(2) 2.77%

(27):

ɑ(7) 25.92%

First Syllable Segment Stressed (95):

#s(17), 17.89%
k(10), 10.52%
n(8), ɹ(8), 8.42%
#k^h(5), 5.26%
#n(4), 4.21%
#ɹ(3) 3.15%

(59):

ɑ(10), 16.94%
u^w(5), 8.47%
#ɑ(3), 5.08%
ɪ(2) 3.38%

First Syllable Segment Unstressed (25):

#k(3), 12.00%
n(2), #s(2) 8.00%

(25):

u^w(5), #ɪ(5), 20.00%
ə(4), 16.00%
ɑ(3), 12.00%
#ə(2) 8.00%

Second Syllable Segment Stressed (44):

ɹ(6), 13.63%
n(5), 11.36%
s(4), k^h(4) 9.09%

(22):

ɑ(9), 40.90%
u^w#(3), 13.63%
ɪ(2) 9.09%

Second Syllable Segment Unstressed (94):

s(7), 7.44%
n(6), k(6), 6.38%
k#(4), 4.25%
n#(3), ɹ#(3), 3.19%
ɹ(2), ɹ#(2) 2.12%

(52):

ə(10), 19.23%

ɪ(8), 15.38%

ɑ(3), 5.76%

u^w(2) 3.84%

Third Syllable Segment Unstressed (48):

n(5), 10.41%

ɹ(4), 8.33%

s#(3), 6.25%

n#(2), s(2) 4.16%

(27):

ə(6), 22.22%

ɪ(3), 11.11%

ə#(2), ɑ(2) 7.40%

Fourth Syllable Segment Unstressed (9):

s#(3) 33.33%

(6):

ə(2) 33.33%

Segment Total by Syllable

First Syllable Segment (120):

#s(19), 15.83%

k(11), 9.16%

n(10), 8.33%

ɹ(8), 6.66%

#n(5), #k^h(5), 4.16%

#ɹ(3), #k(3), 2.50%

s(2) 1.66%

(84):

ɑ(13), 15.47%

u^w(10), 11.90%

#ɪ(5), 5.95%

ə(4), 4.76%

#ɑ(3), 3.57%

#u^w(2), ɪ(2), #ə(2) 2.38%

Second Syllable Segment (138):

n(11), s(11), 7.97%

ɹ(8), 5.79%

k(6), 4.34%

k#(5), 3.62%

k^h(4), 2.89%

n#(3), ɹ#(3), 2.17%

ɹ#(2) 1.44%

(74):

ɑ(12), 16.21%

ɪ(10), ə(10), 13.51%

u^w#(4), 5.40%

u^w(2) 2.70%

Third syllable Segment (49):

n(6), 12.24%

ɹ(4), 8.16%

s#(3), 6.12%

n#(2), s(2) 4.08%

(28):

ə(6), 21.42%

ɪ(3), 10.71%

ə#(2), a(2) 7.14%

Fourth Syllable Segment (9):

s#(3) 33.33%

(6):

ə(2) 33.33%

Segment Stressed and Unstressed Total

Stressed Segment (140):

#s(17), 12.14%

n(14), ɹ(14), 10.00%

k(10), 7.14%

s(5), #k^h(5), 3.57%

#n(4), k^h(4), 2.85%

#ɹ(3) 2.14%

(82):

a(19), 23.17%

u^w(5), 6.09%

ɪ(4), 4.87%

u^w#(3), #a(3) 3.65%

Unstressed Segment (176):

n(13), 7.38%

s(10), 5.68%

k(8), 4.54%

s#(7), 3.97%

ɹ(6), 3.40%

n#(5), 2.80%

k#(4), 2.27%

ə̃(3), ə̃ɹ#(3), ɹ#(3), #k(3), 1.70%

#s(2) 1.13%

(110):

ə(22), 20.00%

ɪ(12), 10.90%

a(8), 7.27%

u^w(7), 6.36%

#ɪ(5), 4.54%

ə#(4), 3.63%

u^w#(2), #ə(2) 1.81%

Segment Total (absolute)

Narrow (388):

n(31), 7.98%

ɹ(28), 7.21%

#s(23), 5.92%

k(22), 5.67%

s(15), 3.86%

s#(11), 2.83%

#k^h(10), 2.57%

k#(8), 2.06%

n#(7), 1.80%

#n(5), 1.28%

#ɹ(4), k^h(4), 1.03%

ʔ(3), ʔɹ#(3), ɹ#(3), #k(3) .77%

(219):

ɑ(34), 15.52%

ə(22), 10.04%

ɪ(16), 7.30%

u^w(12), 5.47%

u^w#(5), #ɪ(5), 2.28%

ə#(4), 1.82%

#ɑ(3), 1.36%

#u^w(2), #ə(2), ɑ#(2) .91%

Broad (388):

n(49), s(49), 12.62%

k(47), 12.11%

ɹ(35) 9.02%

(219):

ɑ(40), 18.26%

ə(28), 12.78%

u(21), ɪ(21) 9.58%

607 total segments

Supra-Segments: Consonant Clusters

The most frequent consonant clusters were /st/ and /sk/.

Consonant Cluster Total for Stressed and Unstressed Syllables and Monosyllables according to Syllable Configuration

Monosyllable Consonant Cluster Onset (all entries are word initial) (12):

#st(2) 16.66%

First Syllable Consonant Cluster Stressed Onset (all entries are word initial) (21):

#sk(5), #st(5) 23.80%

Third Syllable Consonant Cluster Unstressed Onset (4):

st(2) 50.00%

Consonant Cluster Total for Stressed and Unstressed Onsets and Codas

Stressed Onset (25):

#sk(5), #st(5) 20.00%

Unstressed Onset (9):

st(2) 22.22%

Consonant Cluster Total for Onsets and Codas

Onset (46):

#st(7), 15.21%

#sk(6), 13.04%

st(2) 4.34%

Consonant Cluster Total for Stressed and Unstressed Syllables and Monosyllables

Monosyllable Consonant Cluster (22):

#st(2) 9.09%

First Syllable Consonant Cluster Stressed (21):

#sk(5), #st(5) 23.80%

Third Syllable Consonant Cluster Unstressed (5):

st(2) 40.00%

Consonant Cluster Total per Syllable

First Syllable Consonant Cluster (24):

#sk(5), #st(5) 20.83%

Third Syllable Consonant Cluster (5):

st(2) 40.00%

Consonant Cluster Stressed and Unstressed Total

Consonant Cluster Stressed (27):

#sk(5), #st(5) 18.51%

Consonant Cluster Unstressed (14):

st(2) 14.28%

Consonant Cluster Total (absolute)

Narrow (63):

#st(7), 11.11%

#sk(6), 9.52%

st(2) 3.17%

Broad (63):

st(9), 14.28%

sk(8) 12.69%

63 total consonant clusters

Supra-Segments: Whole Syllables

The most frequent whole syllables were /u/, /ə/, /səm/, and /ma/.

Whole Syllable Total for Stressed and Unstressed Syllables and Monosyllables

First Syllable Whole Syllable Unstressed (all entries are word initial) (26):

#ə(2) 7.69%

Second Syllable Whole Syllable Unstressed (61):

səm#(3) 3.27%

Whole Syllable Total per Syllable

First Syllable Whole Syllable (all entries are word initial) (86):

#u^w(2), #ə(2) 2.32%

Second Syllable Whole Syllable (86):

səm#(3), 3.48%

ma(2) 2.32%

Whole Syllable Stressed and Unstressed Total

Whole Syllable Stressed (86):

ma(2) 2.32%

Whole Syllable Unstressed (124):

səm#(3), 2.41%

#ə(2) 1.61%

Whole Syllable Total (absolute)

Narrow (238):

səm#(3), 1.26%

#u^w(2), #ə(2), ma(2) .84%

Broad (238):

u(3), ə(3), səm(3), ma(3) 1.26%

238 total whole syllables

Supra-Segments: Whole Words

Table f.-A

		Syllable			Receiving	Stress	
		None	First	Second	Third	Fourth	Fifth
Word Length Total							
Monosyllabic: 27							
Bisyllabic: 54		0	45	9			
Trisyllabic: 25		0	12	13	0		
Tetrasyllabic: 7		0	2	4	1	0	
Pentasyllabic: 0		0	0	0	0	0	0
Total: 113		0	59	26	1	0	0

Table f.-B

	Syllable			Receiving	Stress	
	None	First	Second	Third	Fourth	Fifth
Word Length Total						
Monosyllabic: 23.89%						
Bisyllabic: 47.78%	0	83.33%/76.27%	16.66%/34.61%			
Trisyllabic: 22.12%	0	48.00%/20.33%	52.00%/50.00%	0		
Tetrasyllabic: 6.19%	0	28.57%/3.38%	57.14%/15.38%	14.28%/100%	0	
Pentasyllabic: 0	0	0	0	0	0	0
Stressed Syllable Total:		68.60%	30.23%	1.16%	0	0

Table Key: The “Word Length Total” column figure represents the percentage of words that is of that word length. For the cells inside the “Syllable Receiving Stress” columns, the amount on top indicates what percentage of a particular word length was stressed on that syllable. The number on the bottom indicates, for all the words that received stress on a particular syllable, what percentage of these words were of a particular word length. The “Stressed Syllable Total” row indicates what percentage of words was stressed on a particular syllable. Note that monosyllables were not analyzed as receiving stress and the “None” cell in the “Stressed Syllable Total” row is inapplicable.

Question discussion.

For Question f. the most frequent segments were consonants /n/, /s/, /k/, and /ɹ/ and vowels /a/, /ə/, /u/, and /ɪ/. /n/ is an alveolar nasal. /s/ is a voiceless, alveolar fricative. /k/ is a voiceless velar plosive. /ɹ/ is an alveolar approximant. /a/ is an unrounded, lax, low, back vowel. /ə/ is an unrounded, intermediate, mid, central vowel. /u/ is a round, tense, high, back vowel. /ɪ/ is an unrounded, lax, high, front vowel. Most segments occurred in the first stressed, second stressed and unstressed and third unstressed syllables. Fewer occurred in the first unstressed syllable. The fourth unstressed syllable had the fewest and was lacking an onset. The unstressed segments outnumbered the stressed segments. In general, the onsets and nuclei contained more segments than the codas. The monosyllables were lacking /u/ and /ɪ/. (/ə/ can never appear in a monosyllable.) Syllabic /n/ appears in the second unstressed syllable nucleus. /s/ and /k/ were frequently word-initial and word-final. /ɪ/ showed quite a few word-initial

examples, which is unusual. The other segments tended to be word-medial for the most part. The most frequent consonant clusters were /st/ and /sk/. /t/ is a voiceless, alveolar plosive. /st/ occurred most frequently in monosyllables, word-initially, in the onset and in the first stressed syllable in the onset, word initial. It also occurred in the third unstressed syllable, word-medial. /sk/ occurred primarily in the first stressed syllable in the onset, word-initial. The most frequent whole syllables were /u/, /ə/, /səŋ/, and /ma/. /m/ is a bilabial nasal. /u/ occurred primarily in the first syllable, word-initial. /ə/ occurred primarily in the first unstressed syllable, word-initial. /səŋ/ occurred primarily in the second unstressed syllable, word final. It exhibited a syllabic /l/. /ma/ occurred most frequently in the second unstressed syllable, word-medial. For all 114 whole words there were no repeated words.

Results Data Sheet

Images Requiring Words



Question ID: g.

Below is a listing of the most frequent segments and supra-segments of this Question, the environments in which they appeared and the frequency with which they appeared in the indicated environments. In order to qualify for this data set, segments and supra-segments must have accounted for a minimum percentage of the broad total listed at the end of each section. The minimum values are as follows: consonants- >9%, vowels- >13%, consonant clusters- >8%, whole syllables- >1%. For a complete listing of the segments, supra-segments, environments and frequencies of this Question see the various Question g. data sheet sets in the appendix.

Segments

The most common consonants were /ɹ/, /s/, and /k/. The most common vowels were /ə/, /a/, and /ɪ/.

Segment Total for Stressed and Unstressed Syllables and Monosyllables according to Syllable Configuration

Monosyllable Onset (30):

#s(4), ɹ(4) 13.33%

Monosyllable Nucleus (22):

a(5) 22.72%

Monosyllable Coda (33):

k#(5), 15.15%

s(4), 12.12%

ɹ(3) 9.09%

First Syllable Segment Stressed Onset (73):

ɹ(13), 17.80%

#k^h(8), 10.95%

#ɹ(7), 9.58%

#s(6) 8.21%

First Syllable Segment Stressed Nucleus (58):

a(18), 31.03%

ɪ(10) 17.24%

First Syllable Segment Stressed Coda (28):

s(5), ɹ(5) 17.85%

First Syllable Segment Unstressed Onset (35):

#ɹ(5), 15.28%

#s(4), ɹ(4), 11.42%

#k(3) 8.57%

First Syllable Segment Unstressed Nucleus (34):

ə(14), 41.17%

ɪ(3), 8.82%

a(2) 5.88%

First Syllable Segment Unstressed Coda (7):
ɹ(2) 28.57%

Second Syllable Segment Stressed Onset (33):
ɹ(5), 15.15%
k^h(2) 6.06%

Second Syllable Segment Stressed Nucleus (28):
a(7), 25.00%
ɪ(2) 7.14%

Second Syllable Segment Unstressed Onset (71):
ɹ(9), 12.67%
s(6), 8.45%
k(4) 5.63%

Second Syllable Segment Unstressed Nucleus (64):
ə(13), 20.31%
ɪ(8), 12.50%
a(5), 7.81%

Second Syllable Segment Unstressed Coda (20):
s#(3) 15.00%

Third Syllable Segment Unstressed Onset (39):
ɹ(5), k(5), 12.82%
s(3) 7.69%

Third Syllable Segment Unstressed Nucleus (38):
ə(7), 18.42%
ɪ(6), 15.78%
ə#(2) 5.26%

Third Syllable Segment Unstressed Coda (18):
k#(4), 22.22%
s#(3), 16.66%
s(2) 11.11%

Fourth Syllable Segment Unstressed Onset (7):
k(2) 28.57%

Fourth Syllable Segment Unstressed Nucleus (10):
ə(2), ə#(2) 20.00%

Segment Total for Stressed and Unstressed Onsets and Codas

Stressed Onset (111):
ɹ(19), 17.11%
#k^h(8), 7.20%
#ɹ(7), 6.30%
#s(6), 5.40%
k^h(3) 2.70%

Stressed Coda (42):
s(5), ɹ(5), 11.90%
k(2) 4.76%

Unstressed Onset (152):

ɹ(18), 11.84%
k(11), 7.23%
s(10), 6.57%
#ɹ(5), 3.28%
#s(4), 2.63%
#k(3) 1.97%

Unstressed Coda (46):

s#(6), 13.04%
k#(4), 8.69%
s(3), 6.52%
ɹ(2), ɹ#(2) 4.34%

Segment Total for Onsets and Codas

Onset (293):

ɹ(41), 13.99%
#s(14), 4.77%
#ɹ(13), k(13), 4.43%
s(11), 3.75%
#k^h(10), 3.41%
#k(4), 1.36%
k^h(3) 1.02%

Coda (121):

s(12), 9.91%
ɹ(10), k#(10), 8.26%
s#(7), 5.78%
k(3), 2.47%
ɹ#(2) 1.65%

Segment Total for Stressed and Unstressed Syllables and Monosyllables

Monosyllable Segment (63):

ɹ(7), 11.11%
k#(5), 7.93%
#s(4), s(4) 6.34%

(22):

ɑ(5) 22.72%

First Syllable Segment Stressed (101):

ɹ(18), 17.82%
#k^h(8), 7.92%
#ɹ(7), 6.93%
#s(6), 5.94%
s(5) 4.95%

(58):

ɑ(18), 31.03%
ɪ(10) 17.24%

First Syllable Segment Unstressed (42):

ɹ(6), 14.28%

#ɹ(5), 11.90%

#s(4), 9.52%

#k(3) 7.14%

(34):

ə(14), 41.17%

ɪ(3), 8.82%

#ə(2), a(2) 5.88%

Second Syllable Segment Stressed (14):

ɹ(5), 35.71%

k^h(2) 14.28%

(28):

a(7), 25.00%

ɪ(2) 7.14%

Second Syllable Segment Unstressed (104):

ɹ(9), 8.65%

s(7), 6.73%

k(4), 3.84%

s#(3) 2.88%

(51):

ə(13), 25.49%

ɪ(8), 15.68%

a(5) 9.80%

Third Syllable Segment Unstressed (99):

s(5), ɹ(5), k(5), 5.05%

k#(4), 4.04%

s#(3) 3.03%

(32):

ə(7), 21.87%

ɪ(6), 18.75%

ə#(2) 6.25%

Fourth Syllable Segment Unstressed (10):

k(2) 20.00%

(8):

ə(2), ə#(2) 25.00%

Segment Total by Syllable

First Syllable Segment (143):

ɹ(24), 16.78%

#ɹ(12), 8.39%

#s(10), 6.99%

#k^h(9), 6.29%

s(5), 3.49%

#k(4), 2.79%

k(2) 1.39%

(92):
a(20), 21.73%
ə(14), 15.21%
ɪ(13), 14.13%
#ə(2), #a(2) 2.17%

Second Syllable Segment (118):
ɹ(14), 11.86%
s(8), 6.77%
k(5), 4.23%
s#(4), 3.38%
k^h(2) 1.69%

(79):
ə(13), 16.45%
a(12), 15.18%
ɪ(10) 12.65%

Third syllable Segment (105):
ɹ(6), k(6), 5.71%
s(5), 4.76%
k#(4), 3.80%
s#(3) 2.85%

(35):
ə(7), 20.00%
ɪ(6), 17.14%
ə#(2), a(2) 5.71%

Fourth Syllable Segment (10):
k(2) 20.00%

(8):
ə(2), ə#(2) 25.00%

Segment Stressed and Unstressed Total

Stressed Segment (121):

ɹ(24), 19.83%
#k^h(8), 6.61%
#ɹ(7), 5.78%
#s(6), s(6), 4.95%
k^h(3), k(3) 2.47%

(89):
a(26), 29.21%
ɪ(12) 13.48%

Unstressed Segment (255):

ɹ(20), 7.84%
s(13), 5.09%
k(12), 4.70%
s#(6), 2.35%
#ɹ(5), 1.96%
#s(4), k#(4), 1.56%
#k(3), 1.17%
ɹ#(2) .78%

(125):

ə(36), 28.80%
ɪ(17), 13.60%
ɑ(8), 6.40%
ə#(5), 4.00%
#ə(2) 1.60%

Segment Total (absolute)

Narrow (439):

ɹ(51), 11.61%
s(23), 5.23%
k(16), 3.64%
#s(14), 3.18%
#ɹ(13), 2.96%
#k^h(10), k#(10), 2.27%
s#(7), 1.59%
#k(4), .91%
k^h(3), .68%
ɹ#(2) .45%

(236):

ɑ(39), 16.52%
ə(36), 15.25%
ɪ(30), 12.71%
ə#(5), 2.11%
#ɪ(2), #ə(2), #ɑ(2) .84%

Broad (439):

ɹ(66), 15.03%
s(44), k(44) 10.02%

(236):

ə(43), 18.22%
ɑ(41), 17.37%
ɪ(32) 13.55%

675 total segments

Supra-Segments: Consonant Clusters

The most frequent consonant clusters were /st/ and /kɹ/.

Consonant Cluster Total for Stressed and Unstressed Syllables and Monosyllables according to Syllable Configuration

Monosyllable Consonant Cluster Onset (all entries are word initial) (9):

#st(2), #k^hɹ(2) 22.22%

Monosyllable Consonant Cluster Coda (all entries are word final) (10):

st#(2) 20.00%

First Syllable Consonant Cluster Stressed Onset (all entries are word initial) (19):

#k^hɹ(5) 26.31%

First Syllable Consonant Cluster Unstressed Onset (all entries are word initial) (5):

#st(2) 40.00%

Second Syllable Consonant Cluster Stressed Onset (7):

st(2) 28.57%

Third Syllable Consonant Cluster Unstressed Coda (2):

st#(2) 100%

Consonant Cluster Total for Stressed and Unstressed Onsets and Codas

Stressed Onset (29):

#k^hɹ(5), 17.24%

st(2) 6.89%

Unstressed Onset (11):

#st(2), st(2) 18.18%

Unstressed Coda (4):

st#(3) 75.00%

Consonant Cluster Total for Onsets and Codas

Onset (49):

#k^hɹ(7), 14.28%

#st(5), 10.20%

st(4) 8.16%

Coda (16):

st#(5) 31.25%

Consonant Cluster Total for Stressed and Unstressed Syllables and Monosyllables

Monosyllable Consonant Cluster (19):

#st(2), st#(2), #k^hɹ(2) 10.52%

First Syllable Consonant Cluster Stressed (19):

#k^hɹ(5) 26.31%

First Syllable Consonant Cluster Unstressed (5):

#st(2) 40.00%

Second Syllable Consonant Cluster Stressed (9):

st(2) 22.22%

Third Syllable Consonant Cluster Unstressed (3):

st#(2) 66.66%

Consonant Cluster Total per Syllable

First Syllable Consonant Cluster (24):

#k^hɹ(5), 20.83%

#st(3) 12.50%

Second Syllable Consonant Cluster (16):

st(3) 18.75%

Third Syllable Consonant Cluster (6):

st#(2) 33.33%

Consonant Cluster Stressed and Unstressed Total

Consonant Cluster Stressed (31):

#k^hɹ(5), 16.12%

st(2) 6.45%

Consonant Cluster Unstressed (15):

st#(3), 20.00%

#st(2), st(2) 13.33%

Consonant Cluster Total (absolute)

Narrow (65):

#k^hɹ(7), 10.76%

#st(5), st#(5), 7.69%

st(4) 6.15%

Broad (65):

st(14), 21.53%

kɹ(9) 13.84%

65 total consonant clusters

Supra-Segments: Whole Syllables

The most frequent whole syllable was /ɹɑ/.

Whole Syllable Total for Stressed and Unstressed Syllables and Monosyllables

First Syllable Whole Syllable Stressed (all entries are word initial) (58):

#ɹɑ(4) 6.89%

Second Syllable Whole Syllable Stressed (30):

ɹɑ(2) 6.66%

Whole Syllable Total per Syllable

First Syllable Whole Syllable (all entries are word initial) (92):

#ɹɑ(4) 4.34%

Second Syllable Whole Syllable (92):

ɹɑ(2) 2.17%

Whole Syllable Stressed and Unstressed Total

Whole Syllable Stressed (91):

#ɹɑ(4), 4.39%

ɹɑ(2) 2.19%

Whole Syllable Total (absolute)

Narrow (257):
#**ɪ****ɑ**(4) 1.55%

Broad (257):
ɪ**ɑ**(6) 2.33%

257 total whole syllables

Supra-Segments: Whole Words

Whole Word Total per Word Length

Whole Monosyllables (22):
forst [fɔɪst](2) 9.09%

Whole Word Total (absolute)

Broad (114):
forst [fɔɪst](2) 1.75%

Table g.-A

	Syllable Receiving Stress					
	None	First	Second	Third	Fourth	Fifth
Word Length Total						
Monosyllabic: 22						
Bisyllabic: 51	0	42	9			
Trisyllabic: 31	1	14	16	0		
Tetrasyllabic: 10	0	2	5	3	0	
Pentasyllabic: 0	0	0	0	0	0	0
Total: 114	1	58	30	3	0	0

Table g.-B

	Syllable Receiving Stress					
	None	First	Second	Third	Fourth	Fifth
Word Length Total						
Monosyllabic: 19.29%						
Bisyllabic: 44.73%	0	82.35%/ 72.41%	17.64%/ 30.00%			
Trisyllabic: 27.19%	3.22%/ 100%	45.16%/ 24.13%	51.61%/ 53.33%	0		
Tetrasyllabic: 8.77%	0	20.00%/ 3.44%	50.00%/ 16.66%	30.00%/ 100%	0	
Pentasyllabic: 0	0	0	0	0	0	0
Stressed Syllable Total:		63.73%	32.96%	3.29%	0	0

Table Key: The “Word Length Total” column figure represents the percentage of words that is of that word length. For the cells inside the “Syllable Receiving Stress” columns, the amount on top indicates what percentage of a particular word length was stressed on that syllable. The number on the bottom indicates, for all the words that received stress on a particular syllable, what percentage of these words were of a particular word length. The “Stressed Syllable Total” row indicates what percentage of words was stressed on a particular syllable. Note that monosyllables were not analyzed as receiving stress and the “None” cell in the “Stressed Syllable Total” row is inapplicable.

Question discussion.

For Question g. the most frequent segments were consonants /ɹ/, /s/, and /k/ and vowels /ə/, /a/, and /ɪ/. /ɹ/ is an alveolar approximant. /s/ is a voiceless, alveolar fricative. /k/ is a voiceless velar plosive. /ə/ is an unrounded, intermediate, mid, central vowel. /a/ is an unrounded, lax, low, back vowel. /ɪ/ is an unrounded, lax, high, front vowel. Most segments were located in the first stressed and unstressed syllables and the second and third unstressed syllables. The second stressed syllable and the fourth unstressed syllable were both much smaller and missing a coda. The unstressed segments outnumbered the stressed segments. The onsets and the nuclei housed more segments overall than the codas. The monosyllables were an exception to this. They also had every segment present except for /ɪ/. (/ə/ can never be present in a monosyllable.) /k/ and /s/ were evenly split between word-initial, -medial and -final positions. /ɹ/ occurred primarily in word-medial positions. The vowels occurred almost always in word-medial positions. The most frequent consonant clusters were /st/ and /kɹ/. /t/ is a voiceless, alveolar plosive. /st/ occurred in monosyllables word-initially in the onset and word-finally in the coda. It occurred word-initially in the first unstressed syllable onset and word-medially in the second stressed syllable onset. It occurred word-finally in the third unstressed syllable coda. /kɹ/ occurred in monosyllables word-initially in the onset. It also occurred word-initially in the first stressed syllable onset. The most frequent whole syllable was /ɹa/. It occurred in the first stressed syllable, word-initial, and in the second stressed syllable, word-medial. Among all the Questions, this was the only one to have an example of a repeated whole word

CHAPTER 5

DISCUSSION

Experimental Conclusions

*Part 1: Words Requiring Definitions*¹⁸

Questions A., B., C., and D.- monosyllables

A. smitch [smɪtʃ].

There appears to be something about *smitch* that suggested 1) smallness or limitation 2) an objectionable person or action 3) a spot or blemish or 4) something harsh to the participants. Overall the word seemed to carry an essentially negative connotation.

B. jube [dʒu^wb].

For the participants, the word *jube* was reminiscent of something round, something fruit-like or a quick movement. It should be noted that the sound similarities between *jube* and the candy *Jujubes* was an utter coincidence. It was not realized until after the interview process had already ended that this was even a potential area of interference. Considering some of the definitions given that fell under the **pertaining to fruit** and **candy** categories, I strongly suspect that these definitions were the result of extra-stimulus motivation that the participants could not look past.

¹⁸Questions A.—R. were designed prior to the formulation of the antonymic hypothesis.

C. keeve [k^hiv].

There is something in *keeve* that suggested, on the one hand, lowness or sinking or, on the other hand, a piercing or cutting that can be either literal or figurative. Some participants also perceived a general violent action. This is potentially related to the piercing or cutting aspect. Finally, a smaller but significant group interpreted the sounds as being representative of food, particularly a fruit or, less frequently, bread.

D. wam [wam].

Wam presented two main branches of meaning: 1) a noise or impact and 2) peace and comfort. There are also noteworthy trends relating to food (primarily Asian), water and activities relating to water, large spaces and finally, emotional discontent.

Monosyllable discussion.

Of the four monosyllables, Question B. presented the only evidence for possible iconism with its largest category, **a round shape**, amounting to nearly 33% of all responses. Hypothetically speaking, the combined presence of the rounded vowel with the bilabial plosive, which can cause the lips and cheeks to inflate when held closed, could be iconically consistent with something that was described by so many participants as round. Considering the presence of the bilabial plosive, the only connection between the antonymic hypothesis and the category of **a round shape** that can be offered is that this consonant is a stop as opposed to a continuant which allows for the inflation of the lips and cheeks already mentioned. This is highly speculative, however, and does not conform well to the stated parameters of the hypothesis. The words that possibly inspired extra-stimulus motivation for the category **a round shape** were *boob* and *tube*. Questions A., C. and D. did not present any convincing evidence for iconism. Question C. exhibited evidence that seemed to conflict with the antonymic hypothesis. Its top

category, **a hole, depression or falling**, is phonosemantically antithetical to the high vowel in its nucleus, its only vowel. A possible explanation for this seeming contradiction is that the participants were influenced by extra-stimulus motivation: *cave*. All four Questions could have been influenced in the same manner. All the suggested words of interference can be viewed in the *Results* chapter. Arbitrary designation was undoubtedly a factor in this tetrad.

Questions E., F., G., and H.- bisyllables

E. easloff ['iːz · lɔf].

For the participants, this word suggested elevation or superiority in position in a literal, physical sense. Another important branch of meaning is encapsulated by relaxation and leisure. Other branches include food, religion (of the Middle East in particular), load bearing and moving and, perhaps related to this, quick movement.

F. kedid ['kʰɛ · rəd].

There are two large branches of meaning in Question F.. First, there was something that suggested to listeners the concept of distance, be it great or small. The second branch, not wholly unrelated, suggested limitation, truncation and feelings of restriction. There is also clustering around the concepts of food, sports, and the related concepts of impact, damage and disfigurement. Question F. appeared to be one of the purer questions in this data set in terms of the interference that English might have played in its definitions.

G. mavar ['meː · vaɪ].

Mavar suggested to many participants elements of boats or sailing. Many envisioned a color, typically a bright one. Others found something in Question G. that reminded them of food, frequently dairy. Other semantic groupings included sharp or pointed things, discontent, flying (which could be related to sailing), the intellect, animals and something picturesque.

H. eyeyu ['aⁱ · ju^w].

Upon hearing the word *eyeyu*, a fair group of participants perceived an element of water or something water-related. For an even larger group, the word was suggestive of a land-based animal, though it is difficult to be any more precise for this category. There was also a tendency to associate Question H. with Eskimos and the arctic. Finally the word sounded to several participants as though it should be a type of salutation.

Bisyllable discussion.

Question E. presented the only evidence for iconism among the bisyllables with its category, **elevation or a superior position**, comprising over 18% of the total number of responses. Relative to the antonymic hypothesis, the word-initial, high vowel of Question E. is iconically consistent with the theme of this greatest category. The words that might have interfered with this category through extra-stimulus motivation were *loft* and *lift*. Questions F., G. and H. were not evaluated as having any iconic elements. Potential areas of extra-stimulus motivation were identified for all four Questions. All the suggested words of interference can be viewed in the *Results* chapter. The presence of arbitrary designation was undeniable in this tetrad.

Questions I., J., K., and L.- trisyllables

I. narathooze ['næ · ɹə · θu^wz].

There seems to have been something about *narathooze* that suggested medication or medical procedures, particularly those of the nose. Related to this is the category of confined passageways which is also consistent with the nose. Other trends included mental acuity, festivity, sleep and the related storytelling. Owing to the number of people who associated Question I. with a nasal spray, I think this is an indication of one of the practical applications of

phonosemantic studies: its use in marketing through making determinations regarding the appropriateness and reception of product names.

J. phillontave ['fɪ · lən · tʰeɪv].

This was one of the least fertile Questions of the data set for finding patterns. What patterns were present indicate that Question J. suggested 1) some kind of tool, usually a simple, mechanical one or 2) some kind of liquid adhesive.

K. lulurode ['luʷ · lə · ɹoʷd].

There is something in Question K. that was suggestive of something twisty or serpentine. Another branch of meaning circled around games and play. Still another significant branch clustered around a small flower, frequently purple or a related color. There were two smaller categories as well. The first was comprised of definitions all sharing common elements of dance, which could be related to the games category. The second category involved great size and mass.

L. goxiwall ['gak · sə · wɔɫ].

There appears to have been something in Question L. that was reminiscent of something that was different than is customary. On a related note, there was also an element of fear or negative outcome. Almost half of all definitions contain these elements. Another large branch includes animals of various types. The animals mentioned are too diverse to draw precise interpretations. The remaining categories include adhesives, architecture and various types of food and drink.

Trisyllable discussion.

Questions I. and K. both presented large categories. The largest of Question I., **a medical procedure, medicine or an illness**, comprised over 31% of the total number of responses. There

was nothing in Question I.'s top category that could be identified as iconic. Two smaller categories of Question I., **the nose**, and **a confined passageway**, could, theoretically, be candidates for iconicity. In terms of the antonymic hypothesis, given that definitions related to the nose and tight spaces were so frequent, it's possible that the homogenous nature of this word in terms of its continuants might iconically represent the flow of air through the nasal passage. Extra-stimulus motivation could have been a factor in these categories: *snooze*, *narrow*. The largest category of K., **windy, twisty or curvy**, comprised over 29% of the total number of responses. There also could have been interference from the word *loop*. Question L.'s top two categories, **fantastical, non-sensical or different than the norm, something to be feared or otherwise negative**, accounted for nearly half of its responses. Regarding the antonymic hypothesis, there were several phones, consonants and vowels, with back articulations which could be iconic of darkness, obscurity or things hidden and, by extension, fear. Question J. was one of the least compelling Questions of the first part as far as indications of iconicity. Question K. on the other hand could have been host to iconic processes with the connection between the reduplication of the first and second syllables and its top category. The concept of something winding or twisting back on itself is a reduplicative process. No relations can be drawn between the antonymic hypothesis and Question K. Potential words of extra-stimulus motivation were isolated for each Question. All the suggested words of interference can be viewed in the *Results* chapter. Arbitrary designation was widespread in this tetrad.

Questions M., N., O., P., Q., and R.- tetrasyllables

M. cengastumine [sɪn · 'gæs · tə · maɪn].

For many participants, there was something in Question M. suggestive of gastrointestinal disease. There also appears to be something in it that reminded people of minerals, mines and

trenches, chemicals, warfare and, combining everything in a most logical way, chemical warfare. There was also an intriguing category centered on duplication.

N. poncrilader ['pʰaŋ · kɪə · leʲ · rəʔ].

There is one great over-arching trend with this Question: the almost irresistible urge to define Question N. as some type of machine. The only exception of any size was the small category of intellectual issues. This seems to be unrelated to the machine trend and therefore could potentially be thought of as a more legitimate candidate for a phonosemantic trend.

Looking beyond the interference of the *-er* suffix, there could be deeper trends lurking in the types of machines selected. For instance, the category of domestic tools was quite large. The measuring device category was also decently-sized. Another tendency was for the machines to favor the complex over the simple. Almost all tools and machines mentioned would involve several moving parts.

O. bowerilldew [ba · wə · 'tʰɪl · duʷ].

There seems to have been something in Question O. that evoked elements of farming and planting. There was also something in it which was reminiscent of tools, particularly agricultural tools. For fewer people, it suggested the deferral of an activity. Other minor semantic clusters included modes of transportation, nobility and fantasy worlds (which frequently go hand-in-hand), wooded places which is potentially related to farming and fantasy worlds and, finally, clothing.

P. chocksaheeb ['tʃak · sə · hi · bəʔ].

There seems to have been something in Question P. that suggested clusters or piles of repeated objects. It also frequently evoked images of food, particularly candy. The food and pile categories are probably not unrelated. In addition to this, the sounds of the Question P.

suggested a tool to some, Indians to others. There was a fair bit of interrelatedness between these two categories. Various types of animals, emotions and physical activities rounded out the significant categories.

Q. whoagsafflerick [wo^wg · 'zæ · fəʔ · ɹɪk].

For many participants, Question Q. suggested something negative. Often this negativity was defined as an emotion of some type, though other, non-negative emotions were mentioned, too. For others, this question was suggestive of some kind of tool or machine. A substantial amount of participants perceived an animal or, probably related to this, something furry or fuzzy. There was a smaller group whose responses clustered around textiles which could also be related to the animal and fuzzy categories. A smaller group thought of things pertaining to different varieties of spectacle-type entertainment, frequently like one would see on a stage. Finally, a substantial group was reminded of things pertaining to water.

R. tobecraydrub [t^ho^w · bæ · 'kɹeɪ · dɹəb].

Question R. suggested to over half of the participants related elements of massiveness and impeded motion. Many of these same definitions also had aspects of darkness and cold. Other semantic clustering occurred around varieties of food, plants, animals, disease and misfortune, and storage. The storage category could be related to impeded movement.

Tetrasyllable discussion.

Questions M. and N. were replaced by Q. and R. because their potential for evoking extra-stimulus motivation was judged to strong. Therefore, no reliable conclusions can be drawn from them. Question R. exhibited the greatest potential for iconicity. The three interrelated top categories- **massive, oversized or relatively large, cold, dark or hard and impeded movement, confinement or slow** accounted for roughly half of all responses. These all share

elements of large size and impeded motion. Question R. exhibited 5 total stop consonants. If there is an iconic force in this question, this is what I hypothesize to be it. The lack of flow is evident during articulation. This connection is something the antonymic hypothesis would predict. Question P. also presented an interesting result with its top category, **a cluster, pile or group of repeated objects**, comprising nearly 29% of the total number of responses. There are three phones articulated low in the back followed two high and in front. If this is viewed through the lens of the antonymic hypothesis, this could be iconic of the stature of the pile from its base to its apex. This is highly speculative, though. Question P.'s top category could have been influenced by *heap*. Neither Question O. nor Q. showed any evidence for iconism in terms of the antonymic hypothesis. Question Q. was not suspected of wide-spread extra-stimulus motivation however while this might have been possible with Question O.. This tetrad, especially R., presented some of the best evidence of the first part. With every Question there was the possibility of extra-stimulus motivation, although with this group it was the slightest of all four syllable lengths. All the suggested words of interference can be viewed in the *Results* chapter.

General Remarks-Part 1: Words Requiring Definitions

There was a tendency for the longer words (tri-and tetrasyllables) to present fewer opportunities for extra-stimulus motivation. This seems to be because the longer a word is, the easier it is to construct a word that little resembles anything real. There were a few examples present that might offer support for the antonymic hypothesis, with Question R. offering the strongest evidence. These were so few in number however that nothing definitive can be said regarding this. There were many Questions that did not offer any evidence of iconism and all eighteen Questions of part one could have been influenced to some extent by extra-stimulus motivation. This is more likely with some than others. There is a chance that more evidence of

iconism could have come out of part one if this interference had been curtailed. Regardless, the evidence in favor of iconism coming from the first part is extremely isolated and, where it is found, it is never overwhelming. The only overwhelming aspect of part one is the impact that arbitrary designation had on the data.

*Part 2: Definitions Requiring Words*¹⁹

Questions S., T., and U.- the three states of matter: solid, liquid, gas

S. the wad of hair removed when cleaning a hairbrush.

Question S. presented two frequent consonant clusters: /sk/ and /gl/. The former was seen again only once in a Question from part 3 while the latter was unique to this Question. How to classify the velar consonants is uncertain. In terms of the antonymic hypothesis, the abundance of velar consonants could be significant but the connection is difficult to make. A wad of hair is light and airy so this seems contradictory. Extra-stimulus motivation can not be ruled out of the process by which these clusters were formed: *skim, skinny, gloop, glop*, etc.

T. the grease that accumulates on top of a hot pizza.

Question T. presented one frequent consonant cluster that was unique to it: /sl/.

Statistically this cluster was the most frequent of all clusters in the second part. The fact that both phones are continuants could be significant for the antonymic hypothesis. This could represent the flow of the liquid. Extra-stimulus motivation was a possibility: *slime, slick, slide*, etc.

¹⁹ Only selected consonant clusters are discussed here. See *General Remarks-part 2* below for a discussion of the remaining consonant clusters plus the segments and whole syllables.

U. an unexpected cool breeze on a sultry day.

Question U. presented one unique, frequent consonant cluster: /sw/. The fact that both phones are continuants could be significant for the antonymic hypothesis. The articulations of the alveolar fricative and the labial-velar approximant could be seen as iconic of the flow of air. Extra-stimulus motivation was a possibility: *swish, swash, swirl, swoon, sweat*, etc.

Questions V., W., and X.- three primary emotions: joy, sadness, fear

V. the feeling experienced by a death-row inmate after being pardoned or exonerated.

Question V. presented no unique consonant clusters. /gɹ/ was statistically rare however, being present in only one other Question. No connections between the antonymic hypothesis and this cluster could be made. Extra-stimulus motivation was a likely factor: *groan, grief, grovel, grant, grateful*, etc.

W. a feeling of extreme disappointment.

Question W. was the other environment that frequently hosted cluster /gɹ/. This cluster could present evidence that is consistent with the antonymic hypothesis. The velar plosive is situated in the back of the mouth in relative darkness which could be iconic of the sentiment. Extra-stimulus motivation may very well have been a factor: *growl, groan, grudge*, etc.

X. the feeling of being woken in the middle of the night by a strange noise.

Question X. presented no unique, frequent clusters. /kɹ/ was present here and in one other Question in this section. No connections between the antonymic hypothesis and this cluster could be made. Extra-stimulus motivation was a possibility: *cry, croak, creep, scream, screech*, etc.

Question Y.- independent: isolation

Y. the name of the remotest island on earth.

Question Y. presented one unique cluster: /kl/. No connections between the antonymic hypothesis and this cluster could be made. Extra-stimulus motivation was a possibility in this case: *clear, cloud, cloister*, etc.

General remarks-part 2: definitions requiring words.

All seven Questions from the second part tended to favor the same consonants and vowels with little exception. They were not identical for each Question but they were consistently selected from the same pool of five consonants /s, ʃ, k, l, n/ and three vowels /ɪ, ɑ, ə/. These consonants and vowels happen to be roughly identical to the ones most frequently used in English (Whissell, 1999). The most likely explanation for this is that the words were created within an English framework of extra-stimulus motivation. A great effort was made to prevent this from happening but it may not have been enough. If direct extra-stimulus motivation was not the cause, this leads to the difficult question of what force or motivation did cause the participants to use these consonants and vowels. It would be very challenging to explain why the participants fell back on these sounds. The difficulty in making a case for iconism under these circumstances is twofold: the general lack of contrast in the responses from English and the lack of antonymic contrast among the consonants and vowels that were used. Iconism per the antonymic hypothesis necessitates articulations from the extreme ends of the vocal apparatus or an abundance of stops or continuants. This is how the readily identifiable characteristics of antonymic contrast come into play. Most of these consonants and vowels on the list, the ones so common in English, don't meet these criteria. There are some exceptions, like the seemingly ubiquitous low, back vowel /ɑ/ and the velar plosive /k/. However, most of

these sounds are not conducive to the required contrast and the presence of a few potential iconic exceptions fails to render the group more iconically viable to any significant degree.

One tentative idea to explain this trend, though it has nothing to do with iconism, is that these sounds were created as a matter of habit in English speakers. If the participants were not semantically associating the stimulus with real words and there were no iconic forces at work, the unconscious predilection for familiar sounds may have been impossible to circumvent. The fact that sounds not native to English were rare, especially among native speakers, could support this idea. But, the difference between this situation and the participants blatantly using English as their model is very fine; it's impossible to say where the subconscious preference for familiar sounds would end and the willful decision to use actual words begins. Non-native speakers of English did utilize more non-native English sounds in their responses but, given the behavior of the English speakers, this is not surprising. The possibility for iconism in part two is an exceptionally slim one. The only certainty here is that arbitrary designation played a large if not exclusive role in the creation of the words.

There were two exceptions to the above trend among the segments. The first involved the vowel /i/ from Question U. This was the most frequent vowel for this Question which is the only reason why it is being singled out. It is one of the phones that conforms to the antonymic hypothesis. In this particular question this high vowel could be iconic of the wind high above one's head as well as of the high temperature. The second was the consonant /d/ from Question W. Unlike the previous example, no antonymic connections were identified with this segment. The stimuli were designed to be highly varied so the fact that the participants used largely the same sounds to represent high levels of variation is strong evidence against iconism. Extra-

stimulus motivation could have snuffed it out but this can not be proven. The most likely answer in this situation is that there was no iconism present.

The consonant clusters that were specific to one or two Questions were discussed above. Ones that were used several or all Questions were not discussed for the same reason that the consonants and vowels spread over several or all Questions were not discussed. Considering the segments, consonant clusters and whole syllables, the clusters seem to have the most iconic potential but even here it is exceptionally tenuous. They did demonstrate the most diversity among themselves. Almost every Question bore a consonant cluster that was specific to it. The situation with the clusters is interesting given that what is traditionally defined as a phonestheme is also a consonant cluster. Phonesthemes can include a vowel, turning them into part or all of a whole syllable, but this is not as frequent as the basic consonant cluster. Based on the present data, it appears that clusters, a traditional focus of phonosemantic studies, do demonstrate more potential for iconism compared to sound segments and whole syllables. Even so, these clusters fail to present convincing evidence confirming the existence of iconism. The best evidence part two has to offer is that which supports arbitrary designative processes.

The whole syllables presented the same problem as the segments in that they were not unique to a particular Question. The schwa was nearly ubiquitous which was not surprising given the apparent influence of English. Another problem common to the whole syllables was their length. They were all composed of either one or two segments with a single, three segment example. The three segment example came from a Question that exhibited eleven equally frequent whole syllables. It is the preponderance of examples such as this which present the combination of common constituents and short length which leads to the whole syllables' failure to provide any evidence for the existence of iconism. Statistically speaking, the shorter a

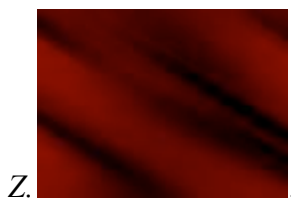
syllable is, the more common it is bound to be because there are fewer criteria to replicate. A longer syllable, of four or more segments for example, would statistically be much more difficult to account for by chance. In addition, when taken into account that even the most frequent whole syllables almost always accounted for less than two percent of the total number of whole syllables for any given Question, it becomes clear that the whole syllables do not present much evidence in favor of iconism.

On the whole word level, there was nothing remarkable about the manner in which word length or stress was manifest in any Question. There were Question to Question variations, but none were deemed phonosemantically significant. There were always more mono- and bisyllables than tri-, tetra- and pentasyllables, which is to be expected. Stress patterns tended to mimic those of English according to the length of the word.

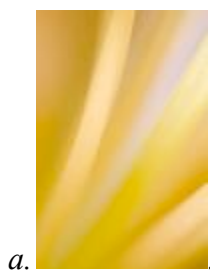
If any definitive conclusions are to be drawn, it could only be that the data presented strong evidence for arbitrary designation. The evidence for iconism was uniformly spotty and ever subject to extra-stimulus motivation. This renders it untrustworthy as far as it's ability to make a positive case for phonosemantic processes.

Part 3: Images Requiring Words²⁰

Questions Z., a., and b.- color dominant; the three primary colors: red, yellow, blue



Question Z. presented no frequent, unique consonant clusters. It does contain the cluster /bl/, which was also present in another Question of the third part. No connections between the antonymic hypothesis and this cluster could be made. Extra-stimulus motivation can not be counted out: *blush, blaze, blanket, blood*, etc.



Question a. presented two frequent consonant clusters. /fl/ was unique to it and /bɹ/ was observed in one other Question of this section. Through the lens of the antonymic hypothesis, the front articulation of the bilabial in the second cluster could be iconic of light or brightness. Extra-stimulus motivation was a possibility here: *flare, flash, fly, flower, fluorescent, brilliant, bright*, etc.

²⁰ Only selected consonant clusters are discussed here. See General Remarks-part 3 below for a discussion of the remaining consonant clusters plus the segments and whole syllables.



Question b. presented two frequent consonant clusters: /bl/ and /pl/. The former was found in another Question from this part and the latter was unique. No connections between the antonymic hypothesis and these clusters could be made. It is possible that extra-stimulus motivation affected these clusters. Obviously *blue* might have been one of these influences. Others include *placid*, *plesiosaur*, *pluvial*, etc.

Questions c., d., and e.- a balance between abstract shapes and colors



Question c. presented two frequent clusters: /bɹ/ was found in one other Question of this section and /fɹ/ was unique. No connections between the antonymic hypothesis and these clusters could be made. Extra-stimulus motivation could have influenced the responses: *bramble*, *briar*, *bright*, *broken*, etc.



Question d. presented two unique, frequent clusters: /sw/ and /skw/. They are among the most similar pairs found in all the data. Relative to the antonymic hypothesis, the first cluster could be iconic due to its composition of continuants. Though the second cluster has the same

continuants, it also contains a stop which makes it non-conforming to the hypothesis. This Question is one where I suspect even more influence of extra-stimulus motivation than normal, particularly from *swirl* and related forms. *Swish, swash, swipe, sweep, squiggle, squeegee, squirt*, etc. It is possible that the <S> shape of the image inspired some to use this consonant.



Question e. presented no frequent, unique consonant clusters. /tʌ/ was present here and in another Question of this part. No connections between the antonymic hypothesis and this cluster could be made. Extra-stimulus motivation could have played a part here: *trace, track, trail*, etc.

Questions f. and g.- shape dominant



Question f. presented one unique, frequent consonant cluster: /sk/. There could be iconic processes occurring with this cluster. No connections between the antonymic hypothesis and this cluster could be made. Extra-stimulus motivation could have influenced this cluster: *skeleton, skull, scuff, scrub, scratch, scrap, scrape, scour*, etc.



Question g. presented no frequent, unique clusters. It did exhibit cluster /st/ which was one of the most unremarkable, widespread clusters throughout all the data. The reason why this cluster merits attention here is because unlike all the other Questions, g. contained 14 examples of it. This was the highest frequency for any single cluster in all the data. No connections between the antonymic hypothesis and this cluster could be made. Extra-stimulus motivation could have been a factor, however. I suspect that *rust* might have influenced the judgments of many participants as this cluster was frequently appeared in word-final position.

General remarks-part 3.

As above, all eight Questions from the third part tended to favor the same consonants and vowels with little exception. They were not identical for each Question but they were consistently selected from the same pool of five consonants /s, ʃ, k, l, n/ and three vowels /ɪ, a, ə/. The discussion above in the *General Remarks* section of Part 2 outlining possible reasons why this may have been the case applies here to. Please see that discussion again if necessary. As above, there are also two exceptions to this trend. Question b. had vowel /i/ among its most frequent segments. Unlike above, there is no explanation involving the antonymic hypothesis for why the vowel appeared with such regularity here. Question e., the other exception, exhibited consonant /t/ among its most frequent segments. While there is a crossing of lines that resembles the letter <T>, this really does not seem like a satisfactory explanation. No worthwhile explanation involving the antonymic hypothesis can be offered for this consonant's

frequency. The situation with the consonant clusters in part three was essentially the same as in part two. See the General Remarks section of part two for further discussion of the clusters. The situation with the whole syllables and whole words was essentially the same as above. One minor difference was that there were no frequent whole syllables of three segments in part three, only one or two. Any conclusions that could be drawn from the data in part three would have to involve an affirmation of overwhelming arbitrary designation, as in part two.

Experimental Conclusions Summary

Data which presented potential evidence for iconism and the antonymic hypothesis was hard to come by in all three parts. From part one, Questions B., K., and R. offer the best evidence with R. being the strongest among that group. From part two, Questions T. and X. are the strongest. From part three, Questions a. and f. offer the best evidence. But even the best evidence the data has to offer does not shift the favor towards the existence of iconism. The data shows without a doubt that arbitrary designation is a powerful force. Of the meager amounts of evidence that could potentially support the antonymic hypothesis, the most compelling is Question R. in my opinion. This accounts for such a small percentage of the data though that it is difficult to call the results anything other than powerful evidence for arbitrary designative processes. The only way further experimental endeavors could be justified would be if more Questions like R. could be developed that bare scant resemblance to existing words and these were utilized in the strictest of interview protocols where extra-stimulus motivation could be held to an absolute minimum.

The Present Experimental Process in Hindsight

Throughout the experimental process, I became aware of certain things I had done that I wished I could do over again in a different way. I'm including the following section for the primary benefit of those who read this research and decide they are interested in a similar undertaking. I want to pass on what I've learned through experience so that their experience might be improved and the field of phonosemantics might be advanced. The stages of the experimental process that I would most like to change are the Question creation stage and the interview stage. I will address the question creation stage first.

Regarding invented words that require definitions, it is my determination that monosyllables and bisyllables should be avoided altogether when pursuing an experimental model similar this one. It is just too difficult to invent words of this length that do not bear a close resemblance to real words. Trisyllables should be approached with caution but, with attention to detail, a unique sounding word can be created. Tetrasyllables are the ideal length in my opinion, and this was borne out in the present research. In fact, if a researcher wished to use only tetrasyllables, I think this would be fine.²¹

When creating the words I used in this research I spent considerable time and effort appraising permutation after permutation trying to invent words that were not reminiscent of existing words. In hindsight, I wish I had invested even more into this process. Even if it takes several hours just to arrive at one pristine word, this would be time well spent. When engaged in this process I think it would be a good idea to keep a comprehensive dictionary close by so that

²¹ I selected one of the monosyllables, Question B., to be among the best examples of positive evidence for iconism. In the bigger picture, it still does not offer very strong evidence as it probably was influenced by extra-stimulus motivation. In the future I would circumvent this dilemma by abstaining from monosyllables completely.

one might know for sure if the individual syllables and the complete words one creates are truly original.

Apart from designing something original, one must also incorporate an articulatory theme into each word. Even though I invested much in designing words with particular articulatory features, I wish I would have done even more. I would recommend creating words in accordance with the antonymic hypothesis, focusing on themes of front articulations, back articulations, high articulations, low articulations, front to back, high to low, all stops, all continuants, etc. Be methodical in trying out different combinations. This kind of focus will simplify one's evaluations and lead to more solid conclusions. Anyone considering this type of research should anticipate a lengthy process when creating words.

For invented definitions that require created words, I don't feel it is absolutely necessary to have a theme for various sub-groups the way I did. While it is good for organizational purposes, it did not appear to have any effect on the interview process. I also think one would be better off creating definitions that are more semantically focused than a couple were in the present research. One must still be certain that the invented definition does not resemble any real definitions too closely. But, the more focused a definition is, the easier it will be to draw conclusions from. One can expect for this process to take some time to complete.

When selecting images for which participants will be required to create a word, I also determined the simpler the better. Images that are extremely busy will be difficult to evaluate because one can never be certain if it was one, several or all aspects that influenced the decision of the participant. One must also be careful to not select images that are too simple as this could lead to the same results as asking participants to define invented monosyllables. This process will require a significant investment of time just like the first two.

The interview process is very important to the success of a project like this one as this is where the all data is gathered and there are several things I would do differently. Even though I don't see the age of the participants as being a crucial factor in the integrity of the data, I would have liked to interview more middle aged and elderly people and not so many young people. A perfectly balanced group in terms of age and gender is ideal. Prior to the actual interview, I think it would be a good idea to have written directions available, explaining the entire process to the participant. This way there is assurance that each participant was informed of the same information in the same manner. The room in which the interviews take place needs to be different than what I had had access to. Ideally, the interview should take place in an empty room where there is nothing on the walls or any other kind of decorative distraction, something similar to an interrogation room although it doesn't have to be referred to in that manner for the interview. The reason is because when asking participants to create words and definitions from scratch, their mind will be frantically grasping for ideas to form an answer to the stimulus. In this desperation, if there are words or pictures on the walls, the participants could easily cheat instead of relying on their own linguistic creativity, which is the whole point of the experimentation. I tried to be vigilant when it came to identifying occurrences of extra-stimulus motivation. But, in hindsight, I wish I had been even more selective of what constituted an acceptable response. It's hard to be too selective when it comes to this. One should never be reticent to ask a participant to try again.

Ideas for Future Experimentation

When it comes to the manner of experimentation used in the present research, the field of phonosemantics is still largely virgin territory. These are some ideas for future endeavors. One manner of experimentation that has not been tried much is a truly cross-linguistic approach that includes not only different languages within a language family but transcends language families. There have been some lexical, cross-linguistic studies that included various European languages plus one Asian language, such as Magnus (2001) for example. But there have been very few invented word and definition studies that systematically involved participants from multiple, unrelated language families. It is quite exciting to imagine the possibilities of a study such as the present one conducted on such a scale. Logistically, this would be very challenging which probably explains this dearth in the first place but, if one were in a position to do it, it would fill a large gap in the current research.

If one does not wish to pursue the nonsense word and definition method, there are lexical approaches that can be undertaken. One area in need of bolstering is the study of languages of non-technological societies. Many within this field view languages spoken by people groups in less developed parts of the world as potentially being more iconically fertile compared to languages from more developed places (Magnus, 2001). This includes many languages of Africa, North and South America, Southeast Asia, Australia and various islands of the Pacific. There already has been some work done in places like this, studies by those such as Doke (1935, 1954), Samarin (1972), and Childs (1994), but the languages that have not been studied far outnumber those that have been. It is only through empirical studies that one could ever determine if certain languages are more iconically active than others, and if they are, why and how.

An approach that has rarely been tried is that of analyzing a particular language's entire lexicon. This is highly desirable because many languages will show spotty evidence for iconism when selectively and partially analyzed. If an entire lexicon were analyzed, it would be a great means to determine where the truth lies within that language, one way or the other. McCune (1983) is one of the few studies to undertake this.

Another area in need of attention is that of tonal languages. Some who have investigated this area are Lapolla (1994) and Diffloth (1994). Tonal languages represent an unresolved problem within phonosemantics because, as a typological group, they show comparatively much less evidence of iconism than non-tonal languages. The field has yet to have an individual fully explain this conundrum. These are just a few of the areas within the field that need attention. There are certainly more approaches out there that have yet to be tried.

Practical Applications of Phonosemantic Studies

What good does it do to research possible ways in which sounds convey inherent meaning? How can this apply to the real world? One application which is omnipresent in our society is the means by which brands and products are named (Lowery & Shrum, 2007). How do manufacturers arrive at the invented names that adorn their products, particularly prescription drugs? Every made-up name emblazoned on a product box is there by design. There must have been something in the sounds of the name that felt appropriate for designating the product. Why were the sounds deemed appropriate? Whether they realize it or not, those in advertising are working according to the perceived meanings of sounds. The sounds that feel appropriate for designating a sedative are probably going to be different from the sounds that designate a stimulant. The sounds that designate an antidepressant will more than likely differ from those

that designate an osteoporosis drug. Frequently the product names will incorporate parts of real words or invented words that intentionally sound like real words. Consider the antidepressant *Zoloft*. The significance of *-loft* is apparent but how did the advertiser arrive at the conclusion that *zo-* is appropriate for such a drug? Consider the osteoporosis drug *Boniva*. Obviously *bone* played a part in this name but why *-iva*? Why do the drug manufacturers feel these sounds would garner a positive reception? Clearly there is some force or perception motivating those who create product names. With untold amounts of time and money at stake, these individuals are highly motivated to see their products do well in the marketplace. One can be guaranteed that much forethought went into names like *Zoloft* and *Boniva*. While these determinations of appropriateness don't necessarily have to be based in iconism, there are factors guiding those who name products as it's a near certainty that certain sounds would have been deemed inappropriate and rejected during the naming process. Though product naming may be the most practical application of phonosemantics, the desire to name something or somebody appropriately is universal. The same guiding forces that influence product naming influence many other aspects of daily life. What could influence a pet owner to choose the name they do for their pet? What influences an author or a screen writer to name a character the way they do? How do nicknames come into being? While strict iconism is not necessarily the answer, associations between sound and meaning of some sort are being made.

There are also applications in the creation of poetry (Jakobson & Waugh, 1987; Tsur, 1992; Violi, 2000). Poets have always been keenly aware of the fact that it's not just what one says but, also, it is how one says it. The sounds of words are just as important as the meaning of words in this context. Whether there is any truth or not in the phonosemantic and antonymic

hypotheses, the poet's relationship with language involves a deep appreciation of the impact that form can have on content.

Final Remarks

The overwhelming majority of evidence accumulated from this experimentation indicates that arbitrary designation and the double articulation are ubiquitous factors in language. Though the phonosemantic hypothesis and, stemming from this, the antonymic hypothesis challenge the traditional notion of the morpheme as the smallest meaning-bearing unit, essentially no data was gathered in the present research that would pose any kind of threat to this principle. For the best positive evidence of iconism, see the results for Question R. Even the best evidence, however, fails to make a convincing case in support of linguistic iconism. Extra-stimulus motivation was widely suspected during the interview process and this is the only reason why further experimentation may be warranted before even stronger judgments are made. It is my assessment that future experimental endeavors in this field should focus on ascertaining the instincts of human subjects regarding created words and definitions. The lexical methods that have been so heavily favored in the past have largely run their course, in my opinion. It seems a distinct possibility that they will never offer convincing proof, if there is any to be had, as the specter of common etymological descent looms too large. Perhaps more broad, cross-linguistic lexical studies involving strictly one representative language from every major language family e.g. one from Indo-European, one from Sino-Tibetan, one from Austronesian, etc. might be justified. But, even in this situation, I would not expect results indicative of anything other than cross-linguistic arbitrary designation. I am convinced that the only way forward in this field is to refine the stimulus creation and interview process so that extra-stimulus motivation can finally

be contained and individuals' phonosemantic instincts can be accurately assessed. If such approaches are not forthcoming, this area of study will most likely succumb to the overwhelming presence of arbitrary designation and permanently assume the role of a once provocative question that ultimately became a settled issue.

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APPENDIX A

COMPLETE PARTICIPANT DATA SHEETS

Participant Data Sheet

Participant #: 1

Age: 20

Sex: F

Linguistic Background: native speaker: English; beginning learner: French

Question ID

Words Requiring Definitions

- A. smitch [smɪtʃ]: a place in a wall
- B. jube [dʒuˈb]: a hard, strawberry candy
- C. keeve [kʰiv]: a small damp place in a cave
- D. wam [wam]: a pen with a dangling object attached
- E. easloff ['iːz · lɔf]: a Jewish name
- F. kedid ['kʰɛ · rəd]: a way of kicking a ball
- G. mavar ['meː · vaɪ]: a pirate's ship
- H. eyeyu ['aː · juː]: a dog-like animal with a bushy tail and a long nose
- I. narathooze ['næ · ɹə · θuːz]: a Greek god of sleep
- J. phillontave ['fɪ · lən · tʰeɪv]: a very cold, small, distant island
- K. lulurode ['luː · lə · ɹoːd]: a small, red, fragrant flower
- L. goxiwall ['gak · sə · wɔɪ]: a white, vegetarian, ox-like animal
- M. cengastumine [sɪn · ɡæs · tə · maːn]: a skin disease of the legs
- N. poncrilader ['pʰɑŋ · kɹə · leː · ræ]: a machine which helps keep the muscles strong
- O. bowertilldew [,ba · wə · tʰɪl · duː]: a dance frequently performed at weddings involving jiggling the hips
- P. chocksabeeble ['tʃak · sə · hi · bæɪ]: a purple, unfriendly, reptile-like animal
- Q. whoagsafflerick [woːg · 'zæ · fəɪ · ɹɪk]: a forest where the plants are red
- R. tobecraydrub [tʰoː · bæ · 'kɹeɪ · dɹəb]: an insect

Definitions Requiring Words

- S. the wad of hair removed when cleaning a hairbrush: WIKsul ['wɪk · sʰɪ]
- T. the grease that accumulates on top of a hot pizza: GRAHpul ['ɡɹa · pʰɪ]
- U. an unexpected cool breeze on a sultry day: KEEzee ['kʰeɪ · zi]
- V. the feeling experienced by a death-row inmate after being pardoned or exonerated: jibz [dʒɪˈbz]
- W. a feeling of extreme disappointment: KAHlow ['kʰa · loː]
- X. the feeling of being woken in the middle of the night by a strange noise: eekt [iˈkt]
- Y. the name of the remotest island on earth: ilNEEzo [ɪl · 'niː · zoː]

Images Requiring Words

- Z.  tahsh [tʰaʃ:]
- a.  tihsh [tʰɪʃ]
- b.  KRAMul ['kʰɹæ · mʰɪ]
- c.  igZEMpuhtuhd [ɪg · 'zɛm · pə · təd]
- d.  STOOpee ['stuː · pi]
- e.  buhZAYN [bə · 'zeɪn]
- f.  AHskee ['a · ski]
- g.  KRAnuhdyne ['kʰɹæ · nə · daɪn]

Participant Data Sheet

Participant #: 2

Age: 19

Sex: F

Linguistic Background: native speaker: English; beginning learner: French

Question ID

Words Requiring Definitions

- A. smitch [smitʃ]: something you can do with your mouth
- B. jube [dʒuˈb]: a fat tube
- C. keeve [kʰiv]: to encrust something
- D. wam [wam]: denotes an impact
- E. easloff ['iːz · lɔf]: a Norwegian food
- F. kedid ['kʰɛ · rəd]: beaten into shape
- G. mavar ['meː · vaɪ]: a description of scenery in a painting
- H. eyeyu ['aː · juː]: a description of a place
- I. narathooze ['næ · ɹə · θuːz]: nose spray
- J. phillontave ['fɪ · lən · tʰeɪv]: to fill something unequally
- K. lulurode ['luː · lə · ɹoːd]: an uneven street
- L. goxiwall ['gak · sə · wɔɪ]: a type of goggles
- M. cengastumine [sɪn · ɡæs · tə · maɪn]: a gas chamber in the Holocaust
- N. poncrilader ['pʰɑŋ · kɪə · leɪ · ræ]: a toy that changes shape, like a Transformer
- O. bowertilldew [ba · wə · tʰɪl · duː]: an article of clothing
- P. chocksaheeble ['tʃak · sə · hi · bəɪ]: a hot drink, like tea, taken when ill or in the winter
- Q. whoagsafflerick [woːg · 'zæ · fəɪ · ɹɪk]: a type of squirrel
- R. tobecraydrub [tʰoː · bə · 'kɪeɪ · dɹəb]: a mushy, bitter, African dish with rice

Definitions Requiring Words

- S. the wad of hair removed when cleaning a hairbrush: KHAbul ['kʰa · bʰ]
- T. the grease that accumulates on top of a hot pizza: GOOgulwɪks ['guː · gʰ · wɪks]
- U. an unexpected cool breeze on a sultry day: STREEzee ['stɹiː · zi]
- V. the feeling experienced by a death-row inmate after being pardoned or exonerated: PAHRsuhljuhn ['pʰɑɪ · sʰ · dʒəŋ]
- W. a feeling of extreme disappointment: flooHAYvuhn [fluː · 'heɪ · vəŋ]
- X. the feeling of being woken in the middle of the night by a strange noise: disROWduhn [dɪs · 'ɹoː · rəŋ]
- Y. the name of the remotest island on earth: sinKLAIr [sɪn · 'klæɪɹ]

Images Requiring Words

- Z.  glahbz [glabz]
- a.  WINstruhn ['wɪn · stɹəŋ]
- b.  BUHbultuhn ['bʌ · bʰ · tʰəŋ]
- c.  poe [pʰoː]
- d.  LOWthursuhm ['loː · θə · səŋ]
- e.  WORDsuhn ['wɔd · səŋ]
- f.  NAKsuhmunce ['næk · sə · mənʃ]
- g.  GRAHvuhlvail ['ɡɹa · vʰ · veɪ]

Participant Data Sheet

Participant #: 3

Age: 28

Sex: M

Linguistic Background: native speaker: English; fluent speaker: French; beginning learner: Spanish

Question ID

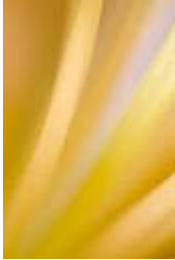
Words Requiring Definitions

- A. smitch [smitʃ]: a stain
- B. jube [dʒuˈb]: a bug like a beetle
- C. keeve [kʰiv]: a hole
- D. wam [wam]: a long, narrow stick
- E. easloff ['iːz · lɔf]: a food with something melted and oozing on top
- F. kedid ['kʰɛ · rəd]: an adjective meaning 'adjacent to'
- G. mavar ['meː · vaɪ]: an old wooden boat like those of Columbus' day
- H. eyeyu ['aː · juː]: a designation for one's ancestor
- I. narathooze ['næ · ɹə · θuːz]: a dark (evil) character from Greek or Roman mythology
- J. phillontave ['fɪ · lən · tʰeɪv]: a group of random objects that you might place into a backpack
- K. lulurode ['luː · lə · ɹoːd]: a windy road like in the game Candyland
- L. goxiwall ['gak · sə · wɔɪ]: something without coherence, nonsensical
- M. cengastumine [sɪn · ɡæs · tə · maːn]: a replication, mimesis or parroting
- N. poncrilader ['pʰɑŋ · kɹə · leː · rə]: a pacemaker for the pancreas
- O. bowertilldew [,ba · wə · tʰɪl · duː]: a balance (scale)
- P. chocksaeheble ['tʃak · sə · hi · bəɪ]: a large gathering of people
- Q. whoagsafflerick [woːg · 'zæ · fəɪ · ɹɪk]: relating to a pulley mechanism, an archaic mans of hoisting something
- R. tobecraydrub [tʰoː · bə · 'kɹeɪ · dɹəb]: a device for steering a boat

Definitions Requiring Words

- S. the wad of hair removed when cleaning a hairbrush: treats [tʰɹɪʔts]
- T. the grease that accumulates on top of a hot pizza: bleek [bliːk]
- U. an unexpected cool breeze on a sultry day: forGORN [fɔɹ · 'ɡɔːɹn]
- V. the feeling experienced by a death-row inmate after being pardoned or exonerated: purSOON [pʰə · 'suːn]
- W. a feeling of extreme disappointment: PAsunt ['pʰæ · sənt]
- X. the feeling of being woken in the middle of the night by a strange noise: FLUHBurd ['flʌ · bəd]
- Y. the name of the remotest island on earth: POURsun ['pʰɔː · sən]

Images Requiring Words

- Z.  bleesh [bliːʃ]
- a.  flurREHsunt [flə · 'ɹɛ · sənt]
- b.  sihRAYshis [sɪ · 'ɹeɪ · ʃɪs]
- c.  KApreeshis ['kʰæ · pɹɪ · ʃɪs]
- d.  kuhnSKWURrud [kʰɹ̩ · 'skwə · ɹʔd]
- e.  KYOUpuhtime ['kʰjuː · pə · taɪm]
- f.  pahnd [pʰand]
- g.  GAHRshuhnd ['ɡaɹ · ʃənd]

Participant Data Sheet

Participant #: 4

Age: 20

Sex: F

Linguistic Background: native speaker: English; beginning learner: Spanish, French

Question ID

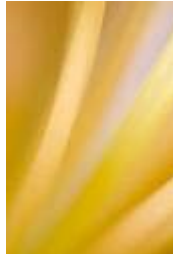
Words Requiring Definitions

- A. smitch [smitʃ]: a pinch of something you cook with
- B. jube [dʒuˈb]: an orb-shaped thing
- C. keeve [kʰiv]: a trench
- D. wam [wam]: Asian food
- E. easloff ['iːz · lɔf]: a Hebrew person
- F. kedid ['kʰɛ · rəd]: to catch things, like fish
- G. mavar ['meː · vaɪ]: a bright, sunny time of year
- H. eyeyu ['aː · juː]: a type of collage
- I. narathooze ['næ · ɹə · θuːz]: a sickness of the nose
- J. phillontave ['fɪ · lən · tʰeɪv]: a thief
- K. lulurode ['luː · lə · ɹoːd]: bright, colorful flowers
- L. goxiwall ['gak · sə · wɔɪ]: a mean person
- M. cengastumine [sɪn · ˈgæs · tə · maːn]: something having to do with warfare and trenches
- N. poncrilader ['pʰɑŋ · kɹə · leː · ræ]: a car part
- O. bowertilldew [ba · wə · tʰɪl · duː]: descriptive of English nobility long ago
- P. chocksaeheble ['tʃak · sə · hi · bæ]: a type of candy
- Q. whoagsafflerick [woːg · ˈzæ · fəɪ · ɹɪk]: furry or fuzzy
- R. tobecraydrub [tʰoː · bæ · ˈkɹeɪ · dɹəb]: a leaky sink

Definitions Requiring Words

- S. the wad of hair removed when cleaning a hairbrush: LOObul ['luː · bʌɪ]
- T. the grease that accumulates on top of a hot pizza: NOYuhl ['noː · ɹɪ]
- U. an unexpected cool breeze on a sultry day: LAYlye ['leː · laɪ]
- V. the feeling experienced by a death-row inmate after being pardoned or exonerated: GREKsned ['gɹɛk · snɛd]
- W. a feeling of extreme disappointment: FULLso ['fʊl · soː]
- X. the feeling of being woken in the middle of the night by a strange noise: nihkuhPANnuh [nɪ · kə · ˈpʰæ · nə]
- Y. the name of the remotest island on earth: UHLSuhlow ['ʌ · sə · loː]

Images Requiring Words

- Z.  ROOZHlow ['ɹuːz · loː]
- a.  LOWsun ['loː · sʌn]
- b.  yurb [jəɪb]
- c.  Apuhmuh ['æ · pə · mə]
- d.  YURlee ['jʊɪ · liː]
- e.  melGLOW [mɛɪ · ˈgloː]
- f.  SKWAHkum ['skwa · kʌm]
- g.  kuhROWSuhmuh [kə · ˈɹoː · sə · mə]

Participant Data Sheet

Participant #: 5

Age: 22

Sex: M

Linguistic Background: native speaker: English; beginning learner: French, Spanish, Classical Greek

Question ID

Words Requiring Definitions

- A. smitch [smitʃ]: to scratch
- B. jube [dʒuˈb]: to con
- C. keeve [kʰiv]: to retain
- D. wam [wam]: a type of gin
- E. easloff ['iːz · lɔf]: an eastern religion
- F. kedid ['kʰɛ · rəd]: a kenning
- G. mavar ['meː · vaɪ]: a vineyard
- H. eyeyu ['aː · juː]: a Native American tribe
- I. narathooze ['næ · ɹə · θuːz]: to become excited over
- J. phillontave ['fɪ · lən · tʰeɪv]: to study human culture, like anthropology
- K. lulurode ['luː · lə · ɹoːd]: a game, maybe a video game
- L. goxiwall ['gak · sə · wɔɪ]: a James Joyce- inspired word
- M. cengastumine [sɪn · gæs · tə · maɪn]: oil refining
- N. poncrilader ['pʰɑŋ · kɹə · leɪ · ræ]: a medical device
- O. bowertilldew [ba · wə · tʰɪl · duː]: to mold or decay
- P. chocksabeeble ['tʃak · sə · hi · bæ]: to become angry over something
- Q. whoagsafflerick [woːg · 'zæ · fəɪ · ɹɪk]: log riding
- R. tobecraydrub [tʰoː · bæ · 'kreɪ · dɹəb]: spelunking

Definitions Requiring Words

- S. the wad of hair removed when cleaning a hairbrush: inkeeshmooz [ɪŋ · kʰiː · ʃmuːz]
- T. the grease that accumulates on top of a hot pizza: prayst [pʰɹeɪst]
- U. an unexpected cool breeze on a sultry day: ozhoLEE [o · ʒo · 'li]
- V. the feeling experienced by a death-row inmate after being pardoned or exonerated: dekSTEENGwisht [dek · 'stɪŋ · gwɪʃt]
- W. a feeling of extreme disappointment: roose [ɹuːs]
- X. the feeling of being woken in the middle of the night by a strange noise: ekSPANduhmayke [ɛk · 'spæn · də · meɪk]
- Y. the name of the remotest island on earth: ooMEESHkuh [uː · 'miːʃ · kə]

Images Requiring Words

- Z.  eeLAKsaytud [iː · 'læk · seɪ · rəd]
- a.  KAHNfurmayteeng ['kʰan · fə · meɪ · rɪŋ]
- b.  shweest [ʃwiːst]
- c.  schmeesh [ʃmiːʃ]
- d.  ahnZHOYyuhmake [an · 'ʒɔɪ · jə · meɪk]
- e.  disuhRANjuhnayt [dɪ · sə · 'ɹæn · dʒə · neɪt]
- f.  tuhKHANYuhlee [tə · 'kʰan · jə · li]
- g.  prooNIHstuhkoo [pʰɹuː · 'nɪ · stə · kuː]

Participant Data Sheet

Participant #: 6

Age: 19

Sex: F

Linguistic Background: native speaker: English; beginning learner: French

Question ID

Words Requiring Definitions

- A. smitch [smitʃ]: mean (not nice)
- B. jube [dʒuˈb]: funny
- C. keeve [kʰiv]: stupid
- D. wam [wam]: mother
- E. easloff ['iːz · lɔf]: a type of food, like rice
- F. kedid ['kʰɛ · rəd]: hurt, injured
- G. mavar ['meː · vaɪ]: smart, intelligent
- H. eyeyu ['aː · juː]: to care for something
- I. narathooze ['næ · ɹə · θuːz]: silly
- J. phillontave ['fɪ · lən · tʰeɪv]: a tropical island
- K. lulurode ['luː · lə · ɹoːd]: a rock
- L. goxiwall ['gak · sə · wɔɪ]: a small, green-yellow, flowering plant
- M. cengastumine [sɪn · 'gæs · tə · maɪn]: an explosion
- N. poncrlader ['pʰɑŋ · kɹə · leɪ · rə]: a cooking utensil
- O. bowertilldew [,ba · wə · 'tʰɪl · duː]: a fluffy object, like snow or cotton
- P. chocksabeeble ['tʃak · sə · hi · bəɪ]: a type of hard, cinnamon candy
- Q. whoagsafflerick [woːg · 'zæ · fəɪ · ɹɪk]: a short, ugly dwarf
- R. tobecraydrub [tʰoː · bə · 'kreɪ · dɹəb]: a food like a pita with a spicy filling

Definitions Requiring Words

- S. the wad of hair removed when cleaning a hairbrush: BOKshoo ['bək · ʃuː]
- T. the grease that accumulates on top of a hot pizza: POOroo ['pʰuː · ɹuː]
- U. an unexpected cool breeze on a sultry day: SYtun ['saː · tʰəŋ]
- V. the feeling experienced by a death-row inmate after being pardoned or exonerated: GASTee ['gæ · stiː]
- W. a feeling of extreme disappointment: EGzis ['ɛg · zɪs]
- X. the feeling of being woken in the middle of the night by a strange noise: HAHKtin ['hək · tɪn]
- Y. the name of the remotest island on earth: fuhROOroo [fə · 'ɹuː · ɹuː]

Images Requiring Words

- Z.  DIEkuhn ['deɪ · kəŋ]
- a.  shin [ʃɪn]
- b.  NEHtoe ['ne · toː]
- c.  KOray ['kʰə · ɹeɪ]
- d.  SAYvis ['seɪ · vɪs]
- e.  BYtint ['baɪ · tɪnt]
- f.  YOUfay ['juː · feɪ]
- g.  DINkee ['dɪŋ · kiː]

Participant Data Sheet

Participant #: 7

Age: 19

Sex: F

Linguistic Background: native speaker: English, Spanish; intermediate learner: French, Hebrew

Question ID

Words Requiring Definitions

- A. smitch [smitʃ]: an expression of disappointment like “aw shucks!”
- B. jube [dʒuˈb]: a ball-shaped thing, like a toy
- C. keeve [kʰiv]: a tool like a saw
- D. wam [wam]: a mythical, silly animal
- E. easloff ['iːz · lɔf]: to shovel something
- F. kedid ['kʰɛ · rəd]: a type of sport, like soccer
- G. mavar ['meː · vaɪ]: a type of minivan
- H. eyeyu ['aː · juː]: a slang form of greeting
- I. narathooze ['næ · ɹə · θuːz]: a computer program
- J. phillontave ['fɪ · lən · tʰeɪv]: an unspecified academic discipline
- K. lulurode ['luː · lə · ɹoːd]: a little kid
- L. goxiwall ['gak · sə · wɔɪ]: a weird town in a valley
- M. cengastumine [sɪn · gæs · tə · maːn]: a poisonous chemical
- N. poncrilader ['pʰɑŋ · kɹə · leː · rə]: something squishy or spongy
- O. bowertilldew [,ba · wə · tʰɪl · duː]: a happy type of drink, like lemonade
- P. chocksaeheble ['tʃak · sə · hi · bəɪ]: a material like bricks or cement
- Q. whoagsafflerick [woːg · 'zæ · fəɪ · ɹɪk]: a complex machine used for moving things
- R. tobecraydrub [tʰoː · bə · 'kɹeɪ · dɹəb]: a liquid medicine

Definitions Requiring Words

- S. the wad of hair removed when cleaning a hairbrush: nyak [njæk]
- T. the grease that accumulates on top of a hot pizza: rlüh [ɹɪɜ]
- U. an unexpected cool breeze on a sultry day: fyoul [fɪuːɫ]
- V. the feeling experienced by a death-row inmate after being pardoned or exonerated: Azuhnuh ['æ · zə · nə]
- W. a feeling of extreme disappointment: TORdur ['tʰɔɹ · rə]
- X. the feeling of being woken in the middle of the night by a strange noise: hadge [hædʒ]
- Y. the name of the remotest island on earth: KENnuhlüh ['kʰɪ · nə · lə]

Images Requiring Words

- Z.  hahlm [hɑɫm]
- a.  yah [jɑːh]
- b.  SAHlow ['sa · loː]
- c.  pahrg [pʰɑɹg]
- d.  WHURtul ['wə · rʰɫ]
- e.  tard [tʰɑɹd]
- f.  dev [dɛv]
- g.  SHIHmuh ['ʃɪ · mə]

Participant Data Sheet

Participant #: 8

Age: 19

Sex: F

Linguistic Background: native speaker: English

Question ID

Words Requiring Definitions

- A. smitch [smitʃ]: to be comfortable with something
- B. jube [dʒuˈb]: a bottle of something
- C. keeve [kʰiv]: a state of being perturbed
- D. wam [wam]: an open place
- E. easloff ['iːz · lɔf]: a surface to paint or draw on
- F. kedid ['kʰɛ · rəd]: the feeling experienced upon seeing somebody you haven't seen in a long time
- G. mavar ['meː · vaɪ]: something handmade
- H. eyeyu ['aː · juː]: a furry, passive animal
- I. narathooze ['næ · ɹə · θuːz]: something that would make you happy, like a movie
- J. phillontave ['fɪ · lən · tʰeɪv]: a type of gel used to caulk
- K. lulurode ['luː · lə · ɹoːd]: a windy, country road
- L. goxiwall ['gak · sə · wɔɪ]: a circus freak, maybe an animal-man
- M. cengastumine [sɪn · ɡæs · tə · maɪn]: something dangerous, a poisonous murder weapon
- N. poncrilader ['pʰɑŋ · kɹə · leɪ · ræ]: a defibrillator
- O. bowertilldew [ba · wə · tʰɪl · duː]: a genre of writing, creative non-fiction that uses embellishments to enrich the story
- P. chocksabeeble ['tʃak · sə · hi · bæ]: someone who eats a lot
- Q. whoagsafflerick [woːg · 'zæ · fəɪ · ɹɪk]: something amazing
- R. tobecraydrub [tʰoː · bæ · 'kreɪ · dɹəb]: a big, heavy piece of furniture, like a dresser

Definitions Requiring Words

- S. the wad of hair removed when cleaning a hairbrush: FROMunjine ['fɹoː · mən · dʒaɪn]
- T. the grease that accumulates on top of a hot pizza: SALuhgree ['sæ · lə · ɡɹɪ]
- U. an unexpected cool breeze on a sultry day: proFIHthitooode [pʰɹoː · 'fɪ · θə · tʰjuːd]
- V. the feeling experienced by a death-row inmate after being pardoned or exonerated: kuhLAMurmine [kʰə · 'læ · mæ · maɪn]
- W. a feeling of extreme disappointment: TIHfinbahtum ['tʰɪ · fɪn · ba · rəm]
- X. the feeling of being woken in the middle of the night by a strange noise: shuhREEF [ʃə · 'ɹɪf:]
- Y. the name of the remotest island on earth: sahmunHEYlo [sa · mən · 'heɪ · loː]

Images Requiring Words

- Z.  RAHGflin ['ɹag · flɪn]
- a.  BLASturd ['blæs · təd]
- b.  kayneFAYgun [kʰeɪn · 'feɪ · ɡən]
- c.  FREEmah ['fɹɪ · maːh]
- d.  WURLside ['wəɪ · saɪd]
- e.  RAHKShtur ['ɹak · ʃtə]
- f.  FEEtah ['fiɪ · taːh]
- g.  SHURloo ['ʃə · luː]

Participant Data Sheet

Participant #: 9

Age: 20

Sex: M

Linguistic Background: native speaker: English; beginning learner: French, Spanish, German, Italian, Dutch

Question ID

Words Requiring Definitions

- A. smitch [smitʃ]: the sound of a shoe hitting a nail into a board
- B. jube [dʒuˈb]: a noise a baby would make
- C. keeve [kʰiv]: the action of a bee striking a car
- D. wam [wam]: the action of a blade spinning
- E. easloff ['iːz · lɔf]: the action of a saw sawing through a metal chain
- F. kedid ['kʰɛ · rəd]: the action of a small tire rolling over a gravel surface
- G. mavar ['meː · vaɪ]: the action of a (brake) pad grinding up against metal
- H. eyeyu ['aː · juː]: a muffled sneeze
- I. narathooze ['næ · ɹə · θuːz]: the action of a marble travelling along a Styrofoam pipe
- J. phillontave ['fɪ · lən · tʰeɪv]: the action of a stack of papers being shredded
- K. lulurode ['luː · lə · ɹoːd]: the action of a flower swaying in the wind
- L. goxiwall ['gak · sə · wɔɪ]: putty used for sealing up cracks
- M. cengastumine [sɪn · ɡæs · tə · maːn]: a chemical compound used for making rubber ducks
- N. poncrilader ['pʰɑŋ · kɹə · leː · rə]: the next ultimate water sports weapon
- O. bowertilldew [ba · wə · tʰɪl · duː]: a bathroom mold
- P. chocksaeheble ['tʃak · sə · hi · bəɪ]: a device used for chopping round objects
- Q. whoagsafflerick [woːg · 'zæ · fəɪ · ɹɪk]: a ship made of toilet paper
- R. tobecraydrub [tʰoː · bə · 'kɹeɪ · dɹəb]: a candy bar with 100 0 different flavors

Definitions Requiring Words

- S. the wad of hair removed when cleaning a hairbrush: skrooch [skɹuːtʃ]
- T. the grease that accumulates on top of a hot pizza: FLIHkuhl ['flɪ · kʰ]
- U. an unexpected cool breeze on a sultry day: wahSHOON [wa · 'ʃuːn]
- V. the feeling experienced by a death-row inmate after being pardoned or exonerated: GRAHtuɹuhl ['ɡɹə · rə · ʰ]
- W. a feeling of extreme disappointment: fleu [flœ]
- X. the feeling of being woken in the middle of the night by a strange noise: fleuREU [flœ · 'ɹi]
- Y. the name of the remotest island on earth: bahb [bab]

Images Requiring Words

- Z.  SNEHtul ['sne · rʰ]
- a.  FRIHtul ['fɹɪ · rʰ]
- b.  PLEUsheul ['pʰlɔ · ʃɪ]
- c.  yahGROO [ja · 'ɡɹuː]
- d.  SKWIHtul ['skwi · rʰ]
- e.  KRAHtul ['kʰɹə · rʰ]
- f.  wahnJOO [wan · 'dʒuː]
- g.  KRIHkul ['kʰɹɪ · kʰ]

Participant Data Sheet

Participant #: 10

Age: 30

Sex: M

Linguistic Background: native speaker: Spanish; fluent speaker: English

Question ID

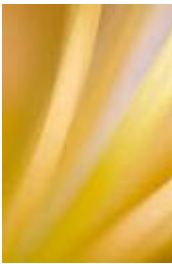
Words Requiring Definitions

- A. smitch [smitʃ]: something that injures a person
- B. jube [dʒuˈb]: to drink something sweet
- C. keeve [kʰiv]: a tool to open a can
- D. wam [wam]: a sound to describe the impact of crashing onto the floor
- E. easloff ['iːz · lɔf]: a tropical island
- F. kedid ['kʰɛ · rəd]: something to store food inside the refrigerator
- G. mavar ['meː · vaɪ]: a utensil to prepare food
- H. eyeyu ['aː · juː]: an expression to call attention to someone
- I. narathooze ['næ · ɹə · θuːz]: an expression used in pleasant conversation
- J. phillontave ['fɪ · lən · tʰeɪv]: something that is artificially heated
- K. lulurode ['luː · lə · ɹoːd]: something used to measure distance
- L. goxiwall ['gak · sə · wɔɪ]: a barrier used to protect the eyes
- M. cengastumine [sɪn · ɡæs · tə · maːn]: a situation where you don't take somebody's opinion into consideration
- N. poncrilader ['pʰɑŋ · kɹə · leː · ræ]: a tool to measure depth
- O. bowertilldew [ba · wə · tʰɪl · duː]: a tool used for cleaning
- P. chocksaeheble ['tʃak · sə · hi · bəɪ]: a tool used to make marks on various surfaces
- Q. whoagsafflerick [woːg · 'zæ · fəɪ · ɹɪk]: a barking animal
- R. tobecraydrub [tʰoː · bə · 'kɹeɪ · dɹəb]: a type of pain medicine

Definitions Requiring Words

- S. the wad of hair removed when cleaning a hairbrush: PIEyah ['paː · ja]
- T. the grease that accumulates on top of a hot pizza: KAHskah ['kʰa · ska]
- U. an unexpected cool breeze on a sultry day: TAHcho ['ta · tʃo]
- V. the feeling experienced by a death-row inmate after being pardoned or exonerated: hoom [hum]
- W. a feeling of extreme disappointment: nok [nɔk]
- X. the feeling of being woken in the middle of the night by a strange noise: grood [ɡɹuːd]
- Y. the name of the remotest island on earth: EEleen ['i · lin]

Images Requiring Words

- Z.  HAHdeh ['ha · dɛ]
- a.  preen [prin]
- b.  shoun [ʃaːn]
- c.  kultohNAHtah [kul · to · 'na · ta]
- d.  treen [trin]
- e.  KAHRkoil ['kar · kɔɪ]
- f.  GROONdoh ['ɡɹun · do]
- g.  KARTay ['kar · te]

Participant Data Sheet

Participant #: 11

Age: 38

Sex: F

Linguistic Background: native speaker: Catalan, Spanish; fluent speaker: English

Question ID

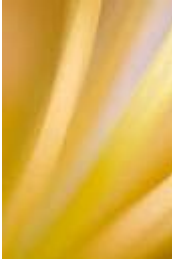
Words Requiring Definitions

- A. smitch [smitʃ]: a tunneling animal like a groundhog
- B. jube [dʒuˈb]: an ideology, partly religious and partly philosophical
- C. keeve [kʰiv]: a hammer-like tool
- D. wam [wam]: a type of bird, large and pink
- E. easloff ['iːz · lɔf]: type of food consisting of meat and sauce
- F. kedid ['kʰɛ · rəd]: a cabinet
- G. mavar ['meː · vaɪ]: (turquoise) jewelry
- H. eyeyu ['aː · juː]: a Native American tribe
- I. narathooze ['næ · ɹə · θuːz]: a fairy tale for children, like a fable
- J. phillontave ['fɪ · lən · tʰeɪv]: an ideology
- K. lulurode ['luː · lə · ɹoːd]: a children's game
- L. goxiwall ['gak · sə · wɔɪ]: a wolf-like animal
- M. cengastumine [sɪn · ɡæs · tə · maːn]: to take a meeting
- N. poncrilader ['pʰɑŋ · kɪə · leː · ræ]: a pidgin language
- O. bowertilldew [ba · wə · tʰɪl · duː]: a formal greeting
- P. chocksaeheble ['tʃak · sə · hi · bəɪ]: to exercise on a machine
- Q. whoagsafflerick [woːg · 'zæ · fəɪ · ɹɪk]: a puppet from a kid's show
- R. tobecraydrub [tʰoː · bə · 'kreɪ · dɹəb]: a bathroom towel hanger

Definitions Requiring Words

- S. the wad of hair removed when cleaning a hairbrush: broop [brup]
- T. the grease that accumulates on top of a hot pizza: pahf [paf]
- U. an unexpected cool breeze on a sultry day: boov [buɪ]
- V. the feeling experienced by a death-row inmate after being pardoned or exonerated: wush [wuʃ]
- W. a feeling of extreme disappointment: ahh [ax]
- X. the feeling of being woken in the middle of the night by a strange noise: krak [kræk]
- Y. the name of the remotest island on earth: SEENtah ['sin · ta]

Images Requiring Words

- Z.  Z.  a.  b.  c.
 - breef [brɪf]
 - SHOOwah ['ʃu · wa]
 - pahn [pan]
 - wan [wan]
- d.  d.  e.  f.  g.
 - ROOwahn ['ru · wan]
 - GREEgo ['gri · ɣo]
 - dohn [don]
 - vay [ve]

Participant Data Sheet

Participant #: 12

Age: 25

Sex: M

Linguistic Background: native speaker: English; fluent speaker: German

Question ID

Words Requiring Definitions

- A. smitch [smitʃ]: to steal a kiss
- B. jube [dʒuˈb]: to talk nonsense
- C. keeve [kʰiv]: a Russian city
- D. wam [wam]: a small, brown, arboreal animal
- E. easloff ['iːz · lɔf]: a small donkey
- F. kedid ['kʰɛ · rəd]: a secret
- G. mavar ['meː · vaɪ]: a yellow cake
- H. eyeyu ['aː · juː]: a type of beetle
- I. narathooze ['næ · ɹə · θuːz]: a Greek philosopher
- J. phillontave ['fɪ · lən · tʰeɪv]: a type of sandwich
- K. lulurode ['luː · lə · ɹoːd]: a girl punk band
- L. goxiwall ['gak · sə · wɔɪ]: an old Nordic hero
- M. cengastumine [sɪn · ɡæs · tə · maɪn]: something poisonous, like asbestos
- N. poncrilader ['pʰɑŋ · kɹə · leː · ræ]: a medical device to revive people who have passed out
- O. bowertilldew [,bə · wə · tʰɪl · duː]: a fantasy novel, like Lord of the Rings
- P. chocksaeheble ['tʃak · sə · hi · bəɪ]: an American Indian tribe
- Q. whoagsafflerick [woːg · 'zæ · fəɪ · ɹɪk]: a huge, Viking battleaxe
- R. tobecraydrub [tʰoː · bə · 'kɹeɪ · dɹəb]: a type of spicy food from the Pacific eaten with the fingers

Definitions Requiring Words

- S. the wad of hair removed when cleaning a hairbrush: ruff [ɹʌf]
- T. the grease that accumulates on top of a hot pizza: slek [slɛk]
- U. an unexpected cool breeze on a sultry day: froosh [fɹuːʃ]
- V. the feeling experienced by a death-row inmate after being pardoned or exonerated: FRIMdun ['fɹɪm · dʊŋ]
- W. a feeling of extreme disappointment: zumf [zʌmf]
- X. the feeling of being woken in the middle of the night by a strange noise: FRIMtin ['fɹɪm · tɪn]
- Y. the name of the remotest island on earth: LAHNGun ['lɑŋ · ɹŋ]

Images Requiring Words

- Z.  kluhVET [kʰlə · 'vɛt]
- a.  FLYtus ['flaɪ · təs]
- b.  BLEKtus ['blɛk · təs]
- c.  frepsh [fɹɛpʃ]
- d.  RIHzul ['ɹɪ · zʌɪ]
- e.  RAHNtuh ['ɹɑn · tə]
- f.  blant [blænt]
- g.  swust [swʌst]

Participant Data Sheet

Participant #: 13

Age: 25

Sex: F

Linguistic Background: native speaker: English; fluent speaker: German

Question ID

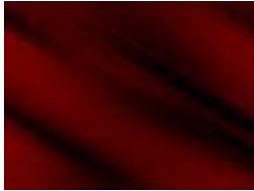
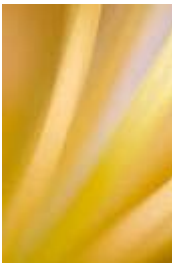
Words Requiring Definitions

- A. smitch [smitʃ]: something spread on bread
- B. jube [dʒuˈb]: a Caribbean style of music
- C. keeve [kʰiv]: to push something over
- D. wam [wam]: the sound a trombone makes
- E. easloff ['iːz · lɔf]: easily achieved
- F. kedid ['kʰɛ · rəd]: tangled
- G. mavar ['meː · vaɪ]: a family member name, like an aunt
- H. eyeyu ['aː · juː]: an igloo
- I. narathooze ['næ · ɹə · θuːz]: an algorithm
- J. phillontave ['fɪ · lən · tʰeɪv]: to pump gas
- K. lulurode ['luː · lə · ɹoːd]: a small, yellow flower
- L. goxiwall ['gak · sə · wɔɪ]: a mechanical clock
- M. cengastumine [sɪn · ˈgæs · tə · maːn]: chemical explosion
- N. poncrlader ['pʰɑŋ · kɹə · leː · rə]: a fancy stereo
- O. bowertilldew [ba · wə · tʰɪl · duː]: men's casual pants
- P. chocksaeheble ['tʃak · sə · hi · bəɪ]: a violent act
- Q. whoagsafflerick [woːg · ˈzæ · fəɪ · ɹɪk]: a time machine
- R. tobecraydrub [tʰoː · bə · ˈkɹeɪ · dɹəb]: a turtle

Definitions Requiring Words

- S. the wad of hair removed when cleaning a hairbrush: BLIKsee ['blɪk · siː]
- T. the grease that accumulates on top of a hot pizza: PLAssee ['pʰlæ · siː]
- U. an unexpected cool breeze on a sultry day: TORrelore ['tʰɔ · ɹiː · lɔɹ]
- V. the feeling experienced by a death-row inmate after being pardoned or exonerated: vlahfahNAHtah [vla · fa · ˈna · ta]
- W. a feeling of extreme disappointment: wahz [waz]
- X. the feeling of being woken in the middle of the night by a strange noise: YAIzee ['jaː · ziː]
- Y. the name of the remotest island on earth: koh [kʰoː]

Images Requiring Words

- Z.  SHAHrohn ['ʃa · ɹoːn]
- a.  LAHpee ['la · piː]
- b.  bahz [baz]
- c.  DEEzee ['diː · ziː]
- d.  KAHzul ['kʰa · zʰ]
- e.  FLOOpahp ['fluː · pʰap]
- f.  stoh [stoː]
- g.  RAHpee ['ɹa · piː]

Participant Data Sheet

Participant #: 14

Age: 39

Sex: F

Linguistic Background: native speaker: English

Question ID

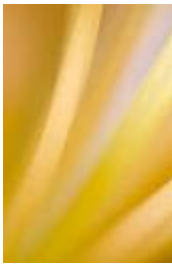
Words Requiring Definitions

- A. smitch [smitʃ]: to like something
- B. jube [dʒuˈb]: a religion, like Islam
- C. keeve [kʰiv]: an exotic, sweet, green fruit
- D. wam [wam]: a spicy, Latino food
- E. easloff ['iːz · lɔf]: a greeting
- F. kedid ['kʰɛ · rəd]: to dislike or badmouth
- G. mavar ['meː · vaɪ]: a color close to purple
- H. eyeyu ['aː · juː]: a long, short, white mammal
- I. narathooze ['næ · ɹə · θuːz]: confused
- J. phillontave ['fɪ · lən · tʰeɪv]: a cave
- K. lulurode ['luː · lə · ɹoːd]: a fun, happy, comfortable place
- L. goxiwall ['gak · sə · wɔɪ]: reminiscent of Halloween, scary ghosts
- M. cengastumine [sɪn · ɡæs · tə · maɪn]: a stomach disease
- N. poncrilader ['pʰɑŋ · kɹə · leɪ · ræ]: a car part
- O. bowertilldew [ba · wə · tʰɪl · duː]: a tool for breaking up dirt
- P. chocksaeheble ['tʃak · sə · hi · bæ]: somebody who got sick and threw up
- Q. whoagsafflerick [woːg · ˈzæ · fəl · ɹɪk]: something wooly or furry
- R. tobecraydrub [tʰoː · bæ · ˈkɹeɪ · dɹəb]: a game for several people involving a ball

Definitions Requiring Words

- S. the wad of hair removed when cleaning a hairbrush: WAHduhlood ['wa · rə · luːd]
- T. the grease that accumulates on top of a hot pizza: KRUHstuhgook ['kʰɹə · stə · guːk]
- U. an unexpected cool breeze on a sultry day: WAHbuh ['wa · bæ]
- V. the feeling experienced by a death-row inmate after being pardoned or exonerated: aZOOS [æ · ˈzuːs]
- W. a feeling of extreme disappointment: ayEHsy [e · ˈɛ · sɪoː]
- X. the feeling of being woken in the middle of the night by a strange noise: HAHdoon ['ha · duːn]
- Y. the name of the remotest island on earth: LOWhoe ['lo · ho]

Images Requiring Words

- Z.  suhLOWST [sə · ˈloːst]
- a.  YAHstah ['ja · sta]
- b.  KOOstah ['kʰuː · sta]
- c.  ahnahTEHgoh [a · na · tʰɛ · goː]
- d.  BOOguhvihluh ['buː · gə · vi · lə]
- e.  peeYAHTsah [pi · ˈja · tsɑ]
- f.  EHstah ['ɛs · ta]
- g.  SPRAYgoh ['spɹeɪ · goː]

Participant Data Sheet

Participant #: 15

Age: 55

Sex: F

Linguistic Background: native speaker: Spanish, English; advanced learner: French; beginning learner: Italian, Russian, Farsi

Question ID

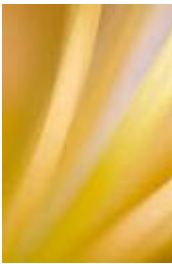
Words Requiring Definitions

- A. smitch [smitʃ]: when somebody treats you in a manner that causes you to feel insecure
- B. jube [dʒuˈb]: a very small particle that sparkles
- C. keeve [kʰiv]: a tool for weaving
- D. wam [wam]: a furry, long-haired, arboreal animal
- E. easloff ['iːz · lɔf]: a person who likes to choose the easy way out
- F. kedid ['kʰɛ · rəd]: short and to the point
- G. mavar ['meː · vaɪ]: a mythological or extinct winged creature
- H. eyeyu ['aː · juː]: a tuberous, bitter food plant
- I. narathooze ['næ · ɹə · θuːz]: a geographical term for a densely vegetated place which is hard to cross
- J. phillontave ['fɪ · lən · tʰeɪv]: to coerce somebody into doing something
- K. lulurode ['luː · lə · ɹoːd]: a toy for children consisting of interlocking hoops
- L. goxiwall ['gak · sə · wɔɪ]: a ferocious animal the size of a raccoon, arboreal, nocturnal, and carnivorous
- M. cengastumine [sɪn · gæs · tə · maɪn]: to poison with an inhalant
- N. poncrilader ['pʰɑŋ · kɹə · leː · rə]: a person obsessed with punctuation
- O. bowertilldew [ba · wə · tʰɪl · duː]: a wind instrument of low register
- P. chocksabeeble ['tʃak · sə · hi · bəɪ]: a large desert plant with thick branches and spines
- Q. whoagsafflerick [woːg · zæ · fəɪ · ɹɪk]: describes a person who has gone through an experience that gave them both sadness and happiness at the same time
- R. tobecraydrub [tʰoː · bə · kɹeɪ · dɹəb]: type of earthworm that lives in a colony that could cause problems if they are too numerous

Definitions Requiring Words

- S. the wad of hair removed when cleaning a hairbrush: GLUHPul ['glʌm · pʰ]
- T. the grease that accumulates on top of a hot pizza: BUMfloo ['bʌm · fluː]
- U. an unexpected cool breeze on a sultry day: FRUHPul ['fruːm · pʰ]
- V. the feeling experienced by a death-row inmate after being pardoned or exonerated: SPLINshus ['splɪn · ʃəs]
- W. a feeling of extreme disappointment: DINtruf ['dɪn · tɹəf]
- X. the feeling of being woken in the middle of the night by a strange noise: strahmt [stɹamt]
- Y. the name of the remotest island on earth: WEEbul ['wiː · bʰ]

Images Requiring Words

- Z.  flim [flɪm]
- a.  splaht [splat]
- b.  TRAHPyoulus ['tʰɹam · juː · ləs]
- c.  VUHguhbul ['vʌ · gə · bʰ]
- d.  SLYthee ['slaː · ðiː]
- e.  GHIMblee ['gɪm · bliː]
- f.  ehTRISK [ɛ · tʰɹɪsk]
- g.  RAHMbyoulus ['ɹam · buː · ləs]

Participant Data Sheet

Participant #: 16

Age: 58

Sex: F

Linguistic Background: native speaker: Slovenian; fluent speaker: French, English, Italian, Serbo-Croatian; advanced learner: Swedish, Spanish, German; intermediate learner: Latin, Sanskrit, Classical Greek

Question ID

Words Requiring Definitions

- A. smitch [smitʃ]: to smack or smother
- B. jube [dʒuˈb]: an exclamation, like 'dam!'
- C. keeve [kʰiv]: to direct somebody in a precise direction
- D. wam [wam]: to completely relax on the beach
- E. easloff ['iːz · lɔf]: something difficult to manage
- F. kedid ['kʰɛ · rəd]: something cool or swell
- G. mavar ['meː · vaɪ]: a box of candy
- H. eyeyu ['aː · juː]: brightness in the morning
- I. narathooze ['næ · ɹə · θuːz]: nonsense
- J. phillontave ['fɪ · lən · tʰeɪv]: a bragging, obnoxious person
- K. lulurode ['luː · lə · ɹoːd]: flowery, embellished
- L. goxiwall ['gak · sə · wɔɪ]: pushing for a result
- M. cengastumine [sɪn · ɡæs · tə · maːn]: resolute
- N. poncrilader ['pʰɑŋ · kɹə · leː · ræ]: a car made into an object of art
- O. bowertilldew [,ba · wə · tʰɪl · duː]: a gathering of people to celebrate a ritual
- P. chocksaeheble ['tʃak · sə · hi · bəl]: something to grill on a campfire
- Q. whoagsafflerick [woːg · 'zæ · fəl · ɹɪk]: stupidity, arrogance, obnoxiousness
- R. tobecraydrub [tʰoː · bə · 'kreː · dɹəb]: a special victory in a sport, like baseball

Definitions Requiring Words

- S. the wad of hair removed when cleaning a hairbrush: NEStahf ['nɛs · taf]
- T. the grease that accumulates on top of a hot pizza: SPOOKnes ['spʰuːk · nɛs]
- U. an unexpected cool breeze on a sultry day: swahsh [swaʃ]
- V. the feeling experienced by a death-row inmate after being pardoned or exonerated: WAHFnes ['waf · nɛs]
- W. a feeling of extreme disappointment: GRURbeeng ['gr:ə · biːŋ]
- X. the feeling of being woken in the middle of the night by a strange noise: SKAtuhrehnes ['skʰæ · tʰə · r:ɛ · nɛs:]
- Y. the name of the remotest island on earth: keepuhDAYleeuh [kʰiː · pʰə · 'deː · liə]

Images Requiring Words

- Z.  skuhNAYshus [skə · 'neː · ʃəs]
- a.  duhBITEnes [də · 'baːt · nɛs]
- b.  bruhBEHruhtee [brə · 'beː · rə · ti]
- c.  brehBEHruhtee [brɛ · 'be · ɹə · tiʃ]
- d.  TWENtee ['tʰwɛn · tiʃ]
- e.  SKWAHNduhnes ['skwa:n · də · nɛs]
- f.  hooMUHNstuhtee [xuː · 'mʌn · stə · tiʃ]
- g.  VROONsuhdee ['vrʊn · sə · di]

Participant Data Sheet

Participant #: 17

Age: 19

Sex: F

Linguistic Background: native speaker: English

Question ID

Words Requiring Definitions

- A. smitch [smitʃ]: a little bit of something
- B. jube [dʒuˈb]: a sweet, seedless fruit
- C. keeve [kʰiv]: a hole you dig in the ground
- D. wam [wam]: a wind instrument in a marching band
- E. easloff ['iːz · lɔf]: a library, a place of peace
- F. kedid ['kʰɛ · rəd]: a dog kennel
- G. mavar ['meː · vaɪ]: a residential street
- H. eyeyu ['aː · juː]: a small reptile
- I. narathooze ['næ · ɹə · θuːz]: an upper respiratory or nasal infection
- J. phillontave ['fɪ · lən · tʰeɪv]: something done in way that is different than is customary
- K. lulurode ['luː · lə · ɹoːd]: a toy
- L. goxiwall ['gak · sə · wɔɪ]: a long sword
- M. cengastumine [sɪn · ˈgæs · tə · maːn]: a tank or related weapon
- N. poncrilader ['pʰɑŋ · kɹə · leː · rə]: a small arms weapon
- O. bowertilldew [ba · wə · tʰɪl · duː]: an activity that you wish to avoid
- P. chocksaeheble ['tʃak · sə · hi · bət]: a family game involving dice
- Q. whoagsafflerick [woːg · ˈzæ · fət · ɹɪk]: a rusted, long sword
- R. tobecraydrub [tʰoː · bə · ˈkɹeɪ · dɹəb]: a pink and purple plant with circular leaves

Definitions Requiring Words

- S. the wad of hair removed when cleaning a hairbrush: KLAHbulhahf ['kʰla · bʰɪ · haf]
- T. the grease that accumulates on top of a hot pizza: NANdeefahr ['næn · diː · faɪ]
- U. an unexpected cool breeze on a sultry day: SNAvuhrpaw ['snæ · və · pʰa]
- V. the feeling experienced by a death-row inmate after being pardoned or exonerated: hahrf [haɪf]
- W. a feeling of extreme disappointment: SAPulwahsh ['sæ · pʰɪ · waɪ]
- X. the feeling of being woken in the middle of the night by a strange noise: AZnuf ['æz · nɒf]
- Y. the name of the remotest island on earth: PLEHfurtaw ['pʰle · fə · tʰa]

Images Requiring Words

- Z.  SAfee ['sæ · fiː]
- a.  BINduhl ['bɪn · dʰɪ]
- b.  PLANdee ['pʰlæn · diː]
- c.  GREHpul ['gɹɛ · pʰɪ]
- d.  WAHlin ['wa · lɪn]
- e.  BLAthin ['blæ · θɪn]
- f.  Asuhrtahl ['æ · sə · tʰaɪ]
- g.  ooNAIdée [uː · ˈnaː · riː]

Participant Data Sheet

Participant #: 18

Age: 19

Sex: F

Linguistic Background: native speaker: English; beginning learner: French, Spanish

Question ID

Words Requiring Definitions

- A. smitch [smitʃ]: a glove used in sports, like a baseball mitt
- B. jube [dʒuˈb]: a pejorative term for a person, a dork
- C. keeve [kʰiv]: a valuable keepsake
- D. wam [wam]: a medium-sized animal with a short tail that lives in the jungle
- E. easloff ['iːz · lɔf]: a muscular, tall person
- F. kedid ['kʰɛ · rəd]: to dust something
- G. mavar ['meː · vaɪ]: a large wooden boat
- H. eyeyu ['aː · juː]: a computer program
- I. narathooze ['næ · ɹə · θuːz]: a cold medicine, nasal spray
- J. phillontave ['fɪ · lən · tʰeɪv]: a bone or cartilage in the nose
- K. lulurode ['luː · lə · ɹoːd]: a pipe snake
- L. goxiwall ['gak · sə · wɔɪ]: a type of tropical bird
- M. cengastumine [sɪn · ɡæs · tə · maɪn]: to ignore something
- N. poncrilader ['pʰɑŋ · kɹə · leɪ · ræ]: a portable heart monitor
- O. bowertilldew [ba · wə · tʰɪl · duː]: implying the wish to procrastinate
- P. chocksaeheble ['tʃak · sə · hi · bæ]: a clown's prop, general term for a whimsical object
- Q. whoagsafflerick [woːg · 'zæ · fəl · ɹɪk]: to be astonished
- R. tobecraydrub [tʰoː · bæ · 'kreɪ · dɹəb]: a tall plant with a purple flower

Definitions Requiring Words

- S. the wad of hair removed when cleaning a hairbrush: mair [mæɪɹ]
- T. the grease that accumulates on top of a hot pizza: splaynk [spleɪŋk]
- U. an unexpected cool breeze on a sultry day: flihsh [flɪʃ]
- V. the feeling experienced by a death-row inmate after being pardoned or exonerated: VLASkis ['vlæs · kɪs]
- W. a feeling of extreme disappointment: MAHNnuhree ['ma · nə · ɹɪ]
- X. the feeling of being woken in the middle of the night by a strange noise: METHruhl ['mɛθ · ɹʰ]
- Y. the name of the remotest island on earth: bihZAHro [bɪ · 'za · ɹoː]

Images Requiring Words

- Z.  WIHzuhree ['wɪ · zə · ɹɪ]
- a.  yorsh [jɔɪʃ]
- b.  blæss [blæs]
- c.  AHRnuhmik ['aɹ · nə · mɪk]
- d.  SLAdik ['slæ · rɪk]
- e.  FYOUNuhr ['fɪuː · nə]
- f.  KRAHnuhr ['kʰɹə · nə]
- g.  MARmis ['maɹ · mɪs]

Participant Data Sheet

Participant #: 19

Age: 19

Sex: F

Linguistic Background: native speaker: Spanish; beginning learner: English, French

Question ID

Words Requiring Definitions

- A. smitch [smitʃ]: a smoothie
- B. jube [dʒuˈb]: something to scuba dive in
- C. keeve [kʰiv]: to give
- D. wam [wam]: swimming
- E. easloff ['iːz · lɔf]: something soft, like a pillow
- F. kedid ['kʰɛ · rəd]: a cowboy hat
- G. mavar ['meː · vaɪ]: an insect like a moth
- H. eyeyu ['aː · juː]: Chinese seafood
- I. narathooze ['næ · ɹə · θuːz]: a parade
- J. phillontave ['fɪ · lən · tʰeɪv]:
- K. lulurode ['luː · lə · ɹoːd]: a hippopotamus
- L. goxiwall ['gak · sə · wɔɪ]:
- M. cengastumine [sɪn · ˈgæs · tə · maːn]: a stomach ache
- N. poncrilader ['pʰɑŋ · kɹə · leː · ræ]:
- O. bowertilldew [ba · wə · tʰɪl · duː]:
- P. chocksaeheble ['tʃak · sə · hi · bəɪ]:
- Q. whoagsafflerick [woːg · ˈzæ · fəɪ · ɹɪk]:
- R. tobecraydrub [tʰoː · bə · ˈkɹeɪ · dɹəb]:

Definitions Requiring Words

- S. the wad of hair removed when cleaning a hairbrush:
- T. the grease that accumulates on top of a hot pizza: OOghas ['u · gas]
- U. an unexpected cool breeze on a sultry day: REEchee ['ɹi · tʃi]
- V. the feeling experienced by a death-row inmate after being pardoned or exonerated: NAHnee ['na · ni]
- W. a feeling of extreme disappointment:
- X. the feeling of being woken in the middle of the night by a strange noise: SOOpeesh ['su · piʃ]
- Y. the name of the remotest island on earth: KOKo ['ko · ko]

Images Requiring Words

Z. 

a. 

soul [soʊ]

b. 

c. 

d. 

shahn [ʃan]

e. 

kreek [kɹɪk]

f. 

g. 

durk [dɜrk]

Participant Data Sheet

Participant #: 20

Age: 65

Sex: M

Linguistic Background: native speaker: English; beginning learner: Spanish, Italian, Latin, Japanese

Question ID

Words Requiring Definitions

- A. smitch [smitʃ]: a traitor
- B. jube [dʒuˈb]: a gentile
- C. keeve [kʰiv]: a scoundrel
- D. wam [wam]: a wig
- E. easloff ['iːz · lɔf]: a pulley
- F. kedid ['kʰɛ · rəd]: cantered
- G. mavar ['meː · vaɪ]: a nave
- H. eyeyu ['aː · juː]: an igloo
- I. narathooze ['næ · ɹə · θuːz]: happy
- J. phillontave ['fɪ · lən · tʰeɪv]: dumb (not intelligent)
- K. lulurode ['luː · lə · ɹoːd]: exuberant
- L. goxiwall ['gak · sə · wɔt]: smacked
- M. cengastumine [sɪn · 'gæs · tə · maɪn]: odd
- N. poncrilader ['pʰɑŋ · kɹə · leː · ræ]: a gasket
- O. bowertilldew [ba · wə · 'tʰɪl · duː]: a garden
- P. chocksaeheble ['tʃɑk · sə · hi · bət]: an Indian tribe
- Q. whoagsafflerick [woːg · 'zæ · fət · ɹɪk]: folly
- R. tobecraydrub [tʰoː · bə · 'kreː · dɹəb]: craven

Definitions Requiring Words

- S. the wad of hair removed when cleaning a hairbrush: SKAHMful ['skam · fəʃ]
- T. the grease that accumulates on top of a hot pizza: OHleeyus ['oː · liː · jəs]
- U. an unexpected cool breeze on a sultry day: kuhLDIHfish [kʰɪ · 'dɪ · fɪ]
- V. the feeling experienced by a death-row inmate after being pardoned or exonerated: reeHULLtuhnt [ɹiː · 'hʌt · tənt]
- W. a feeling of extreme disappointment: dihZastuhrfihKAYshin [dɪ · zæ · stə · fə · 'kʰeː · ʃɪn]
- X. the feeling of being woken in the middle of the night by a strange noise: SLIHpook ['slɪ · pʰuːk]
- Y. the name of the remotest island on earth: WAYfla ['weː · flæ]

Images Requiring Words

- Z.  fanTAYshin [fæn · tʰeː · ʃɪn]
- a.  pruhst [pʰɹʌst]
- b.  ZOOLuf ['zuː · ləf]
- c.  puhLAYshis [pə · 'leː · ʃɪs]
- d.  SOHfand ['soː · fænd]
- e.  kwihLAYshin [kʰwɪ · 'leː · ʃɪn]
- f.  infihNEEshis [ɪn · fɪ · 'niː · ʃɪs]
- g.  RANjurd [ɹæn · dʒərd]

Participant Data Sheet

Participant #: 21

Age: 65

Sex: M

Linguistic Background: native speaker: English; beginning learner: French, Spanish

Question ID

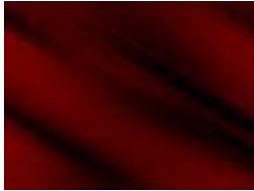
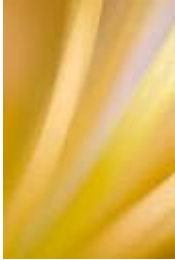
Words Requiring Definitions

- A. smitch [smitʃ]: a quilting term
- B. jube [dʒuˈb]: a round fruit like a grape or an avocado
- C. keeve [kʰiv]: a Russian dialect
- D. wam [wam]: Asian food
- E. easloff ['iːz · lɔf]: having to do with roads, highways, bridges
- F. kedid ['kʰɛ · rəd]: food cooked just right, between raw and burned
- G. mavar ['meː · vaɪ]: a color like mauve
- H. eyeyu ['aː · juː]: a term of kinship
- I. narathooze ['næ · ɹə · θuːz]: the path and shape of a river
- J. phillontave ['fɪ · lən · tʰeɪv]: a distinguished and retired person
- K. lulurode ['luː · lə · ɹoːd]: a child's game
- L. goxiwall ['gak · sə · wɔɪ]: describes the architecture of a castle
- M. cengastumine [sɪn · ˈgæs · tə · maːn]: something's chemical composition
- N. poncrilader ['pʰɑŋ · kɹə · leː · rə]: a mathematical device for making calculations
- O. bowertilldew [ba · wə · tʰɪl · duː]:
- P. chocksabeeble ['tʃak · sə · hi · bəɪ]:
- Q. whoagsafflerick [woːg · ˈzæ · fəɪ · ɹɪk]: a small animal, like a squirrel
- R. tobecraydrub [tʰoː · bə · ˈkɹeɪ · dɹəb]: descriptive of classical architecture

Definitions Requiring Words

- S. the wad of hair removed when cleaning a hairbrush: glaht [glat]
- T. the grease that accumulates on top of a hot pizza: slurm [sləm]
- U. an unexpected cool breeze on a sultry day: KAtik ['kʰæ · rɪk]
- V. the feeling experienced by a death-row inmate after being pardoned or exonerated: fihNELL [fɪ · ˈnɛɪ]
- W. a feeling of extreme disappointment: laht [lat]
- X. the feeling of being woken in the middle of the night by a strange noise: FORshan ['fɔɹ · ʃæn]
- Y. the name of the remotest island on earth: DEETehk ['diː · tʰɛk]

Images Requiring Words

- Z.  LAzur ['læ · zəɹ]
- a.  SHINtahk ['ʃɪn · tak]
- b.  WAVrum ['wæv · ɹəm]
- c.  EKsit ['ɛk · sɪt]
- d.  KHANjahr ['kʰan · dʒɑɹ]
- e.  MOLtuhr ['mɔɪ · təɹ]
- f.  SKOOTip ['skuː · tɪp]
- g.  muhLYEur [mə · ˈlaː · əɹ]

Participant Data Sheet

Participant #: 22

Age: 25

Sex: M

Linguistic Background: native speaker: English; beginning learner: Spanish, German

Question ID

Words Requiring Definitions

- A. smitch [smitʃ]: a short, bulky guy
- B. jube [dʒuˈb]: jambalaya-type food
- C. keeve [kʰiv]: a bright orange fruit
- D. wam [wam]: flying squirrel
- E. easloff ['iːz · lɔf]: an Arab man
- F. kedid ['kʰɛ · rəd]: describes a drunk person
- G. mavar ['meː · vaɪ]: a car part
- H. eyeyu ['aː · juː]: a cough drop
- I. narathooze ['næ · ɹə · θuːz]: a medicine for nasal congestion
- J. phillontave ['fɪ · lən · tʰeɪv]: a skinny, short person
- K. lulurode ['luː · lə · ɹoːd]: a dance
- L. goxiwall ['gak · sə · wɔɪ]: a type of waterfowl
- M. cengastumine [sɪn · ɡæs · tə · maːn]: an element from the periodic table
- N. poncrilader ['pʰɑŋ · kɹə · leː · ræ]: an air pump
- O. bowertilldew [,bə · wæ · tʰɪl · duː]: a fast dance where you shake your hips
- P. chocksabeeble ['tʃak · sə · hi · bəɪ]: a medicine like Pepto Bismol
- Q. whoagsafflerick [woːg · 'zæ · fəɪ · ɹɪk]: a plant like a fern
- R. tobecraydrub [tʰoː · bə · 'kreɪ · dɹəb]: a hypochondriac

Definitions Requiring Words

- S. the wad of hair removed when cleaning a hairbrush: WUHgee ['wu · gi]
- T. the grease that accumulates on top of a hot pizza: suhNITE [sə · 'naɪt]
- U. an unexpected cool breeze on a sultry day: woosh [wuːʃ]
- V. the feeling experienced by a death-row inmate after being pardoned or exonerated: AHya ['aː · ja]
- W. a feeling of extreme disappointment: huhMAD [hə · 'mæd]
- X. the feeling of being woken in the middle of the night by a strange noise: AIyee ['aː · ji]
- Y. the name of the remotest island on earth: shand [ʃænd]

Images Requiring Words

- Z.  ruhWOOD [ɹə · 'wud]
- a.  helt [hɛɪt]
- b.  welb [wɛɪb]
- c.  kuhPAN [kə · 'pʰæn]
- d.  SWIHtrip ['swɪ · tɹɪp]
- e.  muhKAHN [mə · 'kʰan]
- f.  uhTYE [ə · tʰaɪ]
- g.  dribDIB [dɹɪb · 'dɪb]

Participant Data Sheet

Participant #: 23

Age: 71

Sex: M

Linguistic Background: native speaker: English; beginning learner: Hindi, Arabic

Question ID

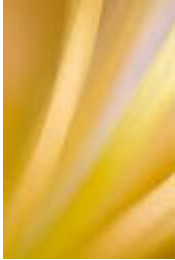
Words Requiring Definitions

- A. smitch [smitʃ]: a liar
- B. jube [dʒuˈb]: a grease monkey
- C. keeve [kʰiv]: a type of bread
- D. wam [wam]: an island
- E. easloff ['iːz · lɔf]: a war novel
- F. kedid ['kʰɛ · rəd]: something stamped
- G. mavar ['meː · vaɪ]: a friend
- H. eyeyu ['aː · juː]: a jackal-type animal
- I. narathooze ['næ · ɹə · θuːz]: a tree like an elm
- J. phillontave ['fɪ · lən · tʰeɪv]: a gas station
- K. lulurode ['luː · lə · ɹoːd]: a mountain trail
- L. goxiwall ['gək · sə · wɔɪ]: a medium-sized, dog-like animal
- M. cengastumine [sɪn · ˈgæs · tə · maːn]: a disease of the stomach
- N. poncrilader ['pʰɑŋ · kɹə · leː · rə]: a coffee pot
- O. bowertilldew [ˌba · wə · tʰɪl · duː]: a ship's bilge
- P. chocksaeheble ['tʃək · sə · hi · bəl]: Chinese food
- Q. whoagsafflerick [woːg · ˈzæ · fəl · ɹɪk]: a judge's robe
- R. tobecraydrub [tʰoː · bə · ˈkreː · dɹəb]: a stevedore

Definitions Requiring Words

- S. the wad of hair removed when cleaning a hairbrush: grunch [ɡɹʌntʃ]
- T. the grease that accumulates on top of a hot pizza: STEEruk ['stiː · ɹək]
- U. an unexpected cool breeze on a sultry day: zwihs [zwiːʃ]
- V. the feeling experienced by a death-row inmate after being pardoned or exonerated: RIBish ['ɹɪ · bɪʃ]
- W. a feeling of extreme disappointment: BOOgah ['buː · ga]
- X. the feeling of being woken in the middle of the night by a strange noise: ARbish ['aɹ · bɪʃ]
- Y. the name of the remotest island on earth: AHBshtun ['ab · ʃtʰən]

Images Requiring Words

- Z.  RANnuhk ['ɹæ · nək]
- a.  ahSHOON [a · ˈʃuːn]
- b.  AHboosh ['a · buːʃ]
- c.  SKANtush ['skæn · təʃ]
- d.  ahBAHSH [a · ˈbaʃ]
- e.  ZHERKnik ['zə · kʰ · nɪk]
- f.  NAKish ['næ · kɪʃ]
- g.  WUHNgur ['wʌŋ · gə]

Participant Data Sheet

Participant #: 24

Age: 69

Sex: F

Linguistic Background: native speaker: English

Question ID

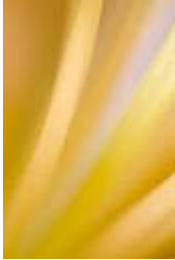
Words Requiring Definitions

- A. smitch [smitʃ]: a little bit
- B. jube [dʒuˈb]: a color like purple
- C. keeve [kʰiv]: a narrow passageway
- D. wam [wam]: a big, wide-open space
- E. easloff ['iːz · lɔf]: a feline-type animal
- F. kedid ['kʰɛ · rəd]: to be in a hurry
- G. mavar ['meː · vaɪ]: reminiscent of a Mexican
- H. eyeyu ['aː · juː]: to hit something
- I. narathooze ['næ · ɹə · θuːz]: a type of cloud composed of distinct ice crystals
- J. phillontave ['fɪ · lən · tʰeɪv]: a salad
- K. lulurode ['luː · lə · ɹoːd]: a chocolate candy bar
- L. goxiwall ['gak · sə · wɔɪ]: a big, tropical bird
- M. cengastumine [sɪn · gæs · tə · maːn]: a type of car
- N. poncrilader ['pʰɑŋ · kɹə · leː · rə]: a tool used in car repair
- O. bowertilldew [ba · wə · tʰɪl · duː]: a building game involving connecting pieces
- P. chocksabeeble ['tʃak · sə · hi · bəɪ]: a mixture of various snack foods, like a Chex mix
- Q. whoagsafflerick [woːg · 'zæ · fəɪ · ɹɪk]: a tropical island
- R. tobecraydrub [tʰoː · bə · 'kɹeɪ · dɹəb]: a snow-covered, cold mountain

Definitions Requiring Words

- S. the wad of hair removed when cleaning a hairbrush: youMUHtuh [juː · 'mʌ · tə]
- T. the grease that accumulates on top of a hot pizza: PEHKmoo ['pʰɛk · muː]
- U. an unexpected cool breeze on a sultry day: yahnBEARin [jan · 'bæ · ɹɪn]
- V. the feeling experienced by a death-row inmate after being pardoned or exonerated: YIMmeeyay ['jɪ · miː · jeɪ]
- W. a feeling of extreme disappointment: WOEbahn ['woː · ban]
- X. the feeling of being woken in the middle of the night by a strange noise: WOEyak ['woː · jæk]
- Y. the name of the remotest island on earth: YAIwahn ['jaɪ · wan]

Images Requiring Words

- Z.  SLYdud ['slaɪ · rəd]
- a.  YAKmee ['jæk · miː]
- b.  HAHRlee ['haɪ · liː]
- c.  DINGfuhrah ['dɪŋ · fə · ɹə]
- d.  KYOUzee ['kʰjuː · ziː]
- e.  WEEnofone ['wiː · noː · foːn]
- f.  GAYden ['geɪ · rən]
- g.  STRAHvis ['stʌ · vis]

Participant Data Sheet

Participant #: 25

Age: 73

Sex: F

Linguistic Background: native speaker: English

Question ID

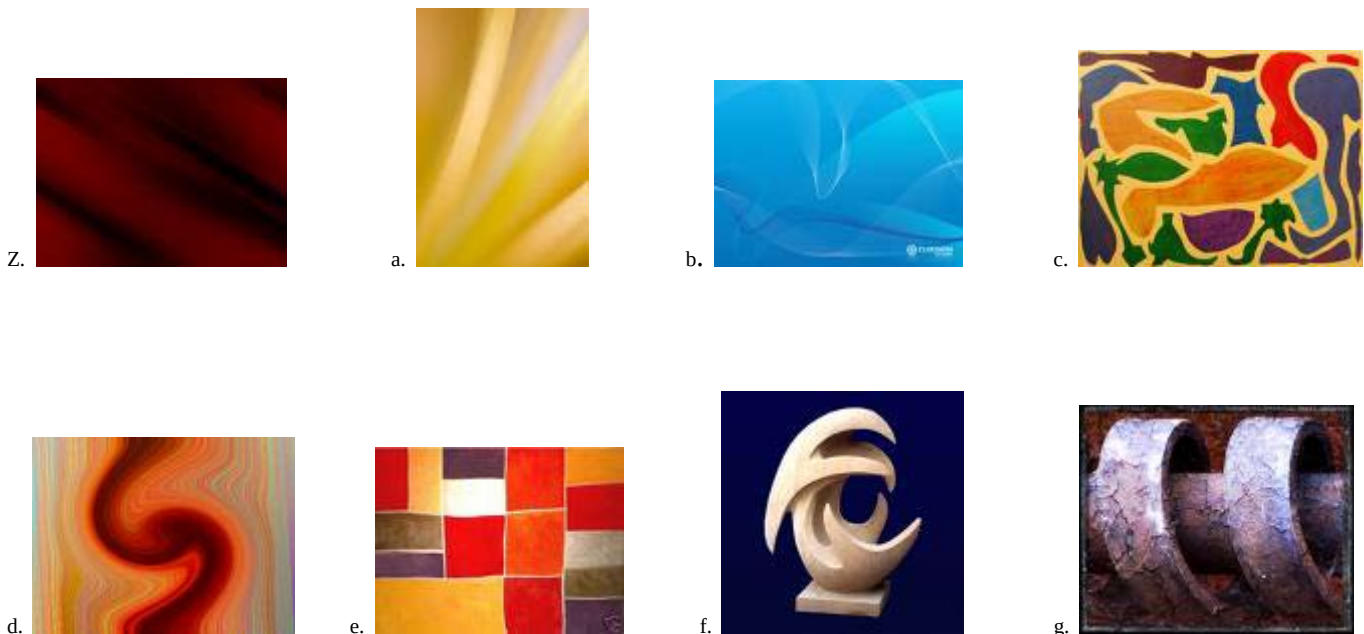
Words Requiring Definitions

- A. smitch [smitʃ]: a small amount
- B. jube [dʒuˈb]: a quantity expression for a group of things, like a dozen
- C. keeve [kʰiv]: a quantity of fruit
- D. wam [wam]: stormy weather
- E. easloff ['iːz · lɔf]: a cart to carry things
- F. kedid ['kʰɛ · rəd]: to gather things together
- G. mavar ['meː · vaɪ]: a group of things
- H. eyeyu ['aː · juː]: an ordinal number
- I. narathooze ['næ · ɹə · θuːz]: one's thoughts
- J. phillontave ['fɪ · lən · tʰeɪv]: a measurement of time
- K. lulurode ['luː · lə · ɹoːd]: something heavy
- L. goxiwall ['gak · sə · wɔɪ]: a thatched roof
- M. cengastumine [sɪn · 'gæs · tə · maɪn]: a stomach disease
- N. poncrilader ['pʰɑŋ · kɹə · leɪ · ræ]: a meter for determining volume
- O. bowertilldew [,bə · wə · 'tʰɪl · duː]: to lift something
- P. chocksaeheble ['tʃak · sə · hi · bəɪ]: to draw or sketch
- Q. whoagsafflerick [woːg · 'zæ · fəɪ · ɹɪk]: reminiscent of a wolf
- R. tobecraydrub [tʰoː · bə · 'kreɪ · dɹəb]: something that is falling apart

Definitions Requiring Words

- S. the wad of hair removed when cleaning a hairbrush: NURdee ['næ · diː]
- T. the grease that accumulates on top of a hot pizza:
- U. an unexpected cool breeze on a sultry day:
- V. the feeling experienced by a death-row inmate after being pardoned or exonerated:
- W. a feeling of extreme disappointment:
- X. the feeling of being woken in the middle of the night by a strange noise:
- Y. the name of the remotest island on earth:

Images Requiring Words



Participant Data Sheet

Participant #: 26

Age: 64

Sex: F

Linguistic Background: native speaker: English; beginning learner: French, German, Spanish, Latin

Question ID

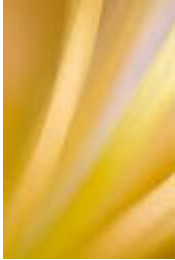
Words Requiring Definitions

- A. smitch [smitʃ]: a smear of color on a wall
- B. jube [dʒuˈb]: a new type of liquid makeup used to make you look younger
- C. keeve [kʰiv]: a type of martini that is a spinoff of the cosmopolitan
- D. wam [wam]: something warm and fuzzy that wraps around you
- E. easloff ['iːz · lɔf]: a defense attorney who hasn't done his homework
- F. kedid ['kʰɛ · rəd]: an item that has fallen into the possession of a dog and is destroyed
- G. mavar ['meː · vaɪ]: a type of rose that has the fragrance of lavender
- H. eyeyu ['aː · juː]: a stimulant added to green tea
- I. narathooze ['næ · ɹə · θuːz]: an emollient for the feet
- J. phillontave ['fɪ · lən · tʰeɪv]: an oriental grass that grows in a marsh
- K. lulurode ['luː · lə · ɹoːd]: an ingredient in a perfume that Angelina Jolie is working on
- L. goxiwall ['gak · sə · wɔɪ]: a seasoning salt for cooking shellfish
- M. cengastumine [sɪn · gæs · tə · maɪn]: a city in Croatia that one would enjoy visiting
- N. poncrilader ['pʰɑŋ · kɹə · leɪ · rə]: a flavor of ice cream with cherries and nuts
- O. bowertilldew [ba · wə · tʰɪl · duː]: a mountain in Siberia that one would like to climb
- P. chocksabeeble ['tʃak · sə · hi · bəɪ]: a newly described lung disease found in people who live on a dirt road
- Q. whoagsafflerick [woːg · 'zæ · fəɪ · ɹɪk]: a Himalayan mountain camp
- R. tobecraydrub [tʰoː · bə · 'kɹeɪ · dɹəb]: a type of leafy, oriental vegetable

Definitions Requiring Words

- S. the wad of hair removed when cleaning a hairbrush: SPRInguhluh ['spɹɪŋ · gə · lə]
- T. the grease that accumulates on top of a hot pizza: yish [ɪʃ]
- U. an unexpected cool breeze on a sultry day: Evunz ['ɛ · vʊnz]
- V. the feeling experienced by a death-row inmate after being pardoned or exonerated: yeefs [jiːfs]
- W. a feeling of extreme disappointment: ahsh [aʃ]
- X. the feeling of being woken in the middle of the night by a strange noise: yiks [ɪks]
- Y. the name of the remotest island on earth: EYESbyeyulz ['aɪz · baɪ · jɛz]

Images Requiring Words

- Z.  ish [ɪʃ]
- a.  ites [aɪts]
- b.  ooze [uːz]
- c.  WYuhldyke ['waɪ · ɹə · daɪk]
- d.  Anurest ['æ · nɹə · ɹɛst]
- e.  VYbris ['vaɪ · bɹɪs]
- f.  pahKAHSyou [pa · 'kʰas · juː]
- g.  guhRAHjist [gə · ɹə · dʒɪst]

Participant Data Sheet

Participant #: 27

Age: 24

Sex: F

Linguistic Background: native speaker: English, Spanish; beginning learner: Italian

Question ID

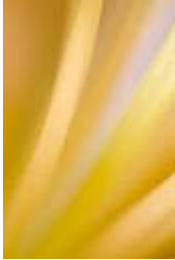
Words Requiring Definitions

- A. smitch [smitʃ]: a measurement for a perfect fit
- B. jube [dʒuˈb]: an instrument like a trumpet
- C. keeve [kʰiv]: a collision between objects
- D. wam [wam]: a metallic pot
- E. easloff ['iːz · lɔf]: a mountainous location
- F. kedid ['kʰɛ · rəd]: to scurry away
- G. mavar ['meː · vaɪ]: a military airplane
- H. eyeyu ['aː · juː]: a small, furry rodent
- I. narathooze ['næ · ɹə · θuːz]: a disease
- J. phillontave ['fɪ · lən · tʰeɪv]: a type of chemical
- K. lulurode ['luː · lə · ɹoːd]: a planet
- L. goxiwall ['gak · sə · wɔɪ]: a parrot
- M. cengastumine [sɪn · gæs · tə · maɪn]: an internal organ
- N. poncrilader ['pʰɑŋ · kɹə · leɪ · ræ]: (like) a lump on a log, something sluggish
- O. bowertilldew [,ba · wə · tʰɪl · duː]: a drill-like tool used to fashion wood
- P. chocksabeeble ['tʃak · sə · hi · bəɪ]: name of an ancient tribe of Native Americans
- Q. whoagsafflerick [woːg · 'zæ · fəɪ · ɹɪk]: an animal in the Zebra family
- R. tobecraydrub [tʰoː · bə · 'kɹeɪ · dɹəb]: a type of East Indian food

Definitions Requiring Words

- S. the wad of hair removed when cleaning a hairbrush: SKOObul ['skuː · bʌɪ]
- T. the grease that accumulates on top of a hot pizza: ROWjuhn ['ɹoː · dʒəɪ]
- U. an unexpected cool breeze on a sultry day: SLAzhfy ['slæ · zɪ · faɪ]
- V. the feeling experienced by a death-row inmate after being pardoned or exonerated: TEEturd ['tʰiː · rəd]
- W. a feeling of extreme disappointment: JOOstihfyd ['dʒuː · sti · faɪd]
- X. the feeling of being woken in the middle of the night by a strange noise: klookt [kʰluːkt]
- Y. the name of the remotest island on earth: ZEEpuhluhthahn ['ziː · pʰə · lə · θɑn]

Images Requiring Words

- Z.  zeeNYAHnuhn [ziː · 'njɔ · nəɪ]
- a.  uhLOObruh [ə · 'luː · bɹə]
- b.  MEEleeyum ['miː · li · jəɪ]
- c.  TEENtyoulow ['tʰiːn · tʰjəː · loː]
- d.  sklookt [skluːkt]
- e.  reejd [ɹiːdʒd]
- f.  gooSAHfruhgus [guː · 'sa · fɹə · gəs]
- g.  roomTEKtuhkul [ɹuːm · tʰɛk · tə · kʌɪ]

Participant Data Sheet

Participant #: 28

Age: 32

Sex: M

Linguistic Background: native speaker: English; beginning learner: Spanish

Question ID

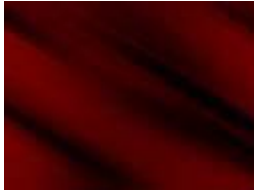
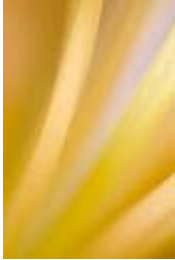
Words Requiring Definitions

- A. smitch [smitʃ]: a small quantity of something
- B. jube [dʒuˈb]: an oblong, round shape
- C. keeve [kʰiv]: to push something out of the way
- D. wam [wam]: an object you would sit in
- E. easloff ['iːz · lɔf]: a feeling of happiness
- F. kedid ['kʰɛ · rəd]: to be shorted on something
- G. mavar ['meː · vaɪ]: a small, southern town
- H. eyeyu ['aː · juː]: an African animal like a deer, with antlers
- I. narathooze ['næ · ɹə · θuːz]: a small passageway
- J. phillontave ['fɪ · lən · tʰeɪv]: to exchange something for something else
- K. lulurode ['luː · lə · ɹoːd]: a fast-paced dance
- L. goxiwall ['gak · sə · wɔɪ]: a mistake you would want to cover up
- M. cengastumine [sɪn · gæs · tə · maɪn]: a place you've never been before
- N. poncrlader ['pʰɑŋ · kɹə · leɪ · rə]: an intermediary in an argument
- O. bowertilldew [ba · wə · tʰɪl · duː]: an event to celebrate something
- P. chocksabeeble ['tʃak · sə · hi · bəɪ]: a big mess
- Q. whoagsafflerick [woːg · 'zæ · fəɪ · ɹɪk]: to exaggerate about something, to stretch the truth
- R. tobecraydrub [tʰoː · bə · 'kreɪ · dɹəb]: a mathematical equation

Definitions Requiring Words

- S. the wad of hair removed when cleaning a hairbrush: SHMEguhlulh ['ʃmɛ · gə · lə]
- T. the grease that accumulates on top of a hot pizza: SIHneeyatur ['sɪ · niː · jeɪ · rə]
- U. an unexpected cool breeze on a sultry day: TIPsuhlayteeng ['tʰɪp · sə · leɪ · rɪŋ]
- V. the feeling experienced by a death-row inmate after being pardoned or exonerated: LIHgunstyne ['lɪ · gʊŋ · staɪn]
- W. a feeling of extreme disappointment: SHAHniksaymin ['ʃa · nɪk · seɪ · mɪn]
- X. the feeling of being woken in the middle of the night by a strange noise: BLAYgurd ['bleɪ · gəɪd]
- Y. the name of the remotest island on earth: PIGuhnaree ['pʰɪ · gə · næ · ɹɪ]

Images Requiring Words

- Z.  RIZlin ['ɹɪz · lɪn]
- a.  SINtree ['sɪn · tɹɪ]
- b.  WELLfur ['wel · fə]
- c.  SUNfrin ['sʌn · frɪn]
- d.  GANgurleeng ['gæŋ · gə · lɪŋ]
- e.  PIHduhlaytur ['pʰɪ · rʰɪ · eɪ · rə]
- f.  GRAPshur ['græp · ʃʊ]
- g.  BLAHZleeng ['blaz · lɪŋ]

Participant Data Sheet

Participant #: 29

Age: 64

Sex: F

Linguistic Background: native speaker: English; beginning learner: Spanish

Question ID

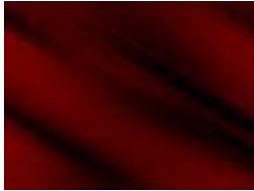
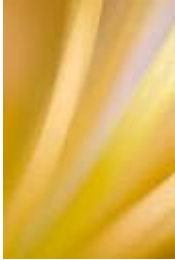
Words Requiring Definitions

- A. smitch [smitʃ]: small
- B. jube [dʒuˈb]: a stone
- C. keeve [kʰiv]: to keel over
- D. wam [wam]: silent
- E. easloff ['iːz · lɔf]: to begin
- F. kedid ['kʰɛ · rəd]: close
- G. mavar ['meː · vaɪ]: work
- H. eyeyu ['aː · juː]: to begin
- I. narathooze ['næ · ɹə · θuːz]: playful
- J. phillontave ['fɪ · lən · tʰeɪv]: to dig
- K. lulurode ['luː · lə · ɹoːd]: an old, WW2-style airplane
- L. goxiwall ['gak · sə · wɔɪ]: an alien monster
- M. cengastumine [sɪn · ɡæs · tə · maɪn]: an illness of the immune system
- N. poncrilader ['pʰɑŋ · kɹə · leɪ · ræ]: a balloon
- O. bowertilldew [ba · wə · tʰɪl · duː]: an army tank
- P. chocksaeheble ['tʃak · sə · hi · bəɪ]: a stand of logs
- Q. whoagsafflerick [woːg · ˈzæ · fəɪ · ɹɪk]: weeds
- R. tobecraydrub [tʰoː · bə · ˈkɹeɪ · dɹəb]: a religious denomination

Definitions Requiring Words

- S. the wad of hair removed when cleaning a hairbrush: buhDUNK [bə · ˈdʌŋk]
- T. the grease that accumulates on top of a hot pizza: slesh [sɬɛʃ]
- U. an unexpected cool breeze on a sultry day: POOteek ['pʰuː · tiːk]
- V. the feeling experienced by a death-row inmate after being pardoned or exonerated: THANkree ['θæŋ · kɹi]
- W. a feeling of extreme disappointment: SEEkuhm ['siː · kəɪ]
- X. the feeling of being woken in the middle of the night by a strange noise: freeg [fɹiːg]
- Y. the name of the remotest island on earth: uhTOOwul [ə · tʰuː · wɔɪ]

Images Requiring Words

- Z.  SEElee ['siː · li]
- a.  YELbee ['jɛɪ · bi]
- b.  BLOshun ['bloː · ʃən]
- c.  uhTRYgul [ə · tʰɹaɪ · gɪ]
- d.  LOWgrain ['loː · ɡɹeɪn]
- e.  SKWAHrul ['skwa · ɹɪ]
- f.  kuhMAHRstone [kə · ˈmaɪ · stoːn]
- g.  EYEstorust ['aɪ · stoː · ɹəst]

Participant Data Sheet

Participant #: 30

Age: 71

Sex: M

Linguistic Background: native speaker: English; beginning learner: Spanish

Question ID

Words Requiring Definitions

- A. smitch [smitʃ]: a small quantity of something
- B. jube [dʒuˈb]: a stocky, little guy
- C. keeve [kʰiv]: to cave in, collapse
- D. wam [wam]: something wound up
- E. easloff ['iːz · lɔf]: a big, Scandinavian man
- F. kedid ['kʰɛ · rəd]: a completed activity
- G. mavar ['meː · vaɪ]: an agenda
- H. eyeyu ['aː · juː]: an inlet on an island
- I. narathooze ['næ · ɹə · θuːz]: to be close in proximity
- J. phillontave ['fɪ · lən · tʰeɪv]: a tree like an orange tree
- K. lulurode ['luː · lə · ɹoːd]: a (small) rope
- L. goxiwall ['gak · sə · wɔɪ]: a short walk
- M. cengastumine [sɪn · ɡæs · tə · maːn]: a stomach problem
- N. poncrilader ['pʰɑŋ · kɹə · leː · rə]: the means of achieving an end
- O. bowertilldew [bə · wə · tʰɪl · duː]: a time late in the day
- P. chocksaeheble ['tʃak · sə · hi · bəɪ]: something that hasn't been done
- Q. whoagsafflerick [woːg · 'zæ · fəɪ · ɹɪk]: a type of natural material for a garment
- R. tobecraydrub [tʰoː · bə · 'kreɪ · dɹəb]: a garment to protect against rain or snow

Definitions Requiring Words

- S. the wad of hair removed when cleaning a hairbrush: FOLkuhn ['fɔɪ · kən]
- T. the grease that accumulates on top of a hot pizza: zihk [zɪk]
- U. an unexpected cool breeze on a sultry day: OHkuhn ['oː · kən]
- V. the feeling experienced by a death-row inmate after being pardoned or exonerated: ALLfuhn ['ɑɪ · fən]
- W. a feeling of extreme disappointment: DRAdun ['dɹæ · rən]
- X. the feeling of being woken in the middle of the night by a strange noise: ARTfuhn ['ɑɪt · fən]
- Y. the name of the remotest island on earth: ALLmed ['ɑɪ · mɛd]

Images Requiring Words

- Z.  states [steɪts]
- a.  LEEtuhn ['liː · ʔən]
- b.  DEHpahn ['de · pən]
- c.  MOOnee ['muː · ni]
- d.  SURree ['sə · ri]
- e.  LOOzee ['luː · zi]
- f.  AHRvee ['ɑɪ · vi]
- g.  Anihkul ['æ · nɪ · kəl]

Participant Data Sheet

Participant #: 31

Age: 71

Sex: M

Linguistic Background: native speaker: English; beginning learner: German, Slovenian, Italian, Spanish, Latin, Classical Greek

Question ID

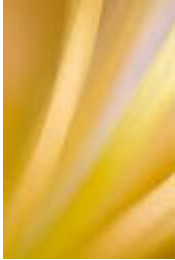
Words Requiring Definitions

- A. smitch [smitʃ]: small
- B. jube [dʒuˈb]: to stop
- C. keeve [kʰiv]: something sharp, pointed
- D. wam [wam]: a Chinese soup
- E. easloff ['iːz · lɔf]: something smooth, relaxed
- F. kedid ['kʰɛ · rəd]: something sharp, pointed
- G. mavar ['meː · vaɪ]: something comfortable, soft
- H. eyeyu ['aː · juː]: a worm
- I. narathooze ['næ · ɹə · θuːz]: something to do with the nose, smell
- J. phillontave ['fɪ · lən · tʰeɪv]: a mechanical tool used for levering
- K. lulurode ['luː · lə · ɹoːd]: a small, purple flower
- L. goxiwall ['gak · sə · wɔɪ]: someone raspy in voice
- M. cengastumine [sɪn · ɡæs · tə · maːn]: a medicine for the sinuses
- N. poncrlader ['pʰɑŋ · kɹə · leː · ræ]: a tool like an awl
- O. bowertilldew [ba · wə · tʰɪl · duː]: a wooded place
- P. chocksaeheble ['tʃak · sə · hi · bəɪ]: a mechanical device like a clamp
- Q. whoagsafflerick [woːg · 'zæ · fəɪ · ɹɪk]: a water dam
- R. tobecraydrub [tʰoː · bə · 'kreɪ · dɹəb]: a snow sled

Definitions Requiring Words

- S. the wad of hair removed when cleaning a hairbrush: smuch [smatʃ]
- T. the grease that accumulates on top of a hot pizza: FLAjee ['flæ · dʒiː]
- U. an unexpected cool breeze on a sultry day: oom [uːm]
- V. the feeling experienced by a death-row inmate after being pardoned or exonerated: wuh [wʌh]
- W. a feeling of extreme disappointment: gruh [ɡɹʌh]
- X. the feeling of being woken in the middle of the night by a strange noise: yuh [jʌχ]
- Y. the name of the remotest island on earth: EEjee ['iː · dʒiː]

Images Requiring Words

- Z.  bluh [blʌh]
- a.  brah [brah]
- b.  woo [wuː]
- c.  kras [kʰræs]
- d.  spuhr [spəu] (schwa raised)
- e.  hah [hɑ]
- f.  oo [uː]
- g.  stah [stah]

Participant Data Sheet

Participant #: 32

Age: 65

Sex: M

Linguistic Background: native speaker: English; beginning learner: French

Question ID

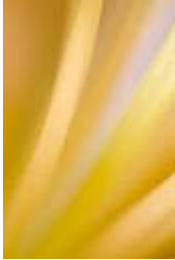
Words Requiring Definitions

- A. smitch [smitʃ]: a muddy substance
- B. jube [dʒuˈb]: a jar
- C. keeve [kʰiv]: a small opening
- D. wam [wam]: represents an explosion
- E. easloff ['iːz · lɔf]: access to a highway
- F. kedid ['kʰɛ · rəd]: something soft, like a pillow
- G. mavar ['meː · vaɪ]: an exceptional person
- H. eyeyu ['aː · juː]: a mountain pass
- I. narathooze ['næ · ɹə · θuːz]: the deck of a U-boat
- J. phillontave ['fɪ · lən · tʰeɪv]: a big spender
- K. lulurode ['luː · lə · ɹoːd]: a crazy woman
- L. goxiwall ['gak · sə · wɔɪ]: an inland sea passageway
- M. cengastumine [sɪn · 'gæs · tə · maːn]: to break through a surface
- N. poncrilader ['pʰɑŋ · kɹə · leː · rə]: a guy with a tanker truck
- O. bowertilldew [ba · wə · 'tʰɪl · duː]: a highway through the Amazon
- P. chocksaeheble ['tʃak · sə · hi · bəl]: a temple in Mexico
- Q. whoagsafflerick [woːg · 'zæ · fəl · ɹɪk]: a really mad person
- R. tobecraydrub [tʰoː · bə · 'kreɪ · dɹəb]: drunks at a bar

Definitions Requiring Words

- S. the wad of hair removed when cleaning a hairbrush: drek [dɹɛk]
- T. the grease that accumulates on top of a hot pizza: skrum [skɹʌm]
- U. an unexpected cool breeze on a sultry day: kuhMAstik [kə · 'mæ · stɪk]
- V. the feeling experienced by a death-row inmate after being pardoned or exonerated: puhDAnik [pə · 'dæ · nɪk]
- W. a feeling of extreme disappointment: ROWCHnis ['ɹoʊtʃ · nɪs]
- X. the feeling of being woken in the middle of the night by a strange noise: KREHrunce ['kʰɹɛ · ɹəŋs]
- Y. the name of the remotest island on earth: SNARvunce ['snæɹ · vʌŋs]

Images Requiring Words

- Z.  SNARvunce ['snæɹ · vʌŋs]
- a.  BLIHvuntahrnce ['blɪ · vʌŋ · tʰʌns]
- b.  KREHrunce ['kʰɹɛ · ɹəŋs]
- c.  krihmuhZAtik [kɹɪ · mə · 'za · rɪk]
- d.  likwuhNYzuh [lɪ · kwə · 'naː · zə]
- e.  kruhDAHNzo [kʰɹə · 'dan · zoː]
- f.  SPLIHnik ['splɪ · nɪk]
- g.  ruhDAzeeo [ɹə · 'dæ · ziː · oː]

Participant Data Sheet

Participant #: 33

Age: 66

Sex: M

Linguistic Background: native speaker: English; beginning learner: German

Question ID

Words Requiring Definitions

- A. smitch [smitʃ]: to tell on someone
- B. jube [dʒuˈb]: a fast dance step
- C. keeve [kʰiv]: a spicy chicken dish
- D. wam [wam]: the sound of an impact
- E. easloff ['iːz · lɔf]: a country like those in Tolkien's "Lord of the Rings"
- F. kedid ['kʰɛ · rəd]: a type of lettuce, like kale
- G. mavar ['meː · vaɪ]: a fencing sword
- H. eyeyu ['aː · juː]: a small boat the Eskimos would use
- I. narathooze ['næ · ɹə · θuːz]: an old, grey-headed man
- J. phillontave ['fɪ · lən · tʰeɪv]: a smooth, upholstered fabric
- K. lulurode ['luː · lə · ɹoːd]: a carefree person
- L. goxiwall ['gak · sə · wɔɪ]: Spanish-type architecture
- M. cengastumine [sɪn · gæs · tə · maːn]: a synonym
- N. poncrilader ['pʰɑŋ · kɹə · leː · ræ]: a coffee pot
- O. bowertilldew [bə · wæ · tʰɪl · duː]: an anchor on a boat
- P. chocksabeeble ['tʃak · sə · hi · bæ]: a pile of various, countable pieces
- Q. whoagsafflerick [woːg · 'zæ · fəl · ɹɪk]: someone who commits a serious crime
- R. tobecraydrub [tʰoː · bæ · 'kreː · dɹəb]: a slothful creature of the forest

Definitions Requiring Words

- S. the wad of hair removed when cleaning a hairbrush: POPuhluhs ['pʰɑ · pə · ləs]
- T. the grease that accumulates on top of a hot pizza: SWIHgul ['swɪ · gʷ]
- U. an unexpected cool breeze on a sultry day: LAHFtoo ['laf · tuː]
- V. the feeling experienced by a death-row inmate after being pardoned or exonerated: URgah ['ə · ga]
- W. a feeling of extreme disappointment: bleuf [bløf]
- X. the feeling of being woken in the middle of the night by a strange noise: ark [ɑɪk]
- Y. the name of the remotest island on earth: SANfahr ['sæn · faɪ]

Images Requiring Words

- Z.  dahrf [daɪf]
- a.  swipf [swɪpʃ]
- b.  smool [smuːl]
- c.  PLApee ['pʰlæ · piː]
- d.  naysh [neːʃ]
- e.  ploag [pʰloːg]
- f.  neeYOWF [niː · 'jaːf:]
- g.  maynk [meːŋk]

Participant Data Sheet

Participant #: 34

Age: 20

Sex: M

Linguistic Background: native speaker: English; beginning learner: French, Spanish, Portuguese

Question ID

Words Requiring Definitions

- A. smitch [smitʃ]: a small portion of something
- B. jube [dʒuˈb]: a round bouncing object
- C. keeve [kʰiv]: a small crevice in a rock wall
- D. wam [wam]: a wind instrument, like a didgeridoo
- E. easloff ['iːz · lɔf]: a Germanic language
- F. kedid ['kʰɛ · rəd]: to terminate a game early when a probable outcome has been determined
- G. mavar ['meː · vaɪ]: arthritis medication
- H. eyeyu ['aː · juː]: a hut like those in Africa
- I. narathooze ['næ · ɹə · θuːz]: to sneak around and rifle through somebody's things
- J. phillontave ['fi · lən · tʰeɪv]: to compose a piece of music
- K. lulurode ['luː · lə · ɹoːd]: a shortcut on a road trip
- L. goxiwall ['gak · sə · wɔɪ]: supports a building like a flying buttress
- M. cengastumine [sɪn · ɡæs · tə · maːn]: a proud, over-the-top person
- N. poncrlader ['pʰɑŋ · kɹə · leː · rə]: somebody whose mind jumps from one place to another
- O. bowertilldew [,ba · wə · tʰɪl · duː]: a tool for setting up a tent
- P. chocksaeheble ['tʃak · sə · hi · bəɪ]: a rich, foreign (to Americans) candy
- Q. whoagsafflerick [woːg · 'zæ · fəɪ · ɹɪk]: a xenophobic feeling
- R. tobecraydrub [tʰoː · bə · 'kɹeː · dɹəb]: a gigantic, above-ground reservoir

Definitions Requiring Words

- S. the wad of hair removed when cleaning a hairbrush: fruss [fɹʌs]
- T. the grease that accumulates on top of a hot pizza: OOgruhm ['uː · ɡɹəŋ]
- U. an unexpected cool breeze on a sultry day: twyce [tʰwaːs]
- V. the feeling experienced by a death-row inmate after being pardoned or exonerated: SPANduhtoree ['spæn · də · tɔ · ɹiː]
- W. a feeling of extreme disappointment: DEHfrist ['dɛ · fɹɪst]
- X. the feeling of being woken in the middle of the night by a strange noise: KUMbyuhluhtiv ['kʰʌm · bʰə · lə · tɪv]
- Y. the name of the remotest island on earth: meduhRYEleeuh [mɛ · rə · 'ɹaː · liː · ə]

Images Requiring Words

- Z.  ruhFYOUzhun [ɹə · 'fjuː · ʒəŋ]
- a.  bayANnuh [beː · 'æ · nə]
- b.  wihowBArik [wi · loː · 'bə · ɹɪk]
- c.  ruhDARK [ɹə · 'dɑɪk]
- d.  SHWAzul ['fwæ · zʰ]
- e.  KYOUtyuhlus ['kʰjuː · tʃə · ləs]
- f.  YOUNyuhlus ['juːn · jə · ləs]
- g.  SPRASuhkul ['spɹæs · tə · kʰ]

Participant Data Sheet

Participant #: 35

Age: 19

Sex: F

Linguistic Background: native speaker: English; beginning learner: French

Question ID

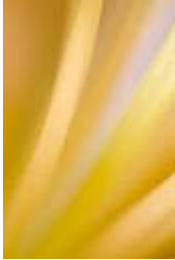
Words Requiring Definitions

- A. smitch [smitʃ]: a person you don't like very much
- B. jube [dʒuˈb]: a ball you use in a game
- C. keeve [kʰiv]: a type of bread, like a bagel
- D. wam [wam]: a short, flat house
- E. easloff ['iːz · lɔf]: a religious holiday
- F. kedid ['kʰɛ · rəd]: somebody who talks a lot and is loud
- G. mavar ['meː · vaɪ]: a journey
- H. eyeyu ['aː · juː]: a big bird, like an ostrich
- I. narathooze ['næ · ɹə · θuːz]: a mental disorder
- J. phillontave ['fɪ · lən · tʰeɪv]: to crave, salivate
- K. lulurode ['luː · lə · ɹoːd]: a colorful, South American vest
- L. goxiwall ['gak · sə · wɔɪ]: to move laterally across a rock face
- M. cengastumine [sɪn · gæs · tə · maːn]: a family gathering
- N. poncrilader ['pʰɑŋ · kɹə · leː · rə]: a part of a car engine
- O. bowertilldew [,ba · wə · tʰɪl · duː]: a round tower with many windows
- P. chocksabeeble ['tʃak · sə · hi · bəɪ]: a group of loud children
- Q. whoagsafflerick [woːg · 'zæ · fəɪ · ɹɪk]: an ill-tempered person
- R. tobecraydrub [tʰoː · bə · 'kreː · dɹəb]: an animal like a wolf

Definitions Requiring Words

- S. the wad of hair removed when cleaning a hairbrush: GANgrin ['gæn · ɡɹɪn]
- T. the grease that accumulates on top of a hot pizza: SOOwus ['suː · wəs]
- U. an unexpected cool breeze on a sultry day: GRUHsuhn ['ɡɹʌ · sʰŋ]
- V. the feeling experienced by a death-row inmate after being pardoned or exonerated: TRANsin ['tʰɹæn · sɪn]
- W. a feeling of extreme disappointment: GRAnuhr ['ɡɹæ · nəɪ]
- X. the feeling of being woken in the middle of the night by a strange noise: SHEHree ['ʃɛ · ɹiː]
- Y. the name of the remotest island on earth: GONzinbread ['ɡən · zɪn · bɹɛd]

Images Requiring Words

- Z.  BOWun ['baː · wʰŋ]
- a.  SOOess ['suː · ɛs]
- b.  buhNEER [bə · 'niːɹ]
- c.  arBREEzhun [ɑɹ · 'bɹiː · ʒʰŋ]
- d.  LARuhd ['læ · ɹəd]
- e.  MURdik ['mæ · rək] (first schwa raised and fronted)
- f.  KLEPtik ['kʰlɛp · tɪk]
- g.  DEHfrin ['dɛ · fɹɪn]

Participant Data Sheet

Participant #: 36

Age: 22

Sex: F

Linguistic Background: native speaker: English; beginning learner: French, Spanish, Arabic

Question ID

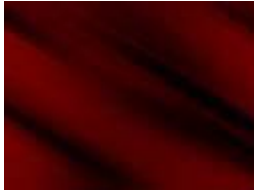
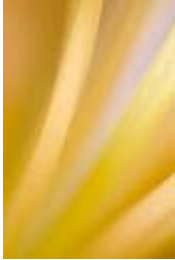
Words Requiring Definitions

- A. smitch [smitʃ]: a cracker or something crunchy
- B. jube [dʒuˈb]: a small shack or rental property
- C. keeve [kʰiv]: to fall or bust
- D. wam [wam]: to complain
- E. easloff ['iːz · lɔf]: an internal organ
- F. kedid ['kʰɛ · rəd]: to chat
- G. mavar ['meː · vaɪ]: a hot color, like orange or yellow
- H. eyeyu ['aː · juː]: somebody short
- I. narathooze ['næ · ɹə · θuːz]: the tube used to help a patient breathe
- J. phillontave ['fɪ · lən · tʰeɪv]: to cross-examine somebody
- K. lulurode ['luː · lə · ɹoːd]: a town on the beach
- L. goxiwall ['gak · sə · wɔɪ]: a small plant or shrub
- M. cengastumine [sɪn · ɡæs · tə · maːn]: a poisonous by-product from a factory
- N. poncrilader ['pʰɑŋ · kɹə · leː · ræ]: a cleaning utensil
- O. bowertilldew [,bə · wə · tʰɪɪ · duː]: a dark lager beer
- P. chocksaeheble ['tʃak · sə · hi · bəɪ]: an Indian shelter, like a teepee
- Q. whoagsafflerick [woːg · 'zæ · fəɪ · ɹɪk]: an instrument that makes a deep sound, like a brass instrument
- R. tobecraydrub [tʰoː · bə · 'kɹeː · dɹəb]: a malignant growth, like on the skin

Definitions Requiring Words

- S. the wad of hair removed when cleaning a hairbrush: gahk [gak]
- T. the grease that accumulates on top of a hot pizza: HEEjeegloo ['hiː · dʒiː · gluː]
- U. an unexpected cool breeze on a sultry day: WIHshur ['wi · ʃə]
- V. the feeling experienced by a death-row inmate after being pardoned or exonerated: AHsun ['a · sən]
- W. a feeling of extreme disappointment: REEvik ['ɹiː · vɪk]
- X. the feeling of being woken in the middle of the night by a strange noise: ak [æk]
- Y. the name of the remotest island on earth: LOOpah ['luː · pʰa]

Images Requiring Words

- Z.  shwed [ʃwɛd]
- a.  BREEo ['bɹiː · oː]
- b.  SHOOful ['ʃuː · fəɪ]
- c.  MEHdeeyahd ['mɛ · riː · jad]
- d.  GRASsuhd [ɡɹæ · səd]
- e.  MAHdreeaht ['ma · dɹiː · at]
- f.  NAYvoom ['neː · vuːm]
- g.  KRIStuhm ['kʰɹɪs · dʰm]

Participant Data Sheet

Participant #: 37

Age: 19

Sex: F

Linguistic Background: native speaker: English; beginning learner: German, French

Question ID

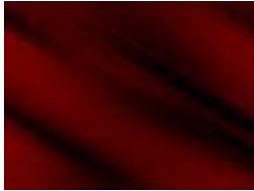
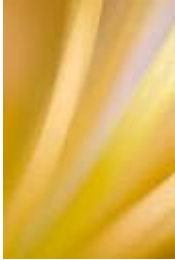
Words Requiring Definitions

- A. smitch [smitʃ]: a tack
- B. jube [dʒuˈb]: a fruit spread
- C. keeve [kʰiv]: to fall down
- D. wam [wam]: to be at peace
- E. easloff ['iːz · lɔf]: a big desk
- F. kedid ['kʰɛ · rəd]: to find something
- G. mavar ['meː · vaɪ]: to cut something
- H. eyeyu ['aː · juː]: a computer accessory, like a USB
- I. narathooze ['næ · ɹə · θuːz]: a story passed down
- J. phillontave ['fɪ · lən · tʰeɪv]: a foyer or a hallway
- K. lulurode ['luː · lə · ɹoːd]: a writing pen
- L. goxiwall ['gak · sə · wɔɪ]: a type of knife
- M. cengastumine [sɪn · ˈgæs · tə · maɪn]: a chemical element
- N. poncrilader ['pʰɑŋ · kɹə · leɪ · ræ]: a pump for filling up tires
- O. bowertilldew [ba · wə · tʰɪl · duː]: a long sword
- P. chocksaeheble ['tʃak · sə · hi · bæ]: a foreign candy
- Q. whoagsafflerick [woːg · ˈzæ · fət · ɹɪk]: to hide
- R. tobecraydrub [tʰoː · bæ · ˈkɹeɪ · dɹəb]: a disease like cancer

Definitions Requiring Words

- S. the wad of hair removed when cleaning a hairbrush: TIHzul ['tʰɪ · zɔɪ]
- T. the grease that accumulates on top of a hot pizza: lak [læk]
- U. an unexpected cool breeze on a sultry day: tim [tʰɪm]
- V. the feeling experienced by a death-row inmate after being pardoned or exonerated: ZYElee ['zaː · liː]
- W. a feeling of extreme disappointment: TAHMbur ['tʰam · bæ]
- X. the feeling of being woken in the middle of the night by a strange noise: ride [ɹaɪd]
- Y. the name of the remotest island on earth: so [soː]

Images Requiring Words

- Z.  freed [fɹiːd]
- a.  leem [liːm]
- b.  KOlo ['kʰoː · loː]
- c.  SIMbrik ['sɪm · bɪk]
- d.  SYlahn ['saː · lan]
- e.  TIMbree ['tʰɪm · bɹiː]
- f.  EYEsun ['aː · sʊn]
- g.  nik [nɪk]

Participant Data Sheet

Participant #: 38

Age: 27

Sex: M

Linguistic Background: native speaker: English; advanced learner: Spanish

Question ID

Words Requiring Definitions

- A. smitch [smitʃ]: a tool for fletching
- B. jube [dʒuˈb]: an animal, like a frog
- C. keeve [kʰiv]: a small kingdom
- D. wam [wam]: an animal like a bat
- E. easloff ['iːz · lɔf]: a sinister person
- F. kedid ['kʰɛ · rəd]: an introverted person
- G. mavar ['meː · vaɪ]: an edgy, countercultural person
- H. eyeyu ['aː · juː]: to instill fear in somebody
- I. narathooze ['næ · ɹə · θuːz]: a feeling of nervousness
- J. phillontave ['fɪ · lən · tʰeɪv]: a member of a royal court
- K. lulurode ['luː · lə · ɹoːd]: a whimsical animal with a long tail, like a lemur
- L. goxiwall ['gak · sə · wɔɪ]: a Scottish alcoholic beverage
- M. cengastumine [sɪn · ɡæs · tə · maːn]: a filibuster
- N. poncrilader ['pʰɑŋ · kɹə · leː · ræ]: describes a person who tries to be funny but isn't
- O. bowertilldew [,bə · wə · tʰɪl · duː]: a female ballet dance
- P. chocksaeheble ['tʃak · sə · hi · bəɪ]: pertaining to Sasquatch
- Q. whoagsafflerick [woːg · 'zæ · fəɪ · ɹɪk]: a happy reaction
- R. tobecraydrub [tʰoː · bə · 'kɹeɪ · dɹəb]: a large piece of construction equipment, like a dump truck

Definitions Requiring Words

- S. the wad of hair removed when cleaning a hairbrush: AHRhahr ['aɪ · haɪ]
- T. the grease that accumulates on top of a hot pizza: BRAYho ['bɹeɪ · hoː]
- U. an unexpected cool breeze on a sultry day: blooveeYES [bluː · viː · 'ɛs]
- V. the feeling experienced by a death-row inmate after being pardoned or exonerated: jumpuhFEEL [dʒæm · pə · 'fiɪ]
- W. a feeling of extreme disappointment: MAluhfay ['mæ · lə · feɪ]
- X. the feeling of being woken in the middle of the night by a strange noise: arkTOOwin [aɪk · tʰuː · ɪn]
- Y. the name of the remotest island on earth: suhRIHnuhlahng [sə · 'ɹɪ · nə · laŋ]

Images Requiring Words

- Z.  Z. uhLAHNduhrahɔ [ə · 'lan · də · ɹɑd] FLOreeahl ['flɔ · ɹiː · aɪ]
- a.  a. FLOreeahl ['flɔ · ɹiː · aɪ]
- b.  b. KAHluhrahɔ ['kʰɑ · lə · ɹɑn]
- c.  c. GANjahl ['gæn · dʒɑɪ]
- d.  d. SMORguhn ['smɔɹ · gʊŋ]
- e.  e. karPORNGE [kaɪ · 'pʰɔɹndʒ]
- f.  f. FLOWtahn ['floː · taɪn]
- g.  g. garBORrayul [gaɪ · 'bɔ · ɹeɪ · ʔ]

Participant Data Sheet

Participant #: 39

Age: 19

Sex: F

Linguistic Background: native speaker: English; beginning learner: French, Latin

Question ID

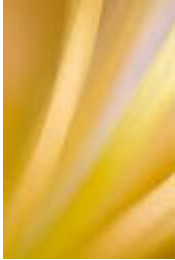
Words Requiring Definitions

- A. smitch [smitʃ]: a kiss
- B. jube [dʒuˈb]: a duplicate
- C. keeve [kʰiv]: a jacket
- D. wam [wam]: to watch
- E. easloff ['iːz · lɔf]: quickly
- F. kedid ['kʰɛ · rəd]: to cook
- G. mavar ['meː · vaɪ]: money (in general)
- H. eyeyu ['aː · juː]: to influence
- I. narathooze ['næ · ɹə · θuːz]: a nasal strip
- J. phillontave ['fɪ · lən · tʰeɪv]: to study
- K. lulurode ['luː · lə · ɹoːd]: to play
- L. goxiwall ['gak · sə · wɔɪ]: to search
- M. cengastumine [sɪn · ˈgæs · tə · maɪn]: to do surgery
- N. poncrilader ['pʰɑŋ · kɹə · leː · rə]: exploring new places
- O. bowertilldew [ba · wə · tʰɪl · duː]: a large domesticated dog
- P. chocksaeheble ['tʃak · sə · hi · bəɪ]: to prepare a food you never prepared before
- Q. whoagsafflerick [woːg · ˈzæ · fəɪ · ɹɪk]: to sew clothes
- R. tobecraydrub [tʰoː · bə · ˈkreː · dɹəb]: elaborate jewelry

Definitions Requiring Words

- S. the wad of hair removed when cleaning a hairbrush: KRAKsahn ['kʰɹæk · san]
- T. the grease that accumulates on top of a hot pizza: suhLOneeyum [sə · ˈloː · niː · əm]
- U. an unexpected cool breeze on a sultry day: KLAYzahn ['kʰleː · zan]
- V. the feeling experienced by a death-row inmate after being pardoned or exonerated: REEsuhreks ['ɹiː · sə · ɹɛks]
- W. a feeling of extreme disappointment: suhLAYzahn [sə · ˈleː · zan]
- X. the feeling of being woken in the middle of the night by a strange noise: AKsum ['æk · səm]
- Y. the name of the remotest island on earth: reeDEKS [ɹiː · ˈdɛks]

Images Requiring Words

- Z.  SWAYzahn ['sweː · zan]
- a.  PREKsahn ['pʰɹɛk · san]
- b.  surREZ [sə · ˈɹɛz]
- c.  PLAYzahn ['pʰleː · zan]
- d.  SWAYez ['sweː · ɛz]
- e.  DREKsahn ['dɹɛk · san]
- f.  STAYtez ['steː · tɛz]
- g.  uhVYNZ [ə · ˈvaɪnz]

Participant Data Sheet

Participant #: 40

Age: 19

Sex: F

Linguistic Background: native speaker: English; beginning learner: French, German

Question ID

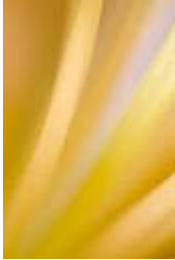
Words Requiring Definitions

- A. smitch [smitʃ]: sneaky
- B. jube [dʒuˈb]: greasy
- C. keeve [kʰiv]: a little bit of something
- D. wam [wam]: a lot of something
- E. easloff ['iːz · lɔf]: a deceptive person
- F. kedid ['kʰɛ · rəd]: to joke around with someone
- G. mavar ['meː · vaɪ]: a styling gel for hair
- H. eyeyu ['aː · juː]: a fluffy, white animal found in cold climates
- I. narathooze ['næ · ɹə · θuːz]: a dark color like blue
- J. phillontave ['fɪ · lən · tʰeɪv]: a writing utensil
- K. lulurode ['luː · lə · ɹoːd]: whimsical, girlish, childhood play
- L. goxiwall ['gak · sə · wɔɪ]: a disease of the skin, a rash
- M. cengastumine [sɪn · gæs · tə · maːn]: nausea
- N. poncrilader ['pʰɑŋ · kɹə · leː · ræ]: a bouncy toy
- O. bowertilldew [ba · wæ · tʰɪl · duː]: something royal
- P. chocksabeeble ['tʃak · sə · hi · bæ]: a pile of meaningless crap
- Q. whoagsafflerick [woːg · 'zæ · fəɪ · ɹɪk]: an organizational tool, like a syllabus
- R. tobecraydrub [tʰoː · bæ · 'kreː · dɹəb]: a sitting object, like a vase, used for aesthetic purposes

Definitions Requiring Words

- S. the wad of hair removed when cleaning a hairbrush: WIHzuhl ['wi · zʰɪ]
- T. the grease that accumulates on top of a hot pizza: GIHmuhl ['gi · mʰɪ]
- U. an unexpected cool breeze on a sultry day: flush [flʊʃ]
- V. the feeling experienced by a death-row inmate after being pardoned or exonerated: TAlée ['tʰæ · liː]
- W. a feeling of extreme disappointment: kuhRAND [kʰə · 'ɹænd]
- X. the feeling of being woken in the middle of the night by a strange noise: suhRAND [sə · 'ɹænd]
- Y. the name of the remotest island on earth: booWAY [buː · 'weː]

Images Requiring Words

- Z.  jay [dʒeː]
- a.  grite [gɹaɪt]
- b.  BLAYmee ['bleː · miː]
- c.  FRAHlee ['fɹa · liː]
- d.  SINGkee ['sɪŋ · kiː]
- e.  KAHrdee ['kʰaɪ · diː]
- f.  UPshoolee ['ʌp · ʃuː · liː]
- g.  KAHtoe ['kʰa · toː]

Participant Data Sheet

Participant #: 41

Age: 19

Sex: F

Linguistic Background: native speaker: English; advanced learner: Spanish; beginning learner: French

Question ID

Words Requiring Definitions

- A. smitch [smitʃ]: a small animal like a mouse
- B. jube [dʒuˈb]: a round kind of candy, like a jelly bean
- C. keeve [kʰiv]: a type of difficult, precise dive performed off a diving board
- D. wam [wam]: a colorful, African shirt
- E. easloff ['iːz · lɔf]: a sly person
- F. kedid ['kʰɛ · rəd]: a bright color like orange or red
- G. mavar ['meː · vaɪ]: a war helmet
- H. eyeyu ['aː · juː]: a medium-sized, ground-dwelling, brown animal with a short tail
- I. narathooze ['næ · ɹə · θuːz]: a disease of the immune system that makes you feel drowsy
- J. phillontave ['fɪ · lən · tʰeɪv]: a packaging material used at the post office
- K. lulurode ['luː · lə · ɹoːd]: a dance, like the aloha dance
- L. goxiwall ['gak · sə · wɔɪ]: a surgical procedure
- M. cengastumine [sɪn · gæs · tə · maːn]: an acrobat
- N. poncrlader ['pʰɑŋ · kɹə · leː · ræ]: a timekeeper
- O. bowertilldew [ba · wə · tʰɪl · duː]: a place with a lake where people vacation
- P. chocksaeheble ['tʃak · sə · hi · bəɪ]: a sweet, thick, European food served in a bowl
- Q. whoagsafflerick [woːg · 'zæ · fəɪ · ɹɪk]: a book having to with numbers, like an accounting book
- R. tobecraydrub [tʰoː · bə · 'kɹeɪ · dɹəb]: an appliance for cleaning in the kitchen

Definitions Requiring Words

- S. the wad of hair removed when cleaning a hairbrush: IGmuhloe ['ɪg · mə · loː]
- T. the grease that accumulates on top of a hot pizza: slimps [slɪmps]
- U. an unexpected cool breeze on a sultry day: FAYlee ['feː · liː]
- V. the feeling experienced by a death-row inmate after being pardoned or exonerated: igSNAstid [ɪg · 'snæ · stɪd]
- W. a feeling of extreme disappointment: deeANDred [diː · 'æn · dɹɛd]
- X. the feeling of being woken in the middle of the night by a strange noise: INstray ['ɪn · stɹeɪ]
- Y. the name of the remotest island on earth: LOONduhrahd ['luːn · də · ɹəd]

Images Requiring Words

- Z.  DRAsuhnayte ['dɹæ · sə · neɪt]
- a.  FLANteek ['flæn · tiːk]
- b.  WAHvree ['wa · vɹiː]
- c.  fuhNEEK [fə · 'niːk]
- d.  AHNGyet ['ɑŋ · jɛt]
- e.  LAHkuhmair ['la · kə · neɪ]
- f.  RANfluhd ['ɹæn · fləd]
- g.  STEEkut ['stiː · kət]

Participant Data Sheet

Participant #: 42

Age: 19

Sex: M

Linguistic Background: native speaker: English; beginning learner: French

Question ID

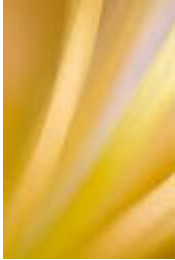
Words Requiring Definitions

- A. smitch [smitʃ]: to scribble
- B. jube [dʒuˈb]: a type of bouncy ball
- C. keeve [kʰiv]: to cut or open something up
- D. wam [wam]: an echoing sound
- E. easloff ['iːz · lɔf]: a tool for spreading something
- F. kedid ['kʰɛ · rəd]: a type of dry dog food, like kibble
- G. mavar ['meː · vaɪ]: spreadable food in general, like PB&J or Vegemite
- H. eyeyu ['aː · juː]: a small measurement of volume
- I. narathooze ['næ · ɹə · θuːz]: an allergy medicine
- J. phillontave ['fɪ · lən · tʰeɪv]: a shovel used in the garden
- K. lulurode ['luː · lə · ɹoːd]: a mountain range
- L. goxiwall ['gak · sə · wɔɪ]: a bird, like a seagull
- M. cengastumine [sɪn · ɡæs · tə · maːn]: a toxic, chemical compound
- N. poncrlader ['pʰɑŋ · kɹə · leː · rə]: a paper hole puncher
- O. bowertilldew [,ba · wə · tʰɪɪ · duː]: describes somebody who works with their hands
- P. chocksaeheble ['tʃak · sə · hi · bəɪ]: a big mess, a cluster
- Q. whoagsafflerick [woːg · 'zæ · fəɪ · ɹɪk]: motor oil or engine coolant
- R. tobecraydrub [tʰoː · bə · 'kɹeɪ · dɹəb]: an exotic type of tree, thin, short with unique leaves

Definitions Requiring Words

- S. the wad of hair removed when cleaning a hairbrush: TRIHkuht ['tʰɪɪ · kətʃ]
- T. the grease that accumulates on top of a hot pizza: neez [niːz]
- U. an unexpected cool breeze on a sultry day: beesh [biːʃ]
- V. the feeling experienced by a death-row inmate after being pardoned or exonerated: weem [wiːm]
- W. a feeling of extreme disappointment: fakuhTOOuh [fæ · kə · tʰuː · ə]
- X. the feeling of being woken in the middle of the night by a strange noise: BRAYkuh ['bɹeɪ · kə]
- Y. the name of the remotest island on earth: muhSOWN [mə · 'soːn]

Images Requiring Words

- Z.  BROmeen ['bɹoː · miːn]
- a.  SOOnuh ['suː · nə]
- b.  ahnTAHveeng [an · tʰa · vɪŋ]
- c.  kunJYveeng [kən · 'dʒaɪ · vɪŋ]
- d.  uhVAYbeeng [ə · 'veɪ · bɪŋ]
- e.  BRAHkeeng ['bɹa · kɪŋ]
- f.  imPRYveeng [ɪm · 'pʰɹaɪ · vɪŋ]
- g.  duhSHEEveeng [də · 'ʃiː · vɪŋ]

Participant Data Sheet

Participant #: 43

Age: 26

Sex: F

Linguistic Background: native speaker: Spanish; fluent speaker: English; intermediate learner: French; beginning learner: Arabic

Question ID

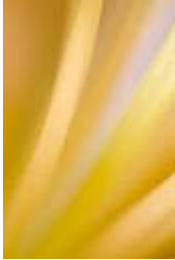
Words Requiring Definitions

- A. smitch [smitʃ]: a crack, like in a sidewalk
- B. jube [dʒuˈb]: a boring person
- C. keeve [kʰiv]: to jump off of something or to dive
- D. wam [wam]: soft or fluffy, like a blanket
- E. easloff ['iːz · lɔf]: a holiday celebrating the harvest
- F. kedid ['kʰɛ · rəd]: bent, folded or wrinkled
- G. mavar ['meː · vaɪ]: a quantity of water
- H. eyeyu ['aː · juː]: a landform, like a delta
- I. narathooze ['næ · ɹə · θuːz]: an intellectual person
- J. phillontave ['fɪ · lən · tʰeɪv]: a writing pen
- K. lulurode ['luː · lə · ɹoːd]: a cloth napkin
- L. goxiwall ['gak · sə · wɔɪ]: an extraterrestrial being
- M. cengastumine [sɪn · ɡæs · tə · maːn]: a blood disease
- N. poncrilader ['pʰɑŋ · kɹə · leː · rə]: an electrical appliance, like a blender or toaster
- O. bowertilldew [,bə · wə · tʰɪl · duː]: pants, like jeans
- P. chocksaeheble ['tʃak · sə · hi · bəɪ]: a concert, like Woodstock
- Q. whoagsafflerick [woːg · 'zæ · fəɪ · ɹɪk]: a wild canine
- R. tobecraydrub [tʰoː · bə · 'kɹeɪ · dɹəb]: a classification of paintings

Definitions Requiring Words

- S. the wad of hair removed when cleaning a hairbrush: krush [kʰɹʌʃ]
- T. the grease that accumulates on top of a hot pizza: blake [bleɪk]
- U. an unexpected cool breeze on a sultry day: floo [fluː]
- V. the feeling experienced by a death-row inmate after being pardoned or exonerated: waah [waːh]
- W. a feeling of extreme disappointment: dahk [dak]
- X. the feeling of being woken in the middle of the night by a strange noise: roo [ruː]
- Y. the name of the remotest island on earth: guhRAHT [gə · 'ɹat]

Images Requiring Words

- Z.  pruhst [pʰɹʌst]
- a.  deeYAHN [diː · 'jan]
- b.  plaht [pʰlat]
- c.  KLAHthuhtahn ['kla · θə · tʰan]
- d.  fret [fɹɛt]
- e.  TRIHtuhrbite ['tʰɹɪ · rə · baɪt]
- f.  rah [ɹa]
- g.  mark [maɪk]

Participant Data Sheet

Participant #: 44

Age: 20

Sex: F

Linguistic Background: native speaker: English; beginning learner: French

Question ID

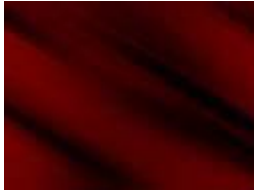
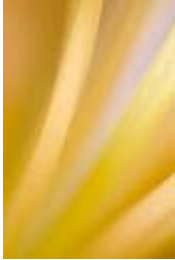
Words Requiring Definitions

- A. smitch [smitʃ]: something hidden
- B. jube [dʒuˈb]: a hair color like brownish-red
- C. keeve [kʰiv]: a bath sponge
- D. wam [wam]: a big drum or other percussion instrument
- E. easloff ['iːz · lɔf]: an East Indian food, like curry or rice
- F. kedid ['kʰɛ · rəd]: something that has an uneven surface
- G. mavar ['meː · vaɪ]: a king or a ruler
- H. eyeyu ['aː · juː]: a canoe paddle
- I. narathooze ['næ · ʒə · θuːz]: a pain reliever, like Icy Hot
- J. phillontave ['fi · lən · tʰeːv]: a large, wooden sailboat
- K. lulurode ['luː · lə · ʒoːd]: a horse's bit
- L. goxiwall ['gak · sə · wɔʃ]: floor sealant
- M. cengastumine [sɪn · ɡæs · tə · maːn]: systematically searching for a treasure
- N. poncrilader ['pʰɑŋ · kɪə · leː · ræ]: a water purifier
- O. bowertilldew [ba · wə · tʰɪl · duː]: vomit
- P. chocksaeheble ['tʃak · sə · hi · bəʃ]: a large, mysterious monster, like Bigfoot
- Q. whoagsafflerick [woːg · ˈzæ · fəʃ · ɹɪk]: a nomad
- R. tobecraydrub [tʰoː · bə · ˈkreː · dɹəb]: a tool, like a hammer

Definitions Requiring Words

- S. the wad of hair removed when cleaning a hairbrush: NATuhr ['næ · ræ]
- T. the grease that accumulates on top of a hot pizza: LAHtoo ['la · tuː]
- U. an unexpected cool breeze on a sultry day: PYURin ['pʰjʊɹ · ɪn]
- V. the feeling experienced by a death-row inmate after being pardoned or exonerated: SATHund ['sæ · θənd]
- W. a feeling of extreme disappointment: DISlow ['dɪs · loː]
- X. the feeling of being woken in the middle of the night by a strange noise: WODuhr ['woː · ræ]
- Y. the name of the remotest island on earth: LINlit ['lɪn · lɪt]

Images Requiring Words

- Z.  KILLkin ['kʰɪl · kʰɪn]
- a.  mooLAY [muː · ˈleː]
- b.  KAluhr ['kʰæ · lə]
- c.  KILtuhr ['kʰɪt · tə]
- d.  ROWvuhn ['ʒoː · vən]
- e.  WUDwahnk ['wud · wəŋk]
- f.  STRAHfo ['stɹa · foː]
- g.  TILLmar ['tʰɪt · maɪ]

Participant Data Sheet

Participant #: 45

Age: 19

Sex: F

Linguistic Background: native speaker: English; beginning learner: French

Question ID

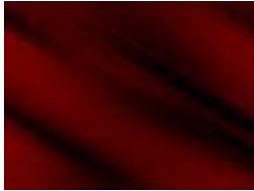
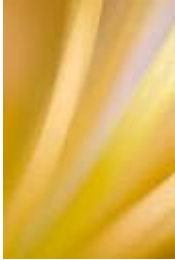
Words Requiring Definitions

- A. smitch [smitʃ]: to sew rapidly
- B. jube [dʒuˈb]: a type of candy, shaped like a jelly bean
- C. keeve [kʰiv]: a type of small house plant
- D. wam [wam]: a Chinese noodle
- E. easloff ['iːz · lɔf]: a wooden ladder
- F. kedid ['kʰɛ · rəd]: to truncate something
- G. mavar ['meː · vaɪ]: a small, green, ringed planet
- H. eyeyu ['aː · juː]: to benefit someone
- I. narathooze ['næ · ɹə · θuːz]: a medicine for the brain
- J. phillontave ['fɪ · lən · tʰeɪv]: to overthrow a ruler
- K. lulurode ['luː · lə · ɹoːd]: to bypass something
- L. goxiwall ['gak · sə · wɔɪ]: to saunter
- M. cengastumine [sɪn · ɡæs · tə · maɪn]: carbonation
- N. poncrilader ['pʰɑŋ · kɪə · leɪ · ræ]: an extension cord
- O. bowertilldew [bə · wə · tʰɪl · duː]: to be subservient
- P. chocksaeheble ['tʃak · sə · hi · bæ]: an ox-driven plow
- Q. whoagsafflerick [woːg · ˈzæ · fəɪ · ɹɪk]: a castle
- R. tobecraydrub [tʰoː · bæ · ˈkreɪ · dɹəb]: to release something

Definitions Requiring Words

- S. the wad of hair removed when cleaning a hairbrush: UNthrub ['ʌn · θɹəb]
- T. the grease that accumulates on top of a hot pizza: PLAYtul ['pʰleɪ · rʰ]
- U. an unexpected cool breeze on a sultry day: AYvree ['aː · vɹiː]
- V. the feeling experienced by a death-row inmate after being pardoned or exonerated: surNASHT [sə · ˈnæʃt]
- W. a feeling of extreme disappointment: FLEEkizm ['fliː · kɪzm]
- X. the feeling of being woken in the middle of the night by a strange noise: SKRUHpul ['skɹʌ · pʰ]
- Y. the name of the remotest island on earth: freesh [fɹiːʃ]

Images Requiring Words

- Z.  uhMYOUL [ə · ˈmjuːɪ]
- a.  SYrunee ['saɪ · ɹə · niː]
- b.  arth [ɑɪθ]
- c.  kuhnTRUuhtee [kən · ˈtʰɹuː · ə · tiː]
- d.  SWELkuhm ['swɛɪ · kəɪ]
- e.  disTRANuhfy [dɪs · ˈtʰɹæ · nə · faɪ]
- f.  malf [mæɪf]
- g.  teen [tʰiːn]

Participant Data Sheet

Participant #: 46

Age: 23

Sex: F

Linguistic Background: native speaker: English; beginning learner: French, Spanish

Question ID

Words Requiring Definitions

- A. smitch [smitʃ]: to fall
- B. jube [dʒuˈb]: to jump
- C. keeve [kʰiv]: an SUV or a jeep
- D. wam [wam]: a fruity candy
- E. easloff ['iːz · lɔf]: a rural town
- F. kedid ['kʰɛ · rəd]: to kick
- G. mavar ['meː · vaɪ]: to dance
- H. eyeyu ['aː · juː]: a sad feeling
- I. narathooze ['næ · ɹə · θuːz]: a cold (illness)
- J. phillontave ['fɪ · lən · tʰeɪv]: bad weather with tornadoes
- K. lulurode ['luː · lə · ɹoːd]: a large beach
- L. goxiwall ['gak · sə · wɔɪ]: a movie monster
- M. cengastumine [sɪn · ˈgæs · tə · maɪn]: a large booming noise
- N. poncrlader ['pʰɑŋ · kɹə · leɪ · rə]: to go on a retreat when tired
- O. bowertilldew [bə · wə · tʰɪl · duː]: a plastic mask
- P. chocksabeeble ['tʃak · sə · hi · bəɪ]: Indian face paint
- Q. whoagsafflerick [woːg · ˈzæ · fəɪ · ɹɪk]: some kind of trouble or misfortune
- R. tobecraydrub [tʰoː · bə · ˈkreɪ · dɹəb]: an ice cream topping, like syrup

Definitions Requiring Words

- S. the wad of hair removed when cleaning a hairbrush: Awur ['æ · wə]
- T. the grease that accumulates on top of a hot pizza: OOwur ['uː · wə]
- U. an unexpected cool breeze on a sultry day: WOOyah ['wuː · ja]
- V. the feeling experienced by a death-row inmate after being pardoned or exonerated: Awur ['æ · wə]
- W. a feeling of extreme disappointment: LOOum ['luː · ʊm]
- X. the feeling of being woken in the middle of the night by a strange noise: AHhum ['a · həm]
- Y. the name of the remotest island on earth: FAHLsum ['faɪ · sʊm]

Images Requiring Words

- Z.  LEEzum ['liː · zʊm]
- a.  tuhneyeLAYshus [tə · naɪ · ˈleɪ · ʃəs]
- b.  KORduhlizm ['kʰɔɪ · rə · lɪ · zʊm]
- c.  vehjuhNALuhsis [veɪ · dʒə · ˈnæ · lə · sɪs]
- d.  juruhLAHsum [dʒʊ · ɹə · ˈla · sʊm]
- e.  SAYsum ['seɪ · sʊm]
- f.  STATsum ['stæt · sʊm]
- g.  mulTAHsum [məɪ · ˈtʰa · sʊm]

Participant Data Sheet

Participant #: 47

Age: 59

Sex: F

Linguistic Background: native speaker; English

Question ID

Words Requiring Definitions

- A. smitch [smitʃ]: a small quantity
- B. jube [dʒuˈb]: a wind instrument, like the clarinet
- C. keeve [kʰiv]: a small cabinet
- D. wam [wam]: a thick, reddish-brown sauce
- E. easloff ['iːz · lɔf]: an area like an attic for storing things
- F. kedid ['kʰɛ · rəd]: to be brusque
- G. mavar ['meː · vaɪ]: a technical piece of equipment, like with a telescope
- H. eyeyu ['aː · juː]: a specialized piece of sewing equipment
- I. narathooze ['næ · ɹə · θuːz]: an inlet
- J. phillontave ['fɪ · lən · tʰeɪv]: an apology
- K. lulurode ['luː · lə · ɹoʊd]: a special toy with moving parts
- L. goxiwall ['gak · sə · wɔɪ]: a fantastical Tolkien character
- M. cengastumine [sɪn · ɡæs · tə · maːn]: a conundrum or a predicament
- N. poncrilader ['pʰɑŋ · kɹə · leː · ræ]: a concrete mixer
- O. bowertilldew [ba · wə · tʰɪl · duː]: a lamp that hangs in the garden
- P. chocksaeheble ['tʃak · sə · hi · bəɪ]: a part in a furnace
- Q. whoagsafflerick [woʊg · zæ · fəɪ · ɹɪk]: a barge
- R. tobecraydrub [tʰoʊ · bə · kɹeː · dɹəb]: an artifact, like a hammer, from an Indian village

Definitions Requiring Words

- S. the wad of hair removed when cleaning a hairbrush: GRIHshuhlz ['gɹɪ · ʃʌz]
- T. the grease that accumulates on top of a hot pizza: GLEEsahn ['glɪː · san]
- U. an unexpected cool breeze on a sultry day: spleel [spliːɫ]
- V. the feeling experienced by a death-row inmate after being pardoned or exonerated: GRIKsuhld ['gɹɪk · sʌɪd]
- W. a feeling of extreme disappointment: UNdahld ['ʌn · dɑɪd]
- X. the feeling of being woken in the middle of the night by a strange noise: glikSANDurdahld [glɪk · 'sæn · dæ · dɑɪd]
- Y. the name of the remotest island on earth: TYkandur ['tʰaː · kʰæn · dæ]

Images Requiring Words

- Z.  UHNurest ['ʌ · nə · ɹɛst]
- a.  FRAGmyur ['fɹæg · maːɪ · ə]
- b.  BLINdahr ['blɪn · dɑɪ]
- c.  nahdoonlee [na · duːn · liː]
- d.  MAYvuhlahr ['meː · və · laɪ]
- e.  kwairMEER [kʰweːɪ · 'miːɪ]
- f.  suhKWAHmair [sə · 'kʰwa · meːɪ]
- g.  meeYANdak [miː · 'jæn · dæk]

Participant Data Sheet

Participant #: 48

Age: 26

Sex: M

Linguistic Background: native speaker: English

Question ID

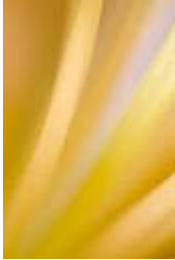
Words Requiring Definitions

- A. smitch [smitʃ]: poster board
- B. jube [dʒuˈb]: a cut
- C. keeve [kʰiv]: to overburden yourself
- D. wam [wam]: chopsticks
- E. easloff ['iːz · lɔf]: an elf
- F. kedid ['kʰɛ · rəd]: to cut somebody off in a car
- G. mavar ['meː · vaɪ]: a warlock
- H. eyeyu ['aː · juː]: to take a dump
- I. narathooze ['næ · ɹə · θuːz]: a drug to treat ADD
- J. phillontave ['fɪ · lən · tʰeɪv]: peculiar
- K. lulurode ['luː · lə · ɹoːd]: ambiguous
- L. goxiwall ['gak · sə · wɔɪ]: to screw up majorly
- M. cengastumine [sɪn · gæs · tə · maɪn]: to erupt, like a volcano
- N. poncrilader ['pʰɑŋ · kɹə · leɪ · ræ]: a very fancy car
- O. bowertilldew [ba · wə · tʰɪl · duː]: a small, colorful bird of the rainforest
- P. chocksaeheble ['tʃak · sə · hi · bəɪ]: to balance
- Q. whoagsafflerick [woːg · 'zæ · fəɪ · ɹɪk]: to stop something from happening
- R. tobecraydrub [tʰoː · bə · 'kreɪ · dɹəb]: a sedentary person who eats just to eat

Definitions Requiring Words

- S. the wad of hair removed when cleaning a hairbrush: ehroSTAsheeo [ɛ · ɹoː · 'stæ · ʃiː · oː]
- T. the grease that accumulates on top of a hot pizza: jarfuhRAHrow [dʒɑɪ · fə · 'ɹə · ɹoː]
- U. an unexpected cool breeze on a sultry day: WAHpee ['wa · piː]
- V. the feeling experienced by a death-row inmate after being pardoned or exonerated: reeVEENdoe [ɹiː · 'viːn · doː]
- W. a feeling of extreme disappointment: peekeeAlfin [pʰiː · kiː · 'aɪ · fɪn]
- X. the feeling of being woken in the middle of the night by a strange noise: VEENGgo [vɪŋ · goː]
- Y. the name of the remotest island on earth: OOso ['uː · soː]

Images Requiring Words

- Z.  EEkoe ['iː · kʰoː]
- a.  seeNEEV [siː · 'niːv]
- b.  haiFOOtoe [haɪ · 'fuː · tʰoː]
- c.  KAIZEE ['kʰaɪ · ziː]
- d.  BIHzo ['bi · zoː]
- e.  seenguy [sɪŋ · gaɪ]
- f.  OOwee ['uː · wiː]
- g.  finkeyeyou [fɪŋ · kaɪ · juː]

Participant Data Sheet

Participant #: 49

Age: 28

Sex: M

Linguistic Background: native speaker: English; beginning learner: Spanish, Italian, Latin

Question ID

Words Requiring Definitions

- A. smitch [smitʃ]: untrustworthy
- B. jube [dʒuˈb]: a mechanic's tool
- C. keeve [kʰiv]: a peninsula
- D. wam [wam]: exotic cuisine
- E. easloff ['iːz · lɔf]: a ladder
- F. kedid ['kʰɛ · rəd]: a type of wheat
- G. mavar ['meː · vaɪ]: a brand of makeup
- H. eyeyu ['aː · juː]: a kitchen tool
- I. narathooze ['næ · ɹə · θuːz]: a philosopher
- J. phillontave ['fɪ · lən · tʰeɪv]: a tribal people
- K. lulurode ['luː · lə · ɹoːd]: a tool for weaving
- L. goxiwall ['gak · sə · wɔɪ]: a type of adhesive
- M. cengastumine [sɪn · ɡæs · tə · maɪn]: a volatile chemical
- N. poncilader ['pʰɑŋ · kɪə · leɪ · ræ]: a device for measuring pressure or temperature
- O. bowertilldew [ba · wə · tʰɪl · duː]: an infection of the bowels
- P. chocksabeeble ['tʃak · sə · hi · bəɪ]: a tool used by native people for hunting
- Q. whoagsafflerick [woːg · 'zæ · fəɪ · ɹɪk]: a long sword
- R. tobecraydrub [tʰoː · bə · 'kreɪ · dɹəb]: a catatonic condition

Definitions Requiring Words

- S. the wad of hair removed when cleaning a hairbrush: GUNKsis [ˈɡʌŋk · sɪs]
- T. the grease that accumulates on top of a hot pizza: splag [splæg]
- U. an unexpected cool breeze on a sultry day: SWIFtur ['swɪf · tər]
- V. the feeling experienced by a death-row inmate after being pardoned or exonerated: ekSPUHLshis [ɛk · 'spuɪ · ʃɪs]
- W. a feeling of extreme disappointment: SPRAsis ['spɹæ · sɪs]
- X. the feeling of being woken in the middle of the night by a strange noise: klahSTOWD [kla · 'staɪd]
- Y. the name of the remotest island on earth: ekSPLEET [ɛk · 'spliːt]

Images Requiring Words

- Z.  fasTlshis [fæs · 'tɪ · ʃɪs]
- a.  RESpluhahnk ['ɹɛs · plə · ɡəŋk]
- b.  foosh [fuːʃ]
- c.  RAHstuhs ['ɹas · təs]
- d.  SVIHzul ['svɪ · zʰ]
- e.  skat [skæt]
- f.  SKIHsuhk ['ski · sək]
- g.  krahnk [kʰɑŋk]

Participant Data Sheet

Participant #: 50

Age: 19

Sex: M

Linguistic Background: native speaker: English; intermediate learner: French

Question ID

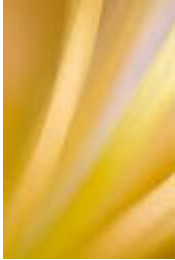
Words Requiring Definitions

- A. smitch [smitʃ]: sly
- B. jube [dʒuˈb]: to take
- C. keeve [kʰiv]: to think about
- D. wam [wam]: confused
- E. easloff ['iːz · lɔf]: a backyard deck
- F. kedid ['kʰɛ · rəd]: excited
- G. mavar ['meː · vaɪ]: complex
- H. eyeyu ['aː · juː]: a meditation or prayer
- I. narathooze ['næ · ɹə · θuːz]: a competition
- J. phillontave ['fɪ · lən · tʰeɪv]: a measuring device, like a beaker
- K. lulurode ['luː · lə · ɹoːd]: oil
- L. goxiwall ['gak · sə · wɔɪ]: a strategic maneuver
- M. cengastumine [sɪn · 'gæs · tə · maɪn]: to startle or surprise
- N. poncrilader ['pʰɑŋ · kɹə · leɪ · ræ]: a grater or bulldozer
- O. bowertilldew [,bə · wə · tʰɪɪ · duː]: a soft part of the human body, like the earlobe
- P. chocksaeheble ['tʃak · sə · hi · bəɪ]: to be cocky
- Q. whoagsafflerick [woːg · 'zæ · fəɪ · ɹɪk]: aggressive
- R. tobecraydrub [tʰoː · bə · 'kreɪ · dɹəb]: stylish

Definitions Requiring Words

- S. the wad of hair removed when cleaning a hairbrush: GLAHMshin ['glam · ʃɪn]
- T. the grease that accumulates on top of a hot pizza: kwag [kʰwæg]
- U. an unexpected cool breeze on a sultry day: rahSHOWveeus [ɹə · 'ʃoː · viː · əs]
- V. the feeling experienced by a death-row inmate after being pardoned or exonerated: ahlbichooLAYshun [ɑɪ · bɪ · tʃuː · 'leɪ · ʃəŋ]
- W. a feeling of extreme disappointment: suhSOWnuhmis [sə · 'soː · nə · mɪs]
- X. the feeling of being woken in the middle of the night by a strange noise: huhFAYshus [hə · 'feɪ · ʃəs]
- Y. the name of the remotest island on earth: boeNIHdeeu [boː · 'ni · riː · ə]

Images Requiring Words

- Z.  duhFIHneeun [də · 'fɪ · niː · əŋ]
- a.  kahlSIHneeun [kɑɪ · 'sɪ · niː · əŋ]
- b.  ehPIHkwihtee [ɛ · 'pʰɪ · kwɪ · riː]
- c.  kradGOneeu [kʰɹəd · 'goː · niː · əŋ]
- d.  aluhSTAYshus [æ · ɛ · 'steɪ · ʃɪs]
- e.  zimFREHtik [zɪm · 'fɹɛ · rɪk]
- f.  shmrahk [ʃmɹak]
- g.  DEVruh kaytud ['dɛv · ɹə · keɪ · rəd]

Participant Data Sheet

Participant #: 51

Age: 38

Sex: F

Linguistic Background: native speaker: English; fluent speaker: French, Spanish; beginning learner: Italian

Question ID

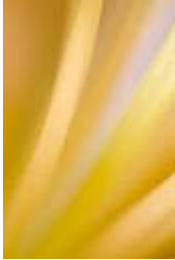
Words Requiring Definitions

- A. smitch [smitʃ]: to stain something
- B. jube [dʒuˈb]: a candy like a jelly bean
- C. keeve [kʰiv]: to break something in half
- D. wam [wam]: to cuddle up with a blanket
- E. easloff ['iːz · lɔf]: to purposefully not do something
- F. kedid ['kʰɛ · rəd]: incomprehensible
- G. mavar ['meː · vaɪ]: something very far away
- H. eyeyu ['aː · juː]: someone very nice
- I. narathooze ['næ · ɹə · θuːz]: to daydream
- J. phillontave ['fɪ · lən · tʰeɪv]: to put something on a shelf
- K. lulurode ['luː · lə · ɹoːd]: to meander
- L. goxiwall ['gak · sə · wɔɪ]: to glue something together
- M. cengastumine [sɪn · ɡæs · tə · maːn]: to talk nonstop
- N. poncrilader ['pʰɑŋ · kɹə · leː · rə]: earthenware
- O. bowertilldew [bə · wə · tʰɪl · duː]: to be obsequious
- P. chocksabeeble ['tʃak · sə · hi · bəɪ]: to run over something in the road
- Q. whoagsafflerick [woːg · ˈzæ · fəɪ · ɹɪk]: to be lazy on the sofa
- R. tobecraydrub [tʰoː · bə · ˈkɹeɪ · dɹəb]: to snack

Definitions Requiring Words

- S. the wad of hair removed when cleaning a hairbrush: SHIHfur ['ʃɪ · fəɪ]
- T. the grease that accumulates on top of a hot pizza: GREhtul ['ɡɹɛ · rʰɪ]
- U. an unexpected cool breeze on a sultry day: kuhNESSur [kə · ˈnɛ · səɪ]
- V. the feeling experienced by a death-row inmate after being pardoned or exonerated: zuhGREthuhrus [zə · ˈgɹɛ · θə · ɹəs]
- W. a feeling of extreme disappointment: GATHuhkur ['gæ · θə · kəɪ]
- X. the feeling of being woken in the middle of the night by a strange noise: STRAHpul ['stɹə · pʰɪ]
- Y. the name of the remotest island on earth: buhDAHruh [bə · ˈda · ɹə]

Images Requiring Words

- Z.  SHWEHshur ['ʃwɛ · ʃəɪ]
- a.  wahRAHvoo [wa · ˈɹə · vuː]
- b.  SRAHNtee ['sɹən · tiː]
- c.  GROWfahr ['ɡɹoː · faɪ]
- d.  reeMAHruh [ɹiː · ˈma · ɹə]
- e.  vuhRAHNtis [və · ˈɹən · tɪs]
- f.  hooMAHrow [huː · ˈma · ɹoː]
- g.  uhRAHtiŋ [ə · ˈɹə · tɪŋ]

Participant Data Sheet

Participant #: 52

Age: 28

Sex: F

Linguistic Background: native speaker: English; fluent speaker: French; beginning learner: German

Question ID

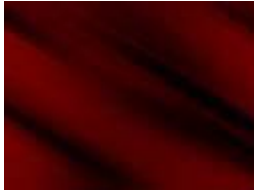
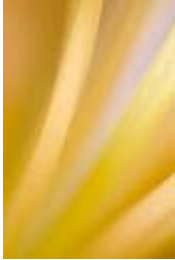
Words Requiring Definitions

- A. smitch [smitʃ]: a fleeting feeling
- B. jube [dʒuˈb]: a shade of yellow
- C. keeve [kʰiv]: a canoe
- D. wam [wam]: a skinny person (lady)
- E. easloff ['iːz · lɔf]: a kite
- F. kedid ['kʰɛ · rəd]: a shy person
- G. mavar ['meː · vaɪ]: a barge
- H. eyeyu ['aː · juː]: a child's toy
- I. narathooze ['næ · ɹə · θuːz]: a natural passageway
- J. phillontave ['fɪ · lən · tʰeɪv]: a store that sells staples
- K. lulurode ['luː · lə · ɹoːd]: a baby blanket
- L. goxiwall ['gak · sə · wɔɪ]: a reference book
- M. cengastumine [sɪn · ɡæs · tə · maːn]: an Indian spice
- N. poncrilader ['pʰɑŋ · kɹə · leː · ræ]: a machine that tests air pressure
- O. bowertilldew [,bə · wə · tʰɪl · duː]: a very high mountain
- P. chocksabeeble ['tʃak · sə · hi · bəɪ]: a food made from a mashed up root
- Q. whoagsafflerick [woːg · 'zæ · fəɪ · ɹɪk]: the action of carjacking
- R. tobecraydrub [tʰoː · bə · 'kɹeɪ · dɹəb]: a boxy, older kind of car

Definitions Requiring Words

- S. the wad of hair removed when cleaning a hairbrush: KRAstur ['kʰɹæ · stəɪ]
- T. the grease that accumulates on top of a hot pizza: slash [slæʃ]
- U. an unexpected cool breeze on a sultry day: blesh [blɛʃ]
- V. the feeling experienced by a death-row inmate after being pardoned or exonerated: weel [wiːɪ]
- W. a feeling of extreme disappointment: bah [bah]
- X. the feeling of being woken in the middle of the night by a strange noise: ahr [ɑɪ]
- Y. the name of the remotest island on earth: pahr [pʰɑɪ]

Images Requiring Words

- Z.  kresh [kʰɹɛʃ]
- a.  GAHRmin ['gɑɪ · mɪn]
- b.  belv [bɛlv]
- c.  BAYluh ['beɪ · lə]
- d.  time [tʰaɪm]
- e.  karse [kʰɑɪs]
- f.  fruhk [fɹʌk]
- g.  skwehl [skwɛɪ]

Participant Data Sheet

Participant #: 53

Age: 60

Sex: M

Linguistic Background: native speaker: English

Question ID

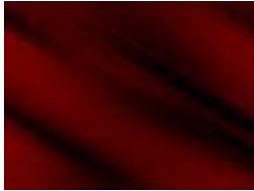
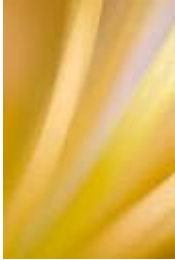
Words Requiring Definitions

- A. smitch [smitʃ]: a tool used in a game
- B. jube [dʒuˈb]: movement to the left
- C. keeve [kʰiv]: to hide away treasure as a kid
- D. wam [wam]: balance
- E. easloff ['iːz · lɔf]: when a plane pulls back prior to takeoff
- F. kedid ['kʰɛ · rəd]: when you're in the outfield and you try to get the ball but miss it
- G. mavar ['meː · vaɪ]: the process of applying a light skin of color to a canvas
- H. eyeyu ['aː · juː]: underwear for either sex
- I. narathooze ['næ · ɹə · θuːz]: a trough in the earth
- J. phillontave ['fɪ · lən · tʰeɪv]: a piece of hardware that tightens down a lamp fixture
- K. lulurode ['luː · lə · ɹoːd]: a bright purple flower
- L. goxiwall ['gak · sə · wɔɪ]: a last train stop village before reaching the big city
- M. cengastumine [sɪn · ɡæs · tə · maɪn]: a feeling a man gets when he loses his integrity
- N. poncrilader ['pʰɑŋ · kɹə · leɪ · ræ]: a savvy move in poker
- O. bowertilldew [ba · wə · tʰɪl · duː]: a way you negotiate according to our American cultural norms
- P. chocksaeheble ['tʃak · sə · hi · bæ]: the bend in a river where sediment has collected and it makes the area un-navigable
- Q. whoagsafflerick [woːg · 'zæ · fəɪ · ɹɪk]: to fertilize using organic material
- R. tobecraydrub [tʰoː · bæ · 'kreɪ · dɹəb]: a shallow body of water with lots of grass which provides shelter for ducks

Definitions Requiring Words

- S. the wad of hair removed when cleaning a hairbrush: glahp [glap]
- T. the grease that accumulates on top of a hot pizza: GWAHRguhfid [ˈgwaɪ · gə · faɪd]
- U. an unexpected cool breeze on a sultry day: luhVOreeus [lə · 'vɔ · ɹɪ · əs]
- V. the feeling experienced by a death-row inmate after being pardoned or exonerated: ahsahWUSH [a · sa · 'wuʃ]
- W. a feeling of extreme disappointment: WAHmpust ['wam · pʊst]
- X. the feeling of being woken in the middle of the night by a strange noise: uhLAHpuid [ə · 'la · pʊd]
- Y. the name of the remotest island on earth: heePEEzhioe [hi · 'pʰɪ · ʒi · oː]

Images Requiring Words

- Z.  uhFRAYzhuhfoid [ə · 'fɹeɪ · ʒə · fɔɪd]
- a.  MEguhstrahn ['mɛ · gə · stɹɑn]
- b.  smeel [smiːl]
- c.  MEHtuhdys ['mɛ · rə · daɪs]
- d.  SWAHMbee ['swam · bi]
- e.  mahROWtuh [ma · 'ɹoː · tə]
- f.  ooCHANoe [uː · 'tʃæ · noː]
- g.  ORfile ['ɔɪ · faɪl]

Participant Data Sheet

Participant #: 54

Age: 20

Sex: F

Linguistic Background: native speaker: English; beginning learner: French, Spanish, Italian

Question ID

Words Requiring Definitions

- A. smitch [smitʃ]: a pet toy for a cat
- B. jube [dʒuˈb]: a hand mixer
- C. keeve [kʰiv]: a vase for flowers
- D. wam [wam]: to throw a punch
- E. easloff ['iːz · lɔf]: a tool for cutting things in two like a saw
- F. kedid ['kʰɛ · rəd]: a type of bed, low to the ground and boxy
- G. mavar ['meː · vaɪ]: a type of cornstarch
- H. eyeyu ['aː · juː]: a peaceful, fishing Indian tribe
- I. narathooze ['næ · ɹə · θuːz]: to take something from
- J. phillontave ['fɪ · lən · tʰeɪv]: an earth-tone color, like moss
- K. lulurode ['luː · lə · ɹoːd]: a vegetable, like a pear, that grows on a vine
- L. goxiwall ['gak · sə · wɔɪ]: an animal with scales and feet, like an iguana
- M. cengastumine [sɪn · gæs · tə · maːn]: wise and knowledgeable
- N. poncrlader ['pʰɑŋ · kɹə · leː · rə]: a part of an engine, like the fuel injectors
- O. bowertilldew [,bə · wə · tʰɪl · duː]: a type of tree that produces only pine cones
- P. chocksaeheble ['tʃak · sə · hi · bəɪ]: a game involving coordination and chance, like twister
- Q. whoagsafflerick [woːg · 'zæ · fəɪ · ɹɪk]: a duck habitat
- R. tobecraydrub [tʰoː · bə · 'kreɪ · dɹəb]: a leader in an African country, like a president

Definitions Requiring Words

- S. the wad of hair removed when cleaning a hairbrush: thrudge [θɹʌdʒ]
- T. the grease that accumulates on top of a hot pizza: slihz [slɪz]
- U. an unexpected cool breeze on a sultry day: whoom [wʰuːm]
- V. the feeling experienced by a death-row inmate after being pardoned or exonerated: prikYOUNE [pɹɪ · 'kʰjuːn]
- W. a feeling of extreme disappointment: blort [blɔɪt]
- X. the feeling of being woken in the middle of the night by a strange noise: RAKshuhnayte ['ɹæk · ʃə · neɪt]
- Y. the name of the remotest island on earth: FLINdurahld ['flɪn · dæ · ɑɪd]

Images Requiring Words

- Z.  RIKtur ['ɹɪk · tə]
- a.  slahl [sləɪ]
- b.  slynt [slaɪnt]
- c.  KWAHNtrowz ['kʰwan · tʰoːz]
- d.  skwahlsh [skwaɪʃ]
- e.  buhTRAHpuhlis [bə · tʰɹə · pə · lɪs]
- f.  skad [skæd]
- g.  HISStee ['hɪ · stiː]

Participant Data Sheet

Participant #: 55

Age: 21

Sex: M

Linguistic Background: native speaker: English; beginning learner: French

Question ID

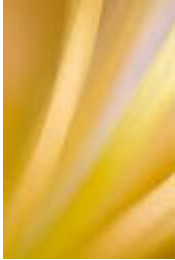
Words Requiring Definitions

- A. smitch [smitʃ]: to cloister
- B. jube [dʒuˈb]: to throw
- C. keeve [kʰiv]: a knife
- D. wam [wam]: a type of currency
- E. easloff ['iːz · lɔf]: a principle or standard
- F. kedid ['kʰɛ · rəd]: close together
- G. mavar ['meː · vaɪ]: an early, metal ship
- H. eyeyu ['aː · juː]: a grey rabbit-like animal
- I. narathooze ['næ · ʒə · θuːz]: a sea monster like Loch Ness
- J. phillontave ['fɪ · lən · tʰeɪv]: a leather-working tool
- K. lulurode ['luː · lə · ʒoːd]: a slingshot
- L. goxiwall ['gak · sə · wɔɪ]: a computer part, something technical
- M. cengastumine [sɪn · gæs · tə · maːn]: an ocean trench
- N. poncrilader ['pʰɑŋ · kɪə · leː · ræ]: a hat a ruler might wear
- O. bowertilldew [,bə · wæ · tʰɪl · duː]: an ornate robe
- P. chocksaeheble ['tʃak · sə · hi · bæɪ]: an old piece of farming equipment, like for tilling
- Q. whoagsafflerick [woːg · 'zæ · fəɪ · ɹɪk]: a small fly
- R. tobecraydrub [tʰoː · bæ · 'kreː · dɹəb]: a mountainous place, like Nepal

Definitions Requiring Words

- S. the wad of hair removed when cleaning a hairbrush: skaz [skæːz]
- T. the grease that accumulates on top of a hot pizza: BLOOuhl ['bluː · ʔ]
- U. an unexpected cool breeze on a sultry day: pip [pʰɪp]
- V. the feeling experienced by a death-row inmate after being pardoned or exonerated: ekSTROKE [ɛk · 'stɹoːk]
- W. a feeling of extreme disappointment: shim [ʃɪm]
- X. the feeling of being woken in the middle of the night by a strange noise: plam [pʰlæm]
- Y. the name of the remotest island on earth: theLAHL [ðə · 'lɑɪ]

Images Requiring Words

- Z.  shand [ʃænd]
- a.  flit [flɪt]
- b.  WASHroo ['wɑʃ · ɹuː]
- c.  flit [flɪt]
- d.  sprah [sprɑɪ]
- e.  flak [flæk]
- f.  branz [brænz]
- g.  dant [dænt]

Participant Data Sheet

Participant #: 56

Age: 21

Sex: M

Linguistic Background: native speaker: English; beginning learner: French

Question ID

Words Requiring Definitions

- A. smitch [smitʃ]: a little bit of something
- B. jube [dʒuˈb]: a ball
- C. keeve [kʰiv]: a slick surface
- D. wam [wam]: to make a noise
- E. easloff ['iːz · lɔf]: someone foreign who likes to read
- F. kedid ['kʰɛ · rəd]: skipped
- G. mavar ['meː · vaɪ]: an accident
- H. eyeyu ['aː · juː]: a skin irritation
- I. narathooze ['næ · ɹə · θuːz]: to sneeze
- J. phillontave ['fɪ · lən · tʰeɪv]: watching something
- K. lulurode ['luː · lə · ɹoːd]: doing something new
- L. goxiwall ['gak · sə · wɔɪ]: a type of slime or sludge
- M. cengastumine [sɪn · ɡæs · tə · maːn]: an element
- N. poncrlader ['pʰɑŋ · kɹə · leː · rə]: a machine that hammers
- O. bowertilldew [bə · wə · tʰɪl · duː]: a castle
- P. chocksaheeble ['tʃak · sə · hi · bəɪ]: the handle on a drawer
- Q. whoagsafflerick [woːg · ˈzæ · fəɪ · ɹɪk]: a system of pulleys
- R. tobecraydrub [tʰoː · bə · ˈkɹeɪ · dɹəb]: a large, plastic, box-shaped container

Definitions Requiring Words

- S. the wad of hair removed when cleaning a hairbrush: DAKsik ['dæk · sɪk]
- T. the grease that accumulates on top of a hot pizza: smlair [smlæːɹ]
- U. an unexpected cool breeze on a sultry day: GAthee ['gæ · θiː]
- V. the feeling experienced by a death-row inmate after being pardoned or exonerated: MLOUstig ['mlaː · stɪg]
- W. a feeling of extreme disappointment: MAHRtahr ['maɪ · taɪ]
- X. the feeling of being woken in the middle of the night by a strange noise: PLEKsik ['pʰlɛk · sɪk]
- Y. the name of the remotest island on earth: KLAKtik ['kʰlæk · tɪk]

Images Requiring Words



Z. VINCEtik ['vɪns · tɪk]



a. TYpoov ['tʰaː · puːv]



b. BLAYthik ['bleː · ðɪk]



c. ZLAKtik ['zlæk · tɪk]



d. wampt [wæːmt]



e. BLAHRtee ['blaɪ · riː]



f. RAKtik ['ɹæk · tɪk]



g. EYErup ['aː · ɹʊp]

Participant Data Sheet

Participant #: 57

Age: 20

Sex: M

Linguistic Background: native speaker: English; beginning learner: French

Question ID

Words Requiring Definitions

- A. smitch [smitʃ]: a nerdy person without a lot of friends
- B. jube [dʒuˈb]: a fast dance with a lot of weird motions
- C. keeve [kʰiv]: a bland food that poor people would eat
- D. wam [wam]: an exclamation of astonishment
- E. easloff ['iːz · lɔf]: a hearty sandwich with a dressing on it
- F. kedid ['kʰɛ · rəd]: a type of shirt or blouse
- G. mavar ['meː · vaɪ]: a profession available to many which is liberal arts-based
- H. eyeyu ['aː · juː]: a tropical, fruity, alcoholic drink
- I. narathooze ['næ · ɹə · θuːz]: a medical instrument for internal x-rays
- J. phillontave ['fɪ · lən · tʰeɪv]: a post-exercise snack
- K. lulurode ['luː · lə · ɹoːd]: a game that small children play at recess
- L. goxiwall ['gak · sə · wɔɪ]: a small herbivore animal hunted for its meat
- M. cengastumine [sɪn · ɡæs · tə · məˈn]: describes something unpleasant in the body, uneasiness
- N. poncilader ['pʰɑŋ · kɹə · leː · rə]: a device to mix drinks
- O. bowertilldew [ba · wə · tʰɪl · duː]: a light soup
- P. chocksabeeble ['tʃak · sə · hi · bəɪ]: a children's game
- Q. whoagsafflerick [woːg · ˈzæ · fəɪ · ɹɪk]: a profession which requires math and science skills
- R. tobecraydrub [tʰoː · bə · ˈkɹeɪ · dɹəb]: a small, wild animal, potentially dangerous, that some find cute

Definitions Requiring Words

- S. the wad of hair removed when cleaning a hairbrush: GURzuhrahn ['gə · ʒə · ɹɑn]
- T. the grease that accumulates on top of a hot pizza: lamBAYstoe [læm · ˈbeː · stoː]
- U. an unexpected cool breeze on a sultry day: MARish ['mæ · ɹɪʃ]
- V. the feeling experienced by a death-row inmate after being pardoned or exonerated: DENtul ['dɪn · tʰɪ]
- W. a feeling of extreme disappointment: MAHRlee ['maɹ · liː]
- X. the feeling of being woken in the middle of the night by a strange noise: URLuhf ['ə · ləf]
- Y. the name of the remotest island on earth: druhGANtoe [dɹə · ˈgæn · toː]

Images Requiring Words

- Z.  rooDAN [ɹuː · ˈdæn]
- a.  guhLAHN [gə · ˈlan]
- b.  DRAbul ['dɹæ · bʰɪ]
- c.  orTANdee [ɹɹ · ˈtʰæn · diː]
- d.  SWANtuhd ['swæːn · tədʰ]
- e.  purLOOF [pʰə · ˈluːf]
- f.  lahrsh [lɑɹʃ]
- g.  RAHNish ['ɹɑ · nɪʃ]

Participant Data Sheet

Participant #: 58

Age: 19

Sex: F

Linguistic Background: native speaker: English; beginning learner: French

Question ID

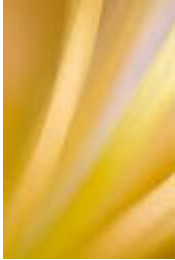
Words Requiring Definitions

- A. smitch [smitʃ]: a baseball
- B. jube [dʒuˈb]: happy
- C. keeve [kʰiv]: a robot
- D. wam [wam]: big
- E. easloff ['iːz · lɔf]: a couch
- F. kedid ['kʰɛ · rəd]: to do very well at something
- G. mavar ['meː · vaɪ]: a very bad person
- H. eyeyu ['aː · juː]: a trash can
- I. narathooze ['næ · ɹə · θuːz]: a type of anesthesia
- J. phillontave ['fɪ · lən · tʰeɪv]: somebody smart
- K. lulurode ['luː · lə · ɹoːd]: a type of toy
- L. goxiwall ['gak · sə · wɔɪ]: a big, mean monster, like Grendel
- M. cengastumine [sɪn · ɡæs · tə · maːn]: a swordsman
- N. poncrilader ['pʰɑŋ · kɹə · leː · rə]: a machine that stamps things
- O. bowertilldew [,ba · wə · tʰɪl · duː]: something's backside
- P. chocksaeheble ['tʃak · sə · hi · bəɪ]: pertaining to a rooster
- Q. whoagsafflerick [woːg · 'zæ · fəɪ · ɹɪk]: a torture chamber
- R. tobecraydrub [tʰoː · bə · 'kreɪ · dɹəb]: an above-ground cave

Definitions Requiring Words

- S. the wad of hair removed when cleaning a hairbrush: CHEEnis ['tʃiː · nɪs]
- T. the grease that accumulates on top of a hot pizza: SKRUMjuhs ['skɹʌm · dʒəs]
- U. an unexpected cool breeze on a sultry day: LUMdahr ['lʌm · daɪ]
- V. the feeling experienced by a death-row inmate after being pardoned or exonerated: PEEDmint ['pʰiːdː · mɪnt]
- W. a feeling of extreme disappointment: uhbl [ʌbɫ]
- X. the feeling of being woken in the middle of the night by a strange noise: WUHdrahr ['wʌ · dɹaɪ]
- Y. the name of the remotest island on earth: kanTEEkur [kʰæn · tʰiː · kə]

Images Requiring Words

- Z.  AHRfiht ['ɑːɹ · fɪt]
- a.  RAYahr ['reː · aɪ]
- b.  EEvurneer ['iː · vən · niːɹ]
- c.  urTAStik [ə · tʰæ · stɪk]
- d.  grihSAHR [ɡɹɪ · 'saɪ]
- e.  GUNdoor ['ɡʌn · dɔɪ]
- f.  PIHjuhr ['pʰɪ · dʒə]
- g.  IHruhtahr ['ɪ · ɹə · taɪ]

Participant Data Sheet

Participant #: 59

Age: 19

Sex: F

Linguistic Background: native speaker: English; beginning learner: French

Question ID

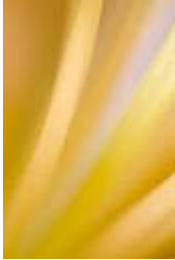
Words Requiring Definitions

- A. smitch [smitʃ]: a small amount of something
- B. jube [dʒuˈb]: footwear for the rain
- C. keeve [kʰiv]: a small branch off a river
- D. wam [wam]: a type of wide-brimmed hat
- E. easloff ['iːz · lɔf]: to cut something short
- F. kedid ['kʰɛ · rəd]: a hard ball between the size of a softball and a basketball
- G. mavar ['meː · vaɪ]: to destroy something
- H. eyeyu ['aː · juː]: a small, one-person boat
- I. narathooze ['næ · ɹə · θuːz]: to calm somebody down
- J. phillontave ['fɪ · lən · tʰeɪv]: a tool like a pick used in archaeology
- K. lulurode ['luː · lə · ɹoːd]: a tribal dance
- L. goxiwall ['gak · sə · wɔɪ]: a construction tool for measuring
- M. cengastumine [sɪn · gæs · tə · maːn]: to confuse or stump
- N. poncrilader ['pʰɑŋ · kɹə · leː · rə]: a time keeper, like a watch
- O. bowertilldew [ba · wə · tʰɪl · duː]: a type of wild plant, like a bush
- P. chocksaeheble ['tʃak · sə · hi · bəɪ]: something that helps find direction, like a map or a compass
- Q. whoagsafflerick [woːg · 'zæ · fəɪ · ɹɪk]: something fantastic or amazing
- R. tobecraydrub [tʰoː · bə · 'kreː · dɹəb]: something sad or melancholy

Definitions Requiring Words

- S. the wad of hair removed when cleaning a hairbrush: ZYlandul ['zaː · lən · dʌɪ]
- T. the grease that accumulates on top of a hot pizza: tyklairAHL [tʰaː · klæ · 'ɹaɪ]
- U. an unexpected cool breeze on a sultry day: WIStran ['wɪs · tɹæn]
- V. the feeling experienced by a death-row inmate after being pardoned or exonerated: ALtuhray ['aɪ · tə · eɪ]
- W. a feeling of extreme disappointment: disTYEgoe [dɪs · tʰaː · goː]
- X. the feeling of being woken in the middle of the night by a strange noise: WUNdurstun ['wʌn · dɔ · stən]
- Y. the name of the remotest island on earth: ahpuhZOray [a · pə · 'zɔ · ɹeɪ]

Images Requiring Words

- Z.  LEHsunsoul ['lɛ · sən · soʊ]
- a.  uhRAYzul [a · 'ɹeɪ · zʌɪ]
- b.  dyTIHNSun [daː · tʰɪn · sən]
- c.  FYhue ['faː · hjuː]
- d.  suhRANnuh [sə · 'ɹæ · nə]
- e.  vySINTay [vaː · 'sɪn · teɪ]
- f.  uhRANduh [ə · 'ɹæ · də]
- g.  kuhDYzul [kə · 'daː · zʌɪ]

Participant Data Sheet

Participant #: 60

Age: 29

Sex: M

Linguistic Background: native speaker: Spanish; fluent speaker: English; intermediate learner: French; beginning learner: Italian

Question ID

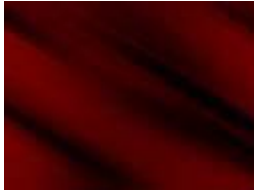
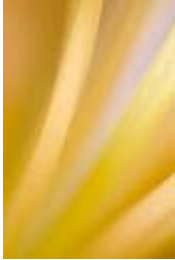
Words Requiring Definitions

- A. smitch [smitʃ]: a small smudge
- B. jube [dʒuˈb]: something attention-grabbing
- C. keeve [kʰiv]: the manner in which two things fit together
- D. wam [wam]: to steal
- E. easloff ['iːz · lɔf]: to remove something
- F. kedid ['kʰɛ · rəd]: a manner of striking something
- G. mavar ['meː · vaɪ]: a large structure, maybe for housing
- H. eyeyu ['aː · juː]: a type of aquatic animal
- I. narathooze ['næ · ɹə · θuːz]: relates to the esophagus
- J. phillontave ['fɪ · lən · tʰeɪv]: done in a thorough manner
- K. lulurode ['luː · lə · ɹoːd]: a passageway
- L. goxiwall ['gak · sə · wɔɪ]: a sturdy rock
- M. cengastumine [sɪn · ɡæs · tə · maːn]: a disease where sweating is one of the symptoms
- N. poncrilader ['pʰɑŋ · kɹə · leː · ræ]: something to punch through concrete
- O. bowertilldew [ba · wə · tʰɪl · duː]: a mythical creature greatly revered in a civilization
- P. chocksaeheble ['tʃak · sə · hi · bəɪ]: a wooden spear
- Q. whoagsafflerick [woːg · 'zæ · fəɪ · ɹɪk]: terrific
- R. tobecraydrub [tʰoː · bə · 'kreː · dɹəb]: a big, multi-purpose tub

Definitions Requiring Words

- S. the wad of hair removed when cleaning a hairbrush: HAKlee ['hæk · liː]
- T. the grease that accumulates on top of a hot pizza: AKSfil ['æks · fɪɪ]
- U. an unexpected cool breeze on a sultry day: REEkah ['ri · ka]
- V. the feeling experienced by a death-row inmate after being pardoned or exonerated: rayLEEsah [re · 'li · sa]
- W. a feeling of extreme disappointment: maHOH [ma · 'xəx]
- X. the feeling of being woken in the middle of the night by a strange noise: aHEE [a · 'hi]
- Y. the name of the remotest island on earth: bayreeSOsah [be · ri · 'so · sa]

Images Requiring Words

- Z.  row [ɹoː]
- a.  sownTAY [son · 'te]
- b.  vool [vuːɪ]
- c.  kooleeYEAH [ku · li · 'jæ]
- d.  PRAYnah ['pre · na]
- e.  KAYoe ['ka · jo]
- f.  bahn [ban]
- g.  rahHAL [ra · 'hal]

Participant Data Sheet

Participant #: 61

Age: 19

Sex: F

Linguistic Background: native speaker: English; beginning learner: French

Question ID

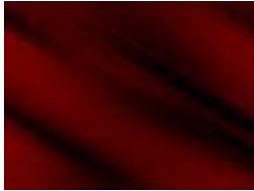
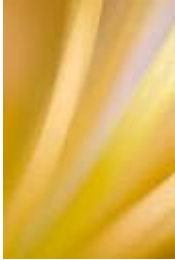
Words Requiring Definitions

- A. smitch [smitʃ]: to mix something up
- B. jube [dʒuˈb]: something lame-o
- C. keeve [kʰiv]: a manner of working with wood
- D. wam [wam]: your home
- E. easloff ['iːz · lɔf]: an insult
- F. kedid ['kʰɛ · rəd]: a type of bucket or container
- G. mavar ['meː · vaɪ]: pertaining to fabric
- H. eyeyu ['aː · juː]: a general place where kids hang out
- I. narathooze ['næ · ɹə · θuːz]: a Neanderthal
- J. phillontave ['fɪ · lən · tʰeɪv]: something unnecessary
- K. lulurode ['luː · lə · ɹoːd]: something that goes on and on and on
- L. goxiwall ['gak · sə · wɔɪ]: a weird (drinking) bar
- M. cengastumine [sɪn · gæs · tə · maːn]: a way of destroying something
- N. poncrilader ['pʰɑŋ · kɹə · leː · rə]: a machine for time travel
- O. bowertilldew [ba · wə · tʰɪl · duː]: a piece of farming equipment that plants seeds
- P. chocksabeeble ['tʃak · sə · hi · bəɪ]: a big furry monster that eats people
- Q. whoagsafflerick [woːg · 'zæ · fəɪ · ɹɪk]: a machine to help you do your hair
- R. tobecraydrub [tʰoː · bə · 'kreɪ · dɹəb]: a new backpack that floats behind you

Definitions Requiring Words

- S. the wad of hair removed when cleaning a hairbrush: JIHbrihnaht ['dʒɪ · bɹɪ · nat]
- T. the grease that accumulates on top of a hot pizza: IZwahd ['ɪz · wad]
- U. an unexpected cool breeze on a sultry day: GOOPtuhn ['guːp · tʰə]
- V. the feeling experienced by a death-row inmate after being pardoned or exonerated: PAHjuhnahd ['pʰa · dʒə · nad]
- W. a feeling of extreme disappointment: LADtunt ['læd · tʰɪnt]
- X. the feeling of being woken in the middle of the night by a strange noise: UNlit ['ʌn · lɪt]
- Y. the name of the remotest island on earth: MAHDSun ['mad · sʌn]

Images Requiring Words

- Z.  LOOBnaht ['luːb · nat]
- a.  SAHmul ['sa · mʌ]
- b.  UPləd ['ʌp · ləd]
- c.  BINSid ['bɪn · sɪd]
- d.  KAHNled ['kʰan · led]
- e.  TINsaht ['tʰɪn · sant]
- f.  NAHZdahn ['naz · dan]
- g.  KAHMpow ['kʰam · pʰaːw]

Participant Data Sheet

Participant #: 62

Age: 19

Sex: F

Linguistic Background: native speaker: English, Urdu; beginning learner: French, Latin

Question ID

Words Requiring Definitions

- A. smitch [smitʃ]: a tool like a hammer or a wrench
- B. jube [dʒuˈb]: a round, fruity candy
- C. keeve [kʰiv]: a baby toy
- D. wam [wam]: spicy chicken
- E. easloff ['iːz · lɔf]: a type of misbehavior
- F. kedid ['kʰɛ · rəd]: to throw something away
- G. mavar ['meː · vaɪ]: something on a ship, maybe for navigation
- H. eyeyu ['aː · juː]: a fish or some other aquatic creature
- I. narathooze ['næ · ɹə · θuːz]: a type of lotion, soap or face wash
- J. phillontave ['fɪ · lən · tʰeɪv]: a shoe, like a loafer
- K. lulurode ['luː · lə · ɹoːd]: a flower bed
- L. goxiwall ['gak · sə · wɔɪ]: something old
- M. cengastumine [sɪn · ˈgæs · tə · maːn]: two things that are alike
- N. poncrlader ['pʰɑŋ · kɹə · leː · rə]: a measuring device
- O. bowertilldew [bə · wə · tʰɪl · duː]: an electronic gadget for measuring
- P. chocksaeheble ['tʃak · sə · hi · bəɪ]: reminiscent of bamboo
- Q. whoagsafflerick [woːg · ˈzæ · fəɪ · ɹɪk]: a small insect
- R. tobecraydrub [tʰoː · bə · ˈkɹeɪ · dɹəb]: a large enclosed object

Definitions Requiring Words

- S. the wad of hair removed when cleaning a hairbrush: SKUHfee ['ska · fiː]
- T. the grease that accumulates on top of a hot pizza: CHEEyahz ['tʃiː · jaz]
- U. an unexpected cool breeze on a sultry day: VOOhah ['vuː · ha]
- V. the feeling experienced by a death-row inmate after being pardoned or exonerated: HAHfee ['ha · fiː]
- W. a feeling of extreme disappointment: BIDno ['bɪdˈ · noː]
- X. the feeling of being woken in the middle of the night by a strange noise: TERno ['tʰɛɹ · noː]
- Y. the name of the remotest island on earth: FAHrinz ['fa · ɹɪnz]

Images Requiring Words

- Z.  ZEErahd ['ziː · ɹad]
- a.  dan [dæn]
- b.  WINair ['wi · neɹ]
- c.  breeYELzin [bɹiː · ˈjeɪ · zin]
- d.  KAHNtruhp ['kʰan · tɹəp]
- e.  PIKrain ['pʰɪk · ɹeɪn]
- f.  burMAHRLin [bə · ˈmaɹ · lɪn]
- g.  feeDAHNzuh [fiː · ˈdan · zə]

Participant Data Sheet

Participant #: 63

Age: 19

Sex: F

Linguistic Background: native speaker: English; beginning learner: Spanish

Question ID

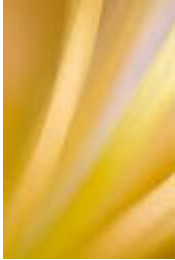
Words Requiring Definitions

- A. smitch [smitʃ]: a speck
- B. jube [dʒuˈb]: a blob of something
- C. keeve [kʰiv]: a green fruit like a lime (NOT a kiwi)
- D. wam [wam]: a baseball bat
- E. easloff ['iːz · lɔf]: to ski
- F. kedid ['kʰɛ · rəd]: skittish
- G. mavar ['meː · vaɪ]: to travel
- H. eyeyu ['aː · juː]: a greeting
- I. narathooze ['næ · ɹə · θuːz]: to read
- J. phillontave ['fɪ · lən · tʰeɪv]: to think
- K. lulurode ['luː · lə · ɹoʊd]: pink candy, like bubble gum
- L. goxiwall ['gak · sə · wɔɪ]: to look at something
- M. cengastumine [sɪn · gæs · tə · maɪn]: to scratch
- N. poncrilader ['pʰɑŋ · kɹə · leɪ · rə]: a type of motorbike, like a dirt bike
- O. bowertilldew [ba · wə · tʰɪl · duː]: to be mean
- P. chocksaeheble ['tʃak · sə · hi · bəl]: to chop something
- Q. whoagsafflerick [woʊg · 'zæ · fəl · ɹɪk]: a raft
- R. tobecraydrub [tʰoʊ · bə · 'kreɪ · dɹəb]: a big rock, like a boulder

Definitions Requiring Words

- S. the wad of hair removed when cleaning a hairbrush: KEERuhshoo ['kʰiː · ɹə · ʃuː]
- T. the grease that accumulates on top of a hot pizza: NEHsofil ['nɛ · soʊ · fɪɪ]
- U. an unexpected cool breeze on a sultry day: ahWAHha [a · 'wa · ha]
- V. the feeling experienced by a death-row inmate after being pardoned or exonerated: VEduhlil ['ve · də · lɪɪ]
- W. a feeling of extreme disappointment: SAsuhtur ['sæ · sə · rə]
- X. the feeling of being woken in the middle of the night by a strange noise: uhBAHtruh [ə · 'ba · tɹə]
- Y. the name of the remotest island on earth: ahBOOwahaha [a · 'buː · wa · ha]

Images Requiring Words

- Z.  vuhRAHnuh [və · 'ɹə · nə]
- a.  LAHtuhkuh ['la · rə · kə]
- b.  PEHruhtahl ['pʰɛ · ɹə · tɔɪ]
- c.  BURlah ['bə · ləx]
- d.  kahlahMOO [ka · la · 'muː]
- e.  ruhBUNduh [ɹə · 'bʌn · də]
- f.  SKEHtuhkai ['ske · rə · kaɪ]
- g.  ZEHtruhfur ['ze · tɹə · fə]

Participant Data Sheet

Participant #: 64

Age: 20

Sex: F

Linguistic Background: native speaker: English; beginning learner: Spanish

Question ID

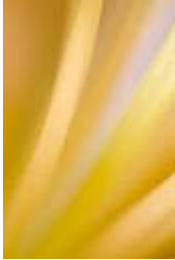
Words Requiring Definitions

- A. smitch [smitʃ]: black
- B. jube [dʒuˈb]: vanilla coke
- C. keeve [kʰiv]: to jump
- D. wam [wam]: to throw
- E. easloff ['iːz · lɔf]: high
- F. kedid ['kʰɛ · rəd]: a blanket
- G. mavar ['meː · vaɪ]: a wire
- H. eyeyu ['aː · juː]: bright
- I. narathooze ['næ · ɹə · θuːz]: clothes
- J. phillontave ['fɪ · lən · tʰeɪv]: to pull
- K. lulurode ['luː · lə · ɹoːd]: erratic motion
- L. goxiwall ['gak · sə · wɔɪ]: blocked in
- M. cengastumine [sɪn · ˈgæs · tə · maːn]: clouds
- N. poncrilader ['pʰɑŋ · kɹə · leː · ræ]: to poke
- O. bowertilldew [ba · wæ · tʰɪl · duː]: a toilet
- P. chocksaeheble ['tʃak · sə · hi · bæ]: sweet
- Q. whoagsafflerick [woːg · ˈzæ · fəɪ · ɹɪk]: awake
- R. tobecraydrub [tʰoː · bæ · ˈkreː · dɹəb]: to hit

Definitions Requiring Words

- S. the wad of hair removed when cleaning a hairbrush: OOVlah [ˈuːv · la]
- T. the grease that accumulates on top of a hot pizza: HAIIah [ˈhaː · la]
- U. an unexpected cool breeze on a sultry day: myklahOO [maː · kla · ˈuː]
- V. the feeling experienced by a death-row inmate after being pardoned or exonerated: aiYET [aː · ˈjet]
- W. a feeling of extreme disappointment: uhrowKEE [ə · ɹoː · ˈkʰɪ]
- X. the feeling of being woken in the middle of the night by a strange noise: glice [glaːs]
- Y. the name of the remotest island on earth: wole [woːɪ]

Images Requiring Words

- Z.  rat [ɹæt]
- a.  lull [lʌ]
- b.  SKArow [ˈskæ · ɹoː]
- c.  SURrouse [ˈsæ · ɹaːs]
- d.  LAHRgow [ˈlaɪ · goː]
- e.  PRAHklek [ˈpʰɹak · ɛk]
- f.  WURrowbro [ˈwæ · ɹoː · bɹoː]
- g.  GRAHblo [ˈgɹab · loː]

Participant Data Sheet

Participant #: 65

Age: 19

Sex: F

Linguistic Background: native speaker: English; beginning learner: French, Spanish

Question ID

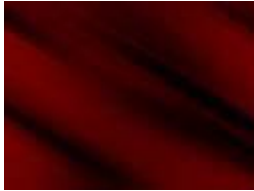
Words Requiring Definitions

- A. smitch [smitʃ]: to flash a smile
- B. jube [dʒuˈb]: a tube
- C. keeve [kʰiv]: a weapon, like a dagger
- D. wam [wam]: pertaining to a religious ritual
- E. easloff ['iːz · lɔf]: a plant like oleander
- F. kedid ['kʰɛ · rəd]: twisted together in a pile
- G. mavar ['meː · vaɪ]: a big ship
- H. eyeyu ['aː · juː]: a fruit like a papaya
- I. narathooze ['næ · ɹə · θuːz]: nose medicine
- J. phillontave ['fɪ · lən · tʰeɪv]: something sticky and gritty
- K. lulurode ['luː · lə · ɹoːd]: fresh irises
- L. goxiwall ['gak · sə · wɔɪ]: large, powerful castles, maybe with gargoyles
- M. cengastumine [sɪn · ɡæs · tə · maɪn]: a strong, alcoholic drink
- N. poncrilader ['pʰɑŋ · kɹə · leɪ · ræ]: a machine that shoots out balls
- O. bowertilldew [,bə · wə · tʰɪl · duː]: a sailboat
- P. chocksaeheble ['tʃak · sə · hi · bəɪ]: reminiscent of a rodeo
- Q. whoagsafflerick [woːg · 'zæ · fəɪ · ɹɪk]: pertaining to knitting
- R. tobecraydrub [tʰoː · bə · 'kreɪ · dɹəb]: reminiscent of hobbits because they're short

Definitions Requiring Words

- S. the wad of hair removed when cleaning a hairbrush: OOwuhlak ['u · wə · læk]
- T. the grease that accumulates on top of a hot pizza: SNILtee ['sniː · ti]
- U. an unexpected cool breeze on a sultry day: TREELful ['tʰɪl · fəɪ]
- V. the feeling experienced by a death-row inmate after being pardoned or exonerated: shupt [ʃʌpt]
- W. a feeling of extreme disappointment: LAduhn ['læ · rəɪ]
- X. the feeling of being woken in the middle of the night by a strange noise: peekt [pʰiːkt]
- Y. the name of the remotest island on earth: AHmuhnahn ['a · mə · nan]

Images Requiring Words

Z.  strahd [stɹad]	a.  uhLOOtuhn [ə · 'luː · tən]	b.  OOLid ['uː · lɪd]	c.  WAHMdin ['wam · dɪn]
d.  STIHLdin ['stɪɫ · dɪn]	e.  krahp [kʰɹap]	f.  yur [jə]	g.  FAIduhn ['faɪ · rəɪ]

Participant Data Sheet

Participant #: 66

Age: 19

Sex: F

Linguistic Background: native speaker: English; beginning learner: Spanish

Question ID

Words Requiring Definitions

- A. smitch [smitʃ]: a scratch
- B. jube [dʒuˈb]: a tube in a 'J'-form
- C. keeve [kʰiv]: leaves in the wind
- D. wam [wam]: a splash
- E. easloff ['iːz · lɔf]: pertaining to ease and flow
- F. kedid ['kʰɛ · rəd]: to hit something
- G. mavar ['meː · vaɪ]: to push something
- H. eyeyu ['aː · juː]: an iron
- I. narathooze ['næ · ɹə · θuːz]: to influence someone
- J. phillontave ['fɪ · lən · tʰeɪv]: to film someone
- K. lulurode ['luː · lə · ɹoːd]: to swerve down the road
- L. goxiwall ['gak · sə · wɔɪ]: to make a weird noise
- M. cengastumine [sɪn · ɡæs · tə · maɪn]: to write something
- N. poncrilader ['pʰɑŋ · kɹə · leɪ · rə]: a technological device for pushing or opening things
- O. bowertilldew [bə · wə · tʰɪl · duː]: the capability to act
- P. chocksaeheble ['tʃak · sə · hi · bəɪ]: being able to do something
- Q. whoagsafflerick [woːg · 'zæ · fəɪ · ɹɪk]: something woven
- R. tobecraydrub [tʰoː · bə · 'kreɪ · dɹəb]: reminiscent of a cave

Definitions Requiring Words

- S. the wad of hair removed when cleaning a hairbrush: skruhWOW [skɹə · 'waː]
- T. the grease that accumulates on top of a hot pizza: skyur [skɪə]
- U. an unexpected cool breeze on a sultry day: WOoloo ['wuː · luː]
- V. the feeling experienced by a death-row inmate after being pardoned or exonerated: NOwo ['noː · woː]
- W. a feeling of extreme disappointment: JOno ['dʒɪnoː · noː]
- X. the feeling of being woken in the middle of the night by a strange noise: wowsh [waːʃ]
- Y. the name of the remotest island on earth: shuhRAH [ʃu · 'ɹa]

Images Requiring Words

- Z.  suhWED [sə · 'wɛd]
- a.  suhROO [sə · 'ɹuː]
- b.  suhWAID [sə · 'weɪd]
- c.  oash [oːʃ]
- d.  suhWURK [sə · 'wəɪk]
- e.  splahkt [splakt]
- f.  kart [kʰaɪt]
- g.  ruhKRAK [ɹə · 'kʰɹæk]

Participant Data Sheet

Participant #: 67

Age: 21

Sex: F

Linguistic Background: native speaker: English; beginning learner: Spanish

Question ID

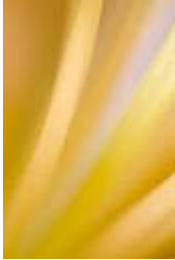
Words Requiring Definitions

- A. smitch [smitʃ]: a thief
- B. jube [dʒuˈb]: to run
- C. keeve [kʰiv]: to dig
- D. wam [wam]: to listen
- E. easloff ['iːz · lɔf]: to eat
- F. kedid ['kʰɛ · rəd]: popcorn
- G. mavar ['meː · vaɪ]: a ship, like a yacht
- H. eyeyu ['aː · juː]: the universe
- I. narathooze ['næ · ɹə · θuːz]: the jungle
- J. phillontave ['fɪ · lən · tʰeɪv]: to drop on the ground
- K. lulurode ['luː · lə · ɹoːd]: curves, like in a road OR a rose
- L. goxiwall ['gak · sə · wɔɪ]: an old castle
- M. cengastumine [sɪn · ɡæs · tə · maːn]: a human
- N. poncrilader ['pʰɑŋ · kɹə · leː · rə]: destruction
- O. bowertilldew [ba · wə · tʰɪl · duː]:
- P. chocksaeheble ['tʃak · sə · hi · bəɪ]: chewy candy
- Q. whoagsafflerick [woːg · 'zæ · fəɪ · ɹɪk]: a quilt
- R. tobecraydrub [tʰoː · bə · 'kreː · dɹəb]: evil

Definitions Requiring Words

- S. the wad of hair removed when cleaning a hairbrush: sunBALis [sən · 'bæ · lɪs]
- T. the grease that accumulates on top of a hot pizza: buhLAHstik [bə · 'la · stɪk]
- U. an unexpected cool breeze on a sultry day: LAwureez ['læ · wə · ɹiːz]
- V. the feeling experienced by a death-row inmate after being pardoned or exonerated: zoucht [zaːtʃt]
- W. a feeling of extreme disappointment: feen [fiːn]
- X. the feeling of being woken in the middle of the night by a strange noise: ZAvich ['zæ · vɪt]
- Y. the name of the remotest island on earth: zouVAR [zaː · 'vaɪ]

Images Requiring Words

- Z.  duhMOWSE [də · 'moːs]
- a.  LAzit ['læ · zɪt]
- b.  SAreez ['sæ · ɹiːz]
- c.  juhMEESH [dʒə · 'miːʃ]
- d.  SAɪyahk ['saː · ak]
- e.  JIHguh ['dʒɪ · ɡə]
- f.  chouse [tʃaːs]
- g.  RAHMmus ['ɹa · məs]

Participant Data Sheet

Participant #: 68

Age: 19

Sex: M

Linguistic Background: native speaker: English; beginning learner: Spanish, Latin

Question ID

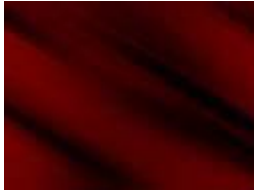
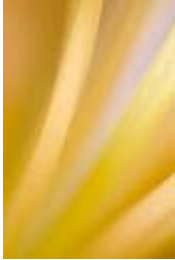
Words Requiring Definitions

- A. smitch [smitʃ]: clapping
- B. jube [dʒuˈb]: a bathtub
- C. keeve [kʰiv]: a telephone
- D. wam [wam]: to slap
- E. easloff ['iːz · lɔf]: a powder room
- F. kedid ['kʰɛ · rəd]: something to cook in, like a pan
- G. mavar ['meː · vaɪ]: grass
- H. eyeyu ['aː · juː]: a swing
- I. narathooze ['næ · ɹə · θuːz]: a bed
- J. phillontave ['fɪ · lən · tʰeɪv]: duct tape
- K. lulurode ['luː · lə · ɹoːd]: cough medicine
- L. goxiwall ['gak · sə · wɔɪ]: cotton ball
- M. cengastumine [sɪn · ɡæs · tə · maɪn]: a water heater
- N. poncrilader ['pʰɑŋ · kɹə · leɪ · ræ]: tongs
- O. bowertilldew [ba · wə · tʰɪl · duː]: tomorrow
- P. chocksabeeble ['tʃak · sə · hi · bəɪ]: a horse barn
- Q. whoagsafflerick [woːg · 'zæ · fəɪ · ɹɪk]: a way of saying “see you later”
- R. tobecraydrub [tʰoː · bə · 'kreɪ · dɹəb]: a type of cough syrup

Definitions Requiring Words

- S. the wad of hair removed when cleaning a hairbrush: WAHthul ['wa · θɔɪ]
- T. the grease that accumulates on top of a hot pizza: SAthul ['sæ · θɔɪ]
- U. an unexpected cool breeze on a sultry day: loomf [luːmf]
- V. the feeling experienced by a death-row inmate after being pardoned or exonerated: AHthrow ['a · θɹoː]
- W. a feeling of extreme disappointment: SIMfuhno ['sɪm · fə · noː]
- X. the feeling of being woken in the middle of the night by a strange noise: KRAthul ['kʰɹæ · θɔɪ]
- Y. the name of the remotest island on earth: DEHzuhmd ['de · zəmd]

Images Requiring Words

- Z.  WAHthul ['wa · θɔɪ]
- a.  RIMfum ['ɹɪm · fəɪ]
- b.  AHkul ['a · kɔɪ]
- c.  PARthum ['pʰɑɪ · θəɪ]
- d.  SMURthur ['smə · θəɪ]
- e.  URdum ['ə · dəɪ]
- f.  SKAthumd ['skæ · θənd]
- g.  KREEdul ['kʰɹɪ · rɔɪ]

Participant Data Sheet

Participant #: 69

Age: 19

Sex: F

Linguistic Background: native speaker: English; beginning learner: French, Latin

Question ID

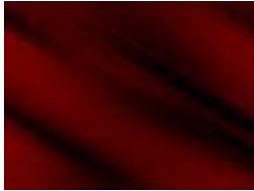
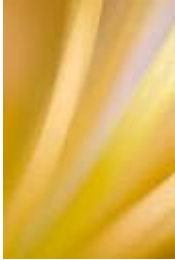
Words Requiring Definitions

- A. smitch [smitʃ]: smelly
- B. jube [dʒuˈb]: jelly
- C. keeve [kʰiv]: mysterious
- D. wam [wam]: a type of fruity gum
- E. easloff ['iːz · lɔf]: an apartment
- F. kedid ['kʰɛ · rəd]: a doll
- G. mavar ['meː · vaɪ]: escargot
- H. eyeyu ['aː · juː]: a board game
- I. narathooze ['næ · ɹə · θuːz]: Native American clothing
- J. phillontave ['fɪ · lən · tʰeɪv]: a biologist
- K. lulurode ['luː · lə · ɹoːd]: a swing dance
- L. goxiwall ['gak · sə · wɔɪ]: a ghost
- M. cengastumine [sɪn · ˈgæs · tə · maɪn]: an extinct spider
- N. poncrlader ['pʰɑŋ · kɹə · leː · rə]: a psychotherapist
- O. bowertilldew [ba · wə · tʰɪl · duː]: someone in charge
- P. chocksaeheble ['tʃak · sə · hi · bəɪ]: performing a type of yoga
- Q. whoagsafflerick [woːg · ˈzæ · fəɪ · ɹɪk]: a color like dark blue
- R. tobecraydrub [tʰoː · bə · ˈkɹeɪ · dɹəb]: a musical instrument, like the tuba

Definitions Requiring Words

- S. the wad of hair removed when cleaning a hairbrush: pahd [pʰad]
- T. the grease that accumulates on top of a hot pizza: RIHzul ['ɹɪ · zʰɪ]
- U. an unexpected cool breeze on a sultry day: wowld [woːld]
- V. the feeling experienced by a death-row inmate after being pardoned or exonerated: buhks [bʰaks]
- W. a feeling of extreme disappointment: lad [læd]
- X. the feeling of being woken in the middle of the night by a strange noise: IKEtin ['aɪk · tɪn]
- Y. the name of the remotest island on earth: WOODoe ['wuː · doː]

Images Requiring Words

- Z.  shold [ʃoːld]
- a.  wahn [wan]
- b.  meeg [miːg]
- c.  LEDee ['lɛ · riː]
- d.  KRIpee ['kʰɹɪ · piː]
- e.  FRAYzee ['fɹeɪ · ziː]
- f.  KOOKsum ['kʰʊk · sʌm]
- g.  chait [tʃeɪt]

Participant Data Sheet

Participant #: 70

Age: 19

Sex: F

Linguistic Background: native speaker: English; beginning learner: Spanish

Question ID

Words Requiring Definitions

- A. smitch [smitʃ]: to go fetch something
- B. jube [dʒuˈb]: a greeting
- C. keeve [kʰiv]: an unpleasant person
- D. wam [wam]: a small animal, like a domesticated dog
- E. easloff ['iːz · lɔf]: a giraffe
- F. kedid ['kʰɛ · rəd]: to leave
- G. mavar ['meː · vaɪ]: a fruit like an orange
- H. eyeyu ['aː · juː]: a purse
- I. narathooze ['næ · ɹə · θuːz]: socks
- J. phillontave ['fɪ · lən · tʰeɪv]: to run
- K. lulurode ['luː · lə · ɹoːd]: to hang out
- L. goxiwall ['gak · sə · wɔɪ]: to be lazy
- M. cengastumine [sɪn · gæs · tə · maɪn]: to think deeply
- N. poncilader ['pʰɑŋ · kɪə · leɪ · rə]: an intelligent person
- O. bowertilldew [bə · wə · tʰɪl · duː]: to procrastinate
- P. chocksaeheble ['tʃak · sə · hi · bəɪ]: to be productive
- Q. whoagsafflerick [woːg · 'zæ · fəɪ · ɹɪk]: something amazing
- R. tobecraydrub [tʰoː · bə · 'kreɪ · dɹəb]: to call a duck

Definitions Requiring Words

- S. the wad of hair removed when cleaning a hairbrush: FUMBahr ['fʌm · baɪ]
- T. the grease that accumulates on top of a hot pizza: GOOMBuh ['guːm · bə]
- U. an unexpected cool breeze on a sultry day: SOOweesh ['suː · wiːʃ]
- V. the feeling experienced by a death-row inmate after being pardoned or exonerated: grish [ɡɹɪʃ]
- W. a feeling of extreme disappointment: JOOMbye ['dʒuːm · baɪ]
- X. the feeling of being woken in the middle of the night by a strange noise: ekSTRAYneeuh [ɛk · 'stɹeɪ · niː · jə]
- Y. the name of the remotest island on earth: KOOwith ['kʰuː · wɪθ]

Images Requiring Words

- Z.  flooEESH [fluː · 'iːʃ]
- a.  BREElite ['bɹiː · laɪt]
- b.  FLIMbee ['flɪm · biː]
- c.  JOOleelahnd ['dʒuː · liː · land]
- d.  suhKLEEEzeeuh [sə · 'kʰliː · ziː · ə]
- e.  POYNuth ['pʰɔɪ · nəθ]
- f.  SEElayg ['siː · leɪg]
- g.  HEEMlin ['hiːm · lɪn]

Participant Data Sheet

Participant #: 71

Age: 19

Sex: F

Linguistic Background: native speaker: English; beginning learner: Spanish

Question ID

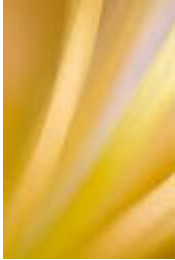
Words Requiring Definitions

- A. smitch [smitʃ]: to quiet somebody
- B. jube [dʒuˈb]: a big, round rock
- C. keeve [kʰiv]: a sudden movement
- D. wam [wam]: describes a moaning noise
- E. easloff ['iːz · lɔf]: a plain, wooden chair
- F. kedid ['kʰɛ · rəd]: something that has been shortened
- G. mavar ['meː · vaɪ]: a small, ground-dwelling mammal
- H. eyeyu ['aː · juː]: a country path
- I. narathooze ['næ · ɹə · θuːz]: a decongestant
- J. phillontave ['fɪ · lən · tʰeɪv]: a light fixture like those you see in the movie theater
- K. lulurode ['luː · lə · ɹoːd]: a field on the plains with tall grass
- L. goxiwall ['gak · sə · wɔɪ]: a stained glass window
- M. cengastumine [sɪn · gæs · tə · maːn]: an 18 wheeler
- N. poncrilader ['pʰɑŋ · kɹə · leː · rə]: a know-it-all
- O. bowertilldew [,ba · wə · tʰɪl · duː]: a lawn mower
- P. chocksaeheble ['tʃak · sə · hi · bəɪ]: a kitchen table
- Q. whoagsafflerick [woːg · 'zæ · fəɪ · ɹɪk]: a steamboat
- R. tobecraydrub [tʰoː · bə · 'kreɪ · dɹəb]: a closet

Definitions Requiring Words

- S. the wad of hair removed when cleaning a hairbrush: DAHsul ['da · sʰɪ]
- T. the grease that accumulates on top of a hot pizza: LYkreese ['laː · kɹiːs]
- U. an unexpected cool breeze on a sultry day: SEEmuh ['siː · mə]
- V. the feeling experienced by a death-row inmate after being pardoned or exonerated: disTINshun [dɪs · 'tɪn · ʃən]
- W. a feeling of extreme disappointment: PURniks ['pʰə · nɪks]
- X. the feeling of being woken in the middle of the night by a strange noise: NURjip ['nə · dʒɪp]
- Y. the name of the remotest island on earth: GASlahn ['gæs · lan]

Images Requiring Words

- Z.  SEERguhn ['siː · gʱən]
- a.  JESSlahv ['dʒes · lav]
- b.  uhWEERdreh [ə · 'wiː · dɹɛ]
- c.  GREFtuhr ['gɹɛf · tə]
- d.  SHURwell ['ʃə · wɛɪ]
- e.  KAMtuhn ['kʰæm · tʰən]
- f.  ANdurve ['æn · dəv]
- g.  KRISlodge ['kʰɪs · lɔdʒ]

Participant Data Sheet

Participant #: 72

Age: 19

Sex: F

Linguistic Background: native speaker: English; intermediate learner: Latin; beginning learner: Spanish

Question ID

Words Requiring Definitions

- A. smitch [smitʃ]: a small animal, like a squirrel
- B. jube [dʒuˈb]: a gathering place, maybe for worship
- C. keeve [kʰiv]: a computerized tool for making various types of calculations
- D. wam [wam]: a wooden sailboat
- E. easloff ['iːz · lɔf]: a soup with noodles, maybe homemade
- F. kedid ['kʰɛ · rəd]: an athletic event similar to hopping and jumping
- G. mavar ['meː · vaɪ]: sharp medical tools
- H. eyeyu ['aː · juː]: an animal like a bear that walks on two legs
- I. narathooze ['næ · ɹə · θuːz]: a bubbly, alcoholic beverage
- J. phillontave ['fɪ · lən · tʰeɪv]: toothpaste
- K. lulurode ['luː · lə · ɹoːd]: a disease of the lymph nodes
- L. goxiwall ['gak · sə · wɔɪ]: a tool used around the yard to dig things up or break up soil
- M. cengastumine [sɪn · ɡæs · tə · maːn]: a medicine that treats abdominal pain
- N. poncrlader ['pʰɑŋ · kɹə · leː · ræ]: something that makes holes
- O. bowertilldew [ba · wə · tʰɪl · duː]: a hot desert location
- P. chocksaeheble ['tʃak · sə · hi · bæ]: a portable display used in the stock market which shows the quotes
- Q. whoagsafflerick [woːg · zæ · fəɪ · ɹɪk]: a building whose top is pentagonal, the columns are square and the structure is open like the Parthenon
- R. tobecraydrub [tʰoː · bæ · kɹeː · dɹəb]: a type of putty used by a sculptor

Definitions Requiring Words

- S. the wad of hair removed when cleaning a hairbrush: gooSTAHbrah [guː · sta · bra]
- T. the grease that accumulates on top of a hot pizza: ahstayNAHday [a · steː · na · deː]
- U. an unexpected cool breeze on a sultry day: hevuhnDISkuhnee [he · vʌŋ · dɪs · kə · niː]
- V. the feeling experienced by a death-row inmate after being pardoned or exonerated: MEEbret ['miː · bɹet]
- W. a feeling of extreme disappointment: ahBAHstay [a · ba · steː]
- X. the feeling of being woken in the middle of the night by a strange noise: disKERToe [dɪs · kɛɪ · toː]
- Y. the name of the remotest island on earth: duhbestuhTAHray [də · be · stə · tʰa · ɹeː]

Images Requiring Words

- Z.  a.  b.  c. 
- ahnostuhLEHtay [a · noː · stə · 'ɛ · teː] kahlabhahrNAHtay [ka · la · baɪ · na · teː] anahzuhNETay [a · na · zə · 'nɛ · teː] goostahFAHray [guː · sta · fa · ɹeː]

- d.  e.  f.  g. 
- porPOR [pʰɔɪ · pʰɔɪ] FRAYgo ['fɹeː · goː] PORuhtay ['pʰɔɪ · ɹə · teː] rayKLAHtay [ɹeː · kʰla · teː]

Participant Data Sheet

Participant #: 73

Age: 19

Sex: F

Linguistic Background: native speaker: English; beginning learner: French, Spanish

Question ID

Words Requiring Definitions

- A. smitch [smitʃ]: to be sarcastic
- B. jube [dʒuˈb]: a liquid, like oil
- C. keeve [kʰiv]: a green vegetable, like a pea
- D. wam [wam]: something woven, like a basket or quilt
- E. easloff ['iːz · lɔf]: walking
- F. kedid ['kʰɛ · rəd]: a sport with balls
- G. mavar ['meː · vaɪ]: a food like chocolate
- H. eyeyu ['aː · juː]: an internet research site, like Wikipedia
- I. narathooze ['næ · ɹə · θuːz]: to influence someone
- J. phillontave ['fɪ · lən · tʰeɪv]: to find something you lost
- K. lulurode ['luː · lə · ɹoːd]: a line of people
- L. goxiwall ['gak · sə · wɔɪ]: to freak out
- M. cengastumine [sɪn · ˈgæs · tə · maɪn]: to experiment with chemicals
- N. poncilader ['pʰɑŋ · kɪə · leɪ · ræ]: a chewy candy
- O. bowertilldew [ba · wə · tʰɪl · duː]: a RPG-type video game
- P. chocksabeeble ['tʃak · sə · hi · bəɪ]: a type of rock, small and smooth
- Q. whoagsafflerick [woːg · ˈzæ · fəɪ · ɹɪk]: soft material, like cashmere
- R. tobecraydrub [tʰoː · bə · ˈkreɪ · dɹəb]: something to be feared

Definitions Requiring Words

- S. the wad of hair removed when cleaning a hairbrush: shuhSWOOzee [ʃə · ˈswuː · ziː]
- T. the grease that accumulates on top of a hot pizza: mahrKEE [maɪ · ˈkʰiː]
- U. an unexpected cool breeze on a sultry day: LANmahr ['læn · maɪ]
- V. the feeling experienced by a death-row inmate after being pardoned or exonerated: FLAsuhree ['flæ · sə · ɹiː]
- W. a feeling of extreme disappointment: BAHrmin ['baɪ · mɪn]
- X. the feeling of being woken in the middle of the night by a strange noise: KAHRnuhree ['kʰaɪ · nə · ɹiː]
- Y. the name of the remotest island on earth: SEHkuhl ['se · kʰ]

Images Requiring Words

- Z.  rahss [ɹas]
- a.  bloush [blaʊʃ]
- b.  breen [bɹiːn]
- c.  assLOWNT [æs · ˈloʊnt̚]
- d.  MAHrul ['ma · ɹʊl]
- e.  TILsin ['tʰɪl · sɪn]
- f.  kreese [kʰɹiːs]
- g.  stall [stɑɪ]

Participant Data Sheet

Participant #: 74

Age: 21

Sex: F

Linguistic Background: native speaker: English; beginning learner: French

Question ID

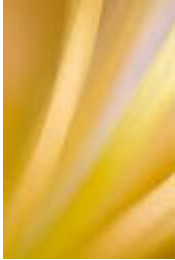
Words Requiring Definitions

- A. smitch [smitʃ]: to snatch
- B. jube [dʒuˈb]: a glob of something
- C. keeve [kʰiv]: a swinging motion
- D. wam [wam]: something that's wet
- E. easloff ['iːz · lɔf]: something that's high up, like the top floor
- F. kedid ['kʰɛ · rəd]: something that's riveted or studded
- G. mavar ['meː · vaɪ]: an old boat with sails
- H. eyeyu ['aː · juː]: a small bird around parks
- I. narathooze ['næ · ɹə · θuːz]: a category of tall people
- J. phillontave ['fɪ · lən · tʰeɪv]: a videocassette
- K. lulurode ['luː · lə · ɹoʊd]: describes a human-powered mode of transportation
- L. goxiwall ['gak · sə · wɔɪ]: the action of breaking something
- M. cengastumine [sɪn · gæs · tə · maɪn]: a cavern
- N. poncrilader ['pʰɑŋ · kɹə · leɪ · ræ]: a food like popcorn
- O. bowertilldew [ba · wə · tʰɪl · duː]: a boss or leader, like a mayor
- P. chocksaeheble ['tʃak · sə · hi · bəl]: to cook something in a wok
- Q. whoagsafflerick [woʊg · 'zæ · fəl · ɹɪk]: a big, furry, wild, dangerous animal
- R. tobecraydrub [tʰoʊ · bə · 'kreɪ · drəb]: a recliner with a footrest

Definitions Requiring Words

- S. the wad of hair removed when cleaning a hairbrush: OOhuhfish ['uː · gə · fɪʃ]
- T. the grease that accumulates on top of a hot pizza: KAHRduhklast ['kʰɑɹ · rə · klæst]
- U. an unexpected cool breeze on a sultry day: SASSmill ['sæs · mɪl]
- V. the feeling experienced by a death-row inmate after being pardoned or exonerated: EKstuhboyce ['ɛk · stə · bɔɪs]
- W. a feeling of extreme disappointment: hurRAW [hə · 'ɹaʊ]
- X. the feeling of being woken in the middle of the night by a strange noise: slich [slɪtʃ]
- Y. the name of the remotest island on earth: LOWfakul ['loʊ · fæ · kʰʌl]

Images Requiring Words

- Z.  rowBLAHNSH [ɹoʊ · 'blɑŋʃ]
- a.  yee [jiː]
- b.  oat [oʊt]
- c.  zhahnd [ʒɑd]
- d.  resh [ɹɛʃ]
- e.  spree [spɹiː]
- f.  krag [kʰɹæg]
- g.  shurst [ʃəst]

Participant Data Sheet

Participant #: 75

Age: 19

Sex: M

Linguistic Background: native speaker: English; beginning learner: French

Question ID

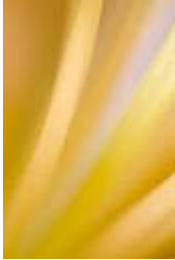
Words Requiring Definitions

- A. smitch [smitʃ]: a limping way of walking
- B. jube [dʒuˈb]: a small ball
- C. keeve [kʰiv]: a type of hearty soup
- D. wam [wam]: a shouting way of speaking
- E. easloff ['iːz · lɔf]: to pray
- F. kedid ['kʰɛ · rəd]: a how-to book
- G. mavar ['meː · vaɪ]: a big, automatic gun
- H. eyeyu ['aː · juː]: a procedure done at the doctor's office, like blood work and scanning
- I. narathooze ['næ · ɹə · θuːz]: a state of being numb
- J. phillontave ['fɪ · lən · tʰeɪv]: reading
- K. lulurode ['luː · lə · ɹoːd]: a small, quaint town
- L. goxiwall ['gak · sə · wɔʃ]: vomiting
- M. cengastumine [sɪn · gæs · tə · maːn]: to think
- N. poncrilader ['pʰɑŋ · kɹə · leː · rə]: to push
- O. bowertilldew [,ba · wə · tʰɪl · duː]: to be angry
- P. chocksaeheble ['tʃak · sə · hi · bəʃ]: to be confused
- Q. whoagsafflerick [woːg · 'zæ · fəʃ · ɹɪk]: a rave
- R. tobecraydrub [tʰoː · bə · 'kreː · dɹəb]: jumping in place

Definitions Requiring Words

- S. the wad of hair removed when cleaning a hairbrush: GAHko ['ga · koː]
- T. the grease that accumulates on top of a hot pizza: KREEtahd ['kʰɹiː · tɑd]
- U. an unexpected cool breeze on a sultry day: AHZfah ['az · fa]
- V. the feeling experienced by a death-row inmate after being pardoned or exonerated: DINTahrn ['dɪn · tam]
- W. a feeling of extreme disappointment: FEEgul ['fiː · gʌ]
- X. the feeling of being woken in the middle of the night by a strange noise: BAHLturd ['baʃ · təːd]
- Y. the name of the remotest island on earth: TEEgo ['tʰiː · goː]

Images Requiring Words

- Z.  REKrahd ['ɹɛk · ɹɑd]
- a.  DIHful ['dɪ · fʌ]
- b.  KWAgul ['kʰwæ · gʌ]
- c.  JAHRgundeen ['dʒɑɪ · gʌŋ · diːn]
- d.  FEEmuhl ['fiː · mʌ]
- e.  BAHRTuhnzeen ['baɪ · tʰən · ziːn]
- f.  kwaht [kʰwat]
- g.  forst [fɔɹst]

Participant Data Sheet

Participant #: 76

Age: 22

Sex: F

Linguistic Background: native speaker: English; beginning learner: French

Question ID

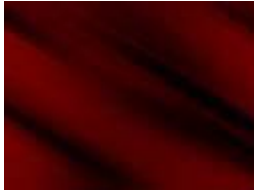
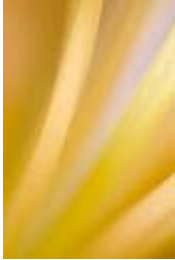
Words Requiring Definitions

- A. smitch [smitʃ]: a bat or racquet
- B. jube [dʒuˈb]: a fast dance move that involves shaking the hips
- C. keeve [kʰiv]: a glass dish for storing cakes
- D. wam [wam]: a word game
- E. easloff ['iːz · lɔf]: to flick water off of a surface
- F. kedid ['kʰɛ · rəd]: mixed up words or thoughts
- G. mavar ['meː · vaɪ]: a veterinary office or a kennel
- H. eyeyu ['aː · juː]: a type of building material
- I. narathooze ['næ · ɹə · θuːz]: a nose medicine
- J. phillontave ['fɪ · lən · tʰeɪv]: a soft, felt-like material
- K. lulurode ['luː · lə · ɹoːd]: a piece of play equipment
- L. goxiwall ['gak · sə · wɔɪ]: something that gets stuck to the bottom of your shoe
- M. cengastumine [sɪn · ɡæs · tə · maːn]: something majestic or royal
- N. poncrilader ['pʰaŋ · kɹə · leː · rə]: a pop dance
- O. bowertilldew [ba · wə · tʰɪl · duː]: an automated vacuum
- P. chocksaeheble ['tʃak · sə · hi · bəɪ]: a thick food with big chunks
- Q. whoagsafflerick [woːg · 'zæ · fəɪ · ɹɪk]: hard, manual labor
- R. tobecraydrub [tʰoː · bə · 'kreɪ · dɹəb]: a dip in the landscape

Definitions Requiring Words

- S. the wad of hair removed when cleaning a hairbrush: shoop [ʃuːp]
- T. the grease that accumulates on top of a hot pizza: slahrɪ [slaɪf]
- U. an unexpected cool breeze on a sultry day: swill [swɪɪ]
- V. the feeling experienced by a death-row inmate after being pardoned or exonerated: YOWlin ['jaː · lɪn]
- W. a feeling of extreme disappointment: KRUMPlin ['kʰɹʌmp · lɪn]
- X. the feeling of being woken in the middle of the night by a strange noise: URGuld ['ə · ɡɹɪd]
- Y. the name of the remotest island on earth: splihnk [splɪŋk]

Images Requiring Words

- Z.  MARsin ['maɪ · sɪn]
- a.  kwahn [kʰwan]
- b.  SPLIHnur ['splɪ · nə]
- c.  PALuhtoe ['pʰæ · lə · toː]
- d.  ESSwall ['ɛs · wɔɪ]
- e.  PAHRkoe ['pʰaɪ · koː]
- f.  KAMlin ['kʰæm · lɪn]
- g.  WOObuhlroop ['wuː · bɔɪ]

Participant Data Sheet

Participant #: 77

Age: 23

Sex: F

Linguistic Background: native speaker: English; beginning learner: Spanish

Question ID

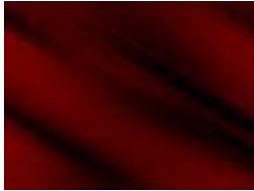
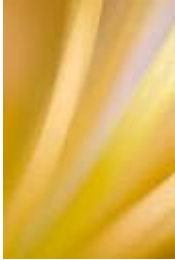
Words Requiring Definitions

- A. smitch [smitʃ]: the little ball of lint in the pocket
- B. jube [dʒuˈb]: a shade of purple seen after the sun sets
- C. keeve [kʰiv]: the little area where you can slide a pen inside the ring of a spiral notebook
- D. wam [wam]: the chair that gum is stuck under
- E. easloff ['iːz · lɒf]: a person who runs around the block with no shoes
- F. kedid ['kʰɛ · rəd]: the scent left after burnt popcorn
- G. mavar ['meː · vaɪ]: a line of hair care products
- H. eyeyu ['aː · juː]: a dirty spot on a blanket
- I. narathooze ['næ · ɹə · θuːz]: homemade nasal spray
- J. phillontave ['fɪ · lən · tʰeɪv]: the glue for tape or a post-it
- K. lulurode ['luː · lə · ɹoːd]: a codename for when you break a window
- L. goxiwall ['gak · sə · wɔɪ]: the act of restoring the heal of a worn-down sandal
- M. cengastumine [sɪn · ɡæs · tə · maːn]: the grooves left in hardwood that comes from heavy furniture
- N. poncrilader ['pʰɑŋ · kɹə · leː · rə]: a large aquatic animal smaller only than the whale
- O. bowertilldew [ba · wə · tʰɪl · duː]: the art of making small wooden animals
- P. chocksaeheble ['tʃak · sə · hi · bəɪ]: the skill of leaping on stones that are far away from one another when crossing a creek
- Q. whoagsafflerick [woːg · ˈzæ · fəɪ · ɹɪk]: the art of having crumbs fall from the mouth to the beard forming little artistic symbols
- R. tobecraydrub [tʰoː · bə · ˈkɹeɪ · dɹəb]: the level ice filters reach when they need to be replaced

Definitions Requiring Words

- S. the wad of hair removed when cleaning a hairbrush: LASpree ['læs · pɹɪ]
- T. the grease that accumulates on top of a hot pizza: SMAHGlin ['sma · glɪn]
- U. an unexpected cool breeze on a sultry day: JAYdumpree ['dʒeɪ · rəp · pɹɪ]
- V. the feeling experienced by a death-row inmate after being pardoned or exonerated: BWINzuhn ['bwin · zəɪ]
- W. a feeling of extreme disappointment: SEEGunthahlurmin ['siː · ɡəp · θa · lə · mɪn]
- X. the feeling of being woken in the middle of the night by a strange noise: mazGOObul [mæz · ˈgu · bəɪ]
- Y. the name of the remotest island on earth: ruhNEZmay [ɹə · ˈnez · meɪ]

Images Requiring Words

- Z.  MYOUZEkik ['mjuːz · kɪk]
- a.  wahDROpuhn [wa · ˈdɹoː · pəɪ]
- b.  KASKuhnne ['kʰæs · kə · naːn]
- c.  BLEFfunkahr ['ble · fəɪ · ləɪ]
- d.  mahmunTEHrus [ma · məp · tʰɛ · ɹəs]
- e.  LIHMitsk ['li · mɪtsk]
- f.  SOPunhaygun ['soː · pəɪ · heː · ɡəɪ]
- g.  murNESS [mə · ˈnes]

Participant Data Sheet

Participant #: 78

Age: 22

Sex: M

Linguistic Background: native speaker: English; advanced learner: Spanish; beginning learner: French, Arabic, Catalan, Portuguese

Question ID

Words Requiring Definitions

- A. smitch [smitʃ]: a car part, like a piston
- B. jube [dʒuˈb]: a brick or a cinderblock
- C. keeve [kʰiv]: a soft seat, like an airplane seat
- D. wam [wam]: reminiscent of eggs
- E. easloff ['iːz · lɔf]: a spill
- F. kedid ['kʰɛ · rəd]: cold
- G. mavar ['meː · vaɪ]: a wing(s)
- H. eyeyu ['aː · juː]: a pinhole
- I. narathooze ['næ · ɹə · θuːz]: therapeutic
- J. phillontave ['fɪ · lən · tʰeɪv]: calm, easy, peaceful
- K. lulurode ['luː · lə · ɹoːd]: twisty
- L. goxiwall ['gək · sə · wɔɪ]: a pinwheel or a windmill
- M. cengastumine [sɪn · ˈgæs · tə · maːn]: something synthetic or false
- N. poncrilader ['pʰɑŋ · kɹə · leː · rə]: a grinder
- O. bowertilldew [ba · wə · tʰɪl · duː]: weird
- P. chocksaeheble ['tʃək · sə · hi · bəɪ]: light (opposite of darkness)
- Q. whoagsafflerick [woːg · ˈzæ · fəɪ · ɹɪk]: fun
- R. tobecraydrub [tʰoː · bə · ˈkɹeɪ · dɹəb]: fat, gigantic

Definitions Requiring Words

- S. the wad of hair removed when cleaning a hairbrush: AHKtlahn [ak · ˈtʃan]
- T. the grease that accumulates on top of a hot pizza: SPANuk ['spæ · nək]
- U. an unexpected cool breeze on a sultry day: VEERYe ['vi · raː]
- V. the feeling experienced by a death-row inmate after being pardoned or exonerated: AHbultah ['a · bʌ · ta]
- W. a feeling of extreme disappointment: panWAIR [pʰæn · ˈweɪ]
- X. the feeling of being woken in the middle of the night by a strange noise: esTINik [ɛs · ˈtɪ · nɪk]
- Y. the name of the remotest island on earth: THINluh ['θɪn · lə]

Images Requiring Words

- Z.  binz [bɪnz]
- a.  sahl [sal]
- b.  hoo [xu]
- c.  SPEEpee ['spiː · piː]
- d.  SOwee ['so · wiː]
- e.  tie [tʰaː]
- f.  ho [ho]
- g.  drahp [dɹap]

Participant Data Sheet

Participant #: 79

Age: 21

Sex: M

Linguistic Background: native speaker: English; beginning learner: French, Spanish

Question ID

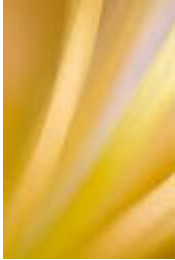
Words Requiring Definitions

- A. smitch [smitʃ]: a briar patch
- B. jube [dʒuˈb]: a jelly-type substance
- C. keeve [kʰiv]: a cutting motion
- D. wam [wam]: to wade through water
- E. easloff ['iːz · lɔf]: pertaining to a castle
- F. kedid ['kʰɛ · rəd]: a fruit gathering action
- G. mavar ['meː · vaɪ]: a social gathering where dancing might occur
- H. eyeyu ['aː · juː]: the color of ice when it gets dirty
- I. narathooze ['næ · ɹə · θuːz]: a thick grained wood
- J. phillontave ['fɪ · lən · tʰeɪv]: a thrusting action in ultimate frisbee or lacrosse
- K. lulurode ['luː · lə · ɹoːd]: a shuffling movement
- L. goxiwall ['gak · sə · wɔɪ]: a traditional way in which beer is consumed
- M. cengastumine [sɪn · gæs · tə · maːn]: a type of valve in submarines
- N. poncrilader ['pʰɑŋ · kɹə · leː · ræ]: a vegetable juicer
- O. bowertilldew [ba · wə · tʰɪl · duː]: a barbed spear
- P. chocksaeheble ['tʃak · sə · hi · bəɪ]: ground corn
- Q. whoagsafflerick [woːg · 'zæ · fəɪ · ɹɪk]: a cleat on a wooden boat
- R. tobecraydrub [tʰoː · bə · 'kreɪ · dɹəb]: two astral bodies colliding

Definitions Requiring Words

- S. the wad of hair removed when cleaning a hairbrush: preets [pʰɹiːts]
- T. the grease that accumulates on top of a hot pizza: goosh [guːʃ]
- U. an unexpected cool breeze on a sultry day: LAHzuhnfeer ['la · zʰə · fiːɹ]
- V. the feeling experienced by a death-row inmate after being pardoned or exonerated: KAPungow ['kʰæ · pʰə · gaːw]
- W. a feeling of extreme disappointment: uhRASthuhnoo [ə · 'ɹæs · θə · nuː]
- X. the feeling of being woken in the middle of the night by a strange noise: JIHgurboun ['dʒɪ · gə · baːn]
- Y. the name of the remotest island on earth: suhRANtheen [sə · 'ɹæn · θiːn]

Images Requiring Words

- Z. 
jurRANtheeum [dʒə · 'ɹæn · θiː · əm]
- a. 
hoZAYuhtheen [hoː · 'zeɪ · ə · θiːn]
- b. 
hoPLYneeus [hoː · 'pʰlaɪ · niː · əs]
- c. 
bringe [brɪndʒ]
- d. 
swahnt [swant]
- e. 
uhRANKnoo [ə · 'ɹeɪŋk · nuː]
- f. 
KYOUtuhlayus ['kʰjuː · rə · leɪ · əs]
- g. 
forst [fɔɪst]

Participant Data Sheet

Participant #: 80

Age: 19

Sex: M

Linguistic Background: native speaker: English; beginning learner: French, Spanish, Russian

Question ID

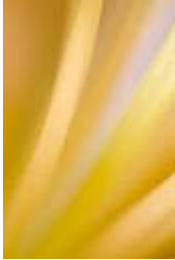
Words Requiring Definitions

- A. smitch [smitʃ]: to gain access to something
- B. jube [dʒuˈb]: an insult to lower class guys
- C. keeve [kʰiv]: a special kind of knife
- D. wam [wam]: a chair that sits very close to the ground
- E. easloff ['iːz · lɔf]: a floor tile
- F. kedid ['kʰɛ · rəd]: a door
- G. mavar ['meː · vaɪ]: a scientific measurement of electricity
- H. eyeyu ['aː · juː]: a friendly greeting
- I. narathooze ['næ · ɹə · θuːz]: descriptive of freezing cold
- J. phillontave ['fɪ · lən · tʰeɪv]: a musical note in terms of pitch
- K. lulurode ['luː · lə · ɹoːd]: a trick involving flips
- L. goxiwall ['gak · sə · wɔɪ]: an engine part
- M. cengastumine [sɪn · ɡæs · tə · maːn]: a window with one large pane
- N. poncrilader ['pʰɑŋ · kɹə · leː · rə]: a tiny bone in the human foot
- O. bowertilldew [,bə · wə · tʰɪl · duː]: a large, hand-operated digging instrument
- P. chocksabeeble ['tʃak · sə · hi · bəɪ]: the part of the chair that supports the arm
- Q. whoagsafflerick [woːg · 'zæ · fəɪ · ɹɪk]: an inky part of the printing press
- R. tobecraydrub [tʰoː · bə · 'kɹeɪ · dɹəb]: a suspended flower pot

Definitions Requiring Words

- S. the wad of hair removed when cleaning a hairbrush: glulch [ɡlʌtʃ]
- T. the grease that accumulates on top of a hot pizza: smairt [smɛɪɹt]
- U. an unexpected cool breeze on a sultry day: ziks [zɪks]
- V. the feeling experienced by a death-row inmate after being pardoned or exonerated: film [fɪɹm]
- W. a feeling of extreme disappointment: zahng [zɑŋ]
- X. the feeling of being woken in the middle of the night by a strange noise: wift [wɪft]
- Y. the name of the remotest island on earth: klant [kʰlænt]

Images Requiring Words

- Z.  laft [læft]
- a.  tihz [tʰɪz]
- b.  sohnt [soːnt]
- c.  MIHtuhr ['mɪ · rə]
- d.  gleer [gliːɹ]
- e.  kahm [kʰam]
- f.  schwahks [ʃwaks]
- g.  RAHluhkul ['ɹə · lə · kʰɪ]

Participant Data Sheet

Participant #: 81

Age: 20

Sex: F

Linguistic Background: native speaker: English; beginning learner: French

Question ID

Words Requiring Definitions

- A. smitch [smitʃ]: soot
- B. jube [dʒuˈb]: glue
- C. keeve [kʰiv]: a basket
- D. wam [wam]: a sack
- E. easloff ['iːz · lɔf]: running
- F. kedid ['kʰɛ · rəd]: a spoon
- G. mavar ['meː · vaɪ]: a box
- H. eyeyu ['aː · juː]: floating
- I. narathooze ['næ · ɹə · θuːz]: driving
- J. phillontave ['fɪ · lən · tʰeɪv]: a cloud
- K. lulurode ['luː · lə · ɹoːd]: a jump rope
- L. goxiwall ['gak · sə · wɔɪ]: to stop
- M. cengastumine [sɪn · 'gæs · tə · maːn]: a shell
- N. poncrilader ['pʰɑŋ · kɹə · leː · rə]: a thermostat
- O. bowertilldew [ba · wə · 'tʰɪl · duː]: a car
- P. chocksaeheble ['tʃak · sə · hi · bəɪ]: to burn
- Q. whoagsafflerick [woːg · 'zæ · fəɪ · ɹɪk]: flat
- R. tobecraydrub [tʰoː · bə · 'kreɪ · dɹəb]: to sink

Definitions Requiring Words

- S. the wad of hair removed when cleaning a hairbrush: looBAspurus [luː · 'bæ · spə · ɹəs]
- T. the grease that accumulates on top of a hot pizza: WAHNtay ['wan · teɪ]
- U. an unexpected cool breeze on a sultry day: SEEtuh ['siː · tə]
- V. the feeling experienced by a death-row inmate after being pardoned or exonerated: WAHNtie ['wan · taɪ]
- W. a feeling of extreme disappointment: MANdee ['mæn · diː]
- X. the feeling of being woken in the middle of the night by a strange noise: SAHRdzahr ['sɑɪ · dʒɑɪ]
- Y. the name of the remotest island on earth: MAHNtie ['man · taɪ]

Images Requiring Words

- Z.  BAHRDsoo ['baɪd · suː]
- a.  SANsee ['sæn · siː]
- b.  TOWNby ['tʰaːn · baɪ]
- c.  mahrTOO [maɪ · 'tʰuː]
- d.  ZEEvee ['ziː · viː]
- e.  RATsof ['ɹæt · saf]
- f.  KAHRtie ['kʰɑɪ · taɪ]
- g.  BAHTHrye ['baθ · ɹaɪ]

Participant Data Sheet

Participant #: 82

Age: 19

Sex: M

Linguistic Background: native speaker: English

Question ID

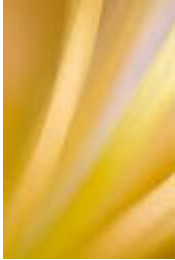
Words Requiring Definitions

- A. smitch [smitʃ]: a mark, maybe on the wall
- B. jube [dʒuˈb]: a nickname for a fat friend
- C. keeve [kʰiv]: a cough or an illness
- D. wam [wam]: deserted area
- E. easloff ['iːz · lɔf]: to stop or relent
- F. kedid ['kʰɛ · rəd]: a long, orange fruit or vegetable, like a banana or a cucumber
- G. mavar ['meː · vaɪ]: a big, vicious, hairy animal
- H. eyeyu ['aː · juː]: a small, saltwater fish
- I. narathooze ['næ · ɹə · θuːz]: a race of tall, hairless people
- J. phillontave ['fɪ · lən · tʰeɪv]: a utensil, like a spatula
- K. lulurode ['luː · lə · ɹoːd]: a female article of clothing, like a long dress
- L. goxiwall ['gak · sə · wɔɪ]: a medicine to help the elderly with their hearts
- M. cengastumine [sɪn · gæs · tə · maːn]: a saw that a surgeon would use
- N. poncrilader ['pʰɑŋ · kɹə · leː · ræ]: an instrument for finding heart murmurs
- O. bowertilldew [,bə · wə · tʰɪl · duː]: an instrument to clean out the intestines
- P. chocksabeeble ['tʃak · sə · hi · bəɪ]: a crushed up grain, maybe red in color
- Q. whoagsafflerick [woːg · 'zæ · fəɪ · ɹɪk]: a large, evil monster
- R. tobecraydrub [tʰoː · bə · 'kreɪ · dɹəb]: a giant mushroom

Definitions Requiring Words

- S. the wad of hair removed when cleaning a hairbrush: SAHruhɪf ['sɑ · ɹəf]
- T. the grease that accumulates on top of a hot pizza: MYOUloof ['mjuː · luːf]
- U. an unexpected cool breeze on a sultry day: kuhLOOuh [kə · 'luː · wə]
- V. the feeling experienced by a death-row inmate after being pardoned or exonerated: ZAfuhɹus ['zæ · fə · əs]
- W. a feeling of extreme disappointment: DIFnahl ['dɪf · nɑɪ]
- X. the feeling of being woken in the middle of the night by a strange noise: reeKRAM [ɹiː · 'kʰɹæm]
- Y. the name of the remotest island on earth: reeSIHfuris [ɹiː · 'sɪ · fə · ɪs]

Images Requiring Words

- Z.  MEENtow ['miːn · taːw]
- a.  tooLIHfuhɹus [tʰuː · 'lɪ · fə · əs]
- b.  gwarduhMEEum [gwaɪ · də · 'miː · əm]
- c.  SKROOPchuhmeerd ['skɹuːp · tʃə · miːɹd]
- d.  skwidTAHroo [skwɪd · tʰɑ · ɹuː]
- e.  toeLIHfum [toː · 'lɪ · fəm]
- f.  klayMAHɹun [kleɪ · 'ma · ɹən]
- g.  stuhLAHFnun [stə · 'laf · nən]

Participant Data Sheet

Participant #: 83

Age: 19

Sex: M

Linguistic Background: native speaker: English

Question ID

Words Requiring Definitions

- A. smitch [smitʃ]: something you write with
- B. jube [dʒuˈb]: a ball
- C. keeve [kʰiv]: a storage place
- D. wam [wam]: to do something fast
- E. easloff ['iːz · lɔf]: a black sports car
- F. kedid ['kʰɛ · rəd]: a spice, like garlic
- G. mavar ['meː · vaɪ]: a type of yellow flower
- H. eyeyu ['aː · juː]: a highly absorbent material
- I. narathooze ['næ · ɹə · θuːz]: an eraser
- J. phillontave ['fɪ · lən · tʰeɪv]: a mechanical pencil
- K. lulurode ['luː · lə · ɹoːd]: a chair
- L. goxiwall ['gak · sə · wɔt]: a green spherical vegetable
- M. cengastumine [sɪn · ˈgæs · tə · maːn]: an artificial poisonous chemical
- N. poncrilader ['pʰɑŋ · kɹə · leː · rə]: a tool, like a hammer
- O. bowertilldew [,ba · wə · tʰɪl · duː]: type of helicopter
- P. chocksabeeble ['tʃak · sə · hi · bət]: a touchscreen desktop computer
- Q. whoagsafflerick [woːg · ˈzæ · fət · ɹɪk]: a fishing boat
- R. tobecraydrub [tʰoː · bə · ˈkreɪ · dɹəb]: a box to store something in

Definitions Requiring Words

- S. the wad of hair removed when cleaning a hairbrush: LEHsuhkul ['lɛ · sə · kʰʉ]
- T. the grease that accumulates on top of a hot pizza: DRIHpɪt ['dɹɪ · pəˈtɪ]
- U. an unexpected cool breeze on a sultry day: bryce [bɹaɪs]
- V. the feeling experienced by a death-row inmate after being pardoned or exonerated: FLUHburbul ['flʌ · bə · bʰʉ]
- W. a feeling of extreme disappointment: ZAPtɔlz ['zæp · tɔtɜ]
- X. the feeling of being woken in the middle of the night by a strange noise: EErite ['iː · ɹaɪt]
- Y. the name of the remotest island on earth: NAVuhl ['næ · vʰʉ]

Images Requiring Words

- Z.  REHzite ['ɹɛ · zəɪtɪ]
- a.  DANduhful ['dæn · də · fʰʉ]
- b.  mipe [maɪp]
- c.  AHBlites ['ab · laɪts]
- d.  KIHpee ['kʰɪ · piɪ]
- e.  DANdurful ['dæn · də · fʰʉ]
- f.  FLAkuhbul ['flæ · kə · bʰʉ]
- g.  kruhSTAYshus [kʰɹə · ˈsteɪ · ʃəs]

Participant Data Sheet

Participant #: 84

Age: 19

Sex: M

Linguistic Background: native speaker: English; beginning learner: French

Question ID

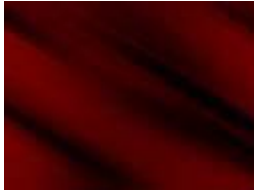
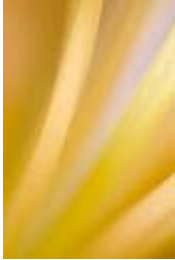
Words Requiring Definitions

- A. smitch [smitʃ]: a short race of people
- B. jube [dʒuˈb]: a goofy person
- C. keeve [kʰiv]: a mound
- D. wam [wam]: an awkward looking plant, almost a root, with pink flowers
- E. easloff ['iːz · lɔf]: to skip fluidly
- F. kedid ['kʰɛ · rəd]: swimming
- G. mavar ['meː · vaɪ]: a large, Viking-like sailboat
- H. eyeyu ['aː · juː]: a greeting
- I. narathooze ['næ · ɹə · θuːz]: a prescription sleeping pill
- J. phillontave ['fɪ · lən · tʰeɪv]: a close relative, like a brother
- K. lulurode ['luː · lə · ɹoːd]: a vacation
- L. goxiwall ['gak · sə · wɔɪ]: a short woodland creature, like a koala
- M. cengastumine [sɪn · ɡæs · tə · maːn]: a bright orange mineral
- N. poncrlader ['pʰɑŋ · kɹə · leː · rə]: a street sweeper
- O. bowertilldew [,ba · wə · tʰɪl · duː]: a turtle-like creature, but more agile and aggressive with longer legs
- P. chocksabeeble ['tʃak · sə · hi · bəɪ]: a story passed down about ancestors
- Q. whoagsafflerick [woːg · 'zæ · fəɪ · ɹɪk]: a ski lift
- R. tobecraydrub [tʰoː · bə · 'kɹeɪ · dɹəb]: to give somebody a kick

Definitions Requiring Words

- S. the wad of hair removed when cleaning a hairbrush: GOOwahb ['guː · wab]
- T. the grease that accumulates on top of a hot pizza: SLOOburis ['sluː · bə · ɹɪs]
- U. an unexpected cool breeze on a sultry day: KLINsurrite ['klɪn · sə · ɹaɪt]
- V. the feeling experienced by a death-row inmate after being pardoned or exonerated: argoFLOOgus [ɑɹ · goː · 'fluː · ɡəs]
- W. a feeling of extreme disappointment: BULLdahl ['bʊɪ · dɑɪ]
- X. the feeling of being woken in the middle of the night by a strange noise: LAHRgish ['laɹ · ɡɪʃ]
- Y. the name of the remotest island on earth: LARZHBahld ['laɹz · bəɪld]

Images Requiring Words

- Z.  SPORGnahsh ['spɔɹg · naɪʃ]
- a.  ahlBYyah [aɪ · 'baɪ · ja]
- b.  WASHburdul ['waɪ · bə · ɹɪʃ]
- c.  SHARKulnart ['ʃɑɹ · kəɪ · naɪt]
- d.  KAHMbulnahsh ['kʰam · bəɪ · naɪʃ]
- e.  DARGnahdul ['daɹg · na · ɹɪʃ]
- f.  ZAHRglay ['zaɹ · gleɪ]
- g.  PAHRtul ['pʰɑɹ · ɹɪʃ]

Participant Data Sheet

Participant #: 85

Age: 19

Sex: M

Linguistic Background: native speaker: English; beginning learner: Spanish

Question ID

Words Requiring Definitions

- A. smitch [smitʃ]: something subtracted from something else
- B. jube [dʒuˈb]: a general spherical object
- C. keeve [kʰiv]: to change
- D. wam [wam]: to strike
- E. easloff ['iːz · lɔf]: a charismatic way of acting
- F. kedid ['kʰɛ · rəd]: taken aback
- G. mavar ['meː · vaɪ]: absent minded
- H. eyeyu ['aː · juː]: a small percussion instrument
- I. narathooze ['næ · ɹə · θuːz]: ignorant
- J. phillontave ['fɪ · lən · tʰeɪv]: abstractly
- K. lulurode ['luː · lə · ɹoːd]: laid back
- L. goxiwall ['gak · sə · wɔɪ]: insane
- M. cengastumine [sɪn · ˈgæs · tə · maɪn]: euphoric effect
- N. poncrilader ['pʰɑŋ · kɹə · leː · ræ]: something to cause absentmindedness
- O. bowertilldew [bə · wæ · tʰɪl · duː]: a garden tool, like an aerator
- P. chocksaeheble ['tʃak · sə · hi · bæ]: many
- Q. whoagsafflerick [woːg · ˈzæ · fəɪ · ɹɪk]: magic
- R. tobecraydrub [tʰoː · bæ · ˈkɹeɪ · dɹəb]: a fictitious animal that is large, nocturnal, and winged

Definitions Requiring Words

- S. the wad of hair removed when cleaning a hairbrush: GREHluhsyou ['gɹɛ · lə · skjuː]
- T. the grease that accumulates on top of a hot pizza: SKUDyoulye ['skʌ · dʒuː · laɪ]
- U. an unexpected cool breeze on a sultry day: WOOzhuhree ['wuː · ʒə · ɹi]
- V. the feeling experienced by a death-row inmate after being pardoned or exonerated: WOOflee ['wuː · fliː]
- W. a feeling of extreme disappointment: SAYgruhs ['seɪ · ɡɹəs]
- X. the feeling of being woken in the middle of the night by a strange noise: FRITul ['fɹɪ · tʰɪ]
- Y. the name of the remotest island on earth: SUKyoulow ['sʌ · kjuː · loː]

Images Requiring Words



Z. KRIHsuhnit ['kʰɪɪ · sə · nit]



a. RAHlow ['ɹə · loː]



b. SWURmul ['swə · mʌ]



c. uhMETruhkuh [ə · ˈmɛ · tɹə · kə]



d. SKRIMyuhlus ['skɹɪm · jə · ləs]



e. TUHguhluhge ['tʰʌ · ɡə · ləɔɔ]



f. smoROO [smɔ · ˈɹuː]



g. WINdruhluh ['wɪn · dɹə · ləs]

Participant Data Sheet

Participant #: 86

Age: 20

Sex: M

Linguistic Background: native speaker: English

Question ID

Words Requiring Definitions

- A. smitch [smitʃ]: a studious person
- B. jube [dʒuˈb]: a new person on campus
- C. keeve [kʰiv]: the guy who takes out the trash
- D. wam [wam]: to fly
- E. easloff ['iːz · lɔf]: a slacker
- F. kedid ['kʰɛ · rəd]: an aggressive person
- G. mavar ['meː · vaɪ]: a car salesman
- H. eyeyu ['aː · juː]: an independent person
- I. narathooze ['næ · ɹə · θuːz]: a person who isn't very smart
- J. phillontave ['fɪ · lən · tʰeɪv]: a fat guy
- K. lulurode ['luː · lə · ɹoːd]: a speed bump
- L. goxiwall ['gak · sə · wɔɪ]: to drive a car
- M. cengastumine [sɪn · ɡæs · tə · maɪn]: to eat very fast
- N. poncilader ['pʰɑŋ · kɪə · leː · ræ]: a copy machine
- O. bowertilldew [bə · wæ · tʰɪl · duː]: somebody that lays carpet
- P. chocksaeheble ['tʃak · sə · hi · bæ]: a stump grinder
- Q. whoagsafflerick [woːg · ˈzæ · fəɪ · ɹɪk]: a flight attendant
- R. tobecraydrub [tʰoː · bæ · ˈkɪeɪ · dɹəb]: a medium sized, seasonal tree

Definitions Requiring Words

- S. the wad of hair removed when cleaning a hairbrush: VAHNdurleeng ['van · dæ · lɪŋ]
- T. the grease that accumulates on top of a hot pizza: oo weeKOOKshlow [uː · wiː · ˈkʰuːk · ʃloː]
- U. an unexpected cool breeze on a sultry day: WIHnuhlong ['wi · nə · lɔŋ]
- V. the feeling experienced by a death-row inmate after being pardoned or exonerated: WOWkuhnfur ['waː · kəŋ · fæ]
- W. a feeling of extreme disappointment: WOOkuhree ['wuː · kə · ɹiː]
- X. the feeling of being woken in the middle of the night by a strange noise: TAIRshureeng ['tʰɛɪ · ʃə · ɹɪŋ]
- Y. the name of the remotest island on earth: wong [wɔŋ]

Images Requiring Words

- Z.  ROWfuhree ['ɹoː · fə · ɹiː]
- a.  TWILEfurvur ['twaɪ · fə · vʌ]
- b.  SWINzee ['swɪn · ziː]
- c.  SATuhtize ['sæ · rə · taɪz]
- d.  HYponis ['haɪ · poː · nɪs]
- e.  PLEKstul ['plek · stʌ]
- f.  STABvurnis ['stæb · vʌ · nɪs]
- g.  HOLunzee ['hoː · ləŋ · ziː]

Participant Data Sheet

Participant #: 87

Age: 20

Sex: M

Linguistic Background: native speaker: English; beginning learner: French

Question ID

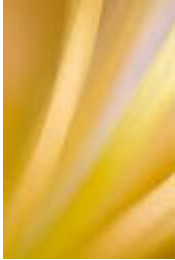
Words Requiring Definitions

- A. smitch [smitʃ]: digging holes
- B. jube [dʒuˈb]: a shopping cart
- C. keeve [kʰiv]: to steal
- D. wam [wam]: to bounce
- E. easloff ['iːz · lɔf]: to rent, maybe a movie
- F. kedid ['kʰɛ · rəd]: to catch
- G. mavar ['meː · vaɪ]: a type of tree, like a walnut
- H. eyeyu ['aː · juː]: a car part, maybe a hose
- I. narathooze ['næ · ɹə · θuːz]: confusion
- J. phillontave ['fi · lən · tʰeɪv]: a type of glue
- K. lulurode ['luː · lə · ɹoːd]: to run around
- L. goxiwall ['gak · sə · wɔɪ]: a type of caulk
- M. cengastumine [sɪn · ɡæs · tə · maːn]: radioactive chemical
- N. poncrilader ['pʰɑŋ · kɹə · leː · rə]: an elevator part, maybe a gear
- O. bowertilldew [bə · wə · tʰɪl · duː]: handicapped rail
- P. chocksaeheble ['tʃak · sə · hi · bəl]: an ingredient in concrete
- Q. whoagsafflerick [woːg · 'zæ · fəl · ɹɪk]: a side effect from a drug
- R. tobecraydrub [tʰoː · bə · 'kreɪ · dɹəb]: a tool for spraying on fiberglass, like on a boat

Definitions Requiring Words

- S. the wad of hair removed when cleaning a hairbrush: suhPURruh [sə · 'pʰə · ɹə]
- T. the grease that accumulates on top of a hot pizza: KAHluhfeen ['kʰa · lə · fiːn]
- U. an unexpected cool breeze on a sultry day: teeTAIRuh [tʰɪ · tʰɛ · ɹə]
- V. the feeling experienced by a death-row inmate after being pardoned or exonerated: fruhTAMPuhlite [fɹə · tʰæm · pə · laɪt]
- W. a feeling of extreme disappointment: kuhKAHnuhruh [kə · 'kʰa · nə · ɹə]
- X. the feeling of being woken in the middle of the night by a strange noise: sisKAHreeuh [sɪ · 'ska · ɹɪ · ə]
- Y. the name of the remotest island on earth: owbuhNOOmuh [aː · bə · 'nuː · mə]

Images Requiring Words

- Z.  Z.  a.  b.  c.
muhKAHNdruh [mə · 'kʰan · dɹə] BRIHtuhnuh ['bɹɪ · tə · nə] hahmuhNEEyuh [hə · mə · 'niː · ə] ZIHburit ['zi · bə · ɹɪt]
- d.  d.  e.  f.  g.
huhRIHFnuh [hə · 'ɹɪf · nə] fowEHtruhkuh [foː · 'ɛ · tɹə · kə] jooSTEEfuh [dʒuː · 'stiː · fə] mahnuhKALuh [mə · nə · 'kʰæ · lə]

Participant Data Sheet

Participant #: 88

Age: 29

Sex: F

Linguistic Background: native speaker: English; fluent speaker: German; beginning learner: French

Question ID

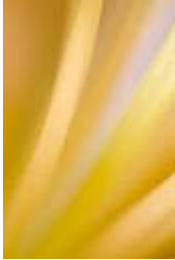
Words Requiring Definitions

- A. smitch [smitʃ]: the skin of a broken branch
- B. jube [dʒuˈb]: toe jam
- C. keeve [kʰiv]: a pinkish beige color
- D. wam [wam]: muddy black ice
- E. easloff ['iːz · lɔf]: a suicidal person
- F. kedid ['kʰɛ · rəd]: to talk fast
- G. mavar ['meː · vaɪ]: a flavor of ice cream: chocolate, toffee and coffee
- H. eyeyu ['aː · juː]: a rotten smell in the fridge
- I. narathooze ['næ · ɹə · θuːz]: a dangerous switchback on a cliff
- J. phillontave ['fɪ · lən · tʰeɪv]: a decorating style that is economical shabby-chic
- K. lulurode ['luː · lə · ɹoːd]: to go off on a tangent when speaking
- L. goxiwall ['gak · sə · wɔɪ]: a person who stares a lot
- M. cengastumine [sɪn · ɡæs · tə · maːn]: a smooth water rock
- N. poncrlader ['pʰɑŋ · kɹə · leː · rə]: a person who decorates animal cakes
- O. bowertilldew [ba · wə · tʰɪɪ · duː]: a backyard party with a maypole
- P. chocksabeeble ['tʃak · sə · hi · bəɪ]: a relay game you play running from pole to pole
- Q. whoagsafflerick [woːg · 'zæ · fəɪ · ɹɪk]: describing an overdressed man
- R. tobecraydrub [tʰoː · bə · 'kreː · dɹəb]: yellow soap scum

Definitions Requiring Words

- S. the wad of hair removed when cleaning a hairbrush: OLMish ['ɔɪ · mɪʃ]
- T. the grease that accumulates on top of a hot pizza: SAHpId ['s:a · pɪd]
- U. an unexpected cool breeze on a sultry day: FEHpul ['fɛ · pʰ]
- V. the feeling experienced by a death-row inmate after being pardoned or exonerated: juhPIHruhmint [dʒə · 'pʰɪ · ɹə · mɪnt]
- W. a feeling of extreme disappointment: SAHNduhr ['sæn · də]
- X. the feeling of being woken in the middle of the night by a strange noise: Akul ['æ · kʰ]
- Y. the name of the remotest island on earth: ooWAYyou [uː · 'weː · juː]

Images Requiring Words

- Z.  FLAYyur ['fleː · jə]
- a.  JELbroom ['dʒɛɪ · bɹuːm]
- b.  PEEsum ['pʰiː · səm]
- c.  MISHmish ['mɪʃ · mɪʃ]
- d.  LURlee ['lʌ · li]
- e.  BOONGkoo ['buːŋ · kuː]
- f.  AYlay ['eː · leː]
- g.  ahkseeFLAHKsee [ak · siː · 'flak · siː]

Participant Data Sheet

Participant #: 89

Age: 19

Sex: M

Linguistic Background: native speaker: English; beginning learner: German

Question ID

Words Requiring Definitions

- A. smitch [smitʃ]: a stain
- B. jube [dʒuˈb]: a fruit, like an orange
- C. keeve [kʰiv]: a straight line
- D. wam [wam]: a wild animal, like a mountain lion
- E. easloff ['iːz · lɔf]: grotesque
- F. kedid ['kʰɛ · rəd]: to be able
- G. mavar ['meː · vaɪ]: stormy weather
- H. eyeyu ['aː · juː]: an ending
- I. narathooze ['næ · ɹə · θuːz]: brilliant
- J. phillontave ['fɪ · lən · tʰeɪv]: a rhyme
- K. lulurode ['luː · lə · ɹoːd]: colorful
- L. goxiwall ['gak · sə · wɔɪ]: tactile or hands on
- M. cengastumine [sɪn · ˈgæs · tə · maɪn]: an experiment
- N. poncrilader ['pʰɑŋ · kɹə · leɪ · ræ]: a genre
- O. bowertilldew [ba · wə · tʰɪl · duː]: to clean
- P. chocksaeheble ['tʃak · sə · hi · bəɪ]: a type of artificial lighting
- Q. whoagsafflerick [woːg · ˈzæ · fəɪ · ɹɪk]: a snack
- R. tobecraydrub [tʰoː · bə · ˈkreɪ · dɹəb]: medicine, like antibiotics

Definitions Requiring Words

- S. the wad of hair removed when cleaning a hairbrush: dreb [dɹɛb]
- T. the grease that accumulates on top of a hot pizza: SILfuhr ['sɪl · fəɪ]
- U. an unexpected cool breeze on a sultry day: reese [ɹiːs]
- V. the feeling experienced by a death-row inmate after being pardoned or exonerated: tooBAStuhk [tuː · ˈbæ · stək]
- W. a feeling of extreme disappointment: DRIHbul ['dɹɪ · bʊɪ]
- X. the feeling of being woken in the middle of the night by a strange noise: LAMPur ['læm · pəɪ]
- Y. the name of the remotest island on earth: EEkwee ['iː · kwiː]

Images Requiring Words

- Z.  TALKun ['tʰæɪ · kəŋ]
- a.  muhLAY [mə · ˈleɪ]
- b.  ahVAIR [a · ˈveɪɹ]
- c.  TEEful ['tʰiː · fəɪ]
- d.  ROObul ['ɹuː · bʊɪ]
- e.  ahPEE [a · ˈpʰiː]
- f.  PRAHjint ['pʰɹə · dʒɪnt]
- g.  rayBYOUNE [ɹeɪ · ˈbjuːn]

Participant Data Sheet

Participant #: 90

Age: 21

Sex: M

Linguistic Background: native speaker: English; beginning learner: Spanish, German

Question ID

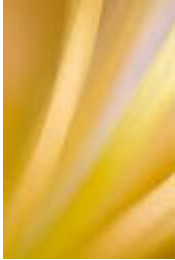
Words Requiring Definitions

- A. smitch [smitʃ]: bitter tasting
- B. jube [dʒuˈb]: a gelatinous substance
- C. keeve [kʰiv]: a large, jagged, free-standing rock
- D. wam [wam]: a type of candy, chewy and sweet
- E. easloff ['iːz · lɔf]: a type bird with a long tail which is brightly colored
- F. kedid ['kʰɛ · rəd]: to become angry with someone
- G. mavar ['meː · vaɪ]: a color between light blue and lavender
- H. eyeyu ['aː · juː]: to look at someone puzzled
- I. narathooze ['næ · ɹə · θuːz]: somebody who doubts others
- J. phillontave ['fɪ · lən · tʰeɪv]: to preach at someone
- K. lulurode ['luː · lə · ɹoːd]: to evade a question
- L. goxiwall ['gak · sə · wɔɪ]: to hit somebody with a bat
- M. cengastumine [sɪn · ɡæs · tə · maːn]: a parasitic insect that sucks blood
- N. poncrilader ['pʰɑŋ · kɹə · leː · rə]: a new type of fuel pump for a car
- O. bowertilldew [ba · wə · tʰɪl · duː]: a type of fungus
- P. chocksabeeble ['tʃak · sə · hi · bəɪ]: an animal that lives in a rocky desert
- Q. whoagsafflerick [woːg · ˈzæ · fəɪ · ɹɪk]: a blanket used by people in cold places
- R. tobecraydrub [tʰoː · bə · ˈkɹeɪ · dɹəb]: a type of doily made of leaves and straw

Definitions Requiring Words

- S. the wad of hair removed when cleaning a hairbrush: GRASib ['ɡɹæ · sɪb]
- T. the grease that accumulates on top of a hot pizza: KISSmur ['kʰɪs · mə]
- U. an unexpected cool breeze on a sultry day: KILLisp ['kʰɪ · lɪsp]
- V. the feeling experienced by a death-row inmate after being pardoned or exonerated: KRISmuh ['kʰɪs · mə]
- W. a feeling of extreme disappointment: DOWgur ['daː · ɡə]
- X. the feeling of being woken in the middle of the night by a strange noise: zuhLAST [zə · ˈlæst]
- Y. the name of the remotest island on earth: kenTAHwur [kɛn · tʰa · wə]

Images Requiring Words

- Z.  MAHNtihg ['man · tɪg]
- a.  klehDAIR [kle · ˈdæɪɹ]
- b.  TROObur ['tʰɹuː · bə]
- c.  DIGnahr ['dɪg · naɪ]
- d.  GASnuh ['gæs · nə]
- e.  SUMpahɹ ['sʌm · pʰaɪ]
- f.  fooLANT [fuː · ˈlænt]
- g.  KOONtahl ['kʰuːn · taɪ]

Participant Data Sheet

Participant #: 91

Age: 19

Sex: M

Linguistic Background: native speaker: English; beginning learner: French, German

Question ID

Words Requiring Definitions

- A. smitch [smitʃ]: a mean person
- B. jube [dʒuˈb]: to dodge
- C. keeve [kʰiv]: to cut
- D. wam [wam]: a large, black dog
- E. easloff ['iːz · lɔf]: a cathedral-type church
- F. kedid ['kʰɛ · rəd]: honest
- G. mavar ['meː · vaɪ]: to think
- H. eyeyu ['aː · juː]: a road
- I. narathooze ['næ · ɹə · θuːz]: a good wizard
- J. phillontave ['fɪ · lən · tʰeɪv]: a battle
- K. lulurode ['luː · lə · ɹoːd]: a crazy person, like a schizophrenic
- L. goxiwall ['gak · sə · wɔɪ]: a bird, like a gull
- M. cengastumine [sɪn · ɡæs · tə · maːn]: an ore, something that would be mined
- N. poncrilader ['pʰɑŋ · kɹə · leː · ræ]: a police detective
- O. bowertilldew [,ba · wə · tʰɪl · duː]: a medieval castle
- P. chocksaeheble ['tʃak · sə · hi · bəl]: a board game involving chance
- Q. whoagsafflerick [woːg · 'zæ · fəl · ɹɪk]: ridiculous
- R. tobecraydrub [tʰoː · bə · 'kreɪ · dɹəb]: a shape with even sides, not circular

Definitions Requiring Words

- S. the wad of hair removed when cleaning a hairbrush: GLUHblin ['glʌ · blɪn]
- T. the grease that accumulates on top of a hot pizza: linse [lɪns]
- U. an unexpected cool breeze on a sultry day: LOOtun ['luː · tʰɪn]
- V. the feeling experienced by a death-row inmate after being pardoned or exonerated: LIMfis ['lɪm · fɪs]
- W. a feeling of extreme disappointment: uhKRIMshuh [ə · 'kʰɪm · ʃə]
- X. the feeling of being woken in the middle of the night by a strange noise: fuRUND [fə · 'ɹʌnd]
- Y. the name of the remotest island on earth: RAHNduhlun ['ɹæn · dʰə · lʰɪn]

Images Requiring Words

- Z.  fuhLINCH [fə · 'lɪntʃ]
- a.  sahlDERuh [səɫ · 'deɪ · ɹə]
- b.  KOOfin ['kʰuː · fɪn]
- c.  nehRITuk [nɛ · 'ɹɪ · rək]
- d.  KLAHLmuhlin ['kʰlɔɫ · mə · lɪn]
- e.  nuhDAKsik [nə · 'dæk · sɪk]
- f.  STOOfunurz ['stuː · fə · nəz]
- g.  GAHnuril ['ga · nə · ɹɪ]

Participant Data Sheet

Participant #: 92

Age: 19

Sex: M

Linguistic Background: native speaker: English; beginning learner: Spanish, German

Question ID

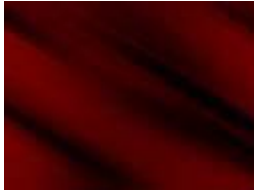
Words Requiring Definitions

- A. smitch [smitʃ]: a smudge
- B. jube [dʒuˈb]: excitement
- C. keeve [kʰiv]: a necessity
- D. wam [wam]: to wonder or worry
- E. easloff ['iːz · lɔf]: to calm down
- F. kedid ['kʰɛ · rəd]: flawed
- G. mavar ['meː · vaɪ]: angry
- H. eyeyu ['aː · juː]: a greeting
- I. narathooze ['næ · ɹə · θuːz]: to reassure
- J. phillontave ['fɪ · lən · tʰeɪv]: to take in, assimilate
- K. lulurode ['luː · lə · ɹoːd]: joyful
- L. goxiwall ['gak · sə · wɔɪ]: scared, anxious
- M. cengastumine [sɪn · ɡæs · tə · maːn]: an epiphany
- N. poncrilader ['pʰɑŋ · kɹə · leː · rə]: to hit somebody
- O. bowertilldew [ba · wə · tʰɪl · duː]: surprised
- P. chocksaeheble ['tʃak · sə · hi · bəɪ]: to lift up or carry
- Q. whoagsafflerick [woːg · ˈzæ · fəɪ · ɹɪk]: to ponder
- R. tobecraydrub [tʰoː · bə · ˈkɹeɪ · dɹəb]: to think

Definitions Requiring Words

- S. the wad of hair removed when cleaning a hairbrush: EEwatch ['iː · watʃ]
- T. the grease that accumulates on top of a hot pizza: HAYrah ['heː · ɹɑx]
- U. an unexpected cool breeze on a sultry day: CHEEow ['tʃiː · ə]
- V. the feeling experienced by a death-row inmate after being pardoned or exonerated: eeKAH [iː · ˈkʰɑː]
- W. a feeling of extreme disappointment: sohm [soːm]
- X. the feeling of being woken in the middle of the night by a strange noise: rouk [ɹəːk]
- Y. the name of the remotest island on earth: uhLOUum [ə · ˈlaː · ʊm]

Images Requiring Words

- Z.  deeROUK [diː · ˈɹəːk]
- a.  RYbur ['ɹəː · bə]
- b.  vuhRAHM [və · ˈɹɑm]
- c.  KRAYshahn ['kʰɹeɪ · ʃɑn]
- d.  KEErow ['kʰeɪ · ɹə]
- e.  CHEEKahks ['tʃiː · kaks]
- f.  WEElunce ['wiː · lʊns]
- g.  olpth [ɔɪpθ]

Participant Data Sheet

Participant #: 93

Age: 19

Sex: M

Linguistic Background: native speaker: English; beginning learner: German

Question ID

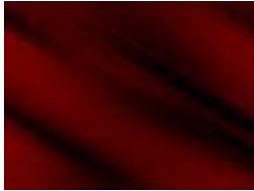
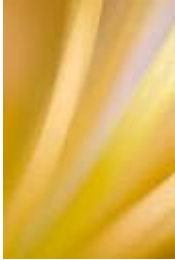
Words Requiring Definitions

- A. smitch [smitʃ]: an accomplice
- B. jube [dʒuˈb]: a sphere
- C. keeve [kʰiv]: to sink
- D. wam [wam]: to hit
- E. easloff ['iːz · lɔf]: a nice person
- F. kedid ['kʰɛ · rəd]: something that repeats
- G. mavar ['meː · vaɪ]: chaos
- H. eyeyu ['aː · juː]: something that's creepy
- I. narathooze ['næ · ɹə · θuːz]: a siphon
- J. phillontave ['fɪ · lən · tʰeɪv]: a traitor
- K. lulurode ['luː · lə · ɹoːd]: whimsical
- L. goxiwall ['gak · sə · wɔɪ]: thick
- M. cengastumine [sɪn · gæs · tə · maɪn]: potent
- N. poncrilader ['pʰɑŋ · kɹə · leː · ræ]: attentive
- O. bowertilldew [ba · wæ · tʰɪl · duː]: decisive
- P. chocksaeheble ['tʃak · sə · hi · bəl]: something funny
- Q. whoagsafflerick [woːg · 'zæ · fəl · ɹɪk]: something that causes pain
- R. tobecraydrub [tʰoː · bə · 'kreɪ · dɹəb]: large rocks, like mountains

Definitions Requiring Words

- S. the wad of hair removed when cleaning a hairbrush: egZEStunce [ɛg · 'zɛ · stʰɪs]
- T. the grease that accumulates on top of a hot pizza: juhLEHstuhfee [dʒə · 'lɛs · tə · fi]
- U. an unexpected cool breeze on a sultry day: KAHluhpree ['kʰa · lə · pʰɪɪ]
- V. the feeling experienced by a death-row inmate after being pardoned or exonerated: panGORik [pʰæn · 'gɔ · ɹɪk]
- W. a feeling of extreme disappointment: ahDALfee [a · 'dæɪ · fi]
- X. the feeling of being woken in the middle of the night by a strange noise: jesTINKshun [dʒɛ · 'stɪŋk · ʃəŋ]
- Y. the name of the remotest island on earth: kwinZASTik [kʰwɪn · 'zæ · stɪk]

Images Requiring Words

- Z.  pehlz [pʰɛɪz]
- a.  glehSINT [glɛ · 'sɪnt]
- b.  duhBAHNtuhree [də · 'ban · tə · ɹɪ]
- c.  dak [dæk]
- d.  swelp [swɛɪp]
- e.  DOElahkt [doː · lakt]
- f.  jez [dʒɛz]
- g.  TWINdul ['tʰwɪn · dʰ]

Participant Data Sheet

Participant #: 94

Age: 20

Sex: M

Linguistic Background: native speaker: English; beginning learner: German

Question ID

Words Requiring Definitions

- A. smitch [smitʃ]: to mark on the wall
- B. jube [dʒuˈb]: a soup bowl
- C. keeve [kʰiv]: to pry somebody for help they shouldn't be giving you
- D. wam [wam]: when you hit two pens together really loud
- E. easloff ['iːz · lɔf]: to cut somebody off when driving by accident
- F. kedid ['kʰɛ · rəd]: to be shy around your parents but outgoing around everyone else
- G. mavar ['meː · vaɪ]: a single blade razor
- H. eyeyu ['aː · juː]: a small bird, like a sparrow
- I. narathooze ['næ · ɹə · θuːz]: a product for the nose or sinuses
- J. phillontave ['fɪ · lən · tʰeɪv]: to do something you didn't mean to do and you realize it later
- K. lulurode ['luː · lə · ɹoːd]: the handle on top of a pan
- L. goxiwall ['gak · sə · wɔɪ]: pure mayhem
- M. cengastumine [sɪn · ɡæs · tə · maɪn]: when you don't believe somebody because they are a liar
- N. poncrlader ['pʰɑŋ · kɹə · leɪ · rə]: a car part, like an oil filter
- O. bowertilldew [,ba · wə · tʰɪl · duː]: to push the snooze button on the alarm
- P. chocksaeheble ['tʃak · sə · hi · bəɪ]: nonsense
- Q. whoagsafflerick [woːg · 'zæ · fəɪ · ɹɪk]: something crazy
- R. tobecraydrub [tʰoː · bə · 'kreɪ · dɹəb]: a feeling of frustration

Definitions Requiring Words

- S. the wad of hair removed when cleaning a hairbrush: ekSPARshun [ɛk · 'spɑɪ · ʃən]
- T. the grease that accumulates on top of a hot pizza: SANYuwus ['sæn · juː · əs]
- U. an unexpected cool breeze on a sultry day: WHYneeng ['waɪ · nɪŋ]
- V. the feeling experienced by a death-row inmate after being pardoned or exonerated: eksFLESHtun [ɛks · 'fleɪ · tən]
- W. a feeling of extreme disappointment: RAGmuhlayduh ['ɹæg · mə · leɪ · rə]
- X. the feeling of being woken in the middle of the night by a strange noise: BAHNshoof ['ban · ʃuːf]
- Y. the name of the remotest island on earth: PEEswahf ['pʰiː · swaf]

Images Requiring Words

- Z.  VEENaht ['viː · natʰ]
- a.  SYkahn ['saɪ · kan]
- b.  WINshahn ['wɪn · ʃan]
- c.  RAHDshin ['ɹad · ʃɪn]
- d.  GRENaht ['gɹɪ · natʰ]
- e.  KOHWuht ['kʰoː · wəɪtʰ]
- f.  EENohz ['iː · noːz]
- g.  EYEBee ['aɪ · biː]

Participant Data Sheet

Participant #: 95

Age: 20

Sex: M

Linguistic Background: native speaker: English; beginning learner: French, German

Question ID

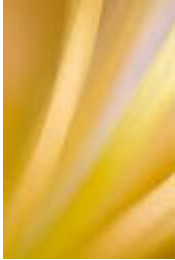
Words Requiring Definitions

- A. smitch [smitʃ]: to cut off (lose) a toenail while stumping it
- B. jube [dʒuˈb]: to fall going up the stairs
- C. keeve [kʰiv]: to throw a hacky sack
- D. wam [wam]: to complain
- E. easloff ['iːz · lɔf]: to perish
- F. kedid ['kʰɛ · rəd]: to declaw a cat
- G. mavar ['meː · vaɪ]: the first voyage on a new aircraft
- H. eyeyu ['aː · juː]: to see an old friend
- I. narathooze ['næ · ɹə · θuːz]: to drive off a cliff
- J. phillontave ['fɪ · lən · tʰeɪv]: to put your shoes on without tying them
- K. lulurode ['luː · lə · ɹoːd]: when you drop a book
- L. goxiwall ['gak · sə · wɔɪ]: to forget your name
- M. cengastumine [sɪn · ˈgæs · tə · maɪn]: to receive a donation
- N. poncrilader ['pʰɑŋ · kɹə · leɪ · rə]: to think about a test you took earlier
- O. bowertilldew [ba · wə · tʰɪl · duː]: to waste time
- P. chocksaeheble ['tʃak · sə · hi · bəl]: to make a cake
- Q. whoagsafflerick [woːg · ˈzæ · fəl · ɹɪk]: to watch a movie
- R. tobecraydrub [tʰoː · bə · ˈkreɪ · dɹəb]: to break a chair

Definitions Requiring Words

- S. the wad of hair removed when cleaning a hairbrush: beeARvee [biː · ˈɑɪ · viː]
- T. the grease that accumulates on top of a hot pizza: GAHfoo [ˈgɑ · fuː]
- U. an unexpected cool breeze on a sultry day: murDEEnuh [mə · ˈdiː · nə]
- V. the feeling experienced by a death-row inmate after being pardoned or exonerated: HARnuhgoo [ˈhɑɪ · nə · guː]
- W. a feeling of extreme disappointment: FONGkway [ˈfɔŋ · kweɪ]
- X. the feeling of being woken in the middle of the night by a strange noise: kuhnDERnoo [kən · ˈdeɪ · nuː]
- Y. the name of the remotest island on earth: kahndagway [kʰɑn · dæ · gweɪ]

Images Requiring Words

- Z.  SWINdoo [ˈswɪn · duː]
- a.  SWAHRnuhkahm [ˈswɑɪ · nə · kɑm]
- b.  inFAIRDus [ɪn · ˈfæɪ · rəs]
- c.  FAHRdahn [ˈfɑɪ · rɑn]
- d.  BAHluhkay [ˈba · lə · keɪ]
- e.  RYnuhkin [ˈɹɑɪ · nə · kɪn]
- f.  STAHnut [ˈsta · nət]
- g.  hyROOD [haɪ · ˈɹuːd]

Participant Data Sheet

Participant #: 96

Age: 20

Sex: M

Linguistic Background: native speaker: English; beginning learner: French, Spanish

Question ID

Words Requiring Definitions

- A. smitch [smitʃ]: somebody who makes art
- B. jube [dʒuˈb]: a spherical shape
- C. keeve [kʰiv]: to make something out of wood
- D. wam [wam]: to hit something hard
- E. easloff ['iːz · lɔf]: a ladder
- F. kedid ['kʰɛ · rəd]: something notched
- G. mavar ['meː · vaɪ]: to joke with your students
- H. eyeyu ['aː · juː]: glasses
- I. narathooze ['næ · ɹə · θuːz]: a type of medicine for arthritis
- J. phillontave ['fɪ · lən · tʰeɪv]: a machine used to cut
- K. lulurode ['luː · lə · ɹoːd]: a game with a ball
- L. goxiwall ['gak · sə · wɔɪ]: a putty to form molds for repairs
- M. cengastumine [sɪn · ɡæs · tə · maːn]: a type of chalky rock
- N. poncrilader ['pʰɑŋ · kɹə · leː · rə]: a machine that moves heavy objects
- O. bowertilldew [,bə · wə · tʰɪl · duː]: something used to cut grass
- P. chocksaeheble ['tʃak · sə · hi · bəɪ]: a fence
- Q. whoagsafflerick [woːg · 'zæ · fəɪ · ɹɪk]: a type of canoe
- R. tobecraydrub [tʰoː · bə · 'kreɪ · dɹəb]: a strong rope

Definitions Requiring Words

- S. the wad of hair removed when cleaning a hairbrush: hahtahBOO [ha · ta · 'buː]
- T. the grease that accumulates on top of a hot pizza: SUHLkuhn ['sʌ · kəŋ]
- U. an unexpected cool breeze on a sultry day: kuhTAHmoosh [kə · tʰa · muː]
- V. the feeling experienced by a death-row inmate after being pardoned or exonerated: flaBOO [flæ · 'buː]
- W. a feeling of extreme disappointment: OOmus ['uː · məs]
- X. the feeling of being woken in the middle of the night by a strange noise: TAtold ['tʰæ · tɔɪd]
- Y. the name of the remotest island on earth: MOfaht ['moː · fət]

Images Requiring Words

- Z.  swahnSOHN [swan · 'soːn]
- a.  floRAYD [flɔ · 'reɪd]
- b.  blahSAYD [bla · 'seɪd]
- c.  muhKHAD [mə · 'kʰad]
- d.  wuhSHELL [wə · 'ʃɛɪ]
- e.  taKODE [tæ · 'kʰoːd]
- f.  SPAHNshool ['span · ʃuː]
- g.  ruhTOmik [ɹə · tʰoː · mɪk]

Participant Data Sheet

Participant #: 97

Age: 47

Sex: M

Linguistic Background: native speaker: English; fluent speaker: French; beginning learner: Spanish

Question ID

Words Requiring Definitions

- A. smitch [smitʃ]: an interruption
- B. jube [dʒuˈb]: a round shape
- C. keeve [kʰiv]: a small, primitive dwelling
- D. wam [wam]: a rough, sturdy, synthetic material
- E. easloff ['iːz · lɔf]: a sleeping arrangement involving two or more palates
- F. kedid ['kʰɛ · rəd]: a state of moribund flesh
- G. mavar ['meː · vaɪ]: a small mammal from Australia
- H. eyeyu ['aː · juː]: a bead currency
- I. narathooze ['næ · ɹə · θuːz]: the attempt to measure something's dimensions approximately
- J. phillontave ['fɪ · lən · tʰeɪv]: climbing up a rock
- K. lulurode ['luː · lə · ɹoːd]: a soft and frilly fabric
- L. goxiwall ['gak · sə · wɔɪ]: an anatomical part having to do with the circulatory system
- M. cengastumine [sɪn · gæs · tə · maːn]: a chemical product used as a fire retardant
- N. poncrlader ['pʰɑŋ · kɹə · leː · rə]: something to punch holes in metal
- O. bowertilldew [ba · wə · tʰɪl · duː]: descriptive of boggy soil, like in Scotland
- P. chocksaeheble ['tʃak · sə · hi · bəɪ]: a regular polyhedron
- Q. whoagsafflerick [woːg · 'zæ · fəɪ · ɹɪk]: somebody down on their luck or depressed
- R. tobecraydrub [tʰoː · bə · 'kreː · dɹəb]: an arrangement of leaves on a plant

Definitions Requiring Words

- S. the wad of hair removed when cleaning a hairbrush: SKAPtha ['skæp · θæ]
- T. the grease that accumulates on top of a hot pizza: SKWILnif ['skwɪɫ · nɪf]
- U. an unexpected cool breeze on a sultry day: ISSfahn ['ɪs · fan]
- V. the feeling experienced by a death-row inmate after being pardoned or exonerated: ASHlahf ['aʃ · laf]
- W. a feeling of extreme disappointment: KURgul ['kʰə · gʊɪ]
- X. the feeling of being woken in the middle of the night by a strange noise: VALsahn ['væɫ · san]
- Y. the name of the remotest island on earth: siztk [sɪztk]

Images Requiring Words

- Z.  SWOOLur ['swuː · lɔɪ]
- a.  SWAHFnip ['swaf · nɪp]
- b.  SOOLrik ['suːɫ · ɹɪk]
- c.  ZUKfurl ['zʌk · fəɪ · ɹʊɪ]
- d.  URVlin ['əv · lɪn]
- e.  MAHNkwaht ['man · kʰwat]
- f.  RAHNkahd ['ɹɔn · kadʰ]
- g.  shreg [ʃɹɛg]

Participant Data Sheet

Participant #: 98

Age: 22

Sex: M

Linguistic Background: native speaker: English; beginning learner: German, Spanish

Question ID

Words Requiring Definitions

- A. smitch [smitʃ]: a type of grittiness
- B. jube [dʒuˈb]: a clear fluid
- C. keeve [kʰiv]: a green fruit, shaped like a banana but smaller
- D. wam [wam]: something broad and concave, like a crater
- E. easloff ['iːz · lɔf]: a type of noodle, like linguini
- F. kedid ['kʰɛ · rəd]: an emotion of feeling mild coercion
- G. mavar ['meː · vaɪ]: a manufactured milk substance
- H. eyeyu ['aː · juː]: a situation where a problem cannot be resolved even though one person has complete power over all others
- I. narathooze ['næ · ɹə · θuːz]: a sinus condition where the nasal passages are constricted
- J. phillontave ['fɪ · lən · tʰeɪv]: a spinning top that will influence people's decisions, like a dradle
- K. lulurode ['luː · lə · ɹoːd]: something that is permanently curled
- L. goxiwall ['gak · sə · wɔɪ]: a greenish orange color
- M. cengastumine [sɪn · ˈgæs · tə · maːn]: a manufactured compound in a prescription drug
- N. poncrilader ['pʰɑŋ · kɹə · leː · ræ]: a large machine that crushes rocks
- O. bowertilldew [ba · wə · tʰɪl · duː]: a 16th century men's cloth hat
- P. chocksaeheble ['tʃak · sə · hi · bæ]: somebody opposed to an idea even though they know it is the morally right thing to do
- Q. whoagsafflerick [woːg · ˈzæ · fəɪ · ɹɪk]: a steering implement for a boat or maybe an amphibious vehicle
- R. tobecraydrub [tʰoː · bæ · ˈkɹeɪ · dɹəb]: a volcanic formation, different from a crater or a caldera

Definitions Requiring Words

- S. the wad of hair removed when cleaning a hairbrush: SHARstuh ['ʃaɪ · stə]
- T. the grease that accumulates on top of a hot pizza: mowb [moːb]
- U. an unexpected cool breeze on a sultry day: FLOOgish ['fluː · giʃ]
- V. the feeling experienced by a death-row inmate after being pardoned or exonerated: kuhPLAZmeeuh [kə · ˈpʰlæz · miː · ə]
- W. a feeling of extreme disappointment: browd [broːd]
- X. the feeling of being woken in the middle of the night by a strange noise: sihREENGgheeuh [si · ˈɹɪŋ · giː · ə]
- Y. the name of the remotest island on earth: barsuhLUH [baɪ · sə · ˈlʌ]

Images Requiring Words

- Z.  aGROWzhuh [æ · ˈɡɹoʊ · zə]
- a.  LIHnul ['li · nʉ]
- b.  wursh [wəɪ]
- c.  broamst [broːmst]
- d.  mihLAHNGE [mi · ˈlændʒ]
- e.  kunGAHRdeeuh [kʰəŋ · ˈɡaɪ · diː · ə]
- f.  ihKINzhuh [i · ˈkʰɪn · zə]
- g.  rolm [ɹoɪm]

Participant Data Sheet

Participant #: 99

Age: 20

Sex: M

Linguistic Background: native speaker: English; beginning learner: German, Spanish

Question ID

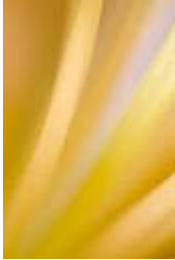
Words Requiring Definitions

- A. smitch [smitʃ]: to snatch
- B. jube [dʒuˈb]: red
- C. keeve [kʰiv]: an atoll
- D. wam [wam]: a creek
- E. easloff ['iːz · lɔf]: a bastion
- F. kedid ['kʰɛ · rəd]: a mule
- G. mavar ['meː · vaɪ]: a coat of arms
- H. eyeyu ['aː · juː]: natural light
- I. narathooze ['næ · ɹə · θuːz]: a canal
- J. phillontave ['fɪ · lən · tʰeɪv]: a plateau
- K. lulurode ['luː · lə · ɹoːd]: a forest
- L. goxiwall ['gak · sə · wɔɪ]: an axe
- M. cengastumine [sɪn · 'gæs · tə · maɪn]: heraldry
- N. poncrilader ['pʰɑŋ · kɹə · leɪ · ræ]: moak [moːk] (an unidentified word)
- O. bowertilldew [ba · wə · 'tʰɪl · duː]: a storm
- P. chocksaeheble ['tʃak · sə · hi · bəl]: a malevolent spirit
- Q. whoagsafflerick [woːg · 'zæ · fəl · ɹɪk]: a traveler
- R. tobecraydrub [tʰoː · bə · 'kreɪ · dɹəb]: a temple

Definitions Requiring Words

- S. the wad of hair removed when cleaning a hairbrush: snabz [snæbz]
- T. the grease that accumulates on top of a hot pizza: DOOLthoo ['duːt · θuː]
- U. an unexpected cool breeze on a sultry day: huhZAN [hə · 'zæn]
- V. the feeling experienced by a death-row inmate after being pardoned or exonerated: KEEruh ['kʰiː · ɹə]
- W. a feeling of extreme disappointment: boeDOOR [boː · 'dɔɪ]
- X. the feeling of being woken in the middle of the night by a strange noise: HOOroo ['huː · ɹuː]
- Y. the name of the remotest island on earth: uhZAIL [ə · 'zeɪɪ]

Images Requiring Words

- Z.  MAYrah ['meː · ɹə]
- a.  yahtSHOOL [jət · 'ʃuːl]
- b.  kway [kʰweɪ]
- c.  MADstuh ['mæd · stə]
- d.  OOVuhnuh ['u · və · nə]
- e.  toeTAIR [to · 'tʰɛɪ]
- f.  SAYlow ['seɪ · loː]
- g.  korVYND [kɔɪ · 'vaɪnd]

Participant Data Sheet

Participant #: 100

Age: 19

Sex: M

Linguistic Background: native speaker: English; beginning learner: Spanish

Question ID

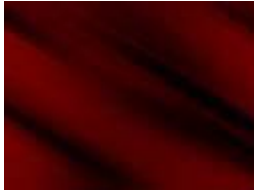
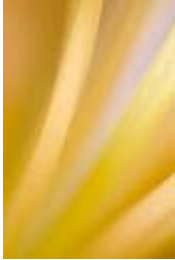
Words Requiring Definitions

- A. smitch [smitʃ]: a hard hit in football, like spearing somebody
- B. jube [dʒuˈb]: a type of music, a mix of hard rock and a little rap
- C. keeve [kʰiv]: a lie
- D. wam [wam]: a long, low-pitched, slow noise with a sudden high-pitched part
- E. easloff ['iːz · lɔf]: a valley
- F. kedid ['kʰɛ · rəd]: a throw to home plate from the outfield
- G. mavar ['meː · vaɪ]: curious
- H. eyeyu ['aː · juː]: to be kicked out of somewhere
- I. narathooze ['næ · ɹə · θuːz]: a grade of gasoline
- J. phillontave ['fɪ · lən · tʰeɪv]: mimicking
- K. lulurode ['luː · lə · ɹoːd]: misleading
- L. goxiwall ['gak · sə · wɔɪ]: an odd, diagonal pattern, like with tiles
- M. cengastumine [sɪn · ɡæs · tə · maːn]: a tragedy, like a natural disaster
- N. poncrilader ['pʰɑŋ · kɹə · leː · ræ]: instrument you could use to talk with an animal
- O. bowertilldew [,ba · wə · tʰɪl · duː]: a complete change in direction
- P. chocksaeheble ['tʃak · sə · hi · bəɪ]: a hammer
- Q. whoagsafflerick [woːg · 'zæ · fəɪ · ɹɪk]: an off-road vehicle like the ones used in African safaris
- R. tobecraydrub [tʰoː · bə · 'kreɪ · dɹəb]: a small Tupperware set

Definitions Requiring Words

- S. the wad of hair removed when cleaning a hairbrush: NEEzulkrump ['niː · zʰɪ · kʰɹəmp]
- T. the grease that accumulates on top of a hot pizza: kruhNOO [kʰɹə · 'nuː]
- U. an unexpected cool breeze on a sultry day: WOODul ['wuː · rʰɪ]
- V. the feeling experienced by a death-row inmate after being pardoned or exonerated: BAHWind ['baɪ · wɪnd]
- W. a feeling of extreme disappointment: muhSTRONE [mə · 'stɹoːn]
- X. the feeling of being woken in the middle of the night by a strange noise: KRAHDuld [kʰɹə · rʰɪd]
- Y. the name of the remotest island on earth: SEPshus ['sɛp · ʃəs]

Images Requiring Words

- Z.  WINDuld ['wɪn · dʰɪd]
- a.  ZASpuhr ['zæs · pəɪ]
- b.  eeYAhtuk [iː · 'ja · rək]
- c.  swahsh [swaʃ]
- d.  KRIHNuld [kʰɹɪn · dʰɪd]
- e.  luhBELD [lə · 'bɛɪd]
- f.  klank [klæŋk]
- g.  SKRYul ['skɹaː · ʰɪ]

Participant Data Sheet

Participant #: 101

Age: 19

Sex: M

Linguistic Background: native speaker: English; beginning learner: Spanish, German, Latin

Question ID

Words Requiring Definitions

- A. smitch [smitʃ]: a pocket watch
- B. jube [dʒuˈb]: a big, flat screen TV
- C. keeve [kʰiv]: a long paddle for a boat
- D. wam [wam]: a headband
- E. easloff ['iːz · lɔf]: a slacker
- F. kedid ['kʰɛ · rəd]: a big cooking pot, like a cauldron
- G. mavar ['meː · vaɪ]: a hammer
- H. eyeyu ['aː · juː]: a non-specific measurement of time
- I. narathooze ['næ · ɹə · θuːz]: a piece of tubing, like a funnel
- J. phillontave ['fɪ · lən · tʰeɪv]: a pitcher, like for water
- K. lulurode ['luː · lə · ɹoːd]: something solid
- L. goxiwall ['gak · sə · wɔɪ]: a flying animal, not necessarily a bird, dangerous to people
- M. cengastumine [sɪn · ɡæs · tə · maɪn]: a disease of the intestines
- N. poncrilader ['pʰɑŋ · kɹə · leː · rə]: a tool to measure distances
- O. bowertilldew [,bə · wə · tʰɪɪ · duː]: a term for a hard worker
- P. chocksabeeble ['tʃak · sə · hi · bəɪ]: a small, furry dinosaur
- Q. whoagsafflerick [woːg · 'zæ · fəɪ · ɹɪk]: a head covering, like a hat or toupee
- R. tobecraydrub [tʰoː · bə · 'kreɪ · dɹəb]: a yellow weed flower, like a dandelion

Definitions Requiring Words

- S. the wad of hair removed when cleaning a hairbrush: WAHkoe ['wa · koː]
- T. the grease that accumulates on top of a hot pizza: greeLAYbah [ɡɹɪ · 'leː · bə]
- U. an unexpected cool breeze on a sultry day: swove [swoːv]
- V. the feeling experienced by a death-row inmate after being pardoned or exonerated: GIHbee ['ɡɪ · biː]
- W. a feeling of extreme disappointment: krunts [kʰɹʌnts]
- X. the feeling of being woken in the middle of the night by a strange noise: SKARfoe ['skaɪ · foː]
- Y. the name of the remotest island on earth: HINyuhluht ['hɪn · jə · lətʰ]

Images Requiring Words

- Z.  RAYzee ['ɹeː · ziː]
- a.  YIHbruh ['jɪ · brə]
- b.  HIMtuhm ['hɪm · tʰəm]
- c.  brayTOOS [brɛː · tʰuːs]
- d.  SIHNtum ['sɪn · tʰəm]
- e.  GAHRfoe ['ɡaɪ · foː]
- f.  DAHNfor ['dan · fɔɪ]
- g.  RUSpree ['ɹʌs · pɹɪː]

Participant Data Sheet

Participant #: 102

Age: 20

Sex: M

Linguistic Background: native speaker: English; beginning learner: French, Spanish, German

Question ID

Words Requiring Definitions

- A. smitch [smitʃ]: to ogle over something
- B. jube [dʒuˈb]: a fast dance, like a jig
- C. keeve [kʰiv]: to steal something
- D. wam [wam]: to be tired
- E. easloff ['iːz · lɔf]: relaxed
- F. kedid ['kʰɛ · rəd]: to put something away for safe keeping or to wrap something up
- G. mavar ['meː · vaɪ]: pretty
- H. eyeyu ['aː · juː]: a washer
- I. narathooze ['næ · ɹə · θuːz]: a medicine for a skin rash
- J. phillontave ['fi · lən · tʰeɪv]: a strong glue or cement
- K. lulurode ['luː · lə · ɹoːd]: a purple- pink flower, medium sized
- L. goxiwall ['gak · sə · wɔɪ]: a troll or goblin
- M. cengastumine [sɪn · ˈgæs · tə · maɪn]: to cut somebody's leg's out from underneath them (figuratively)
- N. poncrilader ['pʰɑŋ · kɹə · leɪ · ræ]: a switch board or control station
- O. bowertilldew [,ba · wə · tʰɪl · duː]: a nagging affliction
- P. chocksaeheble ['tʃak · sə · hi · bəɪ]: a vitamin or herb useful for steadying the hands
- Q. whoagsafflerick [woːg · ˈzæ · fəɪ · ɹɪk]: a support structure inside a building, like a stud
- R. tobecraydrub [tʰoː · bə · ˈkreɪ · dɹəb]: an antique wooden writing desk

Definitions Requiring Words

- S. the wad of hair removed when cleaning a hairbrush: WAHKsnay ['waks · neɪ]
- T. the grease that accumulates on top of a hot pizza: PYOUfur ['pʰjuː · fə]
- U. an unexpected cool breeze on a sultry day: mrow [mɹoː]
- V. the feeling experienced by a death-row inmate after being pardoned or exonerated: maluhKREEshus [mæ · lə · ˈkʰɪj · ʃəs]
- W. a feeling of extreme disappointment: BOOnayde ['buː · neɪd]
- X. the feeling of being woken in the middle of the night by a strange noise: vihTREED [vi · ˈtʰɪjɪd]
- Y. the name of the remotest island on earth: kahLAHskay [ka · ˈlas · keɪ]

Images Requiring Words

- Z.  puhSAMuhnus [pə · ˈsæ · mə · nəʃ]
- a.  KREEuhthee ['kʰɪj · ə · θɪ]
- b.  uhFEEleeuh [ə · ˈfi · ljə]
- c.  moZEEtheeuh [moː · ˈzi · θɪ · ə]
- d.  disTRIHNseeuh [dis · ˈtʰɪɪn · si · ə]
- e.  puhTRARkuhrzoid [pə · ˈtʰɹɑɪ · kə · zɔɪd]
- f.  mahZOEleeuh [ma · ˈzoː · li · ə]
- g.  inisTREEuh [ɪ · nis · ˈtʰɪjɪ · ə]

Participant Data Sheet

Participant #: 103

Age: 20

Sex: M

Linguistic Background: native speaker: English; beginning learner: Spanish

Question ID

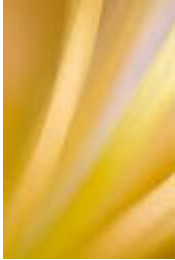
Words Requiring Definitions

- A. smitch [smitʃ]: an amount of food you consume
- B. jube [dʒuˈb]: a grass that only grows in the winter
- C. keeve [kʰiv]: the speed of sound
- D. wam [wam]: a material that a baseball bat is made from
- E. easloff ['iːz · lɔf]: a cushion brought to sporting events to sit on
- F. kedid ['kʰɛ · rəd]: a leather shoe with a rubber sole and Velcro with some cushioning inside
- G. mavar ['meː · vaɪ]: a cleaning agent to remove rust
- H. eyeyu ['aː · juː]: a game played at the beach involving two Frisbees, an umbrella and a wiffle ball
- I. narathooze ['næ · ʒə · θuːz]: a drink containing four types of alcohol and fruit juice
- J. phillontave ['fɪ · lən · tʰeɪv]: a radar detector used by police and baseball scouts
- K. lulurode ['luː · lə · ʒoːd]: a vegetarian dish served in the Sears Tower
- L. goxiwall ['gak · sə · wɔɪ]: a putty substance used to fix leaks
- M. cengastumine [sɪn · ɡæs · tə · maːn]: a type of English bifocal
- N. poncrilader ['pʰɑŋ · kɪə · leː · ræ]: a nightstick carried by the police
- O. bowertilldew [,bə · wə · tʰɪl · duː]: a writing utensil for electronic smart boards, like a stylus
- P. chocksabeeble ['tʃak · sə · hi · bæ]: a parking brake for steep inclines
- Q. whoagsafflerick [woːg · ˈzæ · fəɪ · ɹɪk]: a prehistoric lobster
- R. tobecraydrub [tʰoː · bæ · ˈkreː · dɹəb]: a new source of renewable energy from cow methane

Definitions Requiring Words

- S. the wad of hair removed when cleaning a hairbrush: tanTHAsuhlope [tʰæn · ˈθæ · sə · loːp]
- T. the grease that accumulates on top of a hot pizza: fesDUNKul [fɛs · ˈdʌŋ · kʰɪ]
- U. an unexpected cool breeze on a sultry day: kwahLAYshis [kwa · ˈleː · ʃɪs]
- V. the feeling experienced by a death-row inmate after being pardoned or exonerated: kaleeAYshun [kæ · liː · ˈeː · ʃəŋ]
- W. a feeling of extreme disappointment: ohLOOKruhl [oː · ˈluː · kɹʰɪ]
- X. the feeling of being woken in the middle of the night by a strange noise: GRASyoulay [ˈɡræs · tʃuː · leː]
- Y. the name of the remotest island on earth: DAHRdeeful [ˈdaɪ · diː · fuɪ]

Images Requiring Words

- Z.  SHEEblay [ˈʃiː · bleɪ]
- a.  VIHbulgail [ˈvi · bʰɪ · ɡæɪ]
- b.  BAKurwahp [ˈbæ · kə · wəp]
- c.  ardooKALE [aɪ · duː · ˈkʰɛɪ]
- d.  SPIHlihkuhs [ˈspi · li · kəs]
- e.  krihleeTOYdul [kʰɪ · li · ˈtʰɔɪ · rʰɪ]
- f.  fiksTHOYdale [fɪks · ˈθɔɪ · dɛɪ]
- g.  suhBLOWkrak [sə · ˈbloː · kɹæk]

Participant Data Sheet

Participant #: 104

Age: 19

Sex: M

Linguistic Background: native speaker: English; intermediate learner: Latin; beginning learner: Spanish

Question ID

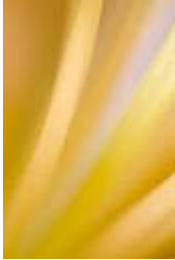
Words Requiring Definitions

- A. smitch [smitʃ]: something small
- B. jube [dʒuˈb]: a natural fruit drink
- C. keeve [kʰiv]: to do something stupid
- D. wam [wam]: something crumpled up, like paper
- E. easloff ['iːz · lɔf]: to spy on somebody
- F. kedid ['kʰɛ · rəd]: to obtain
- G. mavar ['meː · vaɪ]: ice cream
- H. eyeyu ['aː · juː]: to say goodbye
- I. narathooze ['næ · ɹə · θuːz]: to educate somebody
- J. phillontave ['fɪ · lən · tʰeɪv]: to be confused
- K. lulurode ['luː · lə · ɹoːd]: to go swimming
- L. goxiwall ['gak · sə · wɔɪ]: to throw
- M. cengastumine [sɪn · ˈgæs · tə · maɪn]: believing
- N. poncrilader ['pʰɑŋ · kɪə · leɪ · ræ]: a washing machine
- O. bowertilldew [ˌba · wə · tʰɪl · duː]: to work out
- P. chocksaeheble ['tʃak · sə · hi · bəɪ]: to eat
- Q. whoagsafflerick [woːg · ˈzæ · fəɪ · ɹɪk]: a computer
- R. tobecraydrub [tʰoː · bə · ˈkreɪ · dɹəb]: to jump

Definitions Requiring Words

- S. the wad of hair removed when cleaning a hairbrush: dush [dʌʃ]
- T. the grease that accumulates on top of a hot pizza: peez [pʰiːz]
- U. an unexpected cool breeze on a sultry day: uhLYEyur [ə · ˈlaɪ · jə]
- V. the feeling experienced by a death-row inmate after being pardoned or exonerated: grail [ɡɹeɪ]
- W. a feeling of extreme disappointment: DEEum ['diː · əm]
- X. the feeling of being woken in the middle of the night by a strange noise: faw [fə]
- Y. the name of the remotest island on earth: barse [bərs]

Images Requiring Words

- Z.  seer [sɪɹ]
 - a.  youWITE [juː · ˈwaɪt]
 - b.  hooURrul [huː · ˈə · ɹɹ]
 - c.  BAREsuhluh [ˈbɛɹ · sə · lə]
- d.  KANEpee [ˈkʰeɪn · piː]
 - e.  RURrul [ˈɹə · ɹɹ]
 - f.  stall [stɑɪ]
 - g.  juhBITE [dʒə · ˈbaɪt]

Participant Data Sheet

Participant #: 105

Age: 25

Sex: F

Linguistic Background: native speaker: English; fluent speaker: French; beginning learner: German, Italian

Question ID

Words Requiring Definitions

- A. smitch [smitʃ]: something gross or smutty
- B. jube [dʒuˈb]: a chamber pot
- C. keeve [kʰiv]: something that really annoys somebody
- D. wam [wam]: a thin, water-based soup
- E. easloff ['iːz · lɔf]: somebody who's lazy
- F. kedid ['kʰɛ · rəd]: somebody who has a good head on his shoulders
- G. mavar ['meː · vaɪ]: a long, epic voyage
- H. eyeyu ['aː · juː]: a pirogue
- I. narathooze ['næ · ʒə · θuːz]: pertains to being thorough, a person or a thing
- J. phillontave ['fɪ · lən · tʰeɪv]: denture glue, like Fixodent
- K. lulurode ['luː · lə · ʒoːd]: a winding road
- L. goxiwall ['gak · sə · wɔɪ]: a food like sausages and sauerkraut
- M. cengastumine [sɪn · ɡæs · tə · maːn]: bloated
- N. poncrlader ['pʰɑŋ · kɪə · leː · ræ]: a noise-making toy with buttons corresponding to different sounds
- O. bowertilldew [,ba · wə · tʰɪl · duː]: cultivation, planting
- P. chocksaeheble ['tʃak · sə · hi · bəl]: multi-faceted
- Q. whoagsafflerick [woːg · zæ · fəl · ɹɪk]: scratchy
- R. tobecraydrub [tʰoː · bæ · kɪə · dɹəb]: the feeling from looking at a mountain range from the sky

Definitions Requiring Words

- S. the wad of hair removed when cleaning a hairbrush: fuhLAIR [fə · 'læːɹ]
- T. the grease that accumulates on top of a hot pizza: smuhSMURCH [smə · 'sməːtʃ]
- U. an unexpected cool breeze on a sultry day: bluhTAHKsee [blə · tʰak · siː]
- V. the feeling experienced by a death-row inmate after being pardoned or exonerated: SHMAKsum ['ʃmæk · sʌm]
- W. a feeling of extreme disappointment: SHMOOdeu ['ʃmy · dɔ]
- X. the feeling of being woken in the middle of the night by a strange noise: EKsfurgaytud ['ɛks · fə · geː · rəd]
- Y. the name of the remotest island on earth: kuhLOOshah [kə · 'luː · ʃa]

Images Requiring Words

- Z. 
MARuhnz ['mæɹ · əŋz]
- a. 
buhMILyin [bə · 'mɪɹ · jɪn]
- b. 
BAHRRayve ['ba · ɹeɪv]
- c. 
muhTURin [mə · tʰə · ɹɪn]
- d. 
spurRIHshus [spə · 'ɹɪ · ʃəs]
- e. 
PAHmuhduhnz ['pʰa · mə · dʰəŋz]
- f. 
EYEzunhahf ['aː · zəŋ · haf]
- g. 
SHBAHRgust ['ʃbaɹ · gəst]

Participant Data Sheet

Participant #: 106

Age: 22

Sex: M

Linguistic Background: native speaker: English; beginning learner: German, Spanish

Question ID

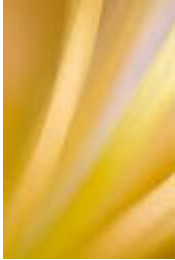
Words Requiring Definitions

- A. smitch [smitʃ]: a small spot
- B. jube [dʒuˈb]: like a light bulb
- C. keeve [kʰiv]: a chandelier in a breakfast nook
- D. wam [wam]: a rat
- E. easloff ['iːz · lɔf]: a giant wall, like on the Parthenon
- F. kedid ['kʰɛ · rəd]: to put the top on a pot
- G. mavar ['meː · vaɪ]: a spell making wood come alive
- H. eyeyu ['aː · juː]: reminiscent of a sled dog
- I. narathooze ['næ · ɹə · θuːz]: headhunters to be feared
- J. phillontave ['fɪ · lən · tʰeɪv]: sifting flower
- K. lulurode ['luː · lə · ɹoːd]: a big roll of paper
- L. goxiwall ['gak · sə · wɔɪ]: a dance like a high step but with more formality
- M. cengastumine [sɪn · ɡæs · tə · maːn]: writing a satire of satires
- N. poncrilader ['pʰɑŋ · kɹə · leː · rə]: a person who calculates scores
- O. bowertilldew [ba · wə · tʰɪl · duː]: a support for a tower
- P. chocksaeheble ['tʃak · sə · hi · bəl]: a large, indefinite number
- Q. whoagsafflerick [woːg · ˈzæ · fəl · ɹɪk]: reminiscent of characters like Don Quixote
- R. tobecraydrub [tʰoː · bə · ˈkɹeɪ · dɹəb]: a large, flowering bush

Definitions Requiring Words

- S. the wad of hair removed when cleaning a hairbrush: BALduhrahnz ['bæɪ · də · ɹanz]
- T. the grease that accumulates on top of a hot pizza: chaDOOuh [tʃæ · ˈduː · ə]
- U. an unexpected cool breeze on a sultry day: VAHRguh ['vaɪ · gə]
- V. the feeling experienced by a death-row inmate after being pardoned or exonerated: uhSTOReez [ə · ˈstɔ · ɹiːz]
- W. a feeling of extreme disappointment: DARrin ['dɛ · ɹɪn]
- X. the feeling of being woken in the middle of the night by a strange noise: mahrLEED [maɪ · ˈliːd]
- Y. the name of the remotest island on earth: duhPAHRstuh [də · ˈpʰɑɪ · stə]

Images Requiring Words

- Z.  ROHNduhn ['ɹoːn · dən]
- a.  vraht [vɹaːt]
- b.  vair [veɪɹ]
- c.  afuhRAHNduh [æ · fə · ˈɹan · də]
- d.  shmeel [ʃmiːl]
- e.  pwahd [pʰwad]
- f.  eks [ɛks]
- g.  stuhRAHNduh [stə · ˈɹan · də]

Participant Data Sheet

Participant #: 107

Age: 19

Sex: M

Linguistic Background: native speaker: English; beginning learner: French, Spanish

Question ID

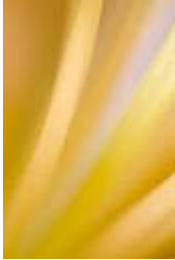
Words Requiring Definitions

- A. smitch [smitʃ]: a very small adult person, like an Irish
- B. jube [dʒuˈb]: a tree with drooping branches
- C. keeve [kʰiv]: to antagonize somebody to the point of an altercation
- D. wam [wam]: a bat (animal)
- E. easloff ['iːz · lɔf]: to be lazy
- F. kedid ['kʰɛ · rəd]: to be reserved
- G. mavar ['meː · vaɪ]: a bullfight
- H. eyeyu ['aː · juː]: computer security software
- I. narathooze ['næ · ʒə · θuːz]: medicine that treats breast cancer
- J. phillontave ['fɪ · lən · tʰeɪv]: a car dent remover
- K. lulurode ['luː · lə · ʒoːd]: a bicycle tire
- L. goxiwall ['gak · sə · wɔɪ]: caulk for floor tile
- M. cengastumine [sɪn · 'gæs · tə · maːn]: a liquid explosive
- N. poncrilader ['pʰɑŋ · kɪə · leː · ræ]: a torture device, like a dull guillotine
- O. bowertilldew [,bə · wə · 'tʰɪl · duː]: reminiscent of a jet engine
- P. chocksabeeble ['tʃak · sə · hi · bəɪ]: a hatchet
- Q. whoagsafflerick [woːg · 'zæ · fəɪ · ɹɪk]: an exceptional piano player
- R. tobecraydrub [tʰoː · bə · 'kreː · dɹəb]: like a backpack or a harness, something to be carried on your person

Definitions Requiring Words

- S. the wad of hair removed when cleaning a hairbrush: DEEturge ['diː · tʰəɪdʒ]
- T. the grease that accumulates on top of a hot pizza: loust [laːst]
- U. an unexpected cool breeze on a sultry day: fehNEESE [fɛ · 'niːs]
- V. the feeling experienced by a death-row inmate after being pardoned or exonerated: wihZEL [wi · 'zɛɪ]
- W. a feeling of extreme disappointment: tahrd [tʰɑɪd]
- X. the feeling of being woken in the middle of the night by a strange noise: uhGAZuhm [ə · 'gæ · zəɪ]
- Y. the name of the remotest island on earth: loRAYshun [lɔ · 'reː · ʃən]

Images Requiring Words

- Z.  STRAzul ['stɹæ · zəɪ]
- a.  PEEuhzay ['pʰiː · ə · zeɪ]
- b.  sahn [san]
- c.  burRABjuhnee [bə · 'ræb · dʒə · niː]
- d.  SANKtun ['seɪŋk · tən]
- e.  loush [laːʃ]
- f.  ihGLAHnoe [ɪ · 'gla · noː]
- g.  DUSur ['dʌs · təɪ]

Participant Data Sheet

Participant #: 108

Age: 19

Sex: M

Linguistic Background: native speaker: English; beginning learner: German, Spanish, Classical Greek

Question ID

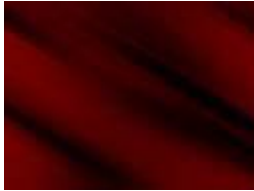
Words Requiring Definitions

- A. smitch [smitʃ]: a small game bird, similar to a quail
- B. jube [dʒuˈb]: a ball shaped object
- C. keeve [kʰiv]: rowing or steering a ship
- D. wam [wam]: a food like rice and shrimp or other seafood
- E. easloff ['iːz · lɔf]: an expression of jubilation
- F. kedid ['kʰɛ · rəd]: a plant, like a cabbage or a lettuce
- G. mavar ['meː · vaɪ]: a military job, maybe a cavalryman
- H. eyeyu ['aː · juː]: mediocre or so-so
- I. narathooze ['næ · ɹə · θuːz]: a pass through a canyon
- J. phillontave ['fɪ · lən · tʰeɪv]: a sport with a ball
- K. lulurode ['luː · lə · ɹoːd]: bizarre or confusing
- L. goxiwall ['gak · sə · wɔɪ]: an ugly sea creature with tentacles
- M. cengastumine [sɪn · ɡæs · tə · maːn]: an unpleasant smell
- N. poncrilader ['pʰaŋ · kɹə · leː · rə]: churning butter
- O. bowertilldew [,ba · wə · tʰɪl · duː]: a rigged election
- P. chocksaeheble ['tʃak · sə · hi · bəɪ]: cornmeal-based food
- Q. whoagsafflerick [woːg · 'zæ · fəɪ · ɹɪk]: a cleansing
- R. tobecraydrub [tʰoː · bə · 'kreː · dɹəb]: a positive description

Definitions Requiring Words

- S. the wad of hair removed when cleaning a hairbrush: AHGdahg ['ag · dag]
- T. the grease that accumulates on top of a hot pizza: NAHvoo ['na · voː]
- U. an unexpected cool breeze on a sultry day: HUdeewort ['hu · riː · wɔɪt]
- V. the feeling experienced by a death-row inmate after being pardoned or exonerated: YEELsuhn ['jiː · sʰɪ]
- W. a feeling of extreme disappointment: SUMboe ['sʌm · boː]
- X. the feeling of being woken in the middle of the night by a strange noise: AKbahr ['æk · baɪ]
- Y. the name of the remotest island on earth: SEEnoo ['siː · nuː]

Images Requiring Words

Z.  RAHzuhm ['ɹa · zʰəm]	a.  FLEEguhl ['fliː · ɡʰɪ]	b.  AHRboe ['aɹ · boː]	c.  JILuhm ['dʒɪ · ləm]
d.  URgul ['ə · ɡʰɪ]	e.  REEguhm ['riː · ɡʰəm]	f.  AHpul ['a · pʰɪ]	g.  AHGduhm ['ag · dʰəm]

Participant Data Sheet

Participant #: 109

Age: 20

Sex: M

Linguistic Background: native speaker: English; beginning learner: German

Question ID

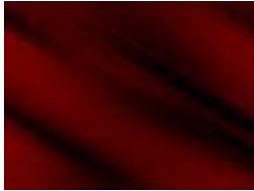
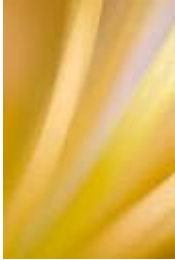
Words Requiring Definitions

- A. smitch [smitʃ]: smug
- B. jube [dʒuˈb]: a round bug with dots
- C. keeve [kʰiv]: a crevice in the earth
- D. wam [wam]: to be deeply saddened
- E. easloff ['iːz · lɔf]: a winter tree found in Canada that can be tall and is flowering
- F. kedid ['kʰɛ · rəd]: cross stitching
- G. mavar ['meː · vaɪ]: a variety of tobacco, not hallucinogenic
- H. eyeyu ['aː · juː]: a power supply from a computer
- I. narathooze ['næ · ʒə · θuːz]: similar to neurons in the brain, they transmit signals
- J. phillontave ['fɪ · lən · tʰeɪv]: a type of caulk
- K. lulurode ['luː · lə · ʒoːd]: a small, delicate, purple flower, built around a central axis
- L. goxiwall ['gak · sə · wɔɪ]: a spicy chili from Spain
- M. cengastumine [sɪn · ɡæs · tə · maːn]: a gasoline additive
- N. poncrlader ['pʰɑŋ · kɪə · leː · ræ]: an air purifier
- O. bowertilldew [ba · wə · tʰɪl · duː]: an essential piece in a pulley system
- P. chocksabeeble ['tʃak · sə · hi · bəɪ]: a rock found in Arizona, can be red or orange and prone to breaking apart
- Q. whoagsafflerick [woːg · ˈzæ · fəɪ · ʒɪk]: a legendary wolf that walks on two legs
- R. tobecraydrub [tʰoː · bə · ˈkreː · dʒəb]: a Caribbean fruit, peach colored, round and the size of a cantaloupe

Definitions Requiring Words

- S. the wad of hair removed when cleaning a hairbrush: YUKstun ['jʌk · stən]
- T. the grease that accumulates on top of a hot pizza: DRITfahl ['dɪɪt · fəɪ]
- U. an unexpected cool breeze on a sultry day: imFATuhmyzeeng [ɪm · ˈfæ · rə · maː · zɪŋ]
- V. the feeling experienced by a death-row inmate after being pardoned or exonerated: korahptihNAYshun [kɔ · ʒap · tɪ · ˈneː · ʃən]
- W. a feeling of extreme disappointment: ahntLED [aɪn · tʰɪɛːd]
- X. the feeling of being woken in the middle of the night by a strange noise: REENtun ['ɹiːn · tən]
- Y. the name of the remotest island on earth: RISlin ['ɹɪs · lɪn]

Images Requiring Words

- Z.  inTAYshun [ɪn · tʰeː · ʃən]
- a.  FREEKstuhn ['fɹiːk · stən]
- b.  DEStuhtor ['de · stə · tɔɪ]
- c.  FRAHTdor ['fɹat · dɔɪ]
- d.  SWAHPshun ['swap · ʃən]
- e.  OOMliktuhn ['uːm · ɪk · tən]
- f.  skreent [skɹiːnt]
- g.  DRUNGstuhn ['dɹʌŋ · stən]

Participant Data Sheet

Participant #: 110

Age: 59

Sex: F

Linguistic Background: native speaker: English; fluent speaker: French, German; intermediate learner: Spanish; beginning learner: Japanese, Arabic

Question ID

Words Requiring Definitions

- A. smitch [smitʃ]: a tree branch
- B. jube [dʒuˈb]: a brightly colored, plastic toy consisting of folding pipes that can be formed into different shapes
- C. keeve [kʰiv]: the bank of a river
- D. wam [wam]: a fuzzy blanket
- E. easloff ['iːz · lɔf]: a fruit-flavored, strong alcoholic drink
- F. kedid ['kʰɛ · rəd]: chosen, picked out
- G. mavar ['meː · vaɪ]: a manmade material that comes in sheets
- H. eyeyu ['aː · juː]: a medical device made of metal and plastic for testing, like drawing blood
- I. narathooze ['næ · ɹə · θuːz]: soporific
- J. phillontave ['fɪ · lən · tʰeɪv]: a prepared food that is sweet
- K. lulurode ['luː · lə · ɹoːd]: a mammal that hops and jumps
- L. goxiwall ['gak · sə · wɔɪ]: an exotic animal, small and grey, harmless to people, maybe found in Australia
- M. cengastumine [sɪn · gæs · tə · maːn]: a disease of the intestines
- N. poncrilader ['pʰɑŋ · kɹə · leː · ræ]: a steam powered machine that stamps out widgets
- O. bowertilldew [,bə · wə · tʰɪl · duː]: a strong cheese, like brie
- P. chocksabeeble ['tʃak · sə · hi · bæɪ]: a hard task
- Q. whoagsafflerick [woːg · 'zæ · fəɪ · ɹɪk]: concerning air pressure as it might relate to a scientific experiment
- R. tobecraydrub [tʰoː · bæ · 'kɹeɪ · dɹəb]: a negative outcome, trouble

Definitions Requiring Words

- S. the wad of hair removed when cleaning a hairbrush: WEESHdah ['wiːʃ · da]
- T. the grease that accumulates on top of a hot pizza: WULdoe ['wʊɪ · doː]
- U. an unexpected cool breeze on a sultry day: WELtoe ['wɛɪ · toː]
- V. the feeling experienced by a death-row inmate after being pardoned or exonerated: GAHwoosh ['ga · wuːʃ]
- W. a feeling of extreme disappointment: DOOtah ['duː · ta]
- X. the feeling of being woken in the middle of the night by a strange noise: eeKAH [iː · 'kʰa]
- Y. the name of the remotest island on earth: ahntehnoe [an · tɛn · oː]

Images Requiring Words

- Z.  LEPlloe ['lɛp · loː]
- a.  SIHchoe ['sɪ · tʃoː]
- b.  lahsh [laːʃ]
- c.  gahmBEN [gam · 'bɛn]
- d.  SOOgahsh ['suː · gaʃ]
- e.  KRAkoe ['kʰɹæ · koː]
- f.  FEEkoolah ['fiː · kʊ · la]
- g.  flah [fla]

Participant Data Sheet

Participant #: 111

Age: 21

Sex: M

Linguistic Background: native speaker: English; beginning learner: German, Latin

Question ID

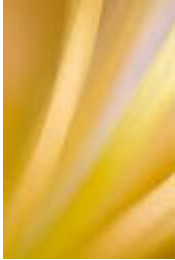
Words Requiring Definitions

- A. smitch [smitʃ]: a short trip
- B. jube [dʒuˈb]: a color between blue and green
- C. keeve [kʰiv]: the look you make when you have little hope of success
- D. wam [wam]: two armloads of something
- E. easloff ['iːz · lɔf]: a dual concept of both a journey and a destination
- F. kedid ['kʰɛ · rəd]: to bring together
- G. mavar ['meː · vaɪ]: no response
- H. eyeyu ['aː · juː]: a small amount
- I. narathooze ['næ · ɹə · θuːz]: something unremarkable
- J. phillontave ['fɪ · lən · tʰeɪv]: a color like purple
- K. lulurode ['luː · lə · ɹoːd]: a positive emotion, like overjoyed
- L. goxiwall ['gak · sə · wɔɪ]: a beast of the forest, like a small cat, not dangerous to people
- M. cengastumine [sɪn · ˈgæs · tə · maːn]: a door to door salesman
- N. poncrilader ['pʰɑŋ · kɹə · leː · ræ]: a legendary hero figure
- O. bowertilldew [,ba · wə · tʰɪl · duː]: an amount of time
- P. chocksaeheble ['tʃak · sə · hi · bəɪ]: an animal, like a squirrel but with a spiky tail
- Q. whoagsafflerick [woːg · ˈzæ · fəɪ · ɹɪk]: a disease affecting the whole body
- R. tobecraydrub [tʰoː · bə · ˈkɹeɪ · dɹəb]: a dull color, like flat grey or beige

Definitions Requiring Words

- S. the wad of hair removed when cleaning a hairbrush: flehkt [flekt]
- T. the grease that accumulates on top of a hot pizza: shimp [ʃɪmp]
- U. an unexpected cool breeze on a sultry day: WInahn ['wɪ · nan]
- V. the feeling experienced by a death-row inmate after being pardoned or exonerated: oomBAHkra [uːm · ˈbək · ɹæ]
- W. a feeling of extreme disappointment: NEHstahn ['nɛ · stan]
- X. the feeling of being woken in the middle of the night by a strange noise: BAHrook ['ba · ɹuːk]
- Y. the name of the remotest island on earth: toeLEEnee [tʰoː · ˈliː · niː]

Images Requiring Words

- Z.  zwahzh [zwaʒ]
- a.  feeLAH [fiː · ˈla]
- b.  WIHlee ['wɪ · liː]
- c.  CHAMblat ['tʃæm · blæt]
- d.  VIHzig ['vi · zɪg]
- e.  BRIKtun ['bɪk · tʰʉ]
- f.  ZApoe ['zæ · poː]
- g.  SPIHzee ['spi · ziː]

Participant Data Sheet

Participant #: 112

Age: 19

Sex: M

Linguistic Background: native speaker: English; beginning learner: French

Question ID

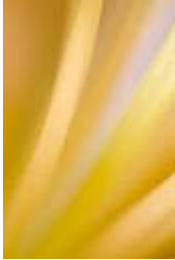
Words Requiring Definitions

- A. smitch [smitʃ]: a witty person
- B. jube [dʒuˈb]: a shade of blue
- C. keeve [kʰiv]: to freak out
- D. wam [wam]: bored (not interested)
- E. easloff ['iːz · lɔf]: tired
- F. kedid ['kʰɛ · rəd]: worried
- G. mavar ['meː · vaɪ]: tall
- H. eyeyu ['aː · juː]: water
- I. narathooze ['næ · ʒə · θuːz]: a large, furry, mammal that is dangerous to people
- J. phillontave ['fi · lən · tʰeːv]: famous
- K. lulurode ['luː · lə · ʒoːd]: a small sports car
- L. goxiwall ['gak · sə · wɔt]: dark (evil)
- M. cengastumine [sɪn · gæs · tə · maːn]: bizarre
- N. poncrilader ['pʰɑŋ · kɪə · leː · ræ]: high school male clothing line aimed at skaters
- O. bowertilldew [ba · wə · tʰɪl · duː]: frightening
- P. chocksaeheble ['tʃak · sə · hi · bət]: rocks, like boulders, dispersed
- Q. whoagsafflerick [woːg · 'zæ · fət · ɹɪk]: sadness
- R. tobecraydrub [tʰoː · bə · 'kreː · dɹəb]: a mineral ore that is grey or silver

Definitions Requiring Words

- S. the wad of hair removed when cleaning a hairbrush: splashrg [splʌɹg]
- T. the grease that accumulates on top of a hot pizza: gahk [gak]
- U. an unexpected cool breeze on a sultry day: skahmp [skamp]
- V. the feeling experienced by a death-row inmate after being pardoned or exonerated: MIHnuhmun ['mi · nə · mʰn]
- W. a feeling of extreme disappointment: KAHkoose ['kʰa · kuːs]
- X. the feeling of being woken in the middle of the night by a strange noise: pilnse [pʰɪns]
- Y. the name of the remotest island on earth: ahrKIHduhmin [aɹ · 'kʰɪ · rə · mɪn]

Images Requiring Words

- Z.  spink [spɪŋk]
- a.  dowch [daːtʃ]
- b.  doof [duːf]
- c.  reesh [ɹiːʃ]
- d.  BIHlut ['bi · lət]
- e.  kihNYE [ki · 'naː]
- f.  koeTOO [koː · tʰuː]
- g.  kroog [kʰɹuːg]

Participant Data Sheet

Participant #: 113

Age: 45

Sex: M

Linguistic Background: native speaker: English; fluent speaker: Spanish; intermediate learner: French, Italian, Portuguese

Question ID

Words Requiring Definitions

- A. smitch [smitʃ]: a stain on a garment
- B. jube [dʒuˈb]: an inner tube that kids play with
- C. keeve [kʰiv]: to procrastinate so much you are about to miss your deadline
- D. wam [wam]: comfortable, soothing
- E. easloff ['iːz · lɔf]: a tool used to measure distance
- F. kedid ['kʰɛ · rəd]: stacked up, one on another
- G. mavar ['meː · vaɪ]: a kind of plastic material
- H. eyeyu ['aː · juː]: an exclamation, said in pain or anger
- I. narathooze ['næ · ɹə · θuːz]: a tall people group from a cold climate
- J. phillontave ['fɪ · lən · tʰeɪv]: to arrange things in space
- K. lulurode ['luː · lə · ɹoːd]: an incredibly amazing party
- L. goxiwall ['gak · sə · wɔɪ]: a young, mischievous, irresponsible, problem-solving child
- M. cengastumine [sɪn · ɡæs · tə · maːn]: a problem with no resolution
- N. poncrilader ['pʰɑŋ · kɹə · leː · rə]: a machine that matches up music with images
- O. bowertilldew [,bə · wə · tʰɪl · duː]: a small puddle that disappears after the sun rises
- P. chocksaeheble ['tʃak · sə · hi · bəɪ]: a small, spiky weed
- Q. whoagsafflerick [woːg · 'zæ · fəɪ · ɹɪk]: a booby prize
- R. tobecraydrub [tʰoː · bə · 'kreɪ · dɹəb]: a layer of rock that geologists would study

Definitions Requiring Words

- S. the wad of hair removed when cleaning a hairbrush: foind [fɔɪnd]
- T. the grease that accumulates on top of a hot pizza: sluk [slʌk]
- U. an unexpected cool breeze on a sultry day: skoof [skuːf]
- V. the feeling experienced by a death-row inmate after being pardoned or exonerated: foomb [fɔmf]
- W. a feeling of extreme disappointment: kahnge [kʰandʒ]
- X. the feeling of being woken in the middle of the night by a strange noise: STIHful ['strɪ · fəɪ]
- Y. the name of the remotest island on earth: zoomBOHbah [zum · 'bo · ba]

Images Requiring Words

- Z.  FAHNduhroe ['fan · də · ɹoː]
- a.  SPAHRtuhlik ['spaɪ · rə · lɪk]
- b.  WAHNdish ['wan · dɪʃ]
- c.  muhmBRAHloe [məm · 'bra · loː]
- d.  LENdahlee ['lən · da · li:]
- e.  AHpruhzoe ['a · pʰɹə · zoː]
- f.  TENloo ['tʰɛn · luː]
- g.  HOOsuhnoovur ['huː · sə · nuː · və:]

Participant Data Sheet

Participant #: 114

Age: 19

Sex: M

Linguistic Background: native speaker: English; beginning learner: Spanish

Question ID

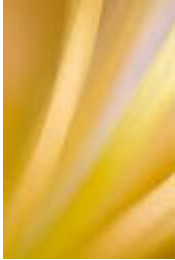
Words Requiring Definitions

- A. smitch [smitʃ]: to steal
- B. jube [dʒuˈb]: to massage
- C. keeve [kʰiv]: an intelligent person
- D. wam [wam]: motherly
- E. easloff ['iːz · lɔf]: to make something pretty
- F. kedid ['kʰɛ · rəd]: funny
- G. mavar ['meː · vaɪ]: strong
- H. eyeyu ['aː · juː]: to take notes
- I. narathooze ['næ · ɹə · θuːz]: to dream
- J. phillontave ['fɪ · lən · tʰeɪv]: open minded
- K. lulurode ['luː · lə · ɹoːd]: to study
- L. goxiwall ['gak · sə · wɔɪ]: to make fun of
- M. cengastumine [sɪn · ˈgæs · tə · maɪn]: something that's narrow
- N. poncrlader ['pʰɑŋ · kɹə · leɪ · rə]: a medical device that measures blood pressure
- O. bowertilldew [,ba · wə · tʰɪl · duː]: a young, hard worker
- P. chocksaeheble ['tʃak · sə · hi · bəɪ]: something thrown
- Q. whoagsafflerick [woːg · ˈzæ · fəɪ · ɹɪk]: a writer of horror novels
- R. tobecraydrub [tʰoː · bə · ˈkɹeɪ · dɹəb]: someone who doesn't take something seriously

Definitions Requiring Words

- S. the wad of hair removed when cleaning a hairbrush: POAPdahl ['pʰoːp · daɪ]
- T. the grease that accumulates on top of a hot pizza: eech [iːtʃ]
- U. an unexpected cool breeze on a sultry day: hoeLAHLT [hoː · ˈlaɪt]
- V. the feeling experienced by a death-row inmate after being pardoned or exonerated: toolt [tʰuːɪt]
- W. a feeling of extreme disappointment: fahrch [faɪtʃ]
- X. the feeling of being woken in the middle of the night by a strange noise: peeMINT [pʰiː · ˈmɪnt]
- Y. the name of the remotest island on earth: KEEroon [kʰiː · ɹuːn]

Images Requiring Words

- Z.  BRAHbluht ['bɹə · blətʃ]
- a.  PAYyahn ['pʰeɪ · jan]
- b.  kahrch [kʰaɪtʃ]
- c.  kazMAYshun [kæz · ˈmeɪ · ʃən]
- d.  SPRAYlur ['spɹeɪ · ləɪ]
- e.  MEHzolit ['me · zoː · ɪtʃ]
- f.  SKOWpuh ['skoː · pə]
- g.  spihNAHtik [spɪ · ˈna · rɪk]

Participant Data Sheet

Participant #: 115

Age: 19

Sex: M

Linguistic Background: native speaker, English; beginning learner: Spanish, Latin

Question ID

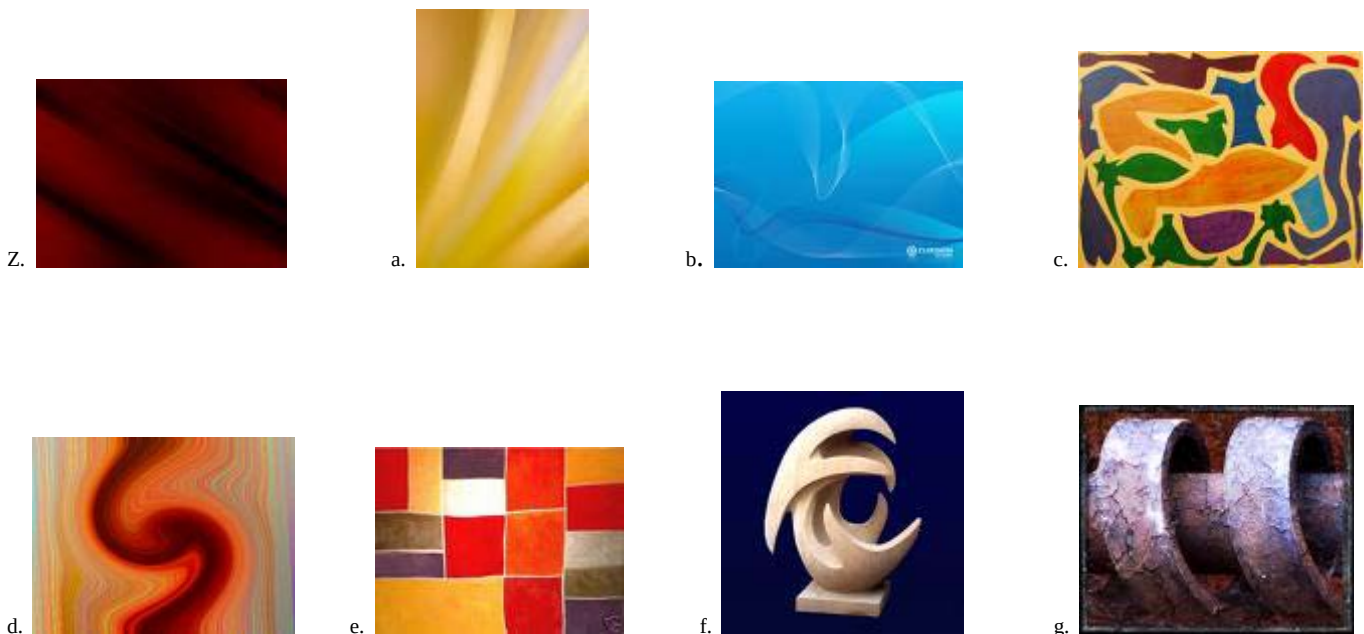
Words Requiring Definitions

- A. smitch [smitʃ]: a person upset by the comment of another
- B. jube [dʒuˈb]: a role playing video game
- C. keeve [kʰiv]: a description of the sound somebody makes when surprised
- D. wam [wam]: a cooking appliance
- E. easloff ['iːz · lɔf]: a warm fleece jacket
- F. kedid ['kʰɛ · rəd]: a process where you check somebody's body temperature
- G. mavar ['meː · vaɪ]: a bland food made of eggs, cream and milk
- H. eyeyu ['aː · juː]: a technique used in writing research papers
- I. narathooze ['næ · ɹə · θuːz]: a legal document detailing real estate law or a housing agreement
- J. phillontave ['fɪ · lən · tʰeɪv]: a method personal trainers use to prepare athletes for their sports
- K. lulurode ['luː · lə · ɹoːd]: a time of day between one and four o'clock
- L. goxiwall ['gak · sə · wɔɪ]: a non-sense statement
- M. cengastumine [sɪn · ˈgæs · tə · maɪn]: a medical procedure where scans of the internal organs are made
- N. poncrilader ['pʰɑŋ · kɹə · leɪ · ræ]: a device used by a neurologist to measure the amount of electricity in you
- O. bowertilldew [ba · wə · tʰɪl · duː]: an agreement between two or more people to not be sworn to secrecy
- P. chocksabeeble ['tʃak · sə · hi · bəɪ]: an emotion of anger or disgust
- Q. whoagsafflerick [woːg · ˈzæ · fəɪ · ɹɪk]: kind or concerned
- R. tobecraydrub [tʰoː · bə · ˈkreɪ · dɹəb]: a special room in a house for relaxation

Definitions Requiring Words

- S. the wad of hair removed when cleaning a hairbrush:
- T. the grease that accumulates on top of a hot pizza:
- U. an unexpected cool breeze on a sultry day:
- V. the feeling experienced by a death-row inmate after being pardoned or exonerated:
- W. a feeling of extreme disappointment:
- X. the feeling of being woken in the middle of the night by a strange noise:
- Y. the name of the remotest island on earth:

Images Requiring Words



Participant Data Sheet

Participant #: 116

Age: 19

Sex: M

Linguistic Background: native speaker: Russian, English; beginning learner: French, Spanish, Hebrew

Question ID

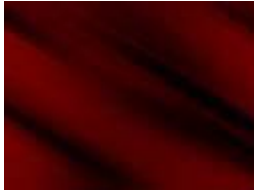
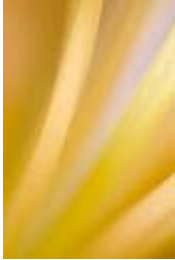
Words Requiring Definitions

- A. smitch [smitʃ]: a painful boil
- B. jube [dʒuˈb]: a chewy candy like a gummy bear, cone shaped
- C. keeve [kʰiv]: the start of the descent on a rollercoaster
- D. wam [wam]: a dispute
- E. easloff ['iːz · lɔf]: a tool, like a shovel and a crowbar
- F. kedid ['kʰɛ · rəd]: fenced in
- G. mavar ['meː · vaɪ]: a dark, melancholy individual
- H. eyeyu ['aː · juː]: a small dolphin
- I. narathooze ['næ · ɹə · θuːz]: a knot that can't be untied
- J. phillontave ['fɪ · lən · tʰeɪv]: a crazy straw (with lots of loops)
- K. lulurode ['luː · lə · ɹoːd]: a carnival ride, like a merry-go-round
- L. goxiwall ['gak · sə · wɔɪ]: an ogre
- M. cengastumine [sɪn · ɡæs · tə · maɪn]: the calm after a storm
- N. poncrilader ['pʰɑŋ · kɹə · leː · rə]: transfers files from a recorder to a television
- O. bowertilldew [ba · wə · tʰɪɪ · duː]: like a touchdown or homerun in some unidentified sport
- P. chocksaeheble ['tʃak · sə · hi · bəɪ]: a big pile of food
- Q. whoagsafflerick [woːg · ˈzæ · fəɪ · ɹɪk]: a cry of exasperation or excitement
- R. tobecraydrub [tʰoː · bə · ˈkɹeɪ · dɹəb]: a compartment for holding birds

Definitions Requiring Words

- S. the wad of hair removed when cleaning a hairbrush: LAMfort ['læm · fɔɪt]
- T. the grease that accumulates on top of a hot pizza: EEyul ['iː · jɪɪ]
- U. an unexpected cool breeze on a sultry day: SPRINTree ['sprɪn · tɹiː]
- V. the feeling experienced by a death-row inmate after being pardoned or exonerated: BLAYfurmint ['bleɪ · fə · mɪnt]
- W. a feeling of extreme disappointment: growd [ɡɹoːd]
- X. the feeling of being woken in the middle of the night by a strange noise: drale [dɹeɪɪ]
- Y. the name of the remotest island on earth: PIHfruh ['pʰɪ · frə]

Images Requiring Words

- Z.  moze [moːz]
- a.  kabe [kʰeɪb]
- b.  pluhKORreeyus [plə · ˈkʰɔ · ɹiː · əs]
- c.  GLEENsiv ['gliːn · sɪv]
- d.  CHAHprus ['tʃap · ɹəs]
- e.  wahmBASTik [wam · ˈbæs · tɪk]
- f.  buhFAYZD [bə · ˈfeɪzd]
- g.  ROHped ['ɹoː · pɛd]

APPENDIX B
COMPLETE QUESTION DATA SHEETS

Question Data Sheet

Words Requiring Definitions

Question ID: A. smitch [smɪtʃ]

#1 a place in a wall	#61 to mix something up
#2 something you can do with your mouth	#62 a tool like a hammer or a wrench
#3 a stain	#63 a speck
#4 a pinch of something you cook with	#64 black
#5 to scratch	#65 to flash a smile
#6 mean (not nice)	#66 a scratch
#7 an expression of disappointment like “aw shucks!”	#67 a thief
#8 to be comfortable with something	#68 clapping
#9 the sound of a shoe hitting a nail into a board	#69 smelly
#10 something that injures a person	#70 to go fetch something
#11 a tunneling animal like a groundhog	#71 to quiet somebody
#12 to steal a kiss	#72 a small animal, like a squirrel
#13 something spread on bread	#73 to be sarcastic
#14 to like something	#74 to snatch
#15 when somebody treats you in a manner that causes you to feel insecure	#75 a limping way of walking
#16 to smack or smother	#76 a bat or racquet
#17 a little bit of something	#77 the little ball of lint in the pocket
#18 a glove used in sports, like a baseball mitt	#78 a car part, like a piston
#19 a smoothie	#79 a briar patch
#20 a traitor	#80 to gain access to something
#21 a quilting term	#81 soot
#22 a short, bulky guy	#82 a mark, maybe on the wall
#23 a liar	#83 something you write with
#24 a little bit	#84 a short race of people
#25 a small amount	#85 something subtracted from something else
#26 a smear of color on a wall	#86 a studious person
#27 a measurement for a perfect fit	#87 digging holes
#28 a small quantity of something	#88 the skin of a broken branch
#29 small	#89 a stain
#30 a small quantity of something	#90 bitter tasting
#31 small	#91 a mean person
#32 a muddy substance	#92 a smudge
#33 to tell on someone	#93 an accomplice
#34 a small portion of something	#94 to mark on the wall
#35 a person you don’t like very much	#95 to cut off (lose) a toenail while stumping it
#36 a cracker or something crunchy	#96 somebody who makes art
#37 a tack	#97 an interruption
#38 a tool for fletching	#98 a type of grittiness
#39 a kiss	#99 to snatch
#40 sneaky	#100 a hard hit in football, like spearing somebody
#41 a small animal like a mouse	#101 a pocket watch
#42 to scribble	#102 to ogle over something
#43 a crack, like in a sidewalk	#103 an amount of food you consume
#44 something hidden	#104 something small
#45 to sew rapidly	#105 something gross or smutty
#46 to fall	#106 a small spot
#47 a small quantity	#107 a very small adult person, like an Irish
#48 poster board	#108 a small game bird, similar to a quail
#49 untrustworthy	#109 smug
#50 sly	#110 a tree branch
#51 to stain something	#111 a short trip
#52 a fleeting feeling	#112 a witty person
#53 a tool used in a game	#113 a stain on a garment
#54 a pet toy for a cat	#114 to steal
#55 to cloister	#115 a person upset by the comment of another
#56 a little bit of something	#116 a painful boil
#57 a nerdy person without a lot of friends	
#58 a baseball	
#59 a small amount of something	
#60 a small smudge	

Question Data Sheet

Words Requiring Definitions

Question ID: B. jube [dʒuˈb]

#1	a hard, strawberry candy	#60	something attention-grabbing
#2	a fat tube	#61	something lame-o
#3	a bug like a beetle	#62	a round, fruity candy
#4	an orb-shaped thing	#63	a blob of something
#5	to con	#64	vanilla coke
#6	funny	#65	a tube
#7	a ball-shaped thing, like a toy	#66	a tube in a 'J'-form
#8	a bottle of something	#67	to run
#9	a noise a baby would make	#68	a bathtub
#10	to drink something sweet	#69	jelly
#11	an ideology, partly religious and partly philosophical	#70	a greeting
#12	to talk nonsense	#71	a big, round rock
#13	a Caribbean style of music	#72	a gathering place, maybe for worship
#14	a religion, like Islam	#73	a liquid, like oil
#15	a very small particle that sparkles	#74	a glob of something
#16	an exclamation like 'darn!'	#75	a small ball
#17	a sweet, seedless fruit	#76	a fast dance move that involves shaking the hips
#18	a pejorative term for a person, a dork	#77	a shade of purple seen after the sun sets
#19	something to scuba dive in	#78	a brick or a cinderblock
#20	a gentile	#79	a jelly-type substance
#21	a round fruit like a grape or an avocado	#80	an insult to lower class guys
#22	jambalaya-type food	#81	glue
#23	a grease monkey	#82	a nickname for a fat friend
#24	a color like purple	#83	a ball
#25	a quantity expression for a group of things, like a dozen	#84	a goofy person
#26	a new type of liquid makeup used to make you look younger	#85	a general spherical object
#27	an instrument like a trumpet	#86	a new person on campus
#28	an oblong, round shape	#87	a shopping cart
#29	a stone	#88	toe jam
#30	a stocky, little guy	#89	a fruit, like an orange
#31	to stop	#90	a gelatinous substance
#32	a jar	#91	to dodge
#33	a fast dance step	#92	excitement
#34	a round bouncing object	#93	a sphere
#35	a ball you use in a game	#94	a soup bowl
#36	a small shack or rental property	#95	to fall going up the stairs
#37	a fruit spread	#96	a spherical shape
#38	an animal, like a frog	#97	a round shape
#39	a duplicate	#98	a clear fluid
#40	greasy	#99	red
#41	a round kind of candy, like a jelly bean	#100	a type of music, a mix of hard rock and a little rap
#42	a type of bouncy ball	#101	a big, flat screen TV
#43	a boring person	#102	a fast dance, like a jig
#44	a hair color like brownish-red	#103	a grass that only grows in the winter
#45	a type of candy, shaped like a jelly bean	#104	a natural fruit drink
#46	to jump	#105	a chamber pot
#47	a wind instrument, like the clarinet	#106	like a light bulb
#48	a cut	#107	a tree with drooping branches
#49	a mechanic's tool	#108	a ball shaped object
#50	to take	#109	a round bug with dots
#51	a candy like a jelly bean	#110	a brightly colored, plastic toy consisting of folding pipes that can be formed into different shapes
#52	a shade of yellow	#111	a color between blue and green
#53	movement to the left	#112	a shade of blue
#54	a hand mixer	#113	an inner tube that kids play with
#55	to throw	#114	to massage
#56	a ball	#115	a role playing video game
#57	a fast dance with a lot of weird motions	#116	a chewy candy like a gummy bear, cone shaped
#58	happy		
#59	footwear for the rain		

Question Data Sheet

Words Requiring Definitions

Question ID: C. keeve [k^hiv]

#1 a small damp place in a cave	#60 the manner in which two things fit together
#2 to encrust something	#61 a manner of working with wood
#3 a hole	#62 a baby toy
#4 a trench	#63 a green fruit like a lime (NOT a kiwi)
#5 to retain	#64 to jump
#6 stupid	#65 a weapon, like a dagger
#7 a tool like a saw	#66 leaves in the wind
#8 a state of being perturbed	#67 to dig
#9 the action of a bee striking a car	#68 a telephone
#10 a tool to open a can	#69 mysterious
#11 a hammer-like tool	#70 an unpleasant person
#12 a Russian city	#71 a sudden movement
#13 to push something over	#72 a computerized tool for making various types of calculations
#14 an exotic, sweet, green fruit	#73 a green vegetable, like a pea
#15 a tool for weaving	#74 a swinging motion
#16 to direct somebody in a precise direction	#75 a type of hearty soup
#17 a hole you dig in the ground	#76 a glass dish for storing cakes
#18 a valuable keepsake	#77 the little area where you can slide a pen inside the ring of a spiral notebook
#19 to give	#78 a soft seat, like an airplane seat
#20 a scoundrel	#79 a cutting motion
#21 a Russian dialect	#80 a special kind of knife
#22 a bright orange fruit	#81 a basket
#23 a type of bread	#82 a cough or an illness
#24 a narrow passageway	#83 a storage place
#25 a quantity of fruit	#84 a mound
#26 a type of martini that is a spinoff of the cosmopolitan	#85 to change
#27 a collision between objects	#86 the guy who takes out the trash
#28 to push something out of the way	#87 to steal
#29 to keel over	#88 a pinkish beige color
#30 to cave in, collapse	#89 a straight line
#31 something sharp, pointed	#90 a large, jagged, free-standing rock
#32 a small opening	#91 to cut
#33 a spicy chicken dish	#92 a necessity
#34 a small crevice in a rock wall	#93 to sink
#35 a type of bread, like a bagel	#94 to pry somebody for help they shouldn't be giving you
#36 to fall or bust	#95 to throw a hacky sack
#37 to fall down	#96 to make something out of wood
#38 a small kingdom	#97 a small, primitive dwelling
#39 a jacket	#98 a green fruit, shaped like a banana but smaller
#40 a little bit of something	#99 an atoll
#41 a type of difficult, precise dive performed off a diving board	#100 a lie
#42 to cut or open something up	#101 a long paddle for a boat
#43 to jump off of something or to dive	#102 to steal something
#44 a bath sponge	#103 the speed of sound
#45 a type of small house plant	#104 to do something stupid
#46 an SUV or a jeep	#105 something that really annoys somebody
#47 a small cabinet	#106 a chandelier in a breakfast nook
#48 to overburden yourself	#107 to antagonize somebody to the point of an altercation
#49 a peninsula	#108 rowing or steering a ship
#50 to think about	#109 a crevice in the earth
#51 to break something in half	#110 the bank of a river
#52 a canoe	#111 the look you make when you have little hope of success
#53 to hide away treasure as a kid	#112 to freak out
#54 a vase for flowers	#113 to procrastinate so much you are about to miss your deadline
#55 a knife	#114 an intelligent person
#56 a slick surface	#115 a description of the sound somebody makes when surprised
#57 a bland food that poor people would eat	#116 the start of the descent on a rollercoaster
#58 a robot	
#59 a small branch off a river	

Question Data Sheet

Words Requiring Definitions

Question ID: D. wam [wam]

#1	a pen with a dangling object attached	#59	a type of wide-brimmed hat
#2	denotes an impact	#60	to steal
#3	a long, narrow stick	#61	your home
#4	Asian food	#62	spicy chicken
#5	a type of gin	#63	a baseball bat
#6	mother	#64	to throw
#7	a mythical, silly animal	#65	pertaining to a religious ritual
#8	an open place	#66	a splash
#9	the action of a blade spinning	#67	to listen
#10	a sound to describe the impact of crashing onto the floor	#68	to slap
#11	a type of bird, large and pink	#69	a type of fruity gum
#12	a small, brown, arboreal animal	#70	a small animal, like a domesticated dog
#13	the sound a trombone makes	#71	describes a moaning noise
#14	a spicy, Latino food	#72	a wooden sailboat
#15	a furry, long-haired, arboreal animal	#73	something woven, like a basket or quilt
#16	to completely relax on the beach	#74	something that's wet
#17	a wind instrument in a marching band	#75	a shouting way of speaking
#18	a medium-sized animal with a short tail that lives in the jungle	#76	a word game
#19	swimming	#77	the chair that gum is stuck under
#20	a wig	#78	reminiscent of eggs
#21	Asian food	#79	to wade through water
#22	flying squirrel	#80	a chair that sits very close to the ground
#23	an island	#81	a sack
#24	a big, wide-open space	#82	deserted area
#25	stormy weather	#83	to do something fast
#26	something warm and fuzzy that wraps around you	#84	an awkward looking plant, almost a root, with pink flowers
#27	a metallic pot	#85	to strike
#28	an object you would sit in	#86	to strike
#29	silent	#87	to bounce
#30	something wound up	#88	muddy black ice
#31	a Chinese soup	#89	a wild animal, like a mountain lion
#32	represents an explosion	#90	a type of candy, chewy and sweet
#33	the sound of an impact	#91	a large, black dog
#34	a wind instrument, like a didgeridoo	#92	to wonder or worry
#35	a short, flat house	#93	to hit
#36	to complain	#94	when you hit two pens together really loud
#37	to be at peace	#95	to complain
#38	an animal like a bat	#96	to hit something hard
#39	to watch	#97	a rough, sturdy, synthetic material
#40	a lot of something	#98	something broad and concave, like a crater
#41	a colorful, African shirt	#99	a creek
#42	an echoing sound	#100	a long, low-pitched, slow noise with a sudden high-pitched part
#43	soft or fluffy, like a blanket	#101	a headband
#44	a big drum or other percussion instrument	#102	to be tired
#45	a Chinese noodle	#103	a material that a baseball bat is made from
#46	a fruity candy	#104	something crumpled up, like paper
#47	a thick, reddish-brown sauce	#105	a thin, water-based soup
#48	chopsticks	#106	a rat
#49	exotic cuisine	#107	a bat (animal)
#50	confused	#108	A food like rice and shrimp or other seafood
#51	to cuddle up with a blanket	#109	to be deeply saddened
#52	a skinny person (lady)	#110	a fuzzy blanket
#53	balance	#111	two armloads of something
#54	to throw a punch	#112	bored (not interested)
#55	a type of currency	#113	comfortable, soothing
#56	to make a noise	#114	motherly
#57	an exclamation of astonishment	#115	a cooking appliance
#58	big	#116	a dispute

Question Data Sheet

Words Requiring Definitions

Question ID: E. easloff ['iːz · lɒf]

#1	a Jewish name	#59	to cut something short
#2	a Norwegian food	#60	to remove something
#3	a food with something melted and oozing on top	#61	an insult
#4	a Hebrew person	#62	a type of misbehavior
#5	an eastern religion	#63	to ski
#6	a type of food, like rice	#64	high
#7	to shovel something	#65	a plant like oleander
#8	a surface to paint or draw on	#66	pertaining to ease and flow
#9	the action of a saw sawing through a metal chain	#67	to eat
#10	a tropical island	#68	a powder room
#11	type of food consisting of meat and sauce	#69	an apartment
#12	a small donkey	#70	a giraffe
#13	easily achieved	#71	a plain, wooden chair
#14	a greeting	#72	a soup with noodles, maybe homemade
#15	a person who likes to choose the easy way out	#73	walking
#16	something difficult to manage	#74	something that's high up, like the top floor
#17	a library, a place of peace	#75	to pray
#18	a muscular, tall person	#76	to flick water off of a surface
#19	something soft, like a pillow	#77	a person who runs around the block with no shoes
#20	a pulley	#78	a spill
#21	having to do with roads, highways, bridges	#79	pertaining to a castle
#22	an Arab man	#80	a floor tile
#23	a war novel	#81	running
#24	a feline-type animal	#82	to stop or relent
#25	a cart to carry things	#83	a black sports car
#26	a defense attorney who hasn't done his homework	#84	to skip fluidly
#27	a mountainous location	#85	a charismatic way of acting
#28	a feeling of happiness	#86	a slacker
#29	to begin	#87	to rent, maybe a movie
#30	a big, Scandinavian man	#88	a suicidal person
#31	something smooth, relaxed	#89	grotesque
#32	access to a highway	#90	a type of bird with a long tail which is brightly colored
#33	a country like those in Tolkien's "Lord of the Rings"	#91	a cathedral-type church
#34	a Germanic language	#92	to calm down
#35	a religious holiday	#93	a nice person
#36	an internal organ	#94	to cut somebody off when driving by accident
#37	a big desk	#95	to perish
#38	a sinister person	#96	a ladder
#39	quickly	#97	a sleeping arrangement involving two or more palates
#40	a deceptive person	#98	a type of noodle, like linguini
#41	a sly person	#99	a bastion
#42	a tool for spreading something	#100	a valley
#43	a holiday celebrating the harvest	#101	a slacker
#44	an East Indian food, like curry or rice	#102	relaxed
#45	a wooden ladder	#103	a cushion brought to sporting events to sit on
#46	a rural town	#104	to spy on somebody
#47	an area like an attic for storing things	#105	somebody who's lazy
#48	an elf	#106	a giant wall, like on the Parthenon
#49	a ladder	#107	to be lazy
#50	a backyard deck	#108	an expression of jubilation
#51	to purposefully not do something	#109	a winter tree found in Canada that can be tall and is flowering
#52	a kite	#110	a fruit-flavored, strong alcoholic drink
#53	when a plane pulls back prior to takeoff	#111	a dual concept of both a journey and a destination
#54	a tool for cutting things in two like a saw	#112	tired
#55	a principle or standard	#113	a tool used to measure distance
#56	someone foreign who likes to read	#114	to make something pretty
#57	a hearty sandwich with a dressing on it	#115	a warm fleece jacket
#58	a couch	#116	a tool, like a shovel and a crowbar

Question Data Sheet

Words Requiring Definitions

Question ID: F. kedid ['kʰɛ · rəd]

#1 a way of kicking a ball	#59 a hard ball between the size of a softball and a basketball
#2 beaten into shape	#60 a manner of striking something
#3 an adjective meaning 'adjacent to'	#61 a type of bucket or container
#4 to catch things, like fish	#62 to throw something away
#5 a kenning	#63 skittish
#6 hurt, injured	#64 a blanket
#7 a type of sport, like soccer	#65 twisted together in a pile
#8 the feeling experienced upon seeing somebody you haven't seen in a long time	#66 to hit something
#9 the action of a small tire rolling over a gravel surface	#67 popcorn
#10 something to store food inside the refrigerator	#68 something to cook in, like a pan
#11 a cabinet	#69 a doll
#12 a secret	#70 to leave
#13 tangled	#71 something that has been shortened
#14 to dislike or badmouth	#72 an athletic event similar to hopping and jumping
#15 short and to the point	#73 a sport with balls
#16 something cool or swell	#74 something that's riveted or studded
#17 a dog kennel	#75 a how-to book
#18 to dust something	#76 mixed up words or thoughts
#19 a cowboy hat	#77 the scent left after burnt popcorn
#20 cantered	#78 cold
#21 food cooked just right, between raw and burned	#79 a fruit gathering action
#22 describes a drunk person	#80 a door
#23 something stamped	#81 a spoon
#24 to be in a hurry	#82 a long, orange fruit or vegetable, like a banana or a cucumber
#25 to gather things together	#83 a spice, like garlic
#26 an item that has fallen into the possession of a dog and is destroyed	#84 swimming
#27 to scurry away	#85 taken aback
#28 to be shorted on something	#86 an aggressive person
#29 close	#87 to catch
#30 a completed activity	#88 to talk fast
#31 something sharp, pointed	#89 to be able
#32 something soft, like a pillow	#90 to become angry with someone
#33 a type of lettuce, like kale	#91 honest
#34 to terminate a game early when a probable outcome has been determined	#92 flawed
#35 somebody who talks a lot and is loud	#93 something that repeats
#36 to chat	#94 to be shy around your parents but outgoing around everyone else
#37 to find something	#95 to declaw a cat
#38 an introverted person	#96 something notched
#39 to cook	#97 a state of moribund flesh
#40 to joke around with someone	#98 an emotion of feeling mild coercion
#41 a bright color like orange or red	#99 a mule
#42 a type of dry dog food, like kibble	#100 a throw to home plate from the outfield
#43 bent, folded or wrinkled	#101 a big cooking pot, like a cauldron
#44 something that has an uneven surface	#102 to put something away for safe keeping or to wrap something up
#45 to truncate something	#103 a leather shoe with a rubber sole and Velcro with some cushioning inside
#46 to kick	#104 to obtain
#47 to be brusque	#105 somebody who has a good head on his shoulders
#48 to cut somebody off in a car	#106 to put the top on a pot
#49 a type of wheat	#107 to be reserved
#50 excited	#108 a plant, like a cabbage or a lettuce
#51 incomprehensible	#109 cross stitching
#52 a shy person	#110 chosen, picked out
#53 when you're in the outfield and you try to get the ball but miss it	#111 to bring together
#54 a type of bed, low to the ground and boxy	#112 worried
#55 close together	#113 stacked up, one on another
#56 skipped	#114 funny
#57 a type of shirt or blouse	#115 a process where you check somebody's body temperature
#58 to do very well at something	#116 fenced in

Question Data Sheet

Words Requiring Definitions

Question ID: G. mavar ['me^j · vaɪ]

#1 a pirate's ship	#59 to destroy something
#2 a description of scenery in a painting	#60 a large structure, maybe for housing
#3 an old wooden boat like those of Columbus' day	#61 pertaining to fabric
#4 a bright, sunny time of year	#62 something on a ship, maybe for navigation
#5 a vineyard	#63 to travel
#6 smart, intelligent	#64 a wire
#7 a type of minivan	#65 a big ship
#8 something handmade	#66 to push something
#9 the action of a (brake) pad grinding up against metal	#67 a ship, like a yacht
#10 a utensil to prepare food	#68 grass
#11 (turquoise) jewelry	#69 escargot
#12 a yellow cake	#70 a fruit like an orange
#13 a family member name, like an aunt	#71 a small, ground-dwelling mammal
#14 a color close to purple	#72 sharp medical tools
#15 a mythological or extinct winged creature	#73 a food like chocolate
#16 a box of candy	#74 an old boat with sails
#17 a residential street	#75 a big, automatic gun
#18 a large wooden boat	#76 a veterinary office or a kennel
#19 an insect like a moth	#77 a line of hair care products
#20 a nave	#78 a wing(s)
#21 a color like mauve	#79 social gathering where dancing might occur
#22 a car part	#80 a scientific measurement of electricity
#23 a friend	#81 a box
#24 reminiscent of a Mexican	#82 a big, vicious, hairy animal
#25 a group of things	#83 a type of yellow flower
#26 a type of rose that has the fragrance of lavender	#84 a large, Viking-like sailboat
#27 a military airplane	#85 absent minded
#28 a small, southern town	#86 a car salesman
#29 work	#87 a type of tree, like a walnut
#30 an agenda	#88 a flavor of ice cream: chocolate, toffee and coffee
#31 something comfortable, soft	#89 stormy weather
#32 an exceptional person	#90 a color between light blue and lavender
#33 a fencing sword	#91 to think
#34 arthritis medication	#92 angry
#35 a journey	#93 chaos
#36 a hot color, like orange or yellow	#94 a single blade razor
#37 to cut something	#95 the first voyage on a new aircraft
#38 an edgy, countercultural person	#96 to joke with your students
#39 money (in general)	#97 a small mammal from Australia
#40 a styling gel for hair	#98 a manufactured milk substance
#41 a war helmet	#99 a coat of arms
#42 spreadable food in general, like PB&J or Vegemite	#100 curious
#43 a quantity of water	#101 a hammer
#44 a king or a ruler	#102 pretty
#45 a small, green, ringed planet	#103 a cleaning agent to remove rust
#46 to dance	#104 ice cream
#47 a technical piece of equipment, like with a telescope	#105 a long, epic voyage
#48 a warlock	#106 a spell making wood come alive
#49 a brand of makeup	#107 a bullfight
#50 complex	#108 a military job, maybe a cavalryman
#51 something very far away	#109 a variety of tobacco, not hallucinogenic
#52 a barge	#110 a manmade material that comes in sheets
#53 the process of applying a light skin of color to a canvas	#111 {no response}
#54 a type of cornstarch	#112 tall
#55 an early, metal ship	#113 a kind of plastic material
#56 an accident	#114 strong
#57 a profession available to many which is liberal arts-based	#115 a bland food made of eggs, cream and milk
#58 a very bad person	#116 a dark, melancholy individual

Question Data Sheet

Words Requiring Definitions

Question ID: H. eyeyu ['a^j · ju^w]

#1 a dog-like animal with a bushy tail and a long nose	#61 a general place where kids hang out
#2 a description of a place	#62 a fish or some other aquatic creature
#3 a designation for one's ancestor	#63 a greeting
#4 a type of collage	#64 bright
#5 a Native American tribe	#65 a fruit like a papaya
#6 to care for something	#66 an iron
#7 a slang form of greeting	#67 the universe
#8 a furry, passive animal	#68 a swing
#9 a muffled sneeze	#69 a board game
#10 an expression to call attention to someone	#70 a purse
#11 a Native American tribe	#71 a country path
#12 a type of beetle	#72 an animal like a bear that walks on two legs
#13 an igloo	#73 an internet research site, like Wikipedia
#14 a long, short, white mammal	#74 a small bird around parks
#15 a tuberous, bitter food plant	#75 a procedure done at the doctor's office, like blood work and scanning
#16 brightness in the morning	#76 a type of building material
#17 a small reptile	#77 a dirty spot on a blanket
#18 a computer program	#78 a pinhole
#19 Chinese seafood	#79 the color of ice when it gets dirty
#20 an igloo	#80 a friendly greeting
#21 a term of kinship	#81 floating
#22 a cough drop	#82 a small, saltwater fish
#23 a jackal-type animal	#83 a highly absorbent material
#24 to hit something	#84 a greeting
#25 an ordinal number	#85 a small percussion instrument
#26 a stimulant added to green tea	#86 an independent person
#27 a small, furry rodent	#87 a car part, maybe a hose
#28 an African animal like a deer, with antlers	#88 a rotten smell in the fridge
#29 to begin	#89 an ending
#30 an inlet on an island	#90 to look at someone puzzled
#31 a worm	#91 a road
#32 a mountain pass	#92 a greeting
#33 a small boat the Eskimos would use	#93 something that's creepy
#34 a hut like those in Africa	#94 a small bird, like a sparrow
#35 a big bird, like an ostrich	#95 to see an old friend
#36 a hot color, like orange or yellow	#96 glasses
#37 a computer accessory, like a USB	#97 a bead currency
#38 to instill fear in somebody	#98 a situation where a problem cannot be resolved even though one person has complete power over all others
#39 to influence	#99 natural light
#40 a fluffy, white animal found in cold climates	#100 to be kicked out of somewhere
#41 a medium-sized, ground-dwelling, brown animal with a short tail	#101 a non-specific measurement of time
#42 a small measurement of volume	#102 a washer
#43 a landform, like a delta	#103 a game played at the beach involving two Frisbees, an umbrella and a wiffle ball
#44 a canoe paddle	#104 to say goodbye
#45 to benefit someone	#105 a pirogue
#46 a sad feeling	#106 reminiscent of a sled dog
#47 a specialized piece of sewing equipment	#107 computer security software
#48 to take a dump	#108 mediocre or so-so
#49 a kitchen tool	#109 a power supply from a computer
#50 a meditation or prayer	#110 a medical device made of metal and plastic for testing, like drawing blood
#51 someone very nice	#111 a small amount
#52 a child's toy	#112 water
#53 underwear for either sex	#113 an exclamation, said in pain or anger
#54 a peaceful, fishing Indian tribe	#114 to take notes
#55 a grey rabbit-like animal	#115 a technique used in writing research papers
#56 a skin irritation	#116 a small dolphin
#57 a tropical, fruity, alcoholic drink	
#58 a trash can	
#59 a small one-person boat	
#60 a type of aquatic animal	

Question Data Sheet

Words Requiring Definitions

Question ID: I. narathooze ['næ · ɹə · θuːz]

#1 a Greek god of sleep	#59 to calm somebody down
#2 nose spray	#60 relates to the esophagus
#3 a dark (evil) character from Greek or Roman mythology	#61 a Neanderthal
#4 a sickness of the nose	#62 a type of lotion, soap or face wash
#5 to become excited over	#63 to read
#6 silly	#64 clothes
#7 a computer program	#65 nose medicine
#8 something that would make you happy, like a movie	#66 to influence someone
#9 the action of a marble travelling along a Styrofoam pipe	#67 the jungle
#10 an expression used in pleasant conversation	#68 a bed
#11 a fairy tale for children, like a fable	#69 Native American clothing
#12 a Greek philosopher	#70 socks
#13 an algorithm	#71 a decongestant
#14 confused	#72 a bubbly, alcoholic beverage
#15 a geographical term for a densely-vegetated place which is hard to cross	#73 to influence someone
#16 nonsense	#74 a category of tall people
#17 an upper respiratory or nasal infection	#75 a state of being numb
#18 a cold medicine, nasal spray	#76 a nose medicine
#19 a parade	#77 homemade nasal spray
#20 happy	#78 therapeutic
#21 the path and shape of a river	#79 a thick grained wood
#22 a medicine for nasal congestion	#80 descriptive of freezing cold
#23 a tree like an elm	#81 driving
#24 a type of cloud composed of distinct ice crystals	#82 a race of tall, hairless people
#25 one's thoughts	#83 an eraser
#26 an emollient for the feet	#84 a prescription sleeping pill
#27 a disease	#85 ignorant
#28 a small passageway	#86 a person who isn't very smart
#29 playful	#87 confusion
#30 to be close in proximity	#88 a dangerous switchback on a cliff
#31 something to do with the nose, smell	#89 brilliant
#32 the deck of a U-boat	#90 somebody who doubts others
#33 an old, grey-headed man	#91 a good wizard
#34 to sneak around and rifle through somebody's things	#92 to reassure
#35 a mental disorder	#93 a siphon
#36 the tube used to help a patient breathe	#94 a product for the nose or sinuses
#37 a story passed down	#95 to drive off a cliff
#38 a feeling of nervousness	#96 a type of medicine for arthritis
#39 a nasal strip	#97 the attempt to measure something's dimensions approximately
#40 a dark color like blue	#98 a sinus condition where the nasal passages are constricted
#41 a disease of the immune system that makes you feel drowsy	#99 a canal
#42 an allergy medicine	#100 a grade of gasoline
#43 an intellectual person	#101 a piece of tubing, like a funnel
#44 a pain reliever, like Icy Hot	#102 a medicine for a skin rash
#45 a medicine for the brain	#103 a drink containing four types of alcohol and fruit juice
#46 a cold (illness)	#104 to educate somebody
#47 an inlet	#105 pertains to being thorough, a person or a thing
#48 a drug to treat ADD	#106 headhunters to be feared
#49 a philosopher	#107 medicine that treats breast cancer
#50 a competition	#108 a pass through a canyon
#51 to daydream	#109 similar to neurons in the brain, they transmit signals
#52 a natural passageway	#110 soporific
#53 a trough in the earth	#111 something unremarkable
#54 to take something from	#112 a large, furry, mammal that is dangerous to people
#55 a sea monster like Loch Ness	#113 a tall people group from a cold climate
#56 to sneeze	#114 to dream
#57 a medical instrument for internal x-rays	#115 a legal document detailing real estate law or a housing agreement
#58 a type of anesthesia	#116 a knot that can't be untied

Question Data Sheet

Words Requiring Definitions

Question ID: J. phillontave ['fɪ · lən · tʰeɪv]

#1 a very cold, small, distant island	#59 a tool like a pick used in archaeology
#2 to something unequally	#60 done in a thorough manner
#3 a group of random objects that you might place into a backpack	#61 something unnecessary
#4 a thief	#62 a shoe, like a loafer
#5 to study human culture, like anthropology	#63 to think
#6 a tropical island	#64 to pull
#7 an unspecified academic discipline	#65 something sticky and gritty
#8 a type of gel used to caulk	#66 to film someone
#9 the action of a stack of papers being shredded	#67 to drop on the ground
#10 something that is artificially heated	#68 duct tape
#11 an ideology	#69 a biologist
#12 a type of sandwich	#70 to run
#13 to pump gas	#71 a light fixture like those you see in the movie theater
#14 a cave	#72 toothpaste
#15 to coerce somebody into doing something	#73 to find something you lost
#16 a bragging, obnoxious person	#74 a videocassette
#17 something done in way that is different than is customary	#75 reading
#18 a bone or cartilage in the nose	#76 a soft, felt-like material
#19 {no response}	#77 the glue for tape or a post-it
#20 dumb (not intelligent)	#78 calm, easy, peaceful
#21 a distinguished and retired person	#79 a thrusting action in ultimate frisbee or lacrosse
#22 a skinny, short person	#80 a musical note in terms of pitch
#23 a gas station	#81 a cloud
#24 a salad	#82 a utensil, like a spatula
#25 a measurement of time	#83 a mechanical pencil
#26 an oriental grass that grows in a marsh	#84 a close relative, like a brother
#27 a type of chemical	#85 abstractly
#28 to exchange something for something else	#86 a fat guy
#29 to dig	#87 a type of glue
#30 a tree like an orange tree	#88 a decorating style that is economical shabby-chic
#31 a mechanical tool used for levering	#89 a rhyme
#32 a big spender	#90 to preach at someone
#33 a smooth, upholstered fabric	#91 a battle
#34 to compose a piece of music	#92 to take in, assimilate
#35 to crave, salivate	#93 a traitor
#36 to cross-examine somebody	#94 to do something you didn't mean to do and you realize it later
#37 a foyer or a hallway	#95 to put your shoes on without tying them
#38 a member of a royal court	#96 a machine used to cut
#39 to study	#97 climbing up a rock
#40 a writing utensil	#98 a spinning top that will influence people's decisions, like a dardle
#41 a packaging material used at the post office	#99 a plateau
#42 a shovel used in the garden	#100 mimicking
#43 a writing pen	#101 a pitcher, like for water
#44 a large, wooden sailboat	#102 a strong glue or cement
#45 to overthrow a ruler	#103 a radar detector used by police and baseball scouts
#46 bad weather with tornadoes	#104 to be confused
#47 an apology	#105 denture glue, like Fixodent
#48 peculiar	#106 sifting flower
#49 a tribal people	#107 a car dent remover
#50 a measuring device, like a beaker	#108 a sport with a ball
#51 to put something on a shelf	#109 a type of caulk
#52 a store that sells staples	#110 a prepared food that is sweet
#53 a piece of hardware that tightens down a lamp fixture	#111 a color like purple
#54 an earth-tone color, like moss	#112 famous
#55 a leather-working tool	#113 to arrange things in space
#56 watching something	#114 open minded
#57 a post-exercise snack	#115 a method personal trainers use to prepare athletes for their sports
#58 somebody smart	#116 a crazy straw (with lots of loops)

Question Data Sheet

Words Requiring Definitions

Question ID: K. lulurode ['luː · lə · ɔːd]

#1 a small, red, fragrant flower	#60 a passageway
#2 an uneven street	#61 something that goes on and on and on
#3 a windy road like in the game Candyland	#62 a flower bed
#4 bright, colorful flowers	#63 pink candy, like bubble gum
#5 a game, maybe a video game	#64 erratic motion
#6 a rock	#65 fresh irises
#7 a little kid	#66 to swerve down the road
#8 a windy, country road	#67 curves, like in a road OR a rose
#9 the action of a flower swaying in the wind	#68 cough medicine
#10 something used to measure distance	#69 a swing dance
#11 a children's game	#70 to hang out
#12 a girl punk band	#71 a field on the plains with tall grass
#13 a small, yellow flower	#72 a disease of the lymph nodes
#14 a fun, happy, comfortable place	#73 a line of people
#15 a toy for children consisting of interlocking hoops	#74 describes a human-powered mode of transportation
#16 flowery, embellished	#75 a small, quaint town
#17 a toy	#76 a piece of play equipment
#18 a pipe snake	#77 a codename for when you break a window
#19 a hippopotamus	#78 twisty
#20 exuberant	#79 a shuffling movement
#21 a child's game	#80 a trick involving flips
#22 a dance	#81 a jump rope
#23 a mountain trail	#82 a female article of clothing, like a long dress
#24 a chocolate candy bar	#83 a chair
#25 something heavy	#84 a vacation
#26 an ingredient in a perfume that Angelina Jolie is working on	#85 laid back
#27 a planet	#86 a speed bump
#28 a fast-paced dance	#87 to run around
#29 an old, WW2-style airplane	#88 to go off on a tangent when speaking
#30 a (small) rope	#89 colorful
#31 a small, purple flower	#90 to evade a question
#32 a crazy woman	#91 a crazy person, like a schizophrenic
#33 a carefree person	#92 joyful
#34 a shortcut on a road trip	#93 whimsical
#35 a colorful, South American vest	#94 the handle on top of a pan
#36 a town on the beach	#95 when you drop a book
#37 a writing pen	#96 a game with a ball
#38 a whimsical animal with a long tail, like a lemur	#97 a soft and frilly fabric
#39 to play	#98 something that is permanently curled
#40 whimsical, girlish, childhood play	#99 a forest
#41 a dance, like the aloha dance	#100 misleading
#42 a mountain range	#101 something solid
#43 a cloth napkin	#102 a purple-pink flower, medium sized
#44 a horse's bit	#103 a vegetarian dish served in the Sears Tower
#45 to bypass something	#104 to go swimming
#46 a large beach	#105 a winding road
#47 a special toy with moving parts	#106 a big roll of paper
#48 ambiguous	#107 a bicycle tire
#49 a tool for weaving	#108 bizarre or confusing
#50 oil	#109 a small, delicate, purple flower, built around a central axis
#51 to meander	#110 a mammal that hops and jumps
#52 a baby blanket	#111 a positive emotion, like overjoyed
#53 a bright purple flower	#112 a small sports car
#54 a vegetable, like a pear, that grows on a vine	#113 an incredibly amazing party
#55 a slingshot	#114 to study
#56 doing something new	#115 a time of day between one and four o'clock
#57 a game that small children play at recess	#116 a carnival ride, like a merry-go-round
#58 a type of toy	
#59 a tribal dance	

Question Data Sheet

Words Requiring Definitions

Question ID: L. goxiwall ['gak · sə · wɔt]

#1 a white, vegetarian, ox-like animal	#60 a sturdy rock
#2 a type of goggles	#61 a weird (drinking) bar
#3 something without coherence, nonsensical	#62 something old
#4 a mean person	#63 to look at something
#5 a James Joyce- inspired word	#64 blocked in
#6 a small, green- yellow, flowering plant	#65 large, powerful castles, maybe with gargoyles
#7 a weird town in a valley	#66 to make a weird noise
#8 a circus freak, maybe an animal-man	#67 an old castle
#9 putty used for sealing up cracks	#68 a cotton ball
#10 a barrier used to protect the eyes	#69 a ghost
#11 a wolf-like animal	#70 to be lazy
#12 an old Nordic hero	#71 a stained glass window
#13 a mechanical clock	#72 a tool used around the yard to dig things up or break up soil
#14 reminiscent of Halloween, scary ghosts	#73 to freak out
#15 a ferocious animal the size of a raccoon, arboreal, nocturnal, and carnivorous	#74 the action of breaking something
#16 pushing for a result	#75 vomiting
#17 a long sword	#76 something that gets stuck to the bottom of your shoe
#18 a type of tropical bird	#77 the act of restoring the heel of a worn-down sandal
#19 {no response}	#78 a pinwheel or a windmill
#20 smacked	#79 a traditional way in which beer is consumed
#21 describes the architecture of a castle	#80 an engine part
#22 a type of waterfowl	#81 to stop
#23 a medium-sized, dog-like animal	#82 a medicine to help the elderly with their hearts
#24 a big, tropical bird	#83 a green spherical vegetable
#25 a thatched roof	#84 a short woodland creature, like a koala
#26 a seasoning salt for cooking shellfish	#85 insane
#27 a parrot	#86 to drive a car
#28 a mistake you would want to cover up	#87 a type of caulk
#29 an alien monster	#88 a person who stares a lot
#30 a short walk	#89 tactile or hands on
#31 someone raspy in voice	#90 to hit somebody with a bat
#32 an inland sea passageway	#91 a bird, like a gull
#33 Spanish-type architecture	#92 scared, anxious
#34 supports a building like a flying buttress	#93 thick
#35 to move laterally across a rock face	#94 pure mayhem
#36 a small plant or shrub	#95 to forget your name
#37 a type of knife	#96 a putty to form molds for repairs
#38 a Scottish alcoholic beverage	#97 an anatomical part having to do with the circulatory system
#39 to search	#98 a greenish orange color
#40 a disease of the skin, a rash	#99 an axe
#41 a surgical procedure	#100 an odd, diagonal pattern, like with tiles
#42 a bird, like a seagull	#101 a flying animal, not necessarily a bird, dangerous to people
#43 an extraterrestrial being	#102 a troll or goblin
#44 floor sealant	#103 a putty substance used to fix leaks
#45 to saunter	#104 to throw
#46 a movie monster	#105 a food like sausages and sauerkraut
#47 a fantastical Tolkien character	#106 a dance like a high step but with more formality
#48 to screw up majorly	#107 caulk for floor tile
#49 a type of adhesive	#108 an ugly sea creature with tentacles
#50 a strategic maneuver	#109 a spicy chili from Spain
#51 to glue something together	#110 an exotic animal, small and grey, harmless to people, maybe found in Australia
#52 a reference book	#111 a beast of the forest, like a small cat, not dangerous to people
#53 a last train stop village before reaching the big city	#112 dark (evil)
#54 an animal with scales and feet, like an iguana	#113 a young, mischievous, irresponsible, problem-solving child
#55 a computer part, something technical	#114 to make fun of
#56 a type of slime or sludge	#115 a non-sense statement
#57 a small herbivore animal hunted for its meat	#116 an ogre
#58 a big, mean monster, like Grendel	
#59 a construction tool for measuring	

Question Data Sheet

Words Requiring Definitions

Question ID: M. cengastumine [sɪn · 'gæs · tə · maɪn]

#1 a skin disease of the legs	#59 to confuse or stump
#2 a gas chamber in the Holocaust	#60 a disease where sweating is one of the symptoms
#3 a replication, mimesis or parroting	#61 a way of destroying something
#4 something having to do with warfare and trenches	#62 two things that are alike
#5 oil refining	#63 to scratch
#6 an explosion	#64 clouds
#7 a poisonous chemical	#65 a strong, alcoholic drink
#8 something dangerous, a poisonous murder weapon	#66 to write something
#9 a chemical compound used for making rubber ducks	#67 a human
#10 a situation where you don't take somebody's opinion into consideration	#68 a water heater
#11 to take a meeting	#69 an extinct spider
#12 something poisonous, like asbestos	#70 to think deeply
#13 chemical explosion	#71 an 18 wheeler
#14 a stomach disease	#72 a medicine that treats abdominal pain
#15 to poison with an inhalant	#73 to experiment with chemicals
#16 resolute	#74 a cavern
#17 a tank or related weapon	#75 to think
#18 to ignore something	#76 something majestic or royal
#19 a stomach ache	#77 the grooves left in hardwood that comes from heavy furniture
#20 odd	#78 something synthetic or false
#21 something's chemical composition	#79 a type of valve in submarines
#22 an element from the periodic table	#80 a window with one large pane
#23 a disease of the stomach	#81 a shell
#24 a type of car	#82 a saw that a surgeon would use
#25 a stomach disease	#83 an artificial poisonous chemical
#26 a city in Croatia that one would enjoy visiting	#84 a bright orange mineral
#27 an internal organ	#85 euphoric effect
#28 a place you've never been before	#86 to eat very fast
#29 an illness of the immune system	#87 radioactive chemical
#30 a stomach problem	#88 a smooth water rock
#31 a medicine for the sinuses	#89 an experiment
#32 to break through a surface	#90 a parasitic insect that sucks blood
#33 a synonym	#91 an ore, something that would be mined
#34 a proud, over-the-top person	#92 an epiphany
#35 a family gathering	#93 potent
#36 a poisonous by-product from a factory	#94 when you don't believe somebody because they are a liar
#37 a chemical element	#95 to receive a donation
#38 a filibuster	#96 a type of chalky rock
#39 to do surgery	#97 a chemical product used as a fire retardant
#40 nausea	#98 a manufactured compound in a prescription drug
#41 an acrobat	#99 heraldry
#42 a toxic, chemical compound	#100 a tragedy, like a natural disaster
#43 a blood disease	#101 a disease of the intestines
#44 systematically searching for a treasure	#102 to cut somebody's leg's out from underneath them (figuratively)
#45 carbonation	#103 a type of English bifocal
#46 a large booming noise	#104 believing
#47 a conundrum or a predicament	#105 bloated
#48 to erupt, like a volcano	#106 writing a satire of satires
#49 a volatile chemical	#107 a liquid explosive
#50 to startle or surprise	#108 an unpleasant smell
#51 to talk nonstop	#109 a gasoline additive
#52 an Indian spice	#110 a disease of the intestines
#53 a feeling a man gets when he loses his integrity	#111 a door to door salesman
#54 wise and knowledgeable	#112 bizarre
#55 an ocean trench	#113 a problem with no resolution
#56 an element	#114 something that's narrow
#57 describes something unpleasant in the body, uneasiness	#115 a medical procedure where scans of the internal organs are made
#58 a swordsman	#116 the calm after a storm

Question Data Sheet

Words Requiring Definitions

Question ID: N. poncilader ['p^hɑŋ · kɪə · le^ɪ · rə]

#1 a machine which helps keep the muscles strong	#60 something to punch through concrete
#2 a toy that changes shape, like a Transformer	#61 a machine for time travel
#3 a pacemaker for the pancreas	#62 a measuring device
#4 a car part	#63 a type of motorbike, like a dirt bike
#5 a medical device	#64 to poke
#6 a cooking utensil	#65 a machine that shoots out balls
#7 something squishy or spongy	#66 a technological device for pushing or opening things
#8 a defibrillator	#67 destruction
#9 the next ultimate water sports weapon	#68 tongs
#10 a tool to measure depth	#69 a psychotherapist
#11 a pidgin language	#70 an intelligent person
#12 a medical device to revive people who have passed out	#71 a know-it-all
#13 a fancy stereo	#72 something that makes holes
#14 a car part	#73 a chewy candy
#15 a person obsessed with punctuation	#74 a food like popcorn
#16 a car made into an object of art	#75 to push
#17 a small arms weapon	#76 a pop dance
#18 a portable heart monitor	#77 a large aquatic animal smaller only than the whale
#19 {no response}	#78 a grinder
#20 a gasket	#79 a vegetable juicer
#21 a mathematical device for making calculations	#80 a tiny bone in the human foot
#22 an air pump	#81 a thermostat
#23 a coffee pot	#82 an instrument for finding heart murmurs
#24 a tool used in car repair	#83 a tool, like a hammer
#25 a meter for determining volume	#84 a street sweeper
#26 a flavor of ice cream with cherries and nuts	#85 something to cause absentmindedness
#27 (like) a lump on a log, something sluggish	#86 a copy machine
#28 an intermediary in an argument	#87 an elevator part, maybe a gear
#29 a balloon	#88 a person who decorates animal cakes
#30 the means of achieving an end	#89 a genre
#31 a tool like an awl	#90 a new type of fuel pump for a car
#32 a guy with a tanker truck	#91 a police detective
#33 a coffee pot	#92 to hit somebody
#34 somebody whose mind jumps from one place to another	#93 attentive
#35 a part of a car engine	#94 a car part, like an oil filter
#36 a cleaning utensil	#95 to think about a test you took earlier
#37 a pump for filling up tires	#96 a machine that moves heavy objects
#38 describes a person who tries to be funny but isn't	#97 something to punch holes in metal
#39 exploring new places	#98 a large machine that crushes rocks
#40 a bouncy toy	#99 moak [mo ^w k] (an unidentified word)
#41 a timekeeper	#100 instrument you could use to talk with an animal
#42 a paper hole puncher	#101 a tool to measure distances
#43 an electrical appliance, like a blender or toaster	#102 a switch board or control station
#44 a water purifier	#103 a nightstick carried by the police
#45 an extension cord	#104 a washing machine
#46 to go on a retreat when tired	#105 a noise-making toy with buttons corresponding to different sounds
#47 a concrete mixer	#106 a person who calculates scores
#48 a very fancy car	#107 a torture device, like a dull guillotine
#49 a device for measuring pressure or temperature	#108 churning butter
#50 a grater or bulldozer	#109 an air purifier
#51 earthenware	#110 a steam powered machine that stamps out widgets
#52 a machine that tests air pressure	#111 a legendary hero figure
#53 a savvy move in poker	#112 high school male clothing line aimed at skaters
#54 a part of an engine, like the fuel injectors	#113 a machine that matches up music with images
#55 a hat a ruler might wear	#114 a medical device that measures blood pressure
#56 a machine that hammers	#115 a device used by a neurologist to measure the amount of electricity in you
#57 a device to mix drinks	#116 transfers files from a recorder to a television
#58 a machine that stamps things	
#59 a time keeper, like a watch	

Question Data Sheet

Words Requiring Definitions

Question ID: O. bowertilldew [ˌba · wə · ˈtɪl · duː]

#1 a dance frequently performed at weddings involving jigging the hips	#59 a type of wild plant, like a bush
#2 an article of clothing	#60 a mythical creature greatly revered in a civilization
#3 a balance (scale)	#61 a piece of farming equipment that plants seeds
#4 descriptive of English nobility long ago	#62 an electronic gadget for measuring
#5 to mold or decay	#63 to be mean
#6 a fluffy object, like snow or cotton	#64 a toilet
#7 a happy type of drink, like lemonade	#65 a sailboat
#8 a genre of writing, creative non-fiction that uses embellishments to enrich the story	#66 the capability to act
#9 a bathroom mold	#67 {no response}
#10 a tool used for cleaning	#68 tomorrow
#11 a formal greeting	#69 someone in charge
#12 a fantasy novel, like Lord of the Rings	#70 to procrastinate
#13 men's casual pants	#71 a lawn mower
#14 a tool for breaking up dirt	#72 a hot desert location
#15 a wind instrument of low register	#73 a RPG-type video game
#16 a gathering of people to celebrate a ritual	#74 a boss or leader, like a mayor
#17 an activity that you wish to avoid	#75 to be angry
#18 implying the wish to procrastinate	#76 an automated vacuum
#19 {no response}	#77 the art of making small wooden animals
#20 a garden	#78 weird
#21 {no response}	#79 a barbed spear
#22 a fast dance where you shake your hips	#80 a large, hand-operated digging instrument
#23 a ship's bilge	#81 a car
#24 a building game involving connecting pieces	#82 an instrument to clean out the intestines
#25 to lift something	#83 type of helicopter
#26 a mountain in Siberia that one would like to climb	#84 a turtle-like creature, but more agile and aggressive with longer legs
#27 a drill-like tool used to fashion wood	#85 a garden tool, like an aerator
#28 an event to celebrate something	#86 somebody that lays carpet
#29 an army tank	#87 handicapped rail
#30 a time late in the day	#88 a backyard party with a maypole
#31 a wooded place	#89 to clean
#32 a highway through the Amazon	#90 a type of fungus
#33 an anchor on a boat	#91 a medieval castle
#34 a tool for setting up a tent	#92 surprised
#35 a round tower with many windows	#93 decisive
#36 a dark lager beer	#94 to push the snooze button on the alarm
#37 a long sword	#95 to waste time
#38 a female ballet dance	#96 something used to cut grass
#39 a large domesticated dog	#97 descriptive of boggy soil, like in Scotland
#40 something royal	#98 a 16 th century men's cloth hat
#41 a place with a lake where people vacation	#99 a storm
#42 describes somebody who works with their hands	#100 a complete change in direction
#43 pants, like jeans	#101 a term for a hard worker
#44 vomit	#102 a nagging affliction
#45 to be subservient	#103 a writing utensil for electronic smart boards, like a stylus
#46 a plastic mask	#104 to work out
#47 a lamp that hangs in the garden	#105 cultivation, planting
#48 a small, colorful bird of the rainforest	#106 a support for a tower
#49 an infection of the bowels	#107 reminiscent of a jet engine
#50 a soft part of the human body, like the earlobe	#108 a rigged election
#51 to be obsequious	#109 an essential piece in a pulley system
#52 a very high mountain	#110 a strong cheese, like brie
#53 a way you negotiate according to our American cultural norms	#111 an amount of time
#54 a type of tree that produces only pine cones	#112 frightening
#55 an ornate robe	#113 a small puddle that disappears after the sun rises
#56 a castle	#114 a young, hard worker
#57 a light soup	#115 an agreement between two or more people to not be sworn to secrecy
#58 something's backside	#116 a touchdown or homerun in some unidentified sport

Question Data Sheet

Words Requiring Definitions

Question ID: P. chocksaheebble ['tʃak · sə · hi · bəl]

#1 a purple, unfriendly, reptile-like animal	#59 something that helps find direction, like a map or a compass
#2 a hot drink, like tea, taken when ill or in the winter	#60 a wooden spear
#3 a large gathering of people	#61 a big furry monster that eats people
#4 a type of candy	#62 reminiscent of bamboo
#5 to become angry over something	#63 to chop something
#6 a type of hard, cinnamon candy	#64 sweet
#7 a material like bricks or cement	#65 reminiscent of a rodeo
#8 someone who eats a lot	#66 being able to do something
#9 a device used for chopping round objects	#67 chewy candy
#10 a tool used to make marks on various surfaces	#68 a horse barn
#11 to exercise on a machine	#69 performing a type of yoga
#12 an American Indian tribe	#70 to be productive
#13 a violent act	#71 a kitchen table
#14 somebody who got sick and threw up	#72 a portable display used in the stock market which shows the quotes
#15 a large desert plant with thick branches and spines	#73 a type of rock, small and smooth
#16 something to grill on a campfire	#74 to cook something in a wok
#17 a family game involving dice	#75 to be confused
#18 a clown's prop, general term for a whimsical object	#76 a thick food with big chunks
#19 {no response}	#77 the skill of leaping on stones that are far away from one another when crossing a creek
#20 an Indian tribe	#78 light (opposite of darkness)
#21 {no response}	#79 ground corn
#22 a medicine like Pepto Bismol	#80 the part of the chair that supports the arm
#23 Chinese food	#81 to burn
#24 a mixture of various snack foods, like a chex mix	#82 a crushed up grain, maybe red in color
#25 to draw or sketch	#83 a touch screen desktop computer
#26 a newly described lung disease found in people who live on a dirt road	#84 a story passed down about ancestors
#27 name of an ancient tribe of Native Americans	#85 many
#28 a big mess	#86 a stump grinder
#29 a stand of logs	#87 an ingredient in concrete
#30 something that hasn't been done	#88 a relay game you play running from pole to pole
#31 a mechanical device like a clamp	#89 a type of artificial lighting
#32 a temple in Mexico	#90 an animal that lives in a rocky desert
#33 a pile of various, countable pieces	#91 a board game involving chance
#34 a rich, foreign (to Americans) candy	#92 to lift up or carry
#35 a group of loud children	#93 something funny
#36 an Indian shelter, like a teepee	#94 nonsense
#37 a foreign candy	#95 to make a cake
#38 pertaining to Sasquatch	#96 a fence
#39 to prepare a food you never prepared before	#97 a regular polyhedron
#40 a pile of meaningless crap	#98 somebody opposed to an idea even though they know it is the morally right thing to do
#41 a sweet, thick, European food served in a bowl	#99 a malevolent spirit
#42 a big mess, a cluster	#100 a hammer
#43 a big concert, like Woodstock	#101 a small, furry dinosaur
#44 a large, mysterious monster, like Bigfoot	#102 a vitamin or herb useful for steadying the hands
#45 an ox-driven plow	#103 a parking brake for steep inclines
#46 Indian face paint	#104 to eat
#47 a part in a furnace	#105 multi-faceted
#48 to balance	#106 a large, indefinite number
#49 a tool used by native people for hunting	#107 a hatchet
#50 to be cocky	#108 cornmeal-based food
#51 to run over something in the road	#109 a rock found in Arizona, can be red or orange and prone to breaking apart
#52 a food made from a mashed up root	#110 a hard task
#53 the bend in a river where sediment has collected and it makes the area un-navigable	#111 an animal, like a squirrel but with a spiky tail
#54 a game involving coordination and chance, like twister	#112 rocks, like boulders, dispersed
#55 an old piece of farming equipment, like for tilling	#113 a small, spiky weed
#56 the handle on a drawer	#114 something thrown
#57 a children's game	#115 an emotion of anger or disgust
#58 pertaining to a rooster	#116 a big pile of food

Question Data Sheet

Words Requiring Definitions

Question ID: Q. whoagsafflerick [wɒˈg · ˈzæ · fəl · ɪrk]

#1 a forest where the plants are red	#59 something fantastic or amazing
#2 a type of squirrel	#60 terrific
#3 relating to a pulley mechanism, an archaic mans of hoisting something	#61 a machine to help you do your hair
#4 furry or fuzzy	#62 a small insect
#5 log riding	#63 a raft
#6 a short, ugly dwarf	#64 awake
#7 a complex machine used for moving things	#65 pertaining to knitting
#8 something amazing	#66 something woven
#9 a ship made of toilet paper	#67 a quilt
#10 a barking animal	#68 a way of saying "see you later"
#11 a puppet from a kid's show	#69 a color like dark blue
#12 a huge, Viking battleaxe	#70 something amazing
#13 a time machine	#71 a steamboat
#14 something wooly or furry	#72 a building whose top is pentagonal, the columns are square and the structure is open like the Parthenon
#15 describes a person who has gone through an experience that gave them both sadness and happiness at the same time	#73 soft material, like cashmere
#16 stupidity, arrogance, obnoxiousness	#74 a big, furry, wild, dangerous animal
#17 a rusted, long sword	#75 a rave
#18 to be astonished	#76 hard, manual labor
#19 {no response}	#77 the art of having crumbs fall from the mouth to the beard forming little artistic symbols
#20 folly	#78 fun
#21 a small animal, like a squirrel	#79 a cleat on a wooden boat
#22 a plant like a fern	#80 an inky part of the printing press
#23 a judge's robe	#81 flat
#24 a tropical island	#82 a large, evil monster
#25 reminiscent of a wolf	#83 a fishing boat
#26 a Himalayan mountain camp	#84 a ski lift
#27 an animal in the Zebra family	#85 magic
#28 to exaggerate about something, to stretch the truth	#86 a flight attendant
#29 weeds	#87 a side effect from a drug
#30 a type of natural material for a garment	#88 describing an overdressed man
#31 a water dam	#89 a snack
#32 a really mad person	#90 a blanket used by people in cold places
#33 someone who commits a serious crime	#91 ridiculous
#34 a xenophobic feeling	#92 to ponder
#35 an ill-tempered person	#93 something that causes pain
#36 an instrument that makes a deep sound, like a brass instrument	#94 something crazy
#37 to hide	#95 to watch a movie
#38 a happy reaction	#96 a type of canoe
#39 to sew clothes	#97 somebody down on their luck or depressed
#40 an organizational tool, like a syllabus	#98 a steering implement for a boat or maybe an amphibious vehicle
#41 a book having to with numbers, like an accounting book	#99 a traveler
#42 motor oil or engine coolant	#100 an off-road vehicle like the ones used in African safaris
#43 a wild canine	#101 a head covering, like a hat or toupee
#44 a nomad	#102 a support structure inside a building, like a stud
#45 a castle	#103 a prehistoric lobster
#46 some kind of trouble or misfortune	#104 a computer
#47 a barge	#105 scratchy
#48 to stop something from happening	#106 reminiscent of characters like Don Quixote
#49 a long sword	#107 an exceptional piano player
#50 aggressive	#108 a cleansing
#51 to be lazy on the sofa	#109 a legendary wolf that walks on two legs
#52 the action of carjacking	#110 concerning air pressure as it might relate to a scientific experiment
#53 to fertilize using organic material	#111 a disease affecting the whole body
#54 a duck habitat	#112 sadness
#55 a small fly	#113 a booby prize
#56 a system of pulleys	#114 a writer of horror novels
#57 a profession which requires math and science skills	#115 kind or concerned
#58 a torture chamber	#116 a cry of exasperation or excitement

Question Data Sheet

Words Requiring Definitions

Question ID: R. tobecraydrub [tʰoʷ · bə · 'kɻeʲ · dʲəb]

#1 an insect	#59 something sad or melancholy
#2 a mushy, bitter, African dish with rice	#60 a big, multi-purpose tub
#3 a device for steering a boat	#61 a new backpack that floats behind you
#4 a leaky sink	#62 a large enclosed object
#5 spelunking	#63 a big rock, like a boulder
#6 a food like a pita with a spicy filling	#64 to hit
#7 a liquid medicine	#65 reminiscent of hobbits because they're short
#8 a big, heavy piece of furniture, like a dresser	#66 reminiscent of a cave
#9 a candy bar with 1000 different flavors	#67 evil
#10 a type of pain medicine	#68 a type of cough syrup
#11 a bathroom towel hanger	#69 a musical instrument, like the tuba
#12 a type of spicy food from the Pacific eaten with the fingers	#70 to call a duck
#13 a turtle	#71 a closet
#14 a game for several people involving a ball	#72 a type of putty used by a sculptor
#15 a type of earthworm that lives in a colony that could cause problems if they are too numerous	#73 something to be feared
#16 a special victory in a sport, like baseball	#74 a recliner with a footrest
#17 a pink and purple plant with circular leaves	#75 jumping in place
#18 a tall plant with a purple flower	#76 a dip in the landscape
#19 {no response}	#77 the level ice filters reach when they need to be replaced
#20 craven	#78 fat, gigantic
#21 descriptive of classical architecture	#79 two astral bodies colliding
#22 a hypochondriac	#80 a suspended flower pot
#23 a stevedore	#81 to sink
#24 a snow-covered, cold mountain	#82 a giant mushroom
#25 something that is falling apart	#83 a box to store something in
#26 a type of leafy, oriental vegetable	#84 to give somebody a kick
#27 a type of East Indian food	#85 a fictitious animal that is large, nocturnal, and winged
#28 a mathematical equation	#86 a medium sized, seasonal tree
#29 a religious denomination	#87 a tool for spraying on fiberglass, like on a boat
#30 a garment to protect against rain or snow	#88 yellow soap scum
#31 a snow sled	#89 medicine, like antibiotics
#32 drunks at a bar	#90 a type of doily made of leaves and straw
#33 a slothful creature of the forest	#91 a shape with even sides, not circular
#34 a gigantic, above-ground reservoir	#92 to think
#35 an animal like a wolf	#93 large rocks, like mountains
#36 a malignant growth, like on the skin	#94 a feeling of frustration
#37 a disease like cancer	#95 to break a chair
#38 a large piece of construction equipment, like a dump truck	#96 a strong rope
#39 elaborate jewelry	#97 an arrangement of leaves on a plant
#40 a sitting object, like a vase, used for aesthetic purposes	#98 a volcanic formation, different from a crater or a caldera
#41 an appliance for cleaning in the kitchen	#99 a temple
#42 an exotic type of tree, thin, short with unique leaves	#100 a small Tupperware set
#43 a classification of paintings	#101 a yellow weed flower, like a dandelion
#44 a tool, like a hammer	#102 an antique wooden writing desk
#45 to release something	#103 a new source of renewable energy from cow methane
#46 an ice cream topping, like syrup	#104 to jump
#47 an artifact, like a hammer, from an Indian village	#105 the feeling from looking at a mountain range from the sky
#48 a sedentary person who eats just to eat	#106 a large, flowering bush
#49 a catatonic condition	#107 like a backpack or a harness, something to be carried on your person
#50 stylish	#108 a positive description
#51 to snack	#109 a Caribbean fruit, peach colored, round and the size of a cantaloupe
#52 a boxy, older kind of car	#110 a negative outcome, trouble
#53 a shallow body of water with lots of grass which provides shelter for ducks	#111 a dull color, like flat grey or beige
#54 a leader in an African country, like a president	#112 a mineral ore that is grey or silver
#55 a mountainous place, like Nepal	#113 a layer of rock that geologists would study
#56 a large, plastic, box-shaped container	#114 someone who doesn't take something seriously
#57 a small, wild animal, potentially dangerous, that some find cute	#115 a special room in a house for relaxation
#58 an above-ground cave	#116 a compartment for holding bird

Definitions Requiring Words

S. the wad of hair removed when cleaning a hairbrush

#1	WIKsul	['wɪk · sʰ]	#41	IGmuhloe	['ɪɡ · mə · loʷ]	#80	glulch	[ɡlʌtʃ]
#2	KHAbul	['kʰa · bʰ]	#42	TRIHkuht	['tʰɪɪ · kətʰ]	#81	looBASpurus	[luʷ · 'bæ · spæ · ɹəs]
#3	treats	[tʰɪʰts]	#43	krush	[kʰɹʌʃ]	#82	SAHruh	['sɑ · ɹəʃ]
#4	LOObul	['luʷ · bʰ]	#44	NAtuhr	['næ · rə]	#83	LEHsuhkul	['lɛ · sə · kʰ]
#5	inkeeshmooz	[ɪŋ · kʰɪʰ · ʃmuʷz]	#45	UNthrub	['ʌn · θɹəbʰ]	#84	GOOwahb	['guʷ · wab]
#6	BOKshoo	['bək · ʃuʷ]	#46	Awur	['æ · wə]	#85	GREHluhsyou	['ɡɹɛ · lə · skjuʷ]
#7	nyak	[nɹæk]	#47	GRIHshuhlz	['ɡɹɪ · ʃʰtʰz]	#86	VAHNdurleeng	['van · dæ · lɪŋ]
#8	FROmunjine	['fɹoʷ · mən · dʒaɪn]	#48	ehroSTAsheeo	[ɛ · ɹoʷ · 'stæ · ʃɪ · oʷ]	#87	suhPURuh	[sə · 'pʰə · ɹə]
#9	skrooch	[skɹuʷtʃ]	#49	GUNKsis	['ɡʌŋk · sɪs]	#88	OLmish	['ɔ · mɪʃ]
#10	PIEyah	['paɪ · ja]	#50	GLAHMshin	['ɡlam · ʃɪn]	#89	dreb	[dɹɛb]
#11	broop	[brʊp]	#51	SHIHfur	['ʃɪ · fə]	#90	GRAsib	['ɡɹæ · sɪb]
#12	ruff	[ɹʌf]	#52	KRAstur	['kʰɹæ · stə]	#91	GLUHblin	['ɡlʌ · blɪn]
#13	BLIKsee	['blɪk · si]	#53	glahp	[ɡlap]	#92	EEwatch	['i · watʃ]
#14	WAHduhlood	['wa · rə · luʷd]	#54	thrudge	[θɹʌdʒ]	#93	egZEstunce	[ɛɡ · 'zɛ · stʰns]
#15	GLUHMpul	['ɡlʌm · pʰ]	#55	skaz	[skæɪz]	#94	ekSPARshun	[ɛk · 'spaɹ · ʃən]
#16	NEStahf	['nɛs · taf]	#56	DAKsik	['dæk · sɪk]	#95	beeARvee	[bi · 'aɹ · vi]
#17	KLAHbulhahf	['kʰla · bʰ · haf]	#57	GURzhuhrahn	['ɡə · ʒə · ɹʌn]	#96	hahtahBOO	[ha · ta · 'buʷ]
#18	mair	[mæɪ]	#58	CHEEenis	['tʃiɪ · nɪs]	#97	SKAPtha	['skæp · θæ]
#19	no response		#59	ZYlandul	['zaɪ · læn · dʰ]	#98	SHARstuh	['ʃɑɹ · stə]
#20	SKAHMful	['skam · fʰ]	#60	HAKlee	['hæk · li]	#99	snabz	[snæbz]
#21	glaht	[ɡlat]	#61	JIHbrihnaht	['dʒɪ · bɹɪ · nat]	#100	NEEzulkrump	['ni · zʰ · kʰɹʌmp]
#22	WUHgee	['wʊ · gi]	#62	SKUHfee	['skʌ · fi]	#101	WAHkoe	['wa · koʷ]
#23	grunch	[ɡɹʌntʃ]	#63	KEEruhshoo	['kʰɪ · ɹə · ʃuʷ]	#102	WAHKsnay	['waks · neɪ]
#24	youMUHtuh	[juʷ · 'mʌ · tə]	#64	OOVlah	['uʷv · la]	#103	tanTHAsuhlope	[tʰæn · 'θæ · sə · loʷp]
#25	NURdee	['nə · di]	#65	OOwuhlak	['ʊ · wə · læk]	#104	dush	[dʌʃ]
#26	SPRINGuhluh	['spɹɪŋ · ɡə · lə]	#66	skruhWOW	[skɹə · 'waʷ]	#105	fuhLAIR	[fə · 'læɪ]
#27	SKOObul	['skuʷ · bʰ]	#67	sunBALis	[sən · 'bæ · lɪs]	#106	BALduhrahnz	['bæɪ · də · ɹʌnz]
#28	SHMEguhluh	['ʃmɛ · ɡə · lə]	#68	WAHthul	['wə · θʰ]	#107	DEEturge	['di · tʰə · dʒ]
#29	buhDUNK	[bə · 'dʌŋk]	#69	pahd	[pʰad]	#108	AHGdahg	['ag · dag]
#30	FOLkuhn	['fɔɪ · kʰən]	#70	FUMBahr	['fʌm · baɹ]	#109	YUKstun	['jʌk · stʰən]
#31	smuch	[smʌtʃ]	#71	DAHsul	['da · sʰ]	#110	WEESHdah	['wiʃ · da]
#32	drek	[dɹɛk]	#72	gooSTAHbrah	[guʷ · 'sta · bɹa]	#111	flehkt	[flɛkt]
#33	POPuhluhs	['pʰa · pə · ləs]	#73	shuhSWOOzee	[ʃə · 'swuʷ · zi]	#112	splahrg	[splʌɹɡ]
#34	fruss	[fɹʌs]	#74	OOguhfish	['uʷ · ɡə · fɪʃ]	#113	foind	[fɔɪnd]
#35	GANgrin	['gæn · ɡɹɪn]	#75	GAHko	['ga · koʷ]	#114	POAPdah	['pʰoʷp · da]
#36	gahk	[gak]	#76	shoop	[ʃuʷp]	#115	no response	
#37	TIHzul	['tʰɪ · zʰ]	#77	LASpree	['læs · pɹi]	#116	LAMfort	['læm · fɔɪt]
#38	AHRhahr	['aɹ · haɹ]	#78	AHKtlahn	[ak · 'tʰɹʌn]			
#39	KRAKsahn	['kʰɹæk · san]	#79	preets	[pʰɪʰts]			
#40	WIHzuhl	['wi · zʰ]						

Question Data Sheet

Definitions Requiring Words

T. the grease that accumulates on top of a hot pizza

#1 GRAHpul ['ɡɹɑ·pʰə]	#41 slimps [sɪmpʰs]	#80 smairt [smɛːɹt]
#2 GOOgulwiks ['ɡuː·ɡəʔ·wɪks]	#42 neez [niːz]	#81 WAHNtay ['wan·teɪ]
#3 bleek [bliːk]	#43 blake [bleɪk]	#82 MYOUloof ['mjuː·luːf]
#4 NOYuhl ['noʊ·ə]	#44 LAHtoo ['la·tuː]	#83 DRIHpite ['dɹɪ·paɪt]
#5 prayst [pʰɛst]	#45 PLAYtul ['pʰleɪ·rə]	#84 SLOOburis ['sluː·bə·ɹɪs]
#6 POOroo ['pʰuː·ɹuː]	#46 OOwur ['uː·wə]	#85 SKUDyoulye ['skʌ·dʒuː·laɪ]
#7 rluh [ɹɪ]	#47 GLEEsahn ['ɡliː·sɑn]	#86 oo weeKOOKshlow [uː·wiː·'kʰuːk·ʃloʊ]
#8 SALuhgree ['sæ·lə·ɡɹi]	#48 jarfuhRAHrow [dʒɑ·fə·'ɹɑ·ɹoʊ]	#87 KAHluhfeen ['kʰɑ·lə·fiːn]
#9 FLIHkuhl ['fli·kə]	#49 splag [splæg]	#88 SAHpɪd ['sɑ·pɪd]
#10 KAHskah ['kʰɑ·ska]	#50 kwag [kʰwæg]	#89 SILfuhr ['sɪl·fə]
#11 pahf [paf]	#51 GREhtul ['ɡɹɛ·rə]	#90 KISSmur ['kɪs·mə]
#12 slek [slɛk]	#52 slash [slæʃ]	#91 linse [lɪns]
#13 PLAssee ['pʰlæ·si]	#53 GWAHRguhfidɛ [ˈɡwaɹ·gə·faɪd]	#92 HAYrah ['heɪ·ɹɑx]
#14 KRUHstuhgook ['kʰɹʌ·stə·ɡuːk]	#54 slihɹ [slɪz]	#93 juhLEHstuhfee [dʒə·'les·tə·fi]
#15 BUMfroo ['bʌm·fɹuː]	#55 BLOOuhl ['bluː·ə]	#94 SANyouwus ['sæn·juː·əs]
#16 SPOOKnes ['spʰuːk·nɛs]	#56 smlair [smlɛɪ]	#95 GAHfoo ['ɡɑ·fuː]
#17 NANdeefahr ['næn·diː·fɑ]	#57 lamBAYstoe [læm·'beɪ·stoʊ]	#96 SUHLkuhn ['sʌt·kən]
#18 splaynk [splɛŋk]	#58 SKRUMjuhs ['skɹʌm·dʒəs]	#97 SKWILnɪf ['skwɪt·nɪf]
#19 OOghas ['uː·ɡɑs]	#59 tyklairAHL [tʰɑɪ·klæ·'ɹɑ]	#98 mowb [moʊb]
#20 OHleeyus ['oʊ·liː·jəs]	#60 AKSfɪl ['æks·fɪ]	#99 DOOLthoo ['duːt·θuː]
#21 slurm [slɜːm]	#61 IZwahd ['ɪz·wad]	#100 kruhNOO [kʰɹə·'nuː]
#22 suhNITE [sə·'naɪt]	#62 CHEEyahz [tʰɛɪ·jɑz]	#101 greeLAYbah [ɡɹiː·'leɪ·bə]
#23 STEEruk ['stiː·ɹək]	#63 NEHsofil ['ne·soʊ·fɪ]	#102 PYOUfur ['pʰjuː·fə]
#24 PEHKmoo ['pʰɛk·muː]	#64 HAILah ['haɪ·lə]	#103 fesDUNKul [fes·'dʌŋ·kə]
#25 no response	#65 SNILtee ['sniːtɪ]	#104 peeɹ [pʰiːz]
#26 yish [jɪʃ]	#66 skyur [skɪə]	#105 smuhSMURCH [smə·'smətʃ]
#27 ROWjuhn ['ɹoʊ·dʒən]	#67 buhLAHstik [bə·'la·stɪk]	#106 chaDOOuh [tʃæ·'duː·ə]
#28 SIHneeaytur ['si·niː·jeɪ·rə]	#68 SATHul ['sæ·θə]	#107 loust [laʊst]
#29 slesh [slɛʃ]	#69 RIHzul ['ɹɪ·zə]	#108 NAHvoo ['na·voʊ]
#30 zihk [zɪk]	#70 GOOMBuh ['ɡuːm·bə]	#109 DRITfahl ['dɹɪt·fɑ]
#31 FLAjee ['flæ·dʒi]	#71 LYkreese ['laɪ·kɹiːs]	#110 WULdoe ['wʊt·doʊ]
#32 skrum [skɹʌm]	#72 ahstayNAHday [ɑ·steɪ·'na·deɪ]	#111 shimp [ʃɪmp]
#33 SWIHgul ['swɪ·ɡə]	#73 mahrKEE [maɹ·'kɹi]	#112 gahk [ɡak]
#34 OOgruhm ['uː·ɡɹəm]	#74 KAHRduhklast ['kʰɑɹ·rə·klæst]	#113 sluk [slʌk]
#35 SOOwus ['suː·wəs]	#75 KREEtahd ['kʰɹiː·tad]	#114 eeɹ [iː]
#36 HEEjeegloo ['hiː·dʒiː·ɡluː]	#76 slahrɹ [slɑɹ]	#115 no response
#37 lak [læk]	#77 SMAHGlin ['sma·ɡlɪn]	#116 EEyul ['iː·jə]
#38 BRAYho ['brɛɪ·hoʊ]	#78 SPANuk ['spæ·nək]	
#39 suhLOoneeyum [sə·'loʊ·niː·əm]	#79 goosh [ɡuːʃ]	
#40 GIHMuhl ['ɡɪ·mə]		

Definitions Requiring Words

U. an unexpected cool breeze on a sultry day

- #1 KEEzee ['k^hiːˌziː]
 #2 STREEzee ['stiːiˌziː]
 #3 forGORN [fɔɹˌ'ɡɔːn]
 #4 LAYlye ['leːˌlaɪ]
 #5 ozhoLEE [oːˌzɔːˌliː]
 #6 SYtun ['sɑːˌtʰən]
 #7 fyoul [fɪˈuːl]
 #8 proFIHthitooode [p^hɪoːˌ'fɪˌθəˌtʰjuːd]
 #9 wahSHOON [waːˌ'ʃuːn]
 #10 TAHcho ['taˌtʃo]
 #11 boov [buːv]
 #12 froosh [fɹuːʃ]
 #13 TORrelore ['tɔːˌriːˌlɔɹ]
 #14 WAHbuh ['waˌbə]
 #15 FRUHPul ['fɹʌmˌpʰ]
 #16 swahsh [swaʃ]
 #17 SNAvuhrpaw ['snæˌvəˌp^ha]
 #18 flihsh [flɪʃ]
 #19 REEchee ['riˌtʃiː]
 #20 kuhlDIHfɪsh [k^hʌˌ'dɪˌfɪʃ]
 #21 KATik ['k^hæˌrɪk]
 #22 woosh [wuːʃ]
 #23 zwihsh [zwiʃ]
 #24 yahnBEARin [jɑnˌ'bæˌɹɪn]
 #25 no response
 #26 Evunz ['ɛˌvʊnz]
 #27 SLAZihfy ['slæˌziˌfaɪ]
 #28 TIPsuhlayteeng ['tʰɪpˌsəˌleːˌrɪŋ]
 #29 POOteek ['p^huːˌtiːk]
 #30 OHkuhn ['oːˌkən]
 #31 oom [uːm]
 #32 kuhMAstik [kəˌ'mæˌstriːk]
 #33 LAHFtoo ['lafˌtuː]
 #34 twyce [tʰwaɪs]
 #35 GRUHsuhn ['gɹʌˌsən]
 #36 WIHshur ['wiˌʃə]
 #37 tim [tʰɪm]
 #38 blooveeYES [bluːˌviˌ'ɛs]
 #39 KLAYzahn ['k^hleːˌzan]
 #40 flush [flʊʃ]
 #41 FAYlee ['feːˌliː]
 #42 beesh [biːʃ]
 #43 floo [fluː]
 #44 PYURin ['p^hjʊˌɹɪn]
 #45 AYvree ['ɑːˌvriː]
 #46 WOOyah ['wuːˌja]
 #47 spleel [spliːl]
 #48 WAHpee ['waˌpiː]
 #49 SWIFTur ['swɪfˌtəː]
 #50 rahSHOWveeus [ɹɑˌ'ʃoːˌviˌəs]
 #51 kuhNESsur [kəˌ'neˌsəː]
 #52 blesh [blɛʃ]
 #53 luhVOreeus [ləˌ'vɔːˌriˌəs]
 #54 whoom [w^huːm]
 #55 pip [pʰɪp]
 #56 GAthee ['gæˌθiː]
 #57 MARish ['mæˌɹɪʃ]
 #58 LUMdahr ['lʌmˌdaɹ]
 #59 WIStran ['wisˌtɹæn]
 #60 REEkah ['riˌka]
 #61 GOOPtuhn ['guːpˌtən]
 #62 VOOhah ['vuːˌhɑ]
 #63 ahWAHha [ɑˌ'waˌhɑ]
 #64 myklahOO [mɑːˌklaˌ'uː]
 #65 TREELful ['tʰriːlˌfʰ]
 #66 WOOLoo ['wuːˌluː]
 #67 LAWureez ['læˌwəˌɹiːz]
 #68 loomf [luːmf]
 #69 wowld [woːld]
 #70 SOOweesh ['suːˌwiːʃ]
 #71 SEEmuh ['siːˌmə]
 #72 hevuhnDISkuhnee [hɛˌvənˌ'dɪsˌkəˌniː]
 #73 LANmahr ['lænˌmaɹ]
 #74 SASSmill ['sæsˌmɪl]
 #75 AHZfah ['azˌfa]
 #76 swill [swɪl]
 #77 JAYdumpree ['dʒeːˌrənˌp^hɹiː]
 #78 VEERYe ['viˌraɪ]
 #79 LAHzuhnfeer ['laˌzənˌfiː]
 #80 ziks [zɪks]
 #81 SEEtuh ['siːˌtə]
 #82 kuhLOOuh [kəˌ'luːˌwə]
 #83 bryce [brɪs]
 #84 KLINSurrite ['klɪnˌsəˌɹaɪt]
 #85 WOOzhuhree ['wuːˌzəˌriː]
 #86 WIHnuhlong ['wiˌnəˌlɔŋ]
 #87 teeTAIRuh [tʰiːˌ'tɛˌɹə]
 #88 FEHpul ['fɛˌpʰ]
 #89 reese [riːs]
 #90 KILLisp ['kɪlˌɪsp]
 #91 LOOtun ['luːˌtən]
 #92 CHEEow ['tʃiːˌəw]
 #93 KAHluhpree ['k^hɑˌləˌp^hɹiː]
 #94 WHYneeng ['waɪˌniŋ]
 #95 murDEEuh [məˌ'diˌnə]
 #96 kuhTAHmoosh [kəˌ't^hɑˌmuːʃ]
 #97 ISSfahn ['ɪsˌfan]
 #98 FLOOgish ['fluːˌgiʃ]
 #99 huhZAN [həˌ'zæn]
 #100 WOOdul ['wuːˌrʰ]
 #101 swove [swoːv]
 #102 mrow [mɹoːw]
 #103 kwahLAYshis [kwaˌ'leːˌʃɪs]
 #104 uhLYEyur [əˌ'laɪˌjə]
 #105 bluhTAHKsee [bləˌ't^hɑkˌsiː]
 #106 VAHRguh ['vaɹˌgə]
 #107 fehNEESE [fɛˌ'niːs]
 #108 HUdeewort ['huˌriːˌwɔɹt]
 #109 imFATuhmyzeeng [ɪmˌ'fæˌrəˌmaɪˌziŋ]
 #110 WELtoe ['weɪˌtoːw]
 #111 WInahn ['wiˌnan]
 #112 skahmp [skamp]
 #113 skoof [skuːf]
 #114 hoeLAHLT [hoːˌ'laɪlt]
 #115 no response
 #116 SPRINTree ['spɹɪnˌtriː]

Definitions Requiring Words

V. the feeling experienced by a death-row inmate after being pardoned or exonerated

#1 jibz [dʒɪˈbz]	#40 TAlee [tʰæ·liː]	#80 film [fɪlm]
#2 PAHRsuhljuhn [ˈpʰɑː·səʔ·dʒəŋ]	#41 igSNAstid [ɪɡ·ˈsnæ·stɪd]	#81 WAHNtie [ˈwan·taɪ]
#3 purSOON [pʰə·ˈsuːn]	#42 weem [wiːm]	#82 ZAfuhrus [ˈzæ·fə·əs]
#4 GREKsned [ˈɡɹɛk·snɛd]	#43 waah [waːh]	#83 FLUHburbul [ˈflʌ·bə·bʊʔ]
#5 dekSTEENgwisht [dɛk·ˈstɪŋ·ɡwɪʃt]	#44 SATHund [ˈsæ·ðənd]	#84 argoFLOOgus [ɑː·ɡoː·ˈfluː·ɡəs]
#6 GAStee [ˈgæ·stiː]	#45 surNASHT [sə·ˈnæʃt]	#85 WOOflee [ˈwuː·fliː]
#7 Azuhnuh [ˈæ·zə·nə]	#46 Awur [ˈæ·wə]	#86 WOWkuhnfur [ˈwaː·kəŋ·fə]
#8 kuhLAMurrmine [kʰə·ˈlæ·mə·maɪn]	#47 GRIKsuhld [ˈɡɹɪk·səʔd]	#87 fruhTAMpuhlite [fɹə·ˈtʰæm·pə·laɪt]
#9 GRAHturuhl [ˈɡɹɑ·rə·ʔ]	#48 reeVEENdoe [ɹiː·ˈviːn·doʊ]	#88 juhPIHruhmint [dʒə·ˈpʰɪ·ɹə·mɪnt]
#10 hoom [hum]	#49 ekSPUHLshis [ɛk·ˈspuʔ·ʃɪs]	#89 tooBAStuhk [tuː·ˈbə·stək]
#11 wush [wʊʃ]	#50 ahlbichooLAYshun [ɑʔ·bɪ·tʃuː·ˈleɪ·ʃəŋ]	#90 KRISmuh [ˈkɹɪs·mə]
#12 FRIMdun [ˈfɹɪm·dən]	#51 zuhGREthuhrus [zə·ˈɡɹɛ·θə·ɹəs]	#91 LIMfis [ˈlɪm·fɪs]
#13 vlahfahNAHtah [vlɑ·fɑ·ˈnɑ·tɑ]	#52 weel [wiːl]	#92 eeKAH [iː·ˈkʰɑː]
#14 aZOOS [æ·ˈzuːs]	#53 ahsahWUSH [ɑ·sɑ·ˈwʊʃ]	#93 panGORik [pʰæn·ˈɡɔ·ɹɪk]
#15 SPLINshus [ˈsplɪn·ʃəs]	#54 prikYOUNE [pɹɪ·ˈkʰjuːn]	#94 eksFLESHtun [ɛks·ˈflɛʃ·tən]
#16 WAHFnes [ˈwaf·nɛs]	#55 ekSTROKE [ɛk·ˈstɹoʊk]	#95 HARnuhgoo [ˈhɑː·nə·guː]
#17 hahrf [hɑrf]	#56 MLOUstig [ˈmləː·stɪɡ]	#96 flaBOO [flæ·ˈbuː]
#18 VLASkis [ˈvlæs·kɪs]	#57 DENTul [ˈdɪn·təʔ]	#97 ASHlahf [ˈɑʃ·laf]
#19 NAHnee [ˈnɑ·ni]	#58 PEEDmint [ˈpiːdː·mɪnt]	#98 kuhPLAZmeeuh [kə·ˈpʰlæz·miː·ə]
#20 reeHULLtuhnt [ɹiː·ˈhʌʔ·tən̩t]	#59 ALTuhray [ɑʔ·tə·eɪ]	#99 KEEruh [ˈkʰiː·ɹə]
#21 fihNELL [fi·ˈnɛl]	#60 rayLEEsah [re·ˈli·sɑ]	#100 BAHLwind [ˈbɑʔ·wind]
#22 AHya [ˈɑː·jɑ]	#61 PAHjuhnahd [ˈpʰɑ·dʒə·nɑd]	#101 GIHbee [ɡɪ·biː]
#23 RIBish [ˈɹɪ·bɪʃ]	#62 HAHfee [ˈhɑ·fiː]	#102 maluhKREEshus [mə·lə·ˈkʰɹiː·ʃəs]
#24 YIMmeeyay [ˈjɪ·miː·jeɪ]	#63 VEduhlil [ˈve·də·lɪl]	#103 kaleeAYshun [kæ·liː·ˈeɪ·ʃəŋ]
#25 no response	#64 aiYET [ɑː·ˈjet]	#104 grail [ɡɹeɪl]
#26 yeefs [jiːʃs]	#65 shupt [ʃʌpt]	#105 SHMAKsum [ˈʃmæk·səm]
#27 TEEturd [ˈtiːj·rəd]	#66 NOwo [ˈnoː·woʊ]	#106 uhSTOReez [ə·ˈstɔ·ɹiːz]
#28 LIHgunstyne [ˈli·ɡəŋ·staɪn]	#67 zought [zaʊtʃt]	#107 wihZEL [wi·ˈzɛl]
#29 THANKree [ˈθæŋ·kɹiː]	#68 AHthrow [ˈɑ·θɹoʊ]	#108 YEELsuhn [ˈjiːl·səŋ]
#30 ALLfuhn [ɑʔ·fəŋ]	#69 buhks [bʌks]	#109 korahptihNAYshun [kɔ·ɹap·tɪ·ˈneɪ·ʃəŋ]
#31 wuh [wʌh]	#70 grish [ɡɹɪʃ]	#110 GAHwoosh [ˈɡɑ·wuːʃ]
#32 puhDAnik [pə·ˈdæ·nɪk]	#71 disTINshun [dɪs·ˈtɪn·ʃəŋ]	#111 oomBAHKra [uːm·ˈbɑk·ɹæ]
#33 URgah [ˈə·ɡɑ]	#72 MEEbret [ˈmiː·bɹɛt]	#112 MIHnuhmun [ˈmi·nə·məŋ]
#34 SPANduhtoree [ˈspæn·də·tɔ·ɹiː]	#73 FLAsuhree [ˈflæ·sə·ɹiː]	#113 foamf [fəmf]
#35 TRANSin [ˈtɹæn·sɪn]	#74 EKstuhboyce [ˈɛk·stə·boɪs]	#114 toolt [tʰuːlt]
#36 AHsun [ˈɑ·sən]	#75 DINTahrn [ˈdɪn·təm]	#115 no response
#37 ZYEElee [ˈzaɪ·liː]	#76 YOWlin [ˈjoː·lɪn]	#116 BLAYfurmint [ˈbleɪ·fə·mɪnt]
#38 jumpuhFEEL [dʒæm·pə·ˈfiːl]	#77 BWINzuhn [ˈbwɪn·zən]	
#39 REEsuhreks [ˈɹiː·sə·ɹɛks]	#78 AHbultah [ˈɑ·bʊʔ·tɑ]	
	#79 KAPungow [ˈkʰæ·pəŋ·ɡəʊ]	

Definitions Requiring Words

W. a feeling of extreme disappointment

- #1 KAHlow ['kʰa · loʷ]
 #2 flooHAYvun [fluʷ · 'heʲ · vən]
 #3 PAsunt ['pʰæ · sən̩t]
 #4 FULLso ['fʊɫ · soʷ]
 #5 roose [ɹuʷs]
 #6 EGzis ['eg · zɪs]
 #7 TORdur ['tʰɹ · rən̩]
 #8 TIHfinbahtum
 ['tʰɪ · fɪn · ba · rən̩]
 #9 fleu [flœ]
 #10 nok [nɔk]
 #11 ahh [ax]
 #12 zumf [zʌmf]
 #13 wahz [waz]
 #14 ayEHsyō [e · 'ɛ · sʲoʷ]
 #15 DINtruf ['dɪn · tʲəf]
 #16 GRURbeeng ['grʲæ · bi:ʲŋ]
 #17 SAPulwahsh ['sæ · pʰ · waʃ]
 #18 MAHNnuhree ['ma · nə · ɹiʲ]
 #19 no response
 #20 dihzastuhrfihKAYshin
 [dɪ · zæ · stæ · fə · 'kʰeʲ · ʃɪn]
 #21 laht [lat]
 #22 huhMAD [hə · 'mæd]
 #23 BOOgah ['buʷ · ga]
 #24 WOEbahn ['woʷ · ban]
 #25 no response
 #26 ahsh [aʃ]
 #27 JOOstihfyd ['dʒuʷ · stɪ · faʲd]
 #28 SHAHniksaymin
 ['ʃa · nɪk · seʲ · mɪn]
 #29 SEEkuhm ['siʲ · kən̩]
 #30 DRAduhn ['dɹæ · rən̩]
 #31 gruh [gɹʌh]
 #32 ROWCHnis ['ɹoʷtʃ · nis]
 #33 bleuf [bløf]
 #34 DEHfrist ['dɛ · frɪst]
 #35 GRAnuhr ['gɹæ · nə]
 #36 REEvik ['ɹiʲ · vɪk]
 #37 TAHMbur ['tʰam · bæ]
 #38 MAluhfay ['mæ · lə · feʲ]
 #39 suhLAYzahn [sə · 'leʲ · zan]
 #40 kuhRAND [kʰə · 'ɹænd]
 #41 deeANDred [diʲ · 'æn · dɹɛd̩]
 #42 fakuhTOOuh [fæ · kə · 'tʰuʷ · ə]
 #43 dahk [dak]
 #44 DISlow ['dɪs · loʷ]
 #45 FLEEekizm ['fliʲ · kɪzm]
 #46 LOOum ['luʷ · əm]
 #47 UNdahld ['ʌn · dət̩d]
 #48 peekeeAlfin [pʰiʲ · kiʲ · 'aʲ · fɪn]
 #49 SPRAsis ['spɹæ · sis]
 #50 suhSOWnuhmis
 [sə · 'soʷ · nə · mɪs]
 #51 GATHuhkur ['gæ · θə · kə]
 #52 bah [bah]
 #53 WAHMpust ['wam · pust]
 #54 blort [blɔɹt]
 #55 shim [ʃɪm]
 #56 MAHRtahr ['maɹ · taɹ]
 #57 MAHRlee ['maɹ · liʲ]
 #58 uhbl [ʌbl̩]
 #59 disTYEgōe [dɪs · 'tʰaʲ · goʷ]
 #60 maHOH [ma · 'xəx]
 #61 LADtunt ['læd · tən̩t]
 #62 BIDno ['bɪd̩ · noʷ]
 #63 SASuhtur ['sæ · sə · rən̩]
 #64 uhrowKEE [ə · ɹoʷ · 'kʰiʲ]
 #65 LAduhn ['læ · rən̩]
 #66 JOno ['dʒoʷ · noʷ]
 #67 feen [fiʲn]
 #68 SIMfuhno ['sɪm · fə · noʷ]
 #69 lad [læd]
 #70 JOOMbye ['dʒuʷm · baʲ]
 #71 PURniks ['pʰə · nɪks]
 #72 ahBAHstay [a · 'ba · steʲ]
 #73 BAHRmin ['baɹ · mɪn]
 #74 hurRAW [hə · 'ɹaʷ]
 #75 FEEgul ['fiʲ · gəʃ]
 #76 KRUMPlin ['kʰɹʌmp · lɪn]
 #77 SEEgunthahlurmin
 ['siʲ · gən̩ · θə · lə · mɪn]
 #78 panWAIR [pʰæn · 'wer]
 #79 uhRASthuhnoo
 [ə · 'ɹæs · θə · nuʷ]
 #80 zahng [zan]
 #81 MANdee ['mæn · diʲ]
 #82 DIFnahl ['dɪf · nəʃ]
 #83 ZAPtolz ['zæp · tɔɫz]
 #84 BULLdahl ['bʊɫ · dət̩]
 #85 SAYgruhs ['seʲ · gɹəs]
 #86 WOOkuhree ['wuʷ · kə · ɹiʲ]
 #87 kuhKAHnuhruh [kə · 'kʰa · nə · ɹə]
 #88 SAHNduhr ['san · dən̩]
 #89 DRIHbul ['dɹɪ · bəʃ]
 #90 DOWgur ['daʷ · gə]
 #91 uhKRIMshuh [ə · 'kʰɪm · ʃə]
 #92 sohm [soʷm]
 #93 ahDALfee [a · 'dæt̩ · fiʲ]
 #94 RAGmuhlayduh
 ['ɹæg · mə · leʲ · rən̩]
 #95 FONGkway ['fɔŋ · kweʲ]
 #96 OOmus ['uʷ · məs]
 #97 KURgul ['kʰə · gəʃ]
 #98 browd [brɔʷd]
 #99 boeDOOR [boʷ · 'dɔɹ]
 #100 muhSTRONE [mə · 'stɹoʷn]
 #101 krunts [kʰɹʌnts]
 #102 BOOnayde ['buʷ · neʲd]
 #103 ohLOOKruhl [oʷ · 'luʷ · kɹəʃ]
 #104 DEEum ['diʲ · əm]
 #105 SHMOOdeu ['ʃmɹ · dθ]
 #106 DARrin ['dɛ · ɹɪn]
 #107 tahrđ [tʰaɹd]
 #108 SUMboe ['sʌm · boʷ]
 #109 ahntLED [an · 'tʰɛʲd]
 #110 DOOtah ['duʷ · tət̩]
 #111 NEHstahn ['nɛ · stan]
 #112 KAHkooose ['kʰa · kuʷs]
 #113 kahnge [kʰandʒ]
 #114 fahrch [fartʃ]
 #115 no response
 #116 growd [gɹoʷd]

Definitions Requiring Words

X. the feeling of being woken in the middle of the night by a strange noise

#1 eekt [i'kt]	#39 AKsum ['æk·səm]	#78 esTINik [ɛs·'ti·nik]
#2 disROWduhn [dis·'ɹoʊ·rən]	#40 suhRAND [sə·'ɹænd]	#79 JIHgurboun ['dʒi·gə·baʊn]
#3 FLUHburd ['flʌ·bəd]	#41 INstray ['ɪn·stɹeɪ]	#80 wift [wɪft]
#4 nihkuhPANnuh [ni·kə·'pʰæ·nə]	#42 BRAYkuh ['breɪ·kə]	#81 SAHRdzahr ['sɑɪ·dʒɑɪ]
#5 ekSPANduhmayke [ɛk·'spæn·də·meɪk]	#43 roo [ɹuʊ]	#82 reeKRAM [ɹi·'kʰræm]
#6 HAHKtin ['hak·tɪn]	#44 WODuhr ['woʊ·rə]	#83 EErite ['i·ɹaɪt]
#7 hadge [hædʒ]	#45 SKRUHpul ['skɹʌ·pʰ]	#84 LAHRgish ['lɑɪ·ɡɪʃ]
#8 shuhREEF [ʃə·'ɹi:f]	#46 AHhum ['a·həm]	#85 FRITul ['fri·tʰ]
#9 fleuREU [flœ·'ɹi]	#47 gliksANDurdahld [ɡlɪk·'sæn·də·dɑtɪd]	#86 TAIRshureeng ['tʰɛɪ·ʃə·ɹɪŋ]
#10 grood [ɡɹuʊd]	#48 VEENGgo ['vɪŋ·goʊ]	#87 sisKAHreeuh [si·'ska·ɹi·ə]
#11 krak [kʰræk]	#49 klahSTOWD [kla·'staʊd]	#88 Akul ['æ·kʰ]
#12 FRIMtin ['fɹɪm·tɪn]	#50 huhFAYshus [hə·'feɪ·ʃəs]	#89 LAMPur ['læm·pə]
#13 YAIzee ['jaɪ·zi]	#51 STRAHpul ['stɹɑ·pʰ]	#90 zuhLAST [zə·'læst]
#14 HAHdoon ['ha·duʊn]	#52 ahr [ɑɪ]	#91 fuRUND [fə·'ɹʌnd]
#15 strahmt [stɹamt]	#53 uhLAHpuid [ə·'la·pəɪd]	#92 rouk [ɹʌk]
#16 SKAtuhrehnes ['skʰæ·tʰə·rɛ·nɛsɪ]	#54 RAKshuhnayte ['ɹæk·ʃə·neɪt]	#93 jesTINKshun [dʒɛ·'stɪŋk·ʃən]
#17 AZnuf ['æz·nəf]	#55 plam [pʰlæm]	#94 BAHNshoof ['bʌn·ʃuʊf]
#18 METHruhl ['mɛθ·ɹʰ]	#56 PLEKsik ['pʰlɛk·sɪk]	#95 kuhNDERnoo [kən·'dɛɪ·nuʊ]
#19 SOOPeesh ['su·piʃ]	#57 URLuhf ['ə·lɛf]	#96 TATold ['tʰæ·tɔɪd]
#20 SLIHpook ['sli·pʰuʊk]	#58 WUHDrahr ['wʌ·dɹɑɪ]	#97 VALsahn ['væl·sʌn]
#21 FORshan ['fɔɹ·ʃæn]	#59 WUNdurstun ['wʌn·də·stən]	#98 sihREENGgheeu [si·'ɹɪŋ·ɡi·ə]
#22 AIyee ['aɪ·ji]	#60 aHEE [a·'hi]	#99 HOOroo ['huʊ·ɹuʊ]
#23 ARbish ['ɑɪ·bɪʃ]	#61 UNlit ['ʌn·lɪt]	#100 KRAHduld ['kʰɹɑ·rʰɪd]
#24 WOYak ['woʊ·jæk]	#62 TERno ['tʰɛɪ·noʊ]	#101 SKARfoe ['skaɪ·foʊ]
#25 no response	#63 uhBAHtruh [ə·'ba·tɹə]	#102 vihTREED [vi·'tʰɹiɪd]
#26 yiks [ɹɪks]	#64 glice [ɡlaɪs]	#103 GRASStyoulay ['ɡɹæs·tʃuʊ·leɪ]
#27 klookt [kʰluʊkt]	#65 peekt [pʰiɪkt]	#104 faw [fɑ]
#28 BLAYgurd ['bleɪ·gəɪd]	#66 wowsh [waʊʃ]	#105 EKSFurgaytud ['ɛks·fə·geɪ·rəd]
#29 freeg [friɪɡ]	#67 ZAvich ['zæ·vɪtʃ]	#106 mahrLEED [maɪ·'liɪd]
#30 ARTfuhn ['ɑɪt·fən]	#68 KRAthul ['kʰɹæ·θʰ]	#107 uhGAZuhm [ə·'gæ·zəm]
#31 yuh [jʌʃ]	#69 IKetin ['aɪk·tɪn]	#108 AKbahr ['æk·baɪ]
#32 KREHrunce ['kʰɹɛ·ɹəns]	#70 ekSTRAYneeuh [ɛk·'stɹeɪ·ni·jə]	#109 REENTun ['ɹiɪn·tən]
#33 ark [ɑɪk]	#71 NURjip ['nə·dʒɪp]	#110 eeKAH [iɪ·'kʰɑ]
#34 KUMbyuhluhtiv ['kʰʌm·bɪə·lə·tɪv]	#72 disKERToe [dis·'kɛɪ·toʊ]	#111 BAHrook ['ba·ɹuʊk]
#35 SHEHree ['ʃɛ·ɹi]	#73 KAHRnuhree ['kʰɑɪ·nə·ɹi]	#112 pilnse [pʰɪns]
#36 ak [æk]	#74 slich [slɪtʃ]	#113 STIHful ['stri·fʰ]
#37 ride [ɹaɪd]	#75 BAHLturd ['baɪ·təɪd]	#114 peeMINT [pʰiɪ·'mɪnt]
#38 arkTOOwin [ɑɪk·'tʰuʊ·ɪn]	#76 URguld ['ə·ɡʰɪd]	#115 no response
	#77 mazGOObul [mæz·'guʊ·bʰ]	#116 drale [dɹɛɪ]

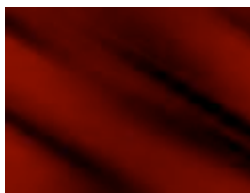
Definitions Requiring Words

Y. the name of the remotest island on earth

- #1 ilNEEzo [ɪt·'niː·zoʊ]
 #2 sinKLAIr [sɪn·'klæɪ]
 #3 POURsun ['pʰɔɹ·sən]
 #4 UHLSuhlow ['ʌt·sə·loʊ]
 #5 ooMEESHkuh [uʊ·'miʃ·kə]
 #6 fuhROOroo [fə·'ru·ru]
 #7 KENnuhluh ['kʰɪ·nə·lə]
 #8 sahmunHEYlo [sə·mən·'heɪ·lə]
 #9 bahb [bæb]
 #10 EEleen ['i·lin]
 #11 SEENtah ['sɪn·tə]
 #12 LAHNGun ['læn·ən]
 #13 koh [kʰoʊ]
 #14 LOWhoe ['lo·ho]
 #15 WEEbul ['wi·bʰ]
 #16 keepuhDAYleeuh [kʰiː·pʰə·'deɪ·li]
 #17 PLEHfurtaw ['pʰlɛ·fə·tʰə]
 #18 bihZAHro [bɪ·'zə·roʊ]
 #19 KOKo ['ko·ko]
 #20 WAYfla ['weɪ·flæ]
 #21 DEEtɛhk ['diː·tʰɛk]
 #22 shand [ʃænd]
 #23 AHBshtun ['æb·ʃtən]
 #24 YAIwahn ['jaɪ·wan]
 #25 no response
 #26 EYESbyeulz ['aɪz·baɪ·jɛz]
 #27 ZEEpuhluthahn ['ziː·pʰə·lə·θæn]
 #28 PIGguhnaree ['pʰɪ·gə·næ·ji]
 #29 uhTOOwul [ə·tʰuʊ·wʰ]
 #30 ALLmed ['æt·mɛd]
 #31 EEjee ['iː·dʒi]
 #32 SNARvunce ['snæɹ·vʌns]
 #33 SANfahr ['sæn·faj]
 #34 meduhRYEleeh [mɛ·rə·'jaɪ·liː·ə]
 #35 GONzinbread ['gən·zɪn·brɛd]
 #36 LOOpah ['luʊ·pʰə]
 #37 so [soʊ]
 #38 suhRIHnuhlahng [sə·'ɹɪ·nə·lan]
 #39 reeDEKS [riː·'dɛks]
 #40 booWAY [buʊ·'weɪ]
 #41 LOONduhrahld ['luʊn·də·ɹad]
 #42 muhSOWN [mə·'soʊn]
 #43 guhRAHT [gə·'ɹat]
 #44 LINlit ['lɪn·lɪt]
 #45 freesh [friːʃ]
 #46 FAHLsum ['fəɫ·səm]
 #47 TYkandur ['tʰaj·kʰæn·də]
 #48 OOsO ['uʊ·soʊ]
 #49 ekSPLEET [ɛk·'spliːt]
 #50 boeNIHdeeh [boʊ·'niː·riː·ə]
 #51 buhDAHruh [bə·'da·ɹə]
 #52 pahr [pʰaj]
 #53 heePEEzhioe [hiː·pʰiː·ziː·oʊ]
 #54 FLINdurahld ['flɪn·də·ɹad]
 #55 theLAHL [ðə·'ləɫ]
 #56 KLAktik ['kʰlæk·tɪk]
 #57 druhaGANToe [dɹə·'gæn·toʊ]
 #58 kanTEEkur [kʰæn·tʰiː·kə]
 #59 ahpuhZOray [ə·pə·'zo·ɹeɪ]
 #60 bayreeSOSah [be·ri·'so·sa]
 #61 MAHDsun ['mad·sən]
 #62 FAHrinz ['fəɹɪnz]
 #63 ahBOOwahaha [ə·'buʊ·wə·hə]
 #64 wole [woʊ]
 #65 AHmuhnahn ['a·mə·nan]
 #66 shuhRAH [ʃu·'ɹaj]
 #67 zouVAR [zoʊ·'vaj]
 #68 DEHzuhmd ['deɪ·zʌmd]
 #69 WOODOe ['wuʊ·doʊ]
 #70 KOOWith ['kʰuʊ·wɪθ]
 #71 GASlahn ['gæs·lan]
 #72 duhbestuhTAHray [də·bɛ·stə·tʰə·ɹeɪ]
 #73 SEHkuhl ['sɛ·kʰ]
 #74 LOWfakul ['loʊ·fæk·kʰ]
 #75 TEEgo ['tʰiː·goʊ]
 #76 splihnk [splɪŋk]
 #77 ruhNEZmay [ɹə·'nez·meɪ]
 #78 THINluh ['θɪn·lə]
 #79 suhRANtheen [sə·'ɹæn·θiːn]
 #80 klant [kʰlænt]
 #81 MAHNtie ['man·taɪ]
 #82 reeSIHfuris [riː·'sɪ·fəɹɪs]
 #83 NAvuhl ['næ·vʰ]
 #84 LARZHBahld ['lɑɹz·bæɫd]
 #85 SUKyoulow ['sʌ·kjuʊ·loʊ]
 #86 wong [wɔŋ]
 #87 owbuhNOOmuh [əʊ·bə·'nuʊ·mə]
 #88 ooWAYyou [uʊ·'weɪ·juʊ]
 #89 EEkwee ['iː·kwiː]
 #90 kenTAHWur [kɛn·tʰə·wəɹ]
 #91 RAHNduhlun ['ɹæn·də·lən]
 #92 uhLOUum [ə·'ləʊ·əm]
 #93 kwinZAShtik [kʰwɪn·'zæ·stɪk]
 #94 PEEswahf ['pʰiː·swaf]
 #95 kahndagway [kʰæn·dæ·gweɪ]
 #96 MOfaht ['moʊ·fæt]
 #97 siztk [sɪztk]
 #98 barsuhLUH [baj·sə·'laj]
 #99 uhZAIL [ə·'zeɪɫ]
 #100 SEPshus ['sɛp·ʃəs]
 #101 HINyuhluht ['hɪn·jə·lət]
 #102 kahLAHskay [kə·'las·keɪ]
 #103 DAHRdeeful ['daj·diː·fuɫ]
 #104 barse [bars]
 #105 kuhLOOshah [kə·'luʊ·ʃaj]
 #106 duhPAHRstuh [də·'pʰaj·stə]
 #107 loRAYshun [lo·'ɹeɪ·ʃən]
 #108 SEEnoo ['siː·nuʊ]
 #109 RISlin ['ɹɪs·lɪn]
 #110 ahntehnoe [æn·tɛn·oʊ]
 #111 toeLEEnee [tʰoʊ·'liː·niː]
 #112 ahrKIHDuhmin [aj·kʰɪ·rə·mɪn]
 #113 zoomBOHBah [zum·'bo·ba]
 #114 KEEroon ['kʰiː·ruʊn]
 #115 no response
 #116 PIHfruh ['pʰɪ·fɹə]

Question Data Sheet

Images Requiring Words

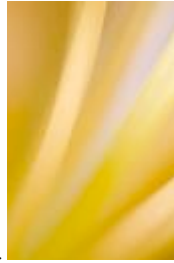


Z.

#1 tahsh [tʰaʃ:]	#41 DRAsuhnayte ['dʲæ · sə · neʲtʰ]	#79 jurRANtheeum [dʒæ · 'jæ · n · ʰeʲ · ʰə]
#2 glahbz [glabz]	#42 BROmeen ['bʲoʷ · miʲn]	#80 laft [læft]
#3 bleesh [bliʃ]	#43 pruhst [pʰʲast]	#81 BAHRDsoo ['baɪd · suʷ]
#4 ROOZHlow ['ʲuʷʒ · loʷ]	#44 KILLkin ['kʰʲɪ · kʰʲɪn]	#82 MEENtow ['miʲn · taʷ]
#5 eeLAKsaytud [iʲ · 'læk · seʲ · rədʰ]	#45 uhMYOUL [ə · 'mjuʷ]	#83 REHzite ['ʲe · zəʲtʰ]
#6 DIEkuhn ['daʲ · kʰə]	#46 LEEzum ['liʲ · zəʰ]	#84 SPORGnahsh ['spɔɹg · naʃ]
#7 hahlm [həʈm]	#47 UHnurest ['ʌ · nə · ʲest]	#85 KRIHsuhnit ['kʰʲɪ · sə · nitʰ]
#8 RAHGflin ['ʲag · flɪn]	#48 EEkoe ['iʲ · kʰoʷ]	#86 ROWfuhree ['ʲoʷ · fə · ʲiʲ]
#9 SNEHtul ['sɳe · rəʰ]	#49 fasTishis [fæs · 'tɪ · ʃɪs]	#87 muhKAHNdruh [mə · 'kʰan · dʲə]
#10 HAHdeh ['ha · dɛ]	#50 duhFIHneun [də · 'fɪ · niʲ · ʰə]	#88 FLAYyur ['fleʲ · jə]
#11 breef [brɪf]	#51 SHWEHshur ['ʃwe · ʃə]	#89 TALkun ['tʰæʲ · kə]
#12 kluhVET [kʰʲlə · 'vɛt]	#52 kresh [kʰʲɛʃ]	#90 MAHNtihg ['man · tiɹg]
#13 SHAHrohn ['ʃa · ʲoʷn]	#53 uhFRAYzhuhfoyd [ə · 'fjeʲ · ʒə · fɔʲdʰ]	#91 fuhLINCH [fə · 'lɪntʰ]
#14 suhLOWST [sə · 'loʷst]	#54 RIKtur ['ɪk · tə]	#92 deeROUK [diʲ · 'jaʷk]
#15 flim [flɪm]	#55 shand [ʃænd]	#93 pehlz [pʰɛʲz]
#16 skuhNAYshus [skə · 'neʲ · ʃəs]	#56 VINCEtik ['vɪns · tɪk]	#94 VEEnaht ['viʲ · natʰ]
#17 SAfee ['sæ · fiʲ]	#57 rooDAN [ʲuʷ · 'dæn]	#95 SWIndoo ['swɪn · duʷ]
#18 WIHzuhree ['wi · zə · ʲiʲ]	#58 AHRfiht ['aʰ · fɪt]	#96 swahnSOHN [swan · 'soʷn]
#19 no response	#59 LEHsunsoul ['le · səʰ · soʷ]	#97 SWOolur ['swuʷ · lə]
#20 fanTAYshin [fæn · 'tʰeʲ · ʃɪn]	#60 row [ʲoʷ]	#98 aGROWzhuh [æ · 'gʲoʷ · ʒə]
#21 LAzur ['læ · zə]	#61 LOOBnaht ['luʷb · natʰ]	#99 MAYrah ['meʲ · ʲa]
#22 ruhWOOD [ʲə · 'wud]	#62 ZEErahd ['ziʲ · ʲad]	#100 WINDuld ['win · dəʰd]
#23 RANnuhk ['ʲæ · nək]	#63 vuhRAHnuh [və · 'ʲa · nə]	#101 RAYzee ['ʲeʲ · ziʲ]
#24 SLYdud ['slaʲ · rəd]	#64 rat [ʲætʰ]	#102 puhSAMuhnus [pə · 'sæ · mə · nəʃ]
#25 no response	#65 strahd [stɪad]	#103 SHEEblay ['ʃiʲ · bleʲ]
#26 ish [ɪʃ]	#66 suhWED [sə · 'wɛdʰ]	#104 seer [siʲ]
#27 zeeNYAHnuhn [ziʲ · 'njə · nə]	#67 duhMOWSE [də · 'moʷs]	#105 MARuhnz ['mæɹ · ʰəʒ]
#28 RIZlin ['ɹɪz · lɪn]	#68 WAHthul ['wa · ʰəʰ]	#106 ROHNduhn ['ʲoʷn · də]
#29 SEElee ['siʲ · liʲ]	#69 shold [ʃoʷd]	#107 STRAzul ['stɪæ · zəʰ]
#30 states [steʲts]	#70 flooEESH [fluʷ · iʲ]	#108 RAHzuhm ['ʲa · zəʰ]
#31 bluh [blʌh]	#71 SEERguhn ['siʲ · gə]	#109 inTAYshun [ɪn · 'tʰeʲ · ʃə]
#32 SNARvunce ['snaɹ · vəʰs]	#72 ahnostuhLEHtay [a · noʷ · stə · 'le · teʲ]	#110 LEploee ['lɛp · loʷ]
#33 dahrɪ [daɪf]	#73 rahss [ɹas]	#111 zwahzh [zwaʒ]
#34 ruhFYOUzhun [ʲə · 'fjuʷ · ʒə]	#74 rowBLAHNSH [ʲoʷ · 'blāʃ]	#112 spink [spɪŋk]
#35 BOWun ['baʷ · wə]	#75 REKrahd ['ɹek · ʲad]	#113 FAHNduhroe ['fan · də · ʲoʷ]
#36 shwed [ʃwɛd]	#76 MARsin ['maɹ · sɪn]	#114 BRAHbluht ['bɹa · blətʰ]
#37 freed [friʲd]	#77 MYOUZEKik ['mjuʷ · z · kɪk]	#115 no response
#38 uhLAHNduhrah [ə · 'lan · də · ʲad]	#78 binz [bɪnz]	#116 moze [moʷz]
#39 SWAYzahn ['sweʲ · zən]		
#40 jay [dʒeʲ]		

Question Data Sheet

Images Requiring Words



a.

#1 tihsh [tʰɪʃ]	#39 PREKsahn [ˈpʰɛkˌsɑn]	#77 wahDROpuhn [waˌˈdʒoʊˌpəŋ]
#2 WINstruhn [ˈwɪnˌstɹʊn]	#40 grite [ɡɹaɪt]	#78 sahl [sal]
#3 flurREHsunt [fləˌˈɹɛˌsəŋt]	#41 FLANteek [ˈflænˌtiːk]	#79 hoZAYuhtheen [hoʊˌˈzeɪˌəˌθiːn]
#4 LOWsun [ˈloʊˌsʊn]	#42 SOOnuh [ˈsoʊˌnə]	#80 tihz [tʰɪz]
#5 KAHNfurmayteeng [ˈkʰɑnˌfəˌmeɪˌtɛŋ]	#43 deeYAHN [diːˌˈjɑn]	#81 SANsee [ˈsænˌsi]
#6 shin [ʃɪn]	#44 mooLAY [muʊˌˈleɪ]	#82 tooLIHfuhrus [tuʊˌˈliˌfəˌəs]
#7 yah [jɑʰ]	#45 SYrunee [ˈsaɪˌrənɪ]	#83 DANduhful [ˈdænˌdəˌfʊl]
#8 BLASturd [ˈblæsˌtəd]	#46 tuhneyeLAYshus [təˌnaɪˌˈleɪˌʃəs]	#84 ahlBYyah [ɑˌˈbaɪˌjɑ]
#9 FRIHtul [ˈfɹɪˌrʊt]	#47 FRAGmyur [ˈfɹægˌmaɪˌə]	#85 RAHlow [ˈɹɑˌloʊ]
#10 preen [prin]	#48 seeNEEV [siːˌˈniːv]	#86 TWILEfurvur [ˈtwaɪˌfəˌvə]
#11 SHOOwah [ˈʃuˌwa]	#49 RESpluhgahnk [ˈɹɛsˌpləˌgɑŋk]	#87 BRIHtuhnuh [ˈbɹɪˌtəˌnə]
#12 FLYtus [ˈflaɪˌtəs]	#50 kahlSIHneeun [kɑˌˈsɪˌniːˌəŋ]	#88 JELbroom [ˈdʒɛˌbɹuˌm]
#13 LAHpee [ˈlaˌpi]	#51 wahRAHvoo [waˌˈɹɑˌvu]	#89 muhLAY [məˌˈleɪ]
#14 YAHstah [ˈjaˌsta]	#52 GAHRmin [ˈɡɑˌmɪn]	#90 klehDAIR [kleˌˈdeɪ]
#15 splaht [splɑt]	#53 MEGuhstrahn [ˈmɛˌgəˌstɹɑn]	#91 sahlDERuh [sɑˌˈdeɪˌɹə]
#16 duhBITEnes [dəˌˈbaɪtˌˌnɛs]	#54 slahl [slɑt]	#92 RYbur [ˈɹɑɪˌbə]
#17 BINduhl [ˈbɪnˌdʊt]	#55 flit [flɪt]	#93 glehSINT [gleˌˈsɪnt]
#18 yorsh [jɔɹʃ]	#56 TYpoov [tʰaɪˌpuˌv]	#94 SYkahn [ˈsaɪˌkɑn]
#19 no response	#57 guhLAHN [gəˌˈlan]	#95 SWAHRnuhkahm [ˈswɑɹˌnəˌkɑm]
#20 pruhst [pʰɹʌst]	#58 RAYahr [ˈɹeɪˌɑɪ]	#96 floRAYD [floˌˈɹeɪd]
#21 SHINTahk [ˈʃɪnˌtak]	#59 ahRAYzul [ɑˌˈɹeɪˌzʊl]	#97 SWAHFnip [ˈswafˌnɪp]
#22 helt [hɛlt]	#60 sownTAY [sonˌˈteɪ]	#98 LIHnul [ˈliˌnʊl]
#23 ahSHOON [ɑˌˈʃuˌn]	#61 SAHmul [ˈsaˌmʊl]	#99 yahtSHOOL [jɑtˌˈʃuˌl]
#24 YAKmee [ˈjækˌmi]	#62 dan [dæn]	#100 ZASpuhr [ˈzæsˌpə]
#25 no response	#63 LAHtuhkuh [ˈlaˌrəˌkə]	#101 YIHbruh [ˈjiˌbrə]
#26 ites [aɪts]	#64 lull [lʌt]	#102 KREEuhthee [ˈkʰɹiˌəˌθiː]
#27 uhLOOburh [əˌˈluˌˌbʊə]	#65 uhLOOtuhn [əˌˈluˌˌtəŋ]	#103 VIHbulgail [ˈviˌbʊˌgæɪ]
#28 SINTree [ˈsɪnˌtri]	#66 suhROO [səˌˈɹu]	#104 youWITE [juˌˌˈwaɪt]
#29 YELbee [ˈjɛˌbi]	#67 LAzit [ˈlæˌzɪt]	#105 buhMILyin [bəˌˈmɪtˌˌjɪn]
#30 LEEtuhn [ˈliˌˌtəŋ]	#68 RIMfum [ˈɹɪmˌfʊm]	#106 vraht [vɹɑʊt]
#31 brah [brɑh]	#69 wahn [wan]	#107 PEEuhzay [ˈpʰiˌəˌzeɪ]
#32 BLIHvuntahrnee [ˈbliˌvəŋˌˌtɑɹns]	#70 BREelite [ˈbɹiˌleɪt]	#108 FLEEguhl [ˈfliˌgʊt]
#33 swipf [swɪpf]	#71 JESSlahv [ˈdʒɛsˌlav]	#109 FREEKstuhn [ˈfɹiˌkˌstəŋ]
#34 bayANnuh [beɪˌˈæˌnə]	#72 kahlahbahrNAHtay [kaˌˈlaˌbaɹˌˈnaˌteɪ]	#110 SIHchoe [ˈsɪˌtʃoʊ]
#35 SOOess [ˈsoʊˌɛs]	#73 bloush [blaʊʃ]	#111 feeLAH [fiˌˈla]
#36 BREEO [ˈbɹiˌoʊ]	#74 yee [ji]	#112 dowch [daʊtʃ]
#37 leem [liːm]	#75 DIHful [ˈdiˌfʊl]	#113 SPAHRtuhlik [ˈspaɹˌrəˌlɪk]
#38 FLOreeahl [ˈfloˌɹiˌɑt]	#76 kwahn [kʰwan]	#114 PAYyahn [ˈpʰeɪˌjan]
		#115 no response
		#116 kabe [kʰeɪb]

Question Data Sheet

Images Requiring Words



b.

#1 KRAmul ['kʰɹæ · mʰ]	#40 BLAYmee ['bleɪ · mi]	#80 sohnt [soʷnt]
#2 BUHbultuhn ['bʌ · bʰ · tʰ]	#41 WAHvree ['wa · vɹi]	#81 TOWNby ['tʰaʷn · ba]
#3 sihRAYshis [sɪ · 'ɹeɪ · ʃɪs]	#42 ahnTAHveeng [an · 'tʰa · viŋ]	#82 gwarduhMEEum [gwaɹ · də · 'miɪ · əm]
#4 yurb [jəb]	#43 plaht [pʰlat]	#83 mipe [maɪp]
#5 shweest [ʃwiɪst]	#44 KAluhr ['kʰæ · lə]	#84 WASHburdul ['waʃ · bə · rʰ]
#6 NEHtoe ['nɛ · toʷ]	#45 arth [aɹθ]	#85 SWURmul ['swə · mʰ]
#7 SAHlow ['sa · loʷ]	#46 KORduhlizm ['kʰɹɹ · rə · lɹ · zə]	#86 SWINzee ['swɪn · zi]
#8 kayneFAYgun [kʰeɪn · 'feɪ · gə]	#47 BLINdahr ['blɪn · daɹ]	#87 hahmuhNEEyuh [ha · mə · 'niɪ · ə]
#9 PLEUsheul ['pʰlʊ · ʃɪ]	#48 haiFOOtoe [haɪ · 'fuʷ · tʰoʷ]	#88 PEEsum [pʰiɪ · sə]
#10 shoun [ʃaʷn]	#49 foosh [fuʷ]	#89 ahVAIR [a · 'veɪ]
#11 pahn [pan]	#50 ehPIHkwihte [ɛ · 'pʰɹ · kwɪ · ri]	#90 TROObur ['tʰɹuʷ · bə]
#12 BLEKtus ['blek · təs]	#51 SRAHNtee ['sɹan · ti]	#91 KOOfin ['kʰuʷ · fɪn]
#13 bahz [baz]	#52 belv [bɛlv]	#92 vuhRAHM [və · 'ɹam]
#14 KOostah ['kʰuʷ · stə]	#53 smeel [smiɪ]	#93 duhBAHNtuhree [də · 'ban · tə · ɹi]
#15 TRAHHyouulus ['tʰɹam · juʷ · ləs]	#54 slynt [slaɪnt]	#94 WINshahn ['wɪn · ʃan]
#16 bruhBEHruhtee [brʌ · 'bɛɹ · rə · ti]	#55 WASHroo ['waʃ · ɹuʷ]	#95 inFAIRdus [ɪn · 'fæɪɹ · rəs]
#17 PLANdee ['pʰlæn · di]	#56 BLAYthik ['bleɪ · ðɪk]	#96 blahSAYD [bla · 'seɪd]
#18 blæss [blæəs]	#57 DRABul ['dɹæ · bʰ]	#97 SOOLrik ['suʷ · ɹɪk]
#19 no response	#58 EEvurneer ['iɪ · və · niɪɹ]	#98 wursh [wəʃ]
#20 ZOOluf ['zuʷ · ləf]	#59 dyTIHNSun [daɪ · 'tʰɪn · sən]	#99 kway [kʰweɪ]
#21 WAVrum ['wæv · ɹə]	#60 vool [vuʷ]	#100 eeYAHtuk [iɪ · 'ja · rək]
#22 welb [wɛlb]	#61 UPléd ['ʌp · lɛd]	#101 HIMtuhm ['hɪm · tʰm]
#23 AHboosh ['a · buʷ]	#62 WINair ['wɪ · nɛɹ]	#102 uhFEEleeuh [ə · 'fiɪ · lɹə]
#24 HAHRlee ['haɹ · li]	#63 PEHruhtahl ['pʰɛ · ɹə · tʰ]	#103 BAKurwahp ['bæ · kə · wap]
#25 no response	#64 SKARow ['skæ · ɹoʷ]	#104 hooURrul [huʷ · 'ə · ɹʰ]
#26 ooze [u:ʷz]	#65 OOLid ['uʷ · lɪd]	#105 BAHRRayve ['ba · ɹeɪv]
#27 MEEleeyum ['miɪ · li · jə]	#66 suhWAID [sə · 'weɪd]	#106 vair [veɪ]
#28 WELLfur ['wɛl · fə]	#67 SAreez ['sæ · ɹiɪz]	#107 sahn [san]
#29 BLOshun ['bloʷ · ʃən]	#68 AHkul ['a · kʰ]	#108 AHRboe ['aɹ · boʷ]
#30 DEHpuhn ['dɛ · pʰ]	#69 meeg [miɪg]	#109 DEStuhtor ['dɛ · stə · tɹɹ]
#31 woo [wuʷ]	#70 FLIMbee ['flɪm · bi]	#110 lahsh [la:ʃ]
#32 KREHrunce ['kʰɹɛ · ɹəns]	#71 uhWEERdreh [ə · 'wiɪɹ · dɹɛ]	#111 WIHlee ['wɪ · li]
#33 smool [smuʷ]	#72 anahzuhNETay [a · na · zə · 'nɛ · teɪ]	#112 doof [duʷf]
#34 wihlowBARik [wi · loʷ · 'bæ · ɹɪk]	#73 breen [bɹiɪn]	#113 WAHNdish ['wan · dɪ]
#35 buhNEER [bə · 'niɪɹ]	#74 oat [oʷt]	#114 kahrch [kʰaɪt]
#36 SHOOful ['ʃuʷ · fʰ]	#75 KWAgul ['kʰwæ · gʰ]	#115 no response
#37 KOlo ['kʰoʷ · loʷ]	#76 SPLIHnur ['splɪ · nə]	#116 pluhKORreeyus [plə · 'kʰɹɹ · ɹiɪ · əs]
#38 KAHluhrah [kʰa · lə · ɹan]	#77 KASKuhnine ['kʰæs · kə · naɪn]	
#39 surREZ [sə · 'ɹɛz]	#78 hoo [xu]	
	#79 hoPLYneerus [hoʷ · 'pʰlaɪ · niɪ · əs]	

Question Data Sheet

Images Requiring Words



#1 igZEMpuhtuhd [ɪg · 'zɛm · pə · təd]
 #2 poe [pʰoʷ]
 #3 KApreeshis ['kʰæ · pɹiː · ʃɪs]
 #4 Apuhmuh ['æ · pə · mə]
 #5 schmeesh [ʃmiːʃ]
 #6 KOray ['kʰɔ · ɹeː]
 #7 pahrg [pʰaɹg]
 #8 FREEmah ['fɹiː · məːh]
 #9 yahGROO [jə · ɡɹuʷ]
 #10 kultohNAhtah [kul · to · 'na · ta]
 #11 wan [wan]
 #12 frepsh [fɹɛpʃ]
 #13 DEEzee ['diː · ziː]
 #14 ahnahTEHguh [ə · na · 'tʰɛ · ɡoʷ]
 #15 VUHguhbul ['vʌ · ɡə · bʰ]
 #16 brehBEHruhtee [brɛ · 'bɛ · ɹə · tiː]
 #17 GREHpul ['ɡɹɛ · pʰ]
 #18 AHRnuhmik ['aɹ · nə · mɪk]
 #19 no response
 #20 puhLAYshis [pə · 'leː · ʃɪs]
 #21 EKsit ['ɛk · sɪt]
 #22 kuhPAN [kə · 'pʰæn]
 #23 SKANtush ['skæn · təʃ]
 #24 DINGfuhrah ['dɪŋ · fə · ɹa]
 #25 no response
 #26 WYuhldyke ['waː · ɹ · daːk]
 #27 TEENtyoulow ['tʰiːn · tʰjəʷ · loʷ]
 #28 SUNfrin ['sʌn · fɹɪn]
 #29 uhTRYgul [ə · 'tʰɹaː · ɡʰ]
 #30 MOOnee ['muʷ · niː]
 #31 kras [kʰɹæs]
 #32 krihmuhZAtik [kɹɪ · mə · 'za · rɪk]
 #33 PLApee ['pʰlæ · piː]
 #34 ruhDARK [ɹə · 'daɹk]
 #35 arBREEzhun [aɹ · 'brɪː · ʒəŋ]
 #36 MEHdeeyahd ['mɛ · riː · jad]
 #37 SIMbrik ['sɪm · brɪk]
 #38 GANjah [gæn · ʒaʃ]
 #39 PLAYzahn ['pʰleː · zan]
 #40 FRAHlee ['fɹa · liː]

#41 fuhNEEK [fə · 'niːk]
 #42 kunJYveeng [kən · 'dʒaː · vɪŋ]
 #43 KLAHthuhtahn ['kla · ʔə · tʰan]
 #44 KILtuhr ['kʰɪt · tə]
 #45 kuhnTRUuhtee [kən · 'tʰɹuʷ · ə · tiː]
 #46 vehjuhNALuhsis [vɛ · ʒə · 'næ · lə · sis]
 #47 nahdoonlee [na · duʷn · liː]
 #48 KAIzee ['kʰaː · ziː]
 #49 RAHstuh [ɹas · təs]
 #50 kradGOnueuhn [kʰɹæd · 'ɡoʷ · niː · əŋ]
 #51 GROWfahr ['ɡɹoʷ · faɹ]
 #52 BAYluh ['beː · lə]
 #53 MEHtuhdys ['mɛ · rə · daːs]
 #54 KWAHNtrowz ['kʰwan · tɹoʷz]
 #55 filt [fɪlt]
 #56 ZLAKtik ['zlæk · tɪk]
 #57 orTANdee [ɔɹ · 'tʰæn · diː]
 #58 urTASStik [ə · 'tʰæ · stɪk]
 #59 FYhue ['faː · hjuʷ]
 #60 kooleeYEAH [ku · li · 'jæ]
 #61 BINSid ['bɪn · sɪd]
 #62 breeYELzin [brɪː · 'jɛt · zin]
 #63 BURLah ['bə · lax]
 #64 SURrouse ['sə · ɹaʷs]
 #65 WAHMdin ['wam · dɪn]
 #66 oash [oʷʃ]
 #67 juhMEESH [ʒə · 'miːʃ]
 #68 PARthum ['pʰaɹ · ʔəŋ]
 #69 LEDee ['lɛ · riː]
 #70 JOOleelahnd ['dʒuʷ · liː · land]
 #71 GREftuhr ['ɡɹɛf · tə]
 #72 goostahFAHray [ɡuʷ · sta · 'fa · ɹeː]
 #73 assLOWNT [æs · 'loʷnt]
 #74 zhahnd [ʒənd]
 #75 JAHRgundeen ['dʒaɹ · ɡəŋ · diːn]
 #76 PALuhtoe ['pʰæ · lə · toʷ]
 #77 BLEFfunkahr ['blɛ · fəŋ · kaɹ]
 #78 SPEEpee ['spiː · piː]

#79 bringe [brɪndʒ]
 #80 MIHtuhr ['mɪ · rə]
 #81 mahrTOO [maɹ · 'tʰuʷ]
 #82 SKROOPchuhmeerd ['skɹuʷp · tʰə · miːɹd]
 #83 AHBlites ['ab · laːts]
 #84 SHARKulnart ['ʃaɹ · kʰ · naɹt]
 #85 uhMETruhkuk [ə · 'mɛ · tɹə · kə]
 #86 SATuhtize ['sæ · rə · taːz]
 #87 ZIHburit ['zi · bə · ɹɪt]
 #88 MISHmish ['mɪʃ · mɪʃ]
 #89 TEEful ['tʰiː · fə]
 #90 DIGnahr ['dɪɡ · naɹ]
 #91 nehRITuk [nɛ · 'ɹɪ · rək]
 #92 KRAYshahn ['kʰɹeː · ʃan]
 #93 dak [dæk]
 #94 RAHDshin ['ɹad · ʃɪn]
 #95 FAHRdahn ['faɹ · ran]
 #96 muhKHAD [mə · 'kʰad]
 #97 ZUKfur [zʌk · fə · ɹʰ]
 #98 broamst [brɔʷmst]
 #99 MADstuh ['mæd · stə]
 #100 swahsh [swaʃ]
 #101 brayTOOS [brɛː · 'tʰuʷs]
 #102 moZEEtheeuh [moʷ · 'ziː · ʔiː · ə]
 #103 ardooKALE [aɹ · duʷ · 'kʰɛː]
 #104 BAREsuhluh ['bɛɹ · sə · lə]
 #105 muhTURin [mə · 'tʰə · ɹɪn]
 #106 afuhRAHNduh [æ · fə · 'ɹan · də]
 #107 burRABjuhnee [bə · 'ɹæb · ʒə · niː]
 #108 JILuhm ['dʒɪ · ləŋ]
 #109 FRAHTdor ['fɹat · dɔɹ]
 #110 gahmBEN [gam · 'ben]
 #111 CHAMblat ['tʰæm · blæt]
 #112 reesh [ɹiːʃ]
 #113 muhmBRAHloe [məm · 'bra · loʷ]
 #114 kazMAYshun [kæz · 'meː · ʃəŋ]
 #115 no response
 #116 GLEENsiv ['gliːn · sɪv]

Question Data Sheet

Images Requiring Words



- #1 STOOpee ['stu^w · pi^j]
- #2 LOWthursuhm ['lo^w · ðə · sə^m]
- #3 kuhnSKWURuld
[kə^h · 'skwə · ɹə^ld]
- #4 YURlee ['juɹ · li^j]
- #5 ahnZHOYyuhmake
[an · 'ʒɔ^j · jə · me^jk]
- #6 SAYvis ['se^j · vis]
- #7 WHURtul ['wə · ɹə^l]
- #8 WURLside ['wə^l · sa^jd]
- #9 SKWIHtul ['skwi · ɹə^l]
- #10 treen [trin]
- #11 ROOwahn ['ru · wan]
- #12 RIHzul ['ɹi · zə^l]
- #13 KAHzul ['k^ha · zə^l]
- #14 BOOguhvihluh
['bu^w · gə · vi · lə]
- #15 SLYthee ['sla^j · ði^j]
- #16 TWENtee ['t^hwen · ti^j]
- #17 WAHlin ['wa · lin]
- #18 SLAdik ['slæ · rik]
- #19 shahn [ʃan]
- #20 SOHfand ['so^w · fænd]
- #21 KHANjahr ['k^han · dʒaɹ]
- #22 SWIHtrip ['swi · tɹip]
- #23 ahBAHSH [a · 'baʃ]
- #24 KYOUzee ['k^hju^w · zi^j]
- #25 no response
- #26 Anurest ['æ · nə · ɹest]
- #27 sklookt [sklu^wkt]
- #28 GANgurleeng ['gæŋ · gə · lin]
- #29 LOWgrain ['lo^w · gɹe^jn]
- #30 SURee ['sə · i^j]
- #31 spuhr [spəɹ] (schwa raised)
- #32 likwuhNYzuh [li · kwə · 'na^j · zə]
- #33 naysh [ne^jʃ]
- #34 SHWAzul ['ʃwæ · zə^l]
- #35 LARuhd ['læ · ɹəd]
- #36 GRASsuhd ['gɹæ · səd]
- #37 SYlahn ['sa^j · lan]
- #38 SMORguhn ['smɔɹ · gə^h]
- #39 SWAYez ['swe^j · ez]

- #40 SINGkee ['sin · ki^j]
- #41 AHNGyet ['aŋ · jət]
- #42 uhVAYbeeng [ə · 've^j · biŋ]
- #43 fret [fɹet]
- #44 ROWvuhn ['ɹo^w · və^h]
- #45 SWELkuhm ['swet · kə^m]
- #46 juruhLAHsum [dʒu · ɹə · 'la · sə^m]
- #47 MAYvuhlahr ['me^j · və · laɹ]
- #48 BIHzo ['bi · zo^w]
- #49 SVIHzul ['svi · zə^l]
- #50 aluhSTAYshus [æ · le · 'ste^j · ʃis]
- #51 reeMAHruh [ɹi^j · 'ma · ɹə]
- #52 time [t^ha^jm]
- #53 SWAHMbee ['swam · bi^j]
- #54 skwahlsh [skwaʃ]
- #55 sprah [spɹa]
- #56 wampt [wə^jmt]
- #57 SWANtuhd ['swə^jn · təd]
- #58 grihSAHR [gɹi · 'saɹ]
- #59 suhRANnuh [sə · 'ɹæ · nə]
- #60 PRAYnah ['pre · na]
- #61 KAHNled ['k^han · led]
- #62 KAHNtruhp ['k^han · tɹəp]
- #63 kahlahMOO [ka · la · 'mu^w]
- #64 LAHRgow ['laɹ · go^w]
- #65 STILdin ['sti^l · diŋ]
- #66 suhWURK [sə · 'wə^hk]
- #67 SAIyahk ['sa^j · ak]
- #68 SMURthur ['smə · ðə^h]
- #69 KRIHpee ['k^hɹi · pi^j]
- #70 suhKLEEzeeuh [sə · 'k^hli^j · zi^j · ə]
- #71 SHURwell ['ʃə · wet]
- #72 porPOR [p^hɔɹ · 'p^hɔɹ]
- #73 MAHrul ['ma · ɹə^l]
- #74 resh [ɹeʃ]
- #75 FEEmuhl ['fi^j · mə^h]
- #76 ESSwall ['es · wəʃ]
- #77 mahmunTEHrus
[ma · mə^h · 't^hɛ · ɹəs]
- #78 SOwee ['so · wi^j]
- #79 swahnt [swant]

- #80 gleer [gli^jɹ]
- #81 ZEEvee ['zi^j · vi^j]
- #82 skwidTAHroo [skwid · 't^ha · ɹu^w]
- #83 KIHpee ['k^hi · pi^j]
- #84 KAHMbulnahsh
['k^ham · bə^h · naʃ]
- #85 SKRIMyuhlus ['skɹim · jə · ləs]
- #86 HYponis ['ha^j · po^w · nis]
- #87 huhRIHFnuh [hə · 'ɹɪf · nə]
- #88 LURlee ['lə · li^j]
- #89 ROObul ['ɹu^w · bə^h]
- #90 GASnuh ['gæs · nə]
- #91 KLAHLmuhlin ['k^hla^t · mə · lin]
- #92 KEErow ['k^hi^j · ɹə^w]
- #93 swelp [swetp]
- #94 GREEnaht ['gɹi^j · nat]
- #95 BAHluhkay ['ba · lə · ke^j]
- #96 wuhSHELL [wə · 'ʃet]
- #97 URVlin ['əv · lin]
- #98 mihLAHNGE [mi · 'landʒ]
- #99 OOvuhnuh ['u · və · nə]
- #100 KRIHNduhd ['k^hɹiŋ · də^hd]
- #101 SIHNtum ['sin · təm]
- #102 disTRIHNseeuh
[dis · 't^hɹiŋ · si^j · ə]
- #103 SPIHlihkuhs ['spi · li · kəs]
- #104 KANEpee ['k^he^jn · pi^j]
- #105 spurRIHshus [spə · 'ɹi · ʃəs]
- #106 shmeel [ʃmi^h]
- #107 SANKtun ['se^jŋk · tən]
- #108 URgul ['ə · gə^h]
- #109 SWAHPshun ['swap · ʃən]
- #110 SOOgahsh ['sə^w · gaʃ]
- #111 VIHzig ['vi · ɹiɡ]
- #112 BIHlut ['bi · lət]
- #113 LENDahlee ['len · da · li^j]
- #114 SPRAYlur ['spɹe^j · lə^h]
- #115 no response
- #116 CHAHprus ['tʃap · ɹəs]

Question Data Sheet

Images Requiring Words



#1 buhZAYN [bə·'zeɪn]	#39 DREKsahn [ˈdɹɛk·sɑn]	#78 tie [tʰaɪ]
#2 WORDsuhn [ˈwɔd·sən]	#40 KAHRdee [ˈkʰɑɪ·di]	#79 uhRANKnoo [ə·'jeɪŋk·nuʷ]
#3 KYOUpuhtime [ˈkʰjuʷ·pə·taɪm]	#41 LAHkuhnair [ˈla·kə·nɛɪ]	#80 kahm [kʰam]
#4 melGLOW [mɛl·'ɡloʷ]	#42 BRAHkeeng [ˈbrɑ·kɪŋ]	#81 RATsof [ˈræt·sɑf]
#5 disuhRANjuhnayt [dɪ·sə·'ɹæn·dʒə·neɪt]	#43 TRIHtuhrbite [ˈtʰɪɪ·rə·baɪt]	#82 toeLIHfum [toʷ·'li·fəm]
#6 BYtint [ˈbaɪ·tɪnt]	#44 WUDwahnk [ˈwud·wɑŋk]	#83 DANdurful [ˈdæn·də·fəl]
#7 tard [tʰɑɪd]	#45 disTRANuhfy [dɪs·'tʰɹæ·nə·faɪ]	#84 DARGnahdul [ˈdɑɪɡ·nɑ·rəl]
#8 RAHKshtur [ˈɹɑk·ʃtə]	#46 SAYsum [ˈseɪ·səm]	#85 TUHguhluhge [ˈtʰʌ·gə·lədʒ]
#9 KRAHtul [ˈkʰɹɑ·rəl]	#47 kwairMEER [kʰweɪɪ·'miɪɹ]	#86 PLEKstul [ˈpʰlɛk·stəl]
#10 KAHRkoil [ˈkar·kɔɪl]	#48 seenguy [sɪŋ·gaɪ]	#87 fowEHtruhkuh [foʷ·'ɛ·tɹə·kə]
#11 GREego [ˈɡri·ɣo]	#49 skat [skæt]	#88 BOONGkoo [ˈbuʷŋ·kuʷ]
#12 RAHNtuh [ˈɹɑn·tə]	#50 zimFREhtik [zɪm·'fɹɛ·ɾɪk]	#89 ahPEE [a·pʰiɪ]
#13 FLOOpahp [ˈfluʷ·pʰɑp]	#51 vuhRAHNtis [və·'ɹɑn·tɪs]	#90 SUMpahɹ [ˈsʌm·pʰɑɪ]
#14 peeYAHtsah [pi·'ja·tsɑ]	#52 karse [kʰɑɪs]	#91 nuhDAKsik [nə·'dæk·sɪk]
#15 GHIMblee [ˈɡɪm·bliɪ]	#53 mahROWtuh [ma·'ɹoʷ·tə]	#92 CHEEKahks [tʃɪɪ·kaks]
#16 SKWAHNduhrnes [ˈskwaɪn·də·nɛs]	#54 buhTRAHpuhlɪs [bə·'tʰɹɑ·pə·lɪs]	#93 DOElahkt [ˈdoʷ·ləkt]
#17 BLAthin [ˈblæ·ðɪn]	#55 flak [flæk]	#94 KOHwuht [kʰoʷ·wət]
#18 FYOUNuhr [ˈfjuʷ·nə]	#56 BLAHRtee [ˈblɑɪ·riɪ]	#95 RYnuhkin [ˈɹaɪ·nə·kɪn]
#19 kreek [kɹɪk]	#57 purLOOF [pʰə·'luʷf]	#96 taKODE [tæ·'kʰoʷd]
#20 kwihLAYshin [kʰwi·'leɪ·ʃɪn]	#58 GUNdoor [ˈɡʌn·dɔɪ]	#97 MAHNkwaht [ˈman·kʰwat]
#21 MOLTuhr [ˈmɔɪ·tə]	#59 vySINTay [vaɪ·'sɪn·teɪ]	#98 kunGAHRdeeh [kʰəŋ·'ɡɑɪ·diɪ·ə]
#22 muhKAHN [mə·'kʰɑn]	#60 KAYoe [ˈka·jo]	#99 toeTAIR [to·'tʰɛɪɹ]
#23 ZHERKnik [ˈʒə·kɪ·nɪk]	#61 TINSahnt [ˈtʰɪn·sɑnt]	#100 luhBELD [lə·'bɛɪd]
#24 WEEnofone [ˈwiɪ·noʷ·foʷn]	#62 PIKrain [ˈpʰɪk·ɹeɪn]	#101 GAHRfoe [ˈɡɑɪ·foʷ]
#25 no response	#63 ruhBUNDuh [ɹə·'bʌn·də]	#102 puhTRARKuhrzoid [pə·'tʰɹɑɪ·kə·zɔɪd]
#26 VYbris [ˈvaɪ·brɪs]	#64 PRAHklek [ˈpʰɹɑk·lɛk]	#103 krihleeTOYdul [kʰɪɪ·liɪ·'tʰɔɪ·rəl]
#27 reejd [ɹiɪdʒd]	#65 krahp [kʰɹɑp]	#104 RURrul [ˈɹə·rəl]
#28 PIHduhlaytur [ˈpʰɪ·rət·eɪ·rə]	#66 splashkt [splakt]	#105 PAHmuhduhnz [ˈpʰɑ·mə·dəŋz]
#29 SKWAHrul [ˈskwa·ɹəl]	#67 JIHguh [ˈdʒɪ·gə]	#106 pwahd [pʰwad]
#30 LOOzee [ˈluʷ·ziɪ]	#68 URdum [ˈə·dəm]	#107 loush [laʷ]
#31 hah [hɑ]	#69 FRAYzee [ˈfɹeɪ·ziɪ]	#108 REEguhm [ˈɹiɪ·gəm]
#32 kruhDAHNZo [kʰɹə·'dɑn·zɔʷ]	#70 POYNuth [ˈpʰɔɪ·nəθ]	#109 OOMliktuhn [ˈuʷm·lɪk·tən]
#33 ploag [pʰloʷg]	#71 KAMtuhn [ˈkʰæm·tən]	#110 KRAkoe [ˈkʰɹə·koʷ]
#34 KYOUtyuhlus [ˈkʰjuʷ·tjə·ləs]	#72 FRAYgo [ˈfɹeɪ·goʷ]	#111 BRIKtun [ˈbrɪk·tən]
#35 MURdik [ˈmə·rək] (first schwa raised and fronted)	#73 TILsin [ˈtʰɪl·sɪn]	#112 kihNYE [kɪ·'naɪ]
#36 MAHdreeaht [ˈma·dɹiɪ·at]	#74 spree [spɹiɪ]	#113 AHpruhzoe [ˈɑ·pʰɹə·zɔʷ]
#37 TIMbree [ˈtʰɪm·brɪɪ]	#75 BAHrtuhnzeen [ˈbaɪ·tən·ziɪn]	#114 MEHzolit [ˈmɛ·zɔʷ·lɪt]
#38 karPORNGE [kɑɪ·pʰɔɪndʒ]	#76 PAHRkoe [ˈpʰɑɪ·koʷ]	#115 no response
	#77 LIHmitsk [ˈli·mɪtsk]	#116 wahmBAStik [wɑm·'bæs·tɪk]



f.

- #1 AHskee ['a · ski^j]
- #2 NAKsuhmunce ['næk · sə · mən̩s]
- #3 pahnd [p^hand]
- #4 SKWAHkum ['skwa · kəm̩]
- #5 tuhKHANyuhlee [tə · 'k^han · jə · li^j]
- #6 YOUfay ['ju^w · fe^j]
- #7 dev [dɛv]
- #8 FEEtah ['fi^j · ta:ʰ]
- #9 wahnJOO [wan · 'dʒu^w]
- #10 GROONdoh ['grun · do]
- #11 dohn [don]
- #12 blant [blænt]
- #13 stoh [sto^w]
- #14 EHStah ['ɛs · ta]
- #15 ehTRISK [ɛ · 't^hɪsk]
- #16 hooMUHNstuhtee
[xu^w · 'mən · stə · ti^j]
- #17 Asuhrtahl ['æ · sə · t^hat̪]
- #18 KRAHnuhr ['k^hɪa · nə]
- #19 no response
- #20 infihNEEshis [ɪn · fi · 'ni^j · ʃɪs]
- #21 SKOOTip ['sku^w · tɪp]
- #22 uhTYE [ə · 't^ha^j]
- #23 NAKish ['næ · kɪʃ]
- #24 GAYden ['ge^j · rən̩]
- #25 no response
- #26 pahKAHsyou [pa · 'k^has · ju^w]
- #27 gooSAHfruhgus
[gu^w · 'sa · fɹə · gəs]
- #28 GRAPshur ['gɹæp · ʃʊɹ]
- #29 kuhMAHRstone [kə · 'maɹ · sto^wn]
- #30 AHRvee ['aɹ · vi^j]
- #31 oo [u^w]
- #32 SPLIHnik ['splɪ · nɪk]
- #33 neeYOWF [ni^j · 'ja^wf:]
- #34 YOUNyuhlus ['ju^wn · jə · ləs]
- #35 KLEPtik ['k^hlɛp · tɪk]
- #36 NAYvooom ['ne^j · vu^wm]
- #37 EYEsom ['a^j · səm̩]
- #38 FLOWtahn ['flo^w · tan]

- #39 STAYtez ['ste^j · tɛz]
- #40 UPshoolee ['ʌp · ʃʊt · li^j]
- #41 RANfluhd ['ɹæn · fləd̪]
- #42 imPRYveeng [ɪm · 'p^hɹa^j · vɪŋ]
- #43 rah [ɹa]
- #44 STRAHfo ['stɹa · fo^w]
- #45 malf [mælf]
- #46 STATsum ['stæt · səm̩]
- #47 suhKWAHmair [sə · 'k^hwa · mɛ^jɹ]
- #48 OOwee ['u^w · wi^j]
- #49 SKIHsuhk ['skɪ · sək]
- #50 shmrahk [ʃmɹək]
- #51 hooMAHrow [hu^w · 'ma · ɹo^w]
- #52 fruht [fɹʌk]
- #53 ooCHANoe [u^w · 'tʃæ · no^w]
- #54 skad [skæd]
- #55 branz [brænz]
- #56 RAKtik ['ɹæk · tɪk]
- #57 lahrsh [lɑɹʃ]
- #58 PIHjuhr ['p^hɪ · dʒə]
- #59 uhRANduh [ə · 'ɹæn̩ · də]
- #60 bahn [ban]
- #61 NAHZdahn ['naz · dan]
- #62 burMAHRLin [bə · 'maɹ · lɪn]
- #63 SKEhtuhkai ['skɛ · rə · ka^j]
- #64 WURrowbro ['wə · ɹo^w · bɹo^w]
- #65 yur [jə]
- #66 kart [k^hart]
- #67 chouse [tʃa^ws]
- #68 SKAthurnd ['skæ · θənd̪]
- #69 KOOKsum ['k^hʊk · səm̩]
- #70 SEElayg ['si^j · le^jg]
- #71 ANdurve ['æn · dəv]
- #72 PORuhtay ['p^hɔ · ɹə · te^j]
- #73 kreese [k^hɹi:s]
- #74 krag [k^hɹæg]
- #75 kwaht [k^hwat]
- #76 KAMlin ['k^hæm · lɪn]
- #77 SOPunhaygun
['so^w · p^hən · he^j · gən̩]

- #78 ho [ho]
- #79 KYOUTuhlayus ['k^hju^w · rə · le^j · əs]
- #80 schwahks [ʃwaks]
- #81 KAHRtie ['k^hɑɹ · ta^j]
- #82 klayMAHrun [kle^j · 'ma · ɹən̩]
- #83 FLAkuhbul ['flæ · kə · bʰ]
- #84 ZAHRglay ['zaɹ · gle^j]
- #85 smoROO [smɔ · ɹu^w]
- #86 STABvurnis ['stæb · vən̩ · nɪs]
- #87 jooSTEEfuh [dʒu^w · 'sti^j · fə]
- #88 AYlay ['e^j · le^j]
- #89 PRAHjint ['p^hɹa · dʒɪnt]
- #90 fooLANT [fu^w · 'lænt]
- #91 STOOfunurz ['stu^w · fə · nən̩z]
- #92 WEElunce ['wi^j · lən̩s]
- #93 jez [dʒɛz]
- #94 EEnohz ['i^j · no^wz]
- #95 STAhnut ['sta · nət]
- #96 SPAHNshool ['span · ʃu^wʰ]
- #97 RAHNkahd ['ɹən̩ · kad̪]
- #98 ihKINzhuh [ɪ · 'k^hɪn · ʒə]
- #99 SAYlow ['se^j · lo^w]
- #100 klank [klæŋk]
- #101 DAHNfor ['dan · fɔɹ]
- #102 mahZOEleeuh [ma · 'zo^w · li^j · ə]
- #103 fiksTHOYdale [fɪks · 'θɔ^j · de^jʰ]
- #104 stall [stəʰ]
- #105 EYEzunhahf ['a^j · zən̩ · haf]
- #106 eks [ɛks]
- #107 ihGLAHnoe [ɪ · 'gla · no^w]
- #108 AHpul ['a · pʰ]
- #109 skreent [skuɪ^jnt]
- #110 FEEkoolah ['fi^j · kʊ · la]
- #111 ZApoe ['zæ · po^w]
- #112 koeTOO [ko^w · 'tʰu^w]
- #113 TENloo ['t^hɛn · lu^w]
- #114 SKOWpuh ['sko^w · pə]
- #115 no response
- #116 buhFAYZD [bə · 'fe^jzd]

Question Data Sheet

Images Requiring Words



g.

- #1 KRAnuhdyne ['kʰɹæ · nə · daɪn]
- #2 GRAHvuhlvail ['gɹɑ · vʰə · veɪ]
- #3 GAHRshuhnd ['gɑɹ · ʃənd]
- #4 kuhROWsuhmuh [kə · 'ɹoʷ · sə · mə]
- #5 prooNIHstuhkoo [pʰɹuʷ · 'ni · stə · kuʷ]
- #6 DINkee ['dɪŋ · ki]
- #7 SHIHmuh ['ʃɪ · mə]
- #8 SHURloo ['ʃə · luʷ]
- #9 KRIHkul ['kʰɹɪ · kʰ]
- #10 KARtay ['kar · te]
- #11 vay [ve]
- #12 swust [swʌst]
- #13 RAHpee ['ɹɑ · pi]
- #14 SPRAYgoh ['spɹeɪ · goʷ]
- #15 RAHMbyouluhs ['ɹɑm · bjuʷ · ləs]
- #16 VROONsuhdee ['vrʊn · sə · di]
- #17 ooNAIdee [uʷ · 'naɪ · ri]
- #18 MARMis ['mɑɹ · mis]
- #19 durk [dɜk]
- #20 RANjurd ['ɹæn · dʒəd]
- #21 muhLYEur [mə · 'laɪ · ə]
- #22 dribDIB [dɹɪb · 'dɪb]
- #23 WUHNgur ['wʌŋ · gə]
- #24 STRAHvis ['stɹɑ · vɪs]
- #25 no response
- #26 guhRAHjist [gə · 'ɹɑ · dʒɪst]
- #27 roomTEKtuhkul [ɹuʷm · 'tʰɛk · tə · kʰ]
- #28 BLAHZleeng ['blaz · lɪŋ]
- #29 EYEstorust ['aɪ · stoʷ · ɹəst]
- #30 Anihkul ['æ · ni · kʰ]
- #31 stah [stah]
- #32 ruhDAzeeo [ɹə · 'dæ · ziɪ · oʷ]
- #33 maynk [meɪŋk]
- #34 SPRASTuhkul ['spɹæs · tə · kʰ]
- #35 DEHfrin ['dɛ · fɹɪn]
- #36 KRISTuhm ['kʰɹɪs · dʰm]

- #37 nik [nɪk]
- #38 garBORrayul [gɑɹ · 'bɔ · ɹeɪ · ʰ]
- #39 uhVYNZ [ə · 'vaɪnz]
- #40 KAHtoe ['kʰɑ · toʷ]
- #41 STEEkut ['stiɪ · kət]
- #42 duhSHEEveeng [də · 'ʃiɪ · vɪŋ]
- #43 mark [mɑɹk]
- #44 TILLmar ['tʰɪɹ · mɑɹ]
- #45 teen [tʰɪn]
- #46 mulTAHsum [mə · 'tʰɑ · sʰm]
- #47 meeYANDak [miɪ · 'jæn · dæk]
- #48 finkeyyou [fɪŋ · kaɪ · juʷ]
- #49 krahnk [kʰɹaŋk]
- #50 DEVruh kaytud ['dɛv · ɹə · keɪ · rəd]
- #51 uhRAHtiŋ [ə · 'ɹɑ · tɪŋ]
- #52 skwehl [skweɪ]
- #53 ORfile ['ɔɹ · faɪ]
- #54 HISStee ['hɪ · sti]
- #55 dant [dænt]
- #56 EYErup ['aɪ · ɹʊp]
- #57 RAHNish ['ɹɑ · niɪ]
- #58 IHruhtahr ['ɪ · ɹə · təɹ]
- #59 kuhDYzul [kə · 'daɪ · zʰ]
- #60 rahHAL [ra · 'hal]
- #61 KAHMpow ['kʰɑm · pʰɑʷ]
- #62 feeDAHnzuh [fiɪ · 'dan · zə]
- #63 ZEHtruhfur ['zɛ · tɹə · fə]
- #64 GRAHblo ['gɹɑb · loʷ]
- #65 FAIduhn ['faɪ · rəŋ]
- #66 ruhKRAK [ɹə · 'kʰɹæk]
- #67 RAHMmus ['ɹɑ · məs]
- #68 KREEdul ['kʰɹɪɪ · rʰ]
- #69 chait [tʰeɪt]
- #70 HEEMlin ['hiɪm · lɪn]
- #71 KRISlodge ['kʰɹɪs · lɑdʒ]
- #72 rayKLAHtay [ɹeɪ · 'kʰla · teɪ]
- #73 stall [stɑɪ]
- #74 shurst [ʃəst]
- #75 forst [fɔɹst]
- #76 WOObuhloop ['wuʷ · bʰ · ɹuʷp]
- #77 murNESS [mə · 'nɛs]

- #78 drahp [dɹɑp]
- #79 forst [fɔɹst]
- #80 RAHluhkul ['ɹɑ · lə · kʰ]
- #81 BAHThrye ['baθ · ɹɑ]
- #82 stuhLAHFnun [stə · 'laf · nən]
- #83 kruhSTAYshus [kʰɹə · 'steɪ · ʃəs]
- #84 PAHRtul ['pʰɑɹ · rʰ]
- #85 WINdruhlus ['wɪn · dɹə · ləs]
- #86 HOIunzee ['hoʷ · lən · zi]
- #87 mahnuhKALuh [mə · nə · 'kʰæ · lə]
- #88 ahkseeFLAHKsee [ak · siɪ · 'flak · siɪ]
- #89 rayBYOUNE [ɹeɪ · 'bjuʷn]
- #90 KOONTahl ['kʰuʷn · təɪ]
- #91 GAHNuril ['gɑ · nə · ɹɪ]
- #92 olpth [ɔɪpθ]
- #93 TWINDul ['tʰwɪn · dʰ]
- #94 EYEbee ['aɪ · bi]
- #95 hyROOD [haɪ · 'ɹuʷd]
- #96 ruhTOmik [ɹə · 'tʰoʷ · mɪk]
- #97 shreg [ʃɹɛg]
- #98 rolm [ɹoɪm]
- #99 korVYND [kɔɹ · 'vaɪnd]
- #100 SKRYuhl ['skɹɑɪ · ʰ]
- #101 RUSpree ['ɹʌs · pɹɪ]
- #102 inisTREEuh [ɪ · nɪs · 'tʰɹɪɪ · ə]
- #103 suhBLOWkrak [sə · 'bloʷ · kɹæk]
- #104 juhBITE [dʒə · 'baɪt]
- #105 SHBAHRgust ['ʃbaɹ · gəst]
- #106 stuhRAHNduh [stə · 'ɹɑn · də]
- #107 DUSur ['dʌs · tə]
- #108 AHGduhm ['ɑg · dʰm]
- #109 DRUNGstuhn ['dɹʌŋ · stʰn]
- #110 flah [fla]
- #111 SPIHzee ['spɪ · ziɪ]
- #112 kroog [kʰɹuʷg]
- #113 HOOsuhnoovur ['huʷ · sə · nuʷ · və]
- #114 spihNAhtik [spɪ · 'naɪ · rɪk]
- #115 no response
- #116 ROHPed ['ɹoʷ · pɛd]

APPENDIX C

COMPLETE DEFINITION GROUPINGS DATA SHEETS

Definition Groupings Data Sheet

Words Requiring Definitions

Question ID: A. smitch [smit]

a small amount (26): 22.41%

#4 a pinch of something you cook with
#17 a little bit of something
#22 a short, bulky guy
#24 a little bit
#25 a small amount
#28 a small quantity of something
#29 small
#30 a small quantity of something
#31 small
#34 a small portion of something
#41 a small animal like a mouse
#47 a small quantity
#56 a little bit of something
#57 a nerdy person without a lot of friends
#59 a small amount of something
#60 a small smudge
#63 a speck
#72 a small animal, like a squirrel
#77 the little ball of lint in the pocket
#84 a short race of people
#85 something subtracted from something else
#104 something small
#106 a small spot
#107 a very small adult person, like an Irish
#108 a small game bird, similar to a quail
#111 a short trip

an imperfect person or action (24): 20.68%

#6 mean, not nice
#7 an expression of disappointment like "aw shucks"
#10 something that injures a person
#15 when somebody treats you in a manner that causes you to feel insecure
#16 to smack or smother
#20 a traitor
#23 a liar
#33 to tell on someone
#35 a person you don't like very much
#40 sneaky
#49 untrustworthy
#50 sly
#57 a nerdy person without a lot of friends
#67 a thief
#73 to be sarcastic
#74 to snatch
#91 a mean person
#93 an accomplice
#99 to snatch
#102 to ogle over something
#105 something gross or smutty
#109 smug
#114 to steal
#115 a person upset by the comment of another

a stain or mark (14): 12.06%

#3 a stain
#26 a smear of color on a wall
#32 a muddy substance
#51 to stain something
#60 a small smudge

#63 a speck
#64 black
#81 soot
#82 a mark, maybe on the wall
#89 a stain
#92 a smudge
#94 to mark on the wall
#106 a small spot
#113 a stain on a garment

restricted motion (14): 12.06%

#11 a tunneling animal like a groundhog
#16 to smack or smother
#18 a glove used in sports, like a baseball mitt
#22 a short, bulky guy
#40 sneaky
#41 a small animal like a mouse
#55 to cloister
#75 a limping way of walking
#78 a car part, like a piston
#79 a briar patch
#95 to cut off (lose) a toenail while stumping it
#97 an interruption
#100 a hard hit in football, like spearing somebody
#111 a short trip

a small place (9): 7.75%

#1 a place in a wall
#2 something you can do with your mouth
#11 a tunneling animal like a groundhog
#43 a crack, like in a sidewalk
#55 to cloister
#77 the little ball of lint in the pocket
#78 a car part, like a piston
#87 digging holes
#101 a pocket watch

diminished (8): 6.89%

#15 when somebody treats you in a manner that causes you to feel insecure
#42 to scribble
#44 something hidden
#52 a fleeting feeling
#55 to cloister
#65 to flash a smile
#71 to quiet somebody
#75 a limping way of walking

abrasive or hard (8): 6.89%

#5 to scratch
#9 the sound of a shoe hitting a nail into a board
#36 a cracker or something crunchy
#66 a scratch
#73 to be sarcastic
#90 bitter tasting
#98 a type of grittiness
#116 a painful boil

handmade (7): 6.03%

#21 a quilting term
#27 a measurement for a perfect fit
#37 a tack
#38 a tool for fletching
#45 to sew rapidly
#62 a tool like a hammer or a wrench
#96 somebody who makes art

success (4): 3.44%

#8 to be comfortable with something
#14 to like something
#68 clapping
#80 to gain access to something

baseball (3): 2.58%

#53 a tool used in a game
#58 a baseball
#76 a bat or racquet
***pitch**

the intellect (3): 2.58%

#61 to mix something up
#86 a studious person
#112 a witty person
***smart**

(soft) food (3): 2.58%

#13 something spread on bread
#19 a smoothie
#103 an amount of food you consume

a tree branch (2): 1.72%

#88 the skin of a broken branch
#110 a tree branch

a kiss (2): 1.72%

#12 to steal a kiss
#39 a kiss
***smooch**

indecent (2): 1.72%

#102 to ogle over something
#105 something gross or smutty

definitions not conforming to a category (6): 5.17%

#46 to fall
#48 poster board
#54 a pet toy for a cat
#69 smelly
#70 to go fetch something
#83 something you write with

Definition Groupings Data Sheet

Words Requiring Definitions

Question ID: B. jube [dʒuˈb]

a round shape (38): 32.75%

- #2 a fat tube
- #3 a bug like a beetle
- #4 an orb-shaped thing
- #7 a ball-shaped thing, like a toy
- #8 a bottle of something
- #21 a round fruit like a grape or an avocado
- #28 an oblong, round shape
- #29 a stone
- #30 a stocky, little guy
- #32 a jar
- #34 a round bouncing object
- #35 a ball you use in a game
- #41 a round kind of candy, like a jelly bean
- #42 a type of bouncy ball
- #45 a type of candy, shaped like a jelly bean
- #51 a candy like a jelly bean
- #56 a ball
- #62 a round, fruity candy
- #63 a blob of something
- #65 a tube
- #66 a tube in a 'J'-form
- #68 a bathtub
- #71 a big, round rock
- #74 a glob of something
- #75 a small ball
- #82 a nickname for a fat friend
- #83 a ball
- #85 a general spherical object
- #89 a fruit, like an orange
- #93 a sphere
- #94 a soup bowl
- #96 a spherical shape
- #97 a round shape
- #105 a chamber pot
- #106 like a light bulb
- #108 a ball shaped object
- #109 a round bug with dots
- #110 a brightly colored, plastic toy consisting of folding pipes that can be formed into different shapes
- #113 an inner tube that kids play with
- #116 a chewy candy like a gummy bear, cone shaped

pertaining to fruit (10): 8.62%

- #1 a hard, strawberry candy
- #17 a sweet, seedless fruit
- #21 a round fruit like a grape or an avocado
- #37 a fruit spread
- #62 a round, fruity candy
- #69 jelly
- #79 a jelly-type substance
- #89 a fruit, like an orange
- #90 a gelatinous substance
- #104 a natural fruit drink

candy (7): 6.03%

- #1 a hard, strawberry candy
- #41 a round kind of candy, like a jelly bean
- #45 a type of candy, shaped like a jelly bean
- #51 a candy like a jelly bean
- #62 a round fruity candy
- #90 a gelatinous substance
- #116 a chewy candy like a gummy bear, cone shaped

a color (7): 6.03%

- #24 a color like purple
- #52 a shade of yellow
- #77 a shade of purple seen after the sun sets
- #99 red
- #110 a brightly colored, plastic toy consisting of folding pipes that can be formed into different shapes
- #111 a color between blue and green
- #112 a shade of blue

actions (7): 6.03%

- #31 to stop
- #46 to jump
- #53 movement to the left
- #55 to throw
- #67 to run
- #91 to dodge
- #95 to fall going up the stairs

a dance (4): 3.44%

- #33 a fast dance step
- #57 a fast dance with a lot of weird motions
- #76 a fast dance move that involves shaking the hips
- #102 a fast dance, like a jig

*juke

religion (4): 3.44%

- #11 an ideology, partly religious and partly philosophical
- #14 a religion, like Islam
- #20 a gentile
- #72 a gathering place, maybe for worship

*Jewish

music or musical instruments (3): 2.58%

- #27 an instrument like a trumpet
- #47 a wind instrument, like the clarinet
- #100 a type of music, a mix of hard rock and a little rap

definitions not conforming to a category (45): 38.79%

#5 to con
#6 funny
#9 a noise a baby would make
#10 to drink something sweet
#12 to talk nonsense
#13 a Caribbean style of music
#15 a very small particle that sparkles
#16 an exclamation like 'darn!'
#18 a pejorative term for a person, a dork
#19 something to scuba dive in
#22 jambalaya-type food
#23 a grease monkey
#25 a quantity expression for a group of things, like a dozen
#26 a new type of liquid makeup used to make you look younger
#36 a small shack or rental property
#38 an animal, like a frog
#39 a duplicate
#40 greasy
#43 a boring person
#44 a hair color like brownish-red
#49 a mechanic's tool
#50 to take
#54 a hand mixer
#58 happy
#59 footwear for the rain
#60 something attention-grabbing
#61 something lame-o
#64 vanilla coke
#70 a greeting
#73 a liquid, like oil
#78 a brick or a cinderblock
#80 an insult to lower class guys
#81 glue
#84 a goofy person
#86 a new person on campus
#87 a shopping cart
#88 toe jam
#92 excitement
#98 a clear fluid
#101 a big, flat screen TV
#103 a grass that only grows in the winter
#107 a tree with drooping branches
#114 to massage
#115 a role playing video game

Definition Groupings Data Sheet

Words Requiring Definitions

Question ID: C. keeve [k^hiv]

a hole, depression or falling (23): 19.82%

- #1 a small damp place in a cave
- #3 a hole
- #4 a trench
- #17 a hole you dig in the ground
- #24 a narrow passageway
- #29 to keel over
- #30 to cave in, collapse
- #32 a small opening
- #34 a small crevice in a rock wall
- #36 to fall or bust
- #37 to fall down
- #41 a type of difficult, precise dive performed off a diving board
- #48 to overburden yourself
- #53 to hide away treasure as a kid
- #54 a vase for flowers
- #67 to dig
- #77 the little area where you can slide a pen inside the ring of a spiral notebook
- #78 a soft seat, like an airplane seat
- #84 a mound
- #93 to sink
- #99 an atoll
- #109 a crevice in the earth
- #116 the start of the descent on a rollercoaster

cutting instruments, sharp, piercing actions (16): 13.79%

- #7 a tool like a saw
- #10 a tool to open a can
- #31 something sharp, pointed
- #41 a type of difficult, precise dive performed off a diving board
- #42 to cut or open something up
- #43 to jump off of something or to dive
- #49 a peninsula
- #55 a knife
- #61 a manner of working with wood
- #65 a weapon, like a dagger
- #79 a cutting motion
- #80 a special kind of knife
- #90 a large, jagged, free-standing rock
- #91 to cut
- #96 to make something out of wood
- #103 the speed of sound

mental irritation or anguish (12): 10.34%

- #8 a state of being perturbed
- #16 to direct somebody in a precise direction
- #20 a scoundrel
- #70 an unpleasant person
- #94 to pry somebody for help they shouldn't be giving you
- #104 to do something stupid
- #105 something that really annoys somebody
- #107 to antagonize somebody to the point of altercation
- #111 the look you make when you have little hope of success
- #112 to freak out
- #113 to procrastinate so much you are about to miss your deadline

#115 a description of the sound somebody makes when surprised

food and fruit (12): 10.34%

- #14 an exotic, sweet, green fruit
- #22 a bright orange fruit
- #23 a type of bread
- #25 a quantity of fruit
- #33 a spicy chicken dish
- #35 a type of bread, like a bagel
- #57 a bland food that poor people would eat
- #63 a green fruit like a lime (NOT a kiwi)
- #73 a green vegetable, like a pea
- #75 a type of hearty soup
- #76 a glass dish for storing cakes
- #98 a green fruit, shaped like a banana but smaller

a violent action (10): 8.62%

- #9 the action of a bee striking a car
- #13 to push something over
- #27 a collision between objects
- #28 to push something out of the way
- #36 to fall or bust
- #37 to fall down
- #51 to break something in half
- #71 a sudden movement
- #74 a swinging motion
- #82 a cough or an illness

boating (5): 4.31%

- #52 a canoe
- #59 a small branch off a river
- #101 a long paddle for a boat
- #108 rowing or steering a ship
- #110 the bank of a river

green fruits/vegetables (4): 3.44%

- #14 an exotic, sweet, green fruit
 - #63 a green fruit like a lime (NOT a kiwi)
 - #73 a green vegetable, like a pea
 - #98 a green fruit, shaped like a banana but smaller
- *kiwi**

woodworking (3): 2.58%

- #60 the manner in which two things fit together
 - #61 a manner of working with wood
 - #96 to make something out of wood
- *cleave**

giving and receiving (3): 2.58%

- #5 to retain
- #18 a valuable keepsake
- #19 to give

a simple tool (3): 2.58%

#11 a hammer-like tool

#15 a tool for weaving

#44 a bath sponge

***cleaver**

a technological tool or machine (3): 2.58%

#58 a robot

#68 a telephone

#72 a computerized tool for making various types of calculations

Russia (2): 1.72%

#12 a Russian city

#21 a Russian dialect

***Kiev**

definitions not conforming to a category (29): 25.00%

#2 to encrust something

#6 stupid

#26 a type of martini that is a spinoff of the cosmopolitan

#38 a small kingdom

#39 a jacket

#40 a little bit of something

#45 a type of small house plant

#46 an SUV or a jeep

#47 a small cabinet

#50 to think about

#56 a slick surface

#62 a baby toy

#64 to jump

#66 leaves in the wind

#69 mysterious

#81 a basket

#83 a storage place

#85 to change

#86 the guy who takes out the trash

#87 to steal

#88 a pinkish beige color

#89 a straight line

#92 a necessity

#95 to throw a hacky sack

#97 a small, primitive dwelling

#100 a lie

#102 to steal something

#106 a chandelier in a breakfast nook

#114 an intelligent person

Definition Groupings Data Sheet

Words Requiring Definitions

Question ID: D. wam [wam]

a noise (17): 14.65%

- #10 a sound to describe the impact of crashing onto the floor
- #13 the sound a trombone makes
- #17 a wind instrument in a marching band
- #29 silent
- #32 represents an explosion
- #33 the sound of an impact
- #34 a wind instrument, like a didgeridoo
- #42 an echoing sound
- #44 a big drum or other percussion instrument
- #56 to make a noise
- #57 an exclamation of astonishment
- #67 to listen
- #71 describes a moaning noise
- #75 a shouting way of speaking
- #94 when you hit two pens together really loud
- #100 a long, low-pitched, slow noise with a sudden high-pitched part
- #116 a dispute

an impact (16): 13.79%

- #2 denotes an impact
- #10 a sound to describe the impact of crashing onto the floor
- #32 represents an explosion
- #33 the sound of an impact
- #44 a big drum or other percussion instrument
- #54 to throw a punch
- #66 a splash
- #68 to slap
- #85 to strike
- #86 to strike
- #87 to bounce
- #93 to hit
- #94 when you hit two pens together really loud
- #96 to hit something hard
- #104 something crumpled up, like paper
- #116 a dispute

comfortable, motherly, warm (12): 10.34%

- #6 mother
- #16 to completely relax on the beach
- #26 something warm and fuzzy that wraps around you
- #28 an object you would sit in
- #37 to be at peace
- #43 soft or fluffy, like a blanket
- #51 to cuddle up with a blanket
- #62 spicy chicken
- #73 something woven, like a basket or quilt
- #110 a fuzzy blanket
- #113 comfortable, soothing
- #114 motherly

an animal (12): 10.34%

- #7 a mythical, silly animal
- #11 a type of bird, large and pink
- #12 a small, brown, arboreal animal
- #15 a furry, long-haired, arboreal animal

- #18 a medium-sized animal with a short tail that lives in the jungle
- #22 flying squirrel
- #38 an animal like a bat
- #70 a small animal, like a domesticated dog
- #89 a wild animal, like a mountain lion
- #91 a large, black dog
- #106 a rat
- #107 a bat (animal)

Asian food (10): 8.62%

- #4 Asian food
- #21 Asian food
- #31 a Chinese soup
- #45 a Chinese noodle
- #47 a thick, reddish-brown sauce
- #48 chopsticks
- #49 exotic cuisine
- #62 spicy chicken
- #105 a thin, water-based soup
- #108 A food like rice and shrimp or other seafood

pertaining to water (8): 6.89%

- #19 swimming
- #23 an island
- #25 stormy weather
- #72 a wooden sailboat
- #74 something that's wet
- #79 to wade through water
- #88 muddy black ice
- #99 a creek

a large, wide, open space (7): 6.03%

- #8 an open place
- #24 a big, wide-open space
- #40 a lot of something
- #58 big
- #59 a type of wide-brimmed hat
- #82 deserted area
- #98 something broad and concave, like a crater

emotional or mental discontent (7): 6.03%

- #36 to complain
- #50 confused
- #92 to wonder or worry
- #95 to complain
- #102 to be tired
- #109 to be deeply saddened
- #112 bored (not interested)

(non-Asian)food (7): 6.03%

- #5 a type of gin
- #14 a spicy, Latino food
- #46 a fruity candy
- #69 a type of fruity gum
- #78 reminiscent of eggs
- #90 a type of candy, chewy and sweet
- #115 a cooking appliance

clothing and accessories (4): 3.44%

#20 a wig
#41 a colorful, African shirt
#97 a rough, sturdy, synthetic material
#101 a headband
***wigwam**

something skinny or narrow (3): 2.58%

#1 a pen with a dangling object attached
#3 a long, narrow stick
#52 a skinny person (lady)

baseball (3): 2.58%

#63 a baseball bat
#64 to throw
#103 a material that a baseball bat is made from

rotational movement (2): 1.72%

#9 the action of a blade spinning
#30 something wound up

pink (2): 1.72%

#11 a type of bird, large and pink
#84 an awkward looking plant, almost a root, with pink flowers

low (2): 1.72%

#35 a short, flat house
#80 a chair that sits very close to the ground

definitions not conforming to a category (12): 10.34%

#27 a metallic pot
#39 to watch
#53 balance
#55 a type of currency
#60 to steal
#61 your home
#65 pertaining to a religious ritual
#76 a word game
#77 the chair that gum is stuck under
#81 a sack
#83 to do something fast
#111 two armloads of something

Definition Groupings Data Sheet

Words Requiring Definitions

Question ID: E. easloff ['iːz · ɒf]

elevation or a superior position (21): 18.10%

- #3 a food with something melted and oozing on top
- #8 a surface to paint or draw on
- #27 a mountainous location
- #33 a country like those in Tolkien's "Lord of the Rings"
- #45 a wooden ladder
- #48 an elf
- #49 a ladder
- #52 a kite
- #53 when a plane pulls back prior to takeoff
- #57 a hearty sandwich with a dressing on it
- #63 to ski
- #64 high
- #70 a giraffe
- #74 something that's high up, like the top floor
- #76 to flick water off of a surface
- #79 pertaining to a castle
- #91 a cathedral-type church
- #96 a ladder
- #99 a bastion
- #100 a valley
- #106 a giant wall, like on the Parthenon

loafing, relaxation or idleness (20): 17.24%

- #10 a tropical island
- #13 easily achieved
- #15 a person who likes to choose the easy way out
- #17 a library, a place of peace
- #19 something soft, like a pillow
- #26 a defense attorney who hasn't done his homework
- #31 something smooth, relaxed
- #35 a religious holiday
- #51 to purposefully not do something
- #58 a couch
- #66 pertaining to ease and flow
- #86 a slacker
- #92 to calm down
- #97 a sleeping arrangement involving two or more palates
- #101 a slacker
- #102 relaxed
- #103 a cushion brought to sporting events to sit on
- #105 somebody who's lazy
- #107 to be lazy
- #112 tired

religion (often pertaining to Semites) (10): 8.62%

- #1 a Jewish name
- #4 a Hebrew person
- #5 an eastern religion
- #22 an Arab man
- #34 a Germanic language
- #35 a religious holiday
- #43 a holiday celebrating the harvest
- #75 to pray
- #91 a cathedral-type church
- #108 an expression of jubilation

food (9): 7.75%

- #3 a food with something melted and oozing on top
- #6 a type of food, like rice
- #11 type of food consisting of meat and sauce
- #44 an East Indian food, like curry or rice
- #57 a hearty sandwich with a dressing on it
- #67 to eat
- #72 a soup with noodles, maybe homemade
- #98 a type of noodle, like linguini
- #110 a fruit-flavored, strong alcoholic drink

load moving or bearing (6): 5.17%

- #7 to shovel something
- #20 a pulley
- #25 a cart to carry things
- #42 a tool for spreading something
- #60 to remove something
- #116 a tool, like a shovel and a crowbar

travel or transportation (6): 5.17%

- #21 having to do with roads, highways, bridges
- #32 access to a highway
- #73 walking
- #83 a black sports car
- #111 a dual concept of both a journey and a destination
- #113 a tool used to measure distance

quick movement (6): 5.17%

- #39 quickly
- #53 when a plane pulls back prior to takeoff
- #77 a person who runs around the block with no shoes
- #81 running
- #82 to stop or relent
- #84 to skip fluidly

cutting or sawing (5): 4.31%

- #9 the action of a saw sawing through a metal chain
- #54 a tool for cutting things in two like a saw
- #59 to cut something short
- #60 to remove something
- #94 to cut somebody off when driving by accident

an animal (4): 3.44%

- #12 a small donkey
- #24 a feline-type animal
- #70 a giraffe
- #90 a type of bird with a long tail which is brightly colored

a ladder (4): 3.44%

- #45 a wooden ladder
- #47 an area like an attic for storing things
- #49 a ladder
- #96 a ladder

***loft**

Scandinavia (3): 2.58%

- #2 a Norwegian food
- #18 a muscular, tall person
- #30 a big, Scandinavian man

a sneaky person (3): 2.58%

#40 a deceptive person

#41 a sly person

#104 to spy on somebody

an unpleasant person (3): 2.58%

#38 a sinister person

#61 an insult

#62 a type of misbehavior

***jerkoff, jagoff**

definitions not conforming to a category (26): 22.41%

#14 a greeting

#16 something difficult to manage

#23 a war novel

#28 a feeling of happiness

#29 to begin

#36 an internal organ

#37 a big desk

#46 a rural town

#50 a backyard deck

#55 a principle or standard

#56 someone foreign who likes to read

#65 a plant like oleander

#68 a powder room

#69 an apartment

#71 a plain, wooden chair

#78 a spill

#80 a floor tile

#85 a charismatic way of acting

#87 to rent, maybe a movie

#88 a suicidal person

#89 grotesque

#93 a nice person

#95 to perish

#109 a winter tree found in Canada that can be tall and is flowering

#114 to make something pretty

#115 a warm fleece jacket

Definition Groupings Data Sheet

Words Requiring Definitions

Question ID: F. kedit ['kʰɛ · rəd]

relative distance (to be/ bring near or drive away) (20): 17.24%

- #3 an adjective meaning 'adjacent to'
- #4 to catch things, like fish
- #8 the feeling experienced upon seeing somebody you haven't seen in a long time
- #25 to gather things together
- #27 to scurry away
- #29 close
- #37 to find something
- #52 a shy person
- #55 close together
- #62 to throw something away
- #63 skittish
- #65 twisted together in a pile
- #79 a fruit gathering action
- #87 to catch
- #100 a throw to home plate from the outfield
- #104 to obtain
- #106 to put the top on a pot
- #107 to be reserved
- #111 to bring together
- #113 stacked up, one on another

food (14): 12.06%

- #10 something to store food inside the refrigerator
- #21 food cooked just right, between raw and burned
- #33 a type of lettuce, like kale
- #39 to cook
- #42 a type of dry dog food, like kibble
- #49 a type of wheat
- #67 popcorn
- #68 something to cook in, like a pan
- #77 the scent left after burnt popcorn
- #79 a fruit gathering action
- #82 a long, orange fruit or vegetable, like a banana or a cucumber
- #83 a spice, like garlic
- #101 a big cooking pot, like a cauldron
- #108 a plant, like a cabbage or a lettuce

truncation, cutting, shortening (12): 10.34%

- #15 short and to the point
- #28 to be shorted on something
- #31 something sharp, pointed
- #34 to terminate a game early when a probable outcome has been determined
- #45 to truncate something
- #47 to be brusque
- #48 to cut somebody off in a car
- #54 a type of bed, low to the ground and boxy
- #56 skipped
- #71 something that has been shortened
- #95 to declaw a cat
- #96 something notched

sports (most all involving balls) (9): 7.75%

- #1 a way of kicking a ball
- #7 a type of sport, like soccer
- #34 to terminate a game early when a probable outcome has been determined
- #53 when you're in the outfield and you try to get the ball but miss it
- #59 a hard ball between the size of a softball and a basketball
- #73 a sport with balls
- #84 swimming
- #87 to catch
- #100 a throw to home plate from the outfield

enclosed, bounded or delineated (8): 6.89%

- #10 something to store food inside the refrigerator
- #11 a cabinet
- #12 a secret
- #17 a dog kennel
- #34 to terminate a game early when a probable outcome has been determined
- #61 a type of bucket or container
- #102 to put something away for safe keeping or to wrap something up
- #116 fenced in

shy or reserved (7): 6.03%

- #27 to scurry away
- #38 an introverted person
- #52 a shy person
- #63 skittish
- #86 an aggressive person
- #94 to be shy around your parents but outgoing around everyone else
- #107 to be reserved

shaping by force or striking (7): 6.03%

- #2 beaten into shape
- #23 something stamped
- #43 bent, folded or wrinkled
- #44 something that has an uneven surface
- #60 a manner of striking something
- #66 to hit something
- #74 something that's riveted or studded

twisted or tangled (6): 5.17%

- #13 tangled
- #43 bent, folded or wrinkled
- #44 something that has an uneven surface
- #65 twisted together in a pile
- #76 mixed up words or thoughts
- #109 cross stitching

damaged or destroyed (6): 5.17%

- #6 hurt, injured
- #22 describes a drunk person
- #26 an item that has fallen into the possession of a dog and is destroyed
- #51 incomprehensible
- #92 flawed
- #97 a state of moribund flesh

a manner of talking (5): 4.31%

#14 to dislike or badmouth
#35 somebody who talks a lot and is loud
#36 to chat
#40 to joke around with someone
#88 to talk fast

positive personal attributes (5): 4.31%

#58 to do very well at something
#89 to be able
#91 honest
#105 somebody who has a good head on his shoulders
#110 chosen, picked out

unpleasant emotions (4): 3.44%

#85 taken aback
#90 to become angry with someone
#98 an emotion of feeling mild coercion
#112 worried

heat concerns (3): 2.58%

#64 a blanket
#78 cold
#115 a process where you check somebody's body temperature

definitions not conforming to a category (22): 18.96%

#5 a kenning
#9 the action of a small tire rolling over a gravel surface
#16 something cool or swell
#18 to dust something
#19 a cowboy hat
#20 cantered
#24 to be in a hurry
#30 a completed activity
#32 something soft, like a pillow
#41 a bright color like orange or red
#46 to kick
#50 excited
#57 a type of shirt or blouse
#69 a doll
#70 to leave
#75 a how-to book
#80 a door
#81 a spoon
#93 something that repeats
#99 a mule
#103 a leather shoe with a rubber sole and Velcro with some cushioning inside
#114 funny

Definition Groupings Data Sheet

Words Requiring Definitions

Question ID: G. mavar ['meⁱ · vaʊ]

ships, boats or sailing (14): 12.17%

- #1 a pirate's ship
- #3 an old wooden boat like those of Columbus' day
- #18 a large wooden boat
- #35 a journey
- #43 a quantity of water
- #52 a barge
- #55 an early, metal ship
- #62 something on a ship, maybe for navigation
- #63 to travel
- #65 a big ship
- #67 a ship, like a yacht
- #74 an old boat with sails
- #84 a large, Viking-like sailboat
- #105 a long, epic voyage

color (11): 9.56%

- #4 a bright, sunny time of year
- #12 a yellow cake
- #14 a color close to purple
- #21 a color like mauve
- #26 a type of rose that has the fragrance of lavender
- #36 a hot color, like orange or yellow
- #45 a small, green, ringed planet
- #53 the process of applying a light skin of color to a canvas
- #70 a fruit like an orange
- #83 a type of yellow flower
- #90 a color between light blue and lavender

food (9): 7.82%

- #10 a utensil to prepare food
- #16 a box of candy
- #42 spreadable food in general, like PB&J or Vegemite
- #54 a type of cornstarch
- #69 escargot
- #73 a food like chocolate
- #98 a manufactured milk substance
- #104 ice cream
- #115 a bland food made of eggs, cream and milk

sharp or pointed (8): 6.95%

- #26 a type of rose that has the fragrance of lavender
- #33 a fencing sword
- #37 to cut something
- #72 sharp medical tools
- #94 a single blade razor
- #99 a coat of arms
- #107 a bullfight
- #108 a military job, maybe a cavalryman

upheaval, discontent (8): 6.95%

- #41 a war helmet
- #56 an accident
- #59 to destroy something
- #75 a big, automatic gun
- #89 stormy weather
- #92 angry
- #93 chaos
- #116 a dark, melancholy individual

flying (7): 6.08%

- #15 a mythological or extinct winged creature
- #27 a military airplane
- #35 a journey
- #63 to travel
- #78 a wing(s)
- #95 the first voyage on a new aircraft
- #105 a long, epic voyage

pertaining to the intellect (7): 6.08%

- #6 smart, intelligent
- #47 a technical piece of equipment, like with a telescope
- #50 complex
- #80 a scientific measurement of electricity
- #85 absent minded
- #91 to think
- #100 curious

an animal (6): 5.21%

- #15 a mythological or extinct winged creature
- #19 an insect like a moth
- #69 escargot
- #71 a small, ground-dwelling mammal
- #82 a big, vicious, hairy animal
- #97 a small mammal from Australia

picturesque (6): 5.21%

- #2 a description of scenery in a painting
- #5 a vineyard
- #28 a small, southern town
- #68 grass
- #87 a type of tree, like a walnut
- #102 pretty

a car its parts (4): 3.47%

- #7 a type of minivan
- #9 the action of a (brake) pad grinding up against metal
- #22 a car part
- #86 a car salesman

fabrication (4): 3.47%

- #8 something handmade
- #61 pertaining to fabric
- #110 a manmade material that comes in sheets
- #113 a kind of plastic material
- *Kevlar**

exceptional people (3): 2.60%

- #32 an exceptional person
- #38 an edgy, countercultural person
- #44 a king or a ruler
- #58 a very bad person
- *maven**

magic (2): 1.73%

- #48 a warlock
- #106 a spell making wood come alive

hair care (2): 1.73%

#40 a styling gel for hair

#77 a line of hair care products

dancing (2): 1.73%

#46 to dance

#79 social gathering where dancing might occur

definitions not conforming to a category (27): 23.47%

#11 (turquoise) jewelry

#13 a family member name, like an aunt

#17 a residential street

#20 a nave

#23 a friend

#24 reminiscent of a Mexican

#25 a group of things

#29 work

#30 an agenda

#31 something comfortable, soft

#34 arthritis medication

#39 money (in general)

#49 a brand of makeup

#51 something very far away

#57 a profession available to many which is liberal arts-based

#60 a large structure, maybe for housing

#64 a wire

#66 to push something

#76 a veterinary office or a kennel

#81 a box

#88 a flavor of ice cream: chocolate, toffee and coffee

#96 to joke with your students

#101 a hammer

#103 a cleaning agent to remove rust

#109 a variety of tobacco, not hallucinogenic

#112 tall

#114 strong

Definition Groupings Data Sheet

Words Requiring Definitions

Question ID: H. eyeyu ['a^j·ju^w]

a terrestrial animal (17): 14.65%

- #1 a dog-like animal with a bushy tail and a long nose
- #8 a furry, passive animal
- #12 a type of beetle
- #14 a long, short, white mammal
- #17 a small reptile
- #23 a jackal-type animal
- #27 a small, furry rodent
- #28 an African animal like a deer, with antlers
- #31 a worm
- #35 a big bird, like an ostrich
- #40 a fluffy, white animal found in cold climates
- #41 a medium-sized, ground-dwelling, brown animal with a short tail
- #55 a grey rabbit-like animal
- #72 an animal like a bear that walks on two legs
- #74 a small bird around parks
- #94 a small bird, like a sparrow
- #106 reminiscent of a sled dog

boats and/or water (13): 11.20%

- #30 an inlet on an island
- #33 a small boat the Eskimos would use
- #43 a landform, like a delta
- #44 a canoe paddle
- #54 a peaceful, fishing Indian tribe
- #59 a small one-person boat
- #60 a type of aquatic animal
- #62 a fish or some other aquatic creature
- #82 a small, saltwater fish
- #103 a game played at the beach involving two Frisbees, an umbrella and a wiffle ball
- #105 a pirogue
- #112 water
- #116 a small dolphin

cold or the arctic (7): 6.03%

- #13 an igloo
- #20 an igloo
- #33 a small boat the Eskimos would use
- #40 a fluffy, white animal found in cold climates
- #79 the color of ice when it gets dirty
- #88 a rotten smell in the fridge
- #106 reminiscent of a sled dog

a greeting (7): 6.03%

- #7 a slang form of greeting
- #63 a greeting
- #80 a friendly greeting
- #84 a greeting
- #92 a greeting
- #95 to see an old friend
- #104 to say goodbye

pertaining to Eskimos and Native Americans (6): 5.17%

- #5 a Native American tribe
- #11 a Native American tribe
- #13 an igloo
- #20 an igloo
- #33 a small boat the Eskimos would use
- #54 a peaceful, fishing Indian tribe

computing (5): 4.31%

- #18 a computer program
- #37 a computer accessory, like a USB
- #73 an internet research site, like Wikipedia
- #107 computer security software
- #109 a power supply from a computer

bright, brilliant (light) (4): 3.44%

- #16 brightness in the morning
- #36 a hot color, like orange or yellow
- #64 bright
- #99 natural light

an aquatic animal (4): 3.44%

- #60 a type of aquatic animal
- #62 a fish or some other aquatic creature
- #82 a small, saltwater fish
- #116 a small dolphin

blood work (2): 1.72%

- #75 a procedure done at the doctor's office, like blood work and scanning
- #110 a medical device made of metal and plastic for testing, like drawing blood

***eye (of a needle)**

a small amount (2): 1.72%

- #42 a small measurement of volume
- #111 a small amount

kinship (2): 1.72%

- #3 a designation for one's ancestor
- #21 a term of kinship

definitions not conforming to a category (57): 49.13%

#2 a description of a place
#4 a type of collage
#6 to care for something
#9 a muffled sneeze
#10 an expression to call attention to someone
#15 a tuberous, bitter food plant
#19 Chinese seafood
#22 a cough drop
#24 to hit something
#25 an ordinal number
#26 a stimulant added to green tea
#29 to begin
#32 a mountain pass
#34 a hut like those in Africa
#38 to instill fear in somebody
#39 to influence
#45 to benefit someone
#46 a sad feeling
#47 a specialized piece of sewing equipment
#48 to take a dump
#49 a kitchen tool
#50 a meditation or prayer
#51 someone very nice
#52 a child's toy
#53 underwear for either sex
#56 a skin irritation
#57 a tropical, fruity, alcoholic drink
#58 a trash can
#61 a general place where kids hang out
#65 a fruit like a papaya
#66 an iron
#67 the universe
#68 a swing
#69 a board game
#70 a purse
#71 a country path
#76 a type of building material
#77 a dirty spot on a blanket
#78 a pinhole
#81 floating
#83 a highly absorbent material
#85 a small percussion instrument
#86 an independent person
#87 a car part, maybe a hose
#89 an ending
#90 to look at someone puzzled
#91 a road
#93 something that's creepy
#96 glasses
#97 a bead currency
#98 a situation where a problem cannot be resolved even though one person has complete power over all others
#100 to be kicked out of somewhere
#101 a non-specific measurement of time
#102 a washer
#113 an exclamation, said in pain or anger
#114 to take notes
#115 a technique used in writing research papers

Definition Groupings Data Sheet

Words Requiring Definitions

Question ID: I. narathooze ['næ · ɹə · θuːz]

a medical procedure, medicine or an illness (36): 31.03%

- #2 nose spray
- #4 a sickness of the nose
- #17 an upper respiratory or nasal infection
- #18 a cold medicine, nasal spray
- #22 a medicine for nasal congestion
- #26 an emollient for the feet
- #27 a disease
- #28 a small passageway
- #31 something to do with the nose, smell
- #35 a mental disorder
- #36 the tube used to help a patient breathe
- #39 a nasal strip
- #41 a disease of the immune system that makes you feel drowsy
- #42 an allergy medicine
- #44 a pain reliever, like Icy Hot
- #45 a medicine for the brain
- #46 a cold (illness)
- #48 a drug to treat ADD
- #56 to sneeze
- #57 a medical instrument for internal x-rays
- #58 a type of anesthesia
- #60 relates to the esophagus
- #65 nose medicine
- #71 a decongestant
- #75 a state of being numb
- #76 a nose medicine
- #77 homemade nasal spray
- #78 therapeutic
- #84 a prescription sleeping pill
- #94 a product for the nose or sinuses
- #96 a type of medicine for arthritis
- #98 a sinus condition where the nasal passages are constricted
- #99 a canal
- #102 a medicine for a skin rash
- #107 medicine that treats breast cancer
- #109 similar to neurons in the brain, they transmit signals

nose (spray) (20): 17.24%

- #2 nose spray
- #4 a sickness of the nose
- #17 an upper respiratory or nasal infection
- #18 a cold medicine, nasal spray
- #22 a medicine for nasal congestion
- #28 a small passageway
- #31 something to do with the nose, smell
- #36 the tube used to help a patient breathe
- #39 a nasal strip
- #42 an allergy medicine
- #46 a cold (illness)
- #56 to sneeze
- #60 relates to the esophagus
- #65 nose medicine
- #71 a decongestant
- #76 a nose medicine
- #77 homemade nasal spray
- #94 a product for the nose or sinuses

- #98 a sinus condition where the nasal passages are constricted
- #99 a canal

a confined passageway (18): 15.51%

- #9 the action of a marble travelling along a Styrofoam pipe
- #21 the path and shape of a river
- #28 a small passageway
- #30 to be close in proximity
- #36 the tube used to help a patient breathe
- #47 an inlet
- #52 a natural passageway
- #53 a trough in the earth
- #55 a sea monster like Loch Ness
- #60 relates to the esophagus
- #70 socks
- #88 a dangerous switchback on a cliff
- #95 to drive off a cliff
- #98 a sinus condition where the nasal passages are constricted
- #99 a canal
- #101 a piece of tubing, like a funnel
- #108 a pass through a canyon
- #116 a knot that can't be untied

mental acuity or confusion and ignorance (15): 12.93%

- #14 confused
- #16 nonsense
- #25 one's thoughts
- #35 a mental disorder
- #43 an intellectual person
- #45 a medicine for the brain
- #48 a drug to treat ADD
- #49 a philosopher
- #51 to daydream
- #85 ignorant
- #86 a person who isn't very smart
- #87 confusion
- #104 to educate somebody
- #109 similar to neurons in the brain, they transmit signals
- #114 to dream

sleep, calm or tranquility (9): 7.75%

- #1 a Greek god of sleep
- #11 a fairy tale for children, like a fable
- #51 to daydream
- #58 a type of anesthesia
- #59 to calm somebody down
- #79 a state of being numb
- #84 a prescription sleeping pill
- #110 soporific
- #114 to dream

festive, excitement, happy (8): 6.89%

#5 to become excited over
#6 silly
#8 something that would make you happy, like a movie
#19 a parade
#20 happy
#50 a competition
#72 a bubbly, alcoholic beverage
#103 a drink containing four types of alcohol and fruit juice

storytelling (6): 5.17%

#1 a Greek god of sleep
#3 a dark (evil) character from Greek or Roman mythology
#11 a fairy tale for children, like a fable
#29 playful
#37 a story passed down
#63 to read

Greek (philosophers and mythology) (5): 4.31%

#1 a Greek god of sleep
#3 a dark (evil) character from Greek or Roman mythology
#12 a Greek philosopher
#33 an old, grey-headed man
#49 a philosopher

figures, codes and intellectual items (5): 4.31%

#7 a computer program
#13 an algorithm
#89 brilliant
#97 the attempt to measure something's dimensions approximately
#115 a legal document detailing real estate law or a housing agreement

woods or the jungle (4): 3.44%

#15 a geographical term for a densely-vegetated place which is hard to cross
#23 a tree like an elm
#67 the jungle
#106 headhunters to be feared

tall people (3): 3.44%

#74 a category of tall people
#82 a race of tall, hairless people
#113 a tall people group from a cold climate

cold (3): 2.58%

#24 a type of cloud composed of distinct ice crystals
#40 a dark color like blue
#80 descriptive of freezing cold

to influence somebody (2): 1.72%

#66 to influence someone
#73 to influence someone

definitions not conforming to a category (20): 17.24%

#10 an expression used in pleasant conversation
#32 the deck of a U-boat
#34 to sneak around and rifle through somebody's things
#38 a feeling of nervousness
#54 to take something from
#61 a Neanderthal
#62 a type of lotion, soap or face wash
#64 clothes
#68 a bed
#69 Native American clothing
#81 driving
#83 an eraser
#90 somebody who doubts others
#91 a good wizard
#92 to reassure
#93 a siphon
#100 a grade of gasoline
#105 pertains to being thorough, a person or a thing
#111 something unremarkable
#112 a large, furry, mammal that is dangerous to people

Definition Groupings Data Sheet

Words Requiring Definitions

Question ID: J. phillontave ['fɪ · lən · t'eɪv]

a tool (15): 13.04%

- #31 a mechanical tool used for levering
- #40 a writing utensil
- #42 a shovel used in the garden
- #43 a writing pen
- #50 a measuring device, like a beaker
- #53 a piece of hardware that tightens down a lamp fixture
- #55 a leather-working tool
- #59 a tool like a pick used in archaeology
- #68 duct tape
- #82 a utensil, like a spatula
- #83 a mechanical pencil
- #96 a machine used to cut
- #101 a pitcher, like for water
- #103 a radar detector used by police and baseball scouts
- #107 a car dent remover

caulk or glue (11): 9.56%

- #8 a type of gel used to caulk
- #18 a bone or cartilage in the nose
- #41 a packaging material used at the post office
- #65 something sticky and gritty
- #68 duct tape
- #72 toothpaste
- #77 the glue for tape or a post-it
- #87 a type of glue
- #102 a strong glue or cement
- #105 denture glue, like Fixodent
- #109 a type of caulk

mental activity (5): 4.34%

- #7 an unspecified academic discipline
- #11 an ideology
- #20 dumb (not intelligent)
- #63 to think
- #114 open-minded
- *philosophy

food (4): 3.47%

- #12 a type of sandwich
- #24 a salad
- #30 a tree like an orange tree
- #57 a post-exercise snack

arranging things (3): 2.60%

- #2 to fill something unequally
- #3 a group of random objects that you might place into a backpack
- #113 to arrange things in space
- *to fill

music (2): 1.73%

- #34 to compose a piece of music
- #80 a musical note in terms of pitch

islands (2): 1.73%

- #1 a very cold, small, distant island
- #6 a tropical island

a color (2): 1.73%

- #54 an earth-tone color, like moss
- #111 a color like purple

definitions not conforming to a category (72): 62.60%

- #4 a thief
- #5 to study human culture, like anthropology
- #9 the action of a stack of papers being shredded
- #10 something that is artificially heated
- #13 to pump gas
- #14 a cave
- #15 to coerce somebody into doing something
- #16 a bragging, obnoxious person
- #17 something done in way that is different than is customary
- #21 a distinguished and retired person
- #22 a skinny, short person
- #23 a gas station
- #25 a measurement of time
- #26 an oriental grass that grows in a marsh
- #27 a type of chemical
- #28 to exchange something for something else
- #29 to dig
- #32 a big spender
- #33 a smooth, upholstered fabric
- #35 to crave, salivate
- #36 to cross-examine somebody
- #37 a foyer or a hallway
- #38 a member of a royal court
- #39 to study
- #44 a large, wooden sailboat
- #45 to overthrow a ruler
- #46 bad weather with tornadoes
- #47 an apology
- #48 peculiar
- #49 a tribal people
- #51 to put something on a shelf
- #52 a store that sells staples
- #56 watching something
- #58 somebody smart
- #60 done in a thorough manner
- #61 something unnecessary
- #62 a shoe, like a loafer
- #64 to pull
- #66 to film someone
- #67 to drop on the ground
- #69 a biologist
- #70 to run
- #71 a light fixture like those you see in the movie theater
- #73 to find something you lost
- #74 a videocassette
- #75 reading
- #76 a soft, felt-like material
- #78 calm, easy, peaceful
- #79 a thrusting action in ultimate frisbee or lacrosse
- #81 a cloud
- #84 a close relative, like a brother
- #85 abstractly
- #86 a fat guy
- #88 a decorating style that is economical shabby-chic
- #89 a rhyme
- #90 to preach at someone

#91 a battle
#92 to take in, assimilate
#93 a traitor
#94 to do something you didn't mean to do and you realize it later
#95 to put your shoes on without tying them
#97 climbing up a rock
#98 a spinning top that will influence people's decisions, like a dardle
#99 a plateau
#100 mimicking
#104 to be confused
#106 sifting flower
#108 a sport with a ball
#110 a prepared food that is sweet
#112 famous
#115 a method personal trainers use to prepare athletes for their sports
#116 a crazy straw (with lots of loops)

Definition Groupings Data Sheet

Words Requiring Definitions

Question ID: K. lulurode ['luː · lə · ɔːd]

windy, twisty or curvy (34): 29.31%

- #2 an uneven street
- #3 a windy road like in the game Candyland
- #8 a windy, country road
- #15 a toy for children consisting of interlocking hoops
- #18 a pipe snake
- #23 a mountain trail
- #34 a shortcut on a road trip
- #45 to bypass something
- #48 ambiguous
- #49 a tool for weaving
- #51 to meander
- #60 a passageway
- #61 something that goes on and on and on
- #64 erratic motion
- #66 to swerve down the road
- #67 curves, like in a road OR a rose
- #73 a line of people
- #78 twisty
- #80 a trick involving flips
- #81 a jump rope
- #86 a speed bump
- #87 to run around
- #88 to go off on a tangent when speaking
- #90 to evade a question
- #91 a crazy person, like a schizophrenic
- #98 something that is permanently curled
- #100 misleading
- #105 a winding road
- #106 a big roll of paper
- #107 a bicycle tire
- #108 bizarre or confusing
- #109 a small, delicate, purple flower, built around a central axis
- #110 a mammal that hops and jumps
- #116 a carnival ride, like a merry-go-round

game, play, or whimsy (28): 24.13%

- #3 a windy road like in the game Candyland
- #5 a game, maybe a video game
- #7 a little kid
- #11 a children's game
- #14 a fun, happy, comfortable place
- #15 a toy for children consisting of interlocking hoops
- #17 a toy
- #20 exuberant
- #21 a child's game
- #33 a carefree person
- #38 a whimsical animal with a long tail, like a lemur
- #39 to play
- #40 whimsical, girlish, childhood play
- #57 a game that small children play at recess
- #58 a type of toy
- #76 a piece of play equipment
- #80 a trick involving flips
- #81 a jump rope
- #84 a vacation
- #85 laid back
- #87 to run around
- #92 joyful
- #93 whimsical
- #96 a game with a ball

- #97 a soft and frilly fabric
- #111 a positive emotion, like overjoyed
- #113 an incredibly amazing party
- #116 a carnival ride, like a merry-go-round

a flower (purple) (13): 11.20%

- #1 a small, red, fragrant flower
- #4 bright, colorful flowers
- #9 the action of a flower swaying in the wind
- #13 a small, yellow flower
- #16 flowery, embellished
- #31 a small, purple flower
- #53 a bright purple flower
- #62 a flower bed
- #65 fresh irises
- #67 curves, like in a road OR a rose
- #89 colorful
- #102 a purple-pink flower, medium sized
- #109 a small, delicate, purple flower, built around a central axis

a dance (6): 5.17%

- #22 a dance
- #28 a fast-paced dance
- #41 a dance, like the aloha dance
- #59 a tribal dance
- #69 a swing dance
- #79 a shuffling movement

massive or large (6): 5.17%

- #6 a rock
- #19 a hippopotamus
- #25 something heavy
- #27 a planet
- #42 a mountain range
- #101 something solid

female (4): 3.44%

- #12 a girl punk band
- #26 an ingredient in a perfume that Angelina Jolie is working on
- #32 a crazy woman
- #82 a female article of clothing, like a long dress

the beach (3): 2.58%

- #36 a town on the beach
- #46 a large beach
- #104 to go swimming

candy(2): 1.72%

- #24 a chocolate candy bar
- #63 pink candy, like bubble gum

definitions not conforming to a category (27): 23.27%

- #10 something used to measure distance
- #29 an old, WW2-style airplane
- #30 a (small) rope
- #35 a colorful, South American vest
- #37 a writing pen
- #43 a cloth napkin
- #44 a horse's bit
- #47 a special toy with moving parts
- #50 oil
- #52 a baby blanket
- #55 a slingshot
- #56 doing something new
- #68 cough medicine
- #70 to hang out
- #71 a field on the plains with tall grass
- #72 a disease of the lymph nodes
- #74 describes a human-powered mode of transportation
- #75 a small, quaint town
- #77 a codename for when you break a window
- #83 a chair
- #94 the handle on top of a pan
- #95 when you drop a book
- #99 a forest
- #103 a vegetarian dish served in the Sears Tower
- #112 a small sports car
- #114 to study
- #115 a time of day between one and four o'clock

Definition Groupings Data Sheet

Words Requiring Definitions

Question ID: L. goxiwall ['gak · sə · wɔt]

fantastical, non-sensical or different than the norm (25): 21.73%

- #3 something without coherence, nonsensical
- #7 a weird town in a valley
- #8 a circus freak, maybe an animal-man
- #14 reminiscent of Halloween, scary ghosts
- #15 a ferocious animal the size of a raccoon, arboreal, nocturnal, and carnivorous
- #29 an alien monster
- #43 an extraterrestrial being
- #46 a movie monster
- #47 a fantastical Tolkien character
- #58 a big, mean monster, like Grendel
- #61 a weird (drinking) bar
- #65 large, powerful castles, maybe with gargoyles
- #66 to make a weird noise
- #69 a ghost
- #85 insane
- #94 pure mayhem
- #100 an odd, diagonal pattern, like with tiles
- #101 a flying animal, not necessarily a bird, dangerous to people
- #102 a troll or goblin
- #108 an ugly sea creature with tentacles
- #110 an exotic animal, small and grey, harmless to people, maybe found in Australia
- #112 dark (evil)
- #113 a young, mischievous, irresponsible, problem-solving child
- #115 a non-sense statement
- #116 an ogre

something to be feared or otherwise negative (25): 21.73%

- #11 a wolf-like animal
- #14 reminiscent of Halloween, scary ghosts
- #15 a ferocious animal the size of a raccoon, arboreal, nocturnal, and carnivorous
- #28 a mistake you would want to cover up
- #29 an alien monster
- #40 a disease of the skin, a rash
- #46 a movie monster
- #48 to screw up majorly
- #58 a big, mean monster, like Grendel
- #65 large, powerful castles, maybe with gargoyles
- #69 a ghost
- #73 to freak out
- #74 the action of breaking something
- #75 vomiting
- #85 insane
- #90 to hit somebody with a bat
- #92 scared, anxious
- #94 pure mayhem
- #101 a flying animal, not necessarily a bird, dangerous to people
- #102 a troll or goblin
- #108 an ugly sea creature with tentacles
- #112 dark (evil)
- #113 a young, mischievous, irresponsible, problem-solving child
- #114 to make fun of
- #116 an ogre

an animal (18): 15.65%

- #1 a white, vegetarian, ox-like animal
- #8 a circus freak, maybe an animal-man
- #11 a wolf-like animal
- #15 a ferocious animal the size of a raccoon, arboreal, nocturnal, and carnivorous
- #18 a type of tropical bird
- #22 a type of waterfowl
- #23 a medium-sized, dog-like animal
- #24 a big, tropical bird
- #27 a parrot
- #42 a bird, like a seagull
- #54 an animal with scales and feet, like an iguana
- #57 a small herbivore animal hunted for its meat
- #84 a short woodland creature, like a koala
- #91 a bird, like a gull
- #101 a flying animal, not necessarily a bird, dangerous to people
- #108 an ugly sea creature with tentacles
- #110 an exotic animal, small and grey, harmless to people, maybe found in Australia
- #111 a beast of the forest, like a small cat, not dangerous to people

adhesives (11): 9.56%

- #9 putty used for sealing up cracks
- #44 floor sealant
- #49 a type of adhesive
- #51 to glue something together
- #56 a type of slime or sludge
- #76 something that gets stuck to the bottom of your shoe
- #87 a type of caulk
- #93 thick
- #96 a putty to form molds for repairs
- #103 a putty substance used to fix leaks
- #107 caulk for floor tile

a castle, architecture, or a structure (8): 6.95%

- #21 describes the architecture of a castle
- #25 a thatched roof
- #33 Spanish-type architecture
- #34 supports a building like a flying buttress
- #59 a construction tool for measuring
- #65 large, powerful castles, maybe with gargoyles
- #67 an old castle
- #71 a stained glass window

food and drink (6): 5.21%

- #26 a seasoning salt for cooking shellfish
- #38 a Scottish alcoholic beverage
- #79 a traditional way in which beer is consumed
- #83 a green spherical vegetable
- #105 a food like sausages and sauerkraut
- #109 a spicy chili from Spain

a sharp tool (4): 3.47%

- #17 a long sword
- #37 a type of knife
- #72 a tool used around the yard to dig things up or break up soil
- #99 an axe

the floor (3): 2.60%

- #44 floor sealant
- #100 an odd, diagonal pattern, like with tiles
- #107 caulk for floor tile

medicine or surgery (3): 2.60%

- #41 a surgical procedure
- #82 a medicine to help the elderly with their hearts
- #97 an anatomical part having to do with the circulatory system

shoes (2): 1.73%

- #76 something that gets stuck to the bottom of your shoe
- #77 the act of restoring the heel of a worn-down sandal

goggles (2): 1.73%

- #2 a type of goggles
- #10 a barrier used to protect the eyes
- * similar to the first syllable of Question L.

a plant (2): 1.73%

- #6 a small, green- yellow, flowering plant
- #36 a small plant or shrub

definitions not conforming to a category (32): 27.82%

- #4 a mean person
- #5 a James Joyce- inspired word
- #12 an old Nordic hero
- #13 a mechanical clock
- #16 pushing for a result
- #20 smacked
- #30 a short walk
- #31 someone raspy in voice
- #32 an inland sea passageway
- #35 to move laterally across a rock face
- #39 to search
- #45 to saunter
- #50 a strategic maneuver
- #52 a reference book
- #53 a last train stop village before reaching the big city
- #55 a computer part, something technical
- #60 a sturdy rock
- #62 something old
- #63 to look at something
- #64 blocked in
- #68 a cotton ball
- #70 to be lazy
- #78 a pinwheel or a windmill
- #80 an engine part
- #81 to stop
- #86 to drive a car
- #88 a person who stares a lot
- #89 tactile or hands on
- #95 to forget your name
- #98 a greenish orange color
- #104 to throw
- #106 a dance like a high step but with more formality

Definition Groupings Data Sheet

Words Requiring Definitions

Question ID: M. cengastumine [sɪn · 'gæs · tə · mɑːn]

disease, the body or gastro-intestinal issues (21): 18.10%

- #1 a skin disease of the legs
- #14 a stomach disease
- #19 a stomach ache
- #23 a disease of the stomach
- #25 a stomach disease
- #27 an internal organ
- #29 an illness of the immune system
- #30 a stomach problem
- #31 a medicine for the sinuses
- #39 to do surgery
- #40 nausea
- #43 a blood disease
- #57 describes something unpleasant in the body, uneasiness
- #60 a disease where sweating is one of the symptoms
- #82 a saw that a surgeon would use
- #90 a parasitic insect that sucks blood
- #98 a manufactured compound in a prescription drug
- #101 a disease of the intestines
- #105 bloated
- #110 a disease of the intestines
- #115 a medical procedure where scans of the internal organs are made

chemical compounds, elements or minerals (17): 14.65%

- #5 oil refining
- #9 a chemical compound used for making rubber ducks
- #12 something poisonous, like asbestos
- #21 something's chemical composition
- #22 an element from the periodic table
- #37 a chemical element
- #42 a toxic, chemical compound
- #56 an element
- #73 to experiment with chemicals
- #78 something synthetic or false
- #84 a bright orange mineral
- #87 radioactive chemical
- #91 an ore, something that would be mined

chemical compounds, elements or minerals (cont.)

- #96 a type of chalky rock
- #97 a chemical product used as a fire retardant
- #98 a manufactured compound in a prescription drug
- #109 a gasoline additive

warfare, chemical weapons, poison or the infliction of harm (16): 13.79%

- #2 a gas chamber in the Holocaust
- #4 something having to do with warfare and trenches
- #6 an explosion
- #7 a poisonous chemical
- #8 something dangerous, a poisonous murder weapon
- #13 chemical explosion
- #15 to poison with an inhalant
- #17 a tank or related weapon
- #36 a poisonous by-product from a factory
- #42 a toxic, chemical compound
- #46 a large booming noise
- #49 a volatile chemical
- #61 a way of destroying something
- #83 an artificial poisonous chemical
- #87 radioactive chemical
- #107 a liquid explosive

duplication (9): 7.75%

- #3 a replication, mimesis or parroting
- #33 a synonym
- #44 systematically searching for a treasure
- #51 to talk nonstop
- #62 two things that are alike
- #94 when you don't believe somebody because they are a liar
- #103 a type of English bifocal
- #106 writing a satire of satires
- #111 a door to door salesman

low places (6): 5.17%

- #4 something having to do with warfare and trenches
- #32 to break through a surface
- #48 to erupt, like a volcano
- #55 an ocean trench
- #74 a cavern
- #77 the grooves left in hardwood that comes from heavy furniture

ignoring or depriving others of their say (5): 4.31%

- #10 a situation where you don't take somebody's opinion into consideration
- #16 resolute
- #18 to ignore something
- #38 a filibuster
- #102 to cut somebody's leg's out from underneath them (figuratively)

submerged (3): 2.58%

- #79 a type of valve in submarines
- #81 a shell
- #88 a smooth water rock

*mine

family (3): 2.58%

- #35 a family gathering
- #76 something majestic or royal
- #99 heraldry

a problem (3): 2.58%

- #47 a conundrum or a predicament
- #59 to confuse or stump
- #113 a problem with no resolution

thinking (3): 2.58%

- #70 to think deeply
- 75 to think
- #92 an epiphany

definitions not conforming to a category (33): 28.44%

#11 to take a meeting
#20 odd
#24 a type of car
#26 a city in Croatia that one would enjoy visiting
#28 a place you've never been before
#34 a proud, over-the-top person
#41 an acrobat
#45 carbonation
#50 to startle or surprise
#52 an Indian spice
#53 a feeling a man gets when he loses his integrity
#54 wise and knowledgeable
#58 a swordsman
#63 to scratch
#64 clouds
#65 a strong, alcoholic drink
#66 to write something
#67 a human
#68 a water heater
#69 an extinct spider
#71 an 18 wheeler
#72 a medicine that treats abdominal pain
#80 a window with one large pane
#85 euphoric effect
#86 to eat very fast
#89 an experiment
#93 potent
#95 to receive a donation
#100 a tragedy, like a natural disaster
#104 believing
#112 bizarre
#114 something that's narrow
#116 the calm after a storm

Definition Groupings Data Sheet

Words Requiring Definitions

Question ID: N. poncilader ['pʰɑŋ · kʷə · leʲ · rə]

domestic or office tools (23): 20.00%

- #6 a cooking utensil
- #13 a fancy stereo
- #23 a coffee pot
- #33 a coffee pot
- #36 a cleaning utensil
- #42 a paper hole puncher
- #43 an electrical appliance, like a blender or toaster
- #44 a water purifier
- #45 an extension cord
- #51 earthenware
- #57 a device to mix drinks
- #66 a technological device for pushing or opening things
- #68 tongs
- #78 a grinder
- #79 a vegetable juicer
- #84 a thermostat
- #86 a copy machine
- #104 a washing machine
- #105 a noise-making toy with buttons corresponding to different sounds
- #108 churning butter
- #109 an air purifier
- #113 a machine that matches up music with images
- #116 transfers files from a recorder to a television

a measuring device (16): 13.91%

- #10 a tool to measure depth
- #18 a portable heart monitor
- #21 a mathematical device for making calculations
- #25 a meter for determining volume
- #41 a timekeeper
- #49 a device for measuring pressure or temperature
- #52 a machine that tests air pressure
- #59 a time keeper, like a watch
- #62 a measuring device
- #81 a thermostat
- #82 an instrument for finding heart murmurs
- #101 a tool to measure distances
- #102 a switch board or control station
- #106 a person who calculates scores
- #114 a medical device that measures blood pressure
- #115 a device used by a neurologist to measure the amount of electricity in you

a device pertaining to engines or cars (15): 13.04%

- #4 a car part
- #14 a car part
- #16 a car made into an object of art
- #21 a mathematical device for making calculations
- #24 a tool used in car repair
- #32 a guy with a tanker truck
- #35 a part of a car engine
- #37 a pump for filling up tires
- #48 a very fancy car
- #50 a grater or bulldozer
- #54 a part of an engine, like the fuel injectors
- #63 a type of motorbike, like a dirt bike
- #84 a street sweeper
- #90 a new type of fuel pump for a car
- #94 a car part, like an oil filter

an impact-causing device (10): 8.69%

- #42 a paper hole puncher
- #56 a machine that hammers
- #58 a machine that stamps things
- #60 something to punch through concrete
- #64 to poke
- #97 something to punch holes in metal
- #98 a large machine that crushes rocks
- #103 a nightstick carried by the police
- #107 a torture device, like a dull guillotine
- #110 a steam powered machine that stamps out widgets

a medical device (10): 8.69%

- #1 a machine which helps keep the muscles strong
- #3 a pacemaker for the pancreas
- #5 a medical device
- #8 a defibrillator
- #12 a medical device to revive people who have passed out
- #18 a portable heart monitor
- #69 a psychotherapist
- #82 an instrument for finding heart murmurs
- #114 a medical device that measures blood pressure
- #115 a device used by a neurologist to measure the amount of electricity in you

(pseudo-)intellectualism (7): 6.08%

- #15 a person obsessed with punctuation
- #30 the means of achieving an end
- #34 somebody whose mind jumps from one place to another
- #39 exploring new places
- #53 a savvy move in poker
- #70 an intelligent person
- #71 a know-it-all

heavy, load-bearing machines (6): 5.21%

- #32 a guy with a tanker truck
- #47 a concrete mixer
- #50 a grater or bulldozer
- #87 an elevator part, maybe a gear
- #96 a machine that moves heavy objects
- #98 a large machine that crushes rocks

a toy (4): 3.47%

- #2 a toy that changes shape, like a Transformer
- #9 the next ultimate water sports weapon
- #29 a balloon
- #40 a bouncy toy

diminished or not up to snuff (4): 3.47%

- #11 a pidgin language
- #38 describes a person who tries to be funny but isn't
- #46 to go on a retreat when tired
- #85 something to cause absentmindedness

a projectile-launching device (3): 2.60%

- #9 the next ultimate water sports weapon
- #17 a small arms weapon
- #65 a machine that shoots out balls

mechanical tools (3): 2.60%

#22 an air pump

#31 a tool like an awl

#83 a tool, like a hammer

***pump**

police (2): 1.73%

#91 a police detective

#103 a nightstick carried by the police

science fiction (2): 1.73%

#61 a machine for time travel

#100 instrument you could use to talk with an animal

definitions not conforming to a category (22): 19.13%

#7 something squishy or spongy

#20 a gasket

#26 a flavor of ice cream with cherries and nuts

#27 (like) a lump on a log, something sluggish

#28 an intermediary in an argument

#55 a hat a ruler might wear

#67 destruction

#72 something that makes holes

#73 a chewy candy

#74 a food like popcorn

#75 to push

#76 a pop dance

#77 a large aquatic animal smaller only than the whale

#80 a tiny bone in the human foot

#88 a person who decorates animal cakes

#89 a genre

#92 to hit somebody

#93 attentive

#95 to think about a test you took earlier

#99 moak [mo"k] (an unidentified word)

#111 a legendary hero figure

#112 high school male clothing line aimed at skaters

Definition Groupings Data Sheet

Words Requiring Definitions

Question ID: O. bowertilldew [,ba·wə·'tʰɪl·duʷ]

a tool (16): 14.15%

- #3 a balance (scale)
- #10 a tool used for cleaning
- #14 a tool for breaking up dirt
- #27 a drill-like tool used to fashion wood
- #34 a tool for setting up a tent
- #61 a piece of farming equipment that plants seeds
- #62 an electronic gadget for measuring
- #71 a lawn mower
- #76 an automated vacuum
- #79 a barbed spear
- #80 a large, hand-operated digging instrument
- #82 an instrument to clean out the intestines
- #85 a garden tool, like an aerator
- #96 something used to cut grass
- #103 a writing utensil for electronic smart boards, like a stylus
- #109 an essential piece in a pulley system

farming or cultivation (11): 9.73%

- #14 a tool for breaking up dirt
- #20 a garden
- #42 describes somebody who works with their hands
- #47 a lamp that hangs in the garden
- #61 a piece of farming equipment that plants seeds
- #80 a large, hand-operated digging instrument
- #85 a garden tool, like an aerator
- #97 descriptive of boggy soil, like in Scotland
- #101 a term for a hard worker
- #105 cultivation, planting
- #114 a young, hard worker

the passage of time or something put off for later (8): 7.07%

- #17 an activity that you wish to avoid
- #18 implying the wish to procrastinate
- #30 a time late in the day
- #68 tomorrow
- #70 to procrastinate
- #94 to push the snooze button on the alarm
- #95 to waste time
- #111 an amount of time

a mode of transportation (7): 6.19%

- #23 a ship's bilge
- #29 an army tank
- #33 an anchor on a boat
- #65 a sailboat
- #81 a car
- #83 type of helicopter
- #107 reminiscent of a jet engine

pertaining to nobility (7): 6.19%

- #4 descriptive of English nobility long ago
- #35 a round tower with many windows
- #40 something royal
- #56 a castle
- #69 someone in charge
- #74 a boss or leader, like a mayor
- #91 a medieval castle

fantasy worlds (7): 6.19%

- #8 a genre of writing, creative non-fiction that uses embellishments to enrich the story
- #12 a fantasy novel, like Lord of the Rings
- #37 a long sword
- #56 a castle
- #60 a mythical creature greatly revered in a civilization
- #73 a RPG-type video game
- #91 a medieval castle

wooded places or forests (6): 5.30%

- #31 a wooded place
- #32 a highway through the Amazon
- #41 a place with a lake where people vacation
- #48 a small, colorful bird of the rainforest
- #54 a type of tree that produces only pine cones
- #59 a type of wild plant, like a bush

an article of clothing (6): 5.30%

- #2 an article of clothing
- #13 men's casual pants
- #43 pants, like jeans
- #46 a plastic mask
- #55 an ornate robe
- #98 a 16th Century men's cloth hat

soft(5): 4.42%

- #6 a fluffy object, like snow or cotton
- #14 a tool for breaking up dirt
- #50 a soft part of the human body, like the earlobe
- #97 descriptive of boggy soil, like in Scotland
- #110 a strong cheese, like brie

*tilling

mold (4): 3.53%

- #5 to mold or decay
- #9 a bathroom mold
- #90 a type of fungus
- #97 descriptive of boggy soil, like in Scotland

deference (4): 3.53%

- #11 a formal greeting
 - #45 to be subservient
 - #51 to be obsequious
 - #53 a way you negotiate according to our American cultural norms
- * to bow**

a gathering of people (4): 3.53%

- #16 a gathering of people to celebrate a ritual
- #28 an event to celebrate something
- #41 a place with a lake where people vacation
- #88 a backyard party with a maypole

a dance (3): 2.65%

- #1 a dance frequently performed at weddings involving jiggling the hips
 - #22 a fast dance where you shake your hips
 - #38 a female ballet dance
- *to bow**

sickness (3): 2.65%

- #44 vomit
- #49 an infection of the bowels
- #102 a nagging affliction

an animal (3): 2.65%

- #39 a large domesticated dog
- #77 the art of making small wooden animals
- #84 a turtle-like creature, but more agile and aggressive with longer legs

liquid nourishment (3): 2.65%

- #7 a happy type of drink, like lemonade
- #36 a dark lager beer
- #57 a light soup

a support structure (2): 1.50%

- #87 handicapped rail
- #106 a support for a tower

grass cutting (2): 1.50%

- #71 a lawn mower
- #96 something used to cut grass

***tilling**

a mountain (2): 1.50%

- #26 a mountain in Siberia that one would like to climb
- #52 a very high mountain

definitions not conforming to a category (22): 19.46%

- #15 a wind instrument of low register
- #24 a building game involving connecting pieces
- #25 to lift something
- #58 something's backside
- #63 to be mean
- #64 a toilet
- #66 the capability to act
- #72 a hot desert location
- #75 to be angry
- #78 weird
- #86 somebody that lays carpet
- #89 to clean
- #92 surprised
- #93 decisive
- #99 a storm
- #100 a complete change in direction
- #104 to work out
- #108 a rigged election
- #112 frightening
- #113 a small puddle that disappears after the sun rises
- #115 an agreement between two or more people to not be sworn to secrecy
- #116 a touchdown or homerun in some unidentified sport

Definition Groupings Data Sheet

Words Requiring Definitions

Question ID: P. chocksabeeble ['tʃak · sə · hi · bəl]

a cluster, pile or group of repeated objects (33): 28.94%

- #3 a large gathering of people
- #7 a material like bricks or cement
- #9 a device used for chopping round objects
- #14 somebody who got sick and threw up
- #24 a mixture of various snack foods, like a chex mix
- #28 a big mess
- #29 a stand of logs
- #33 a pile of various, countable pieces
- #35 a group of loud children
- #40 a pile of meaningless crap
- #42 a big mess, a cluster
- #43 a big concert, like Woodstock
- #52 a food made from a mashed up root
- #53 the bend in a river where sediment has collected and it makes the area un-navigable
- #55 an old piece of farming equipment, like for tilling
- #62 reminiscent of bamboo
- #63 to chop something
- #74 to cook something in a wok
- #76 a thick food with big chunks
- #77 the skill of leaping on stones that are far away from one another when crossing a creek
- #79 ground corn
- #82 a crushed up grain, maybe red in color
- #85 many
- #86 a stump grinder
- #87 an ingredient in concrete
- #88 a relay game you play running from pole to pole
- #96 a fence
- #97 a regular polyhedron
- #105 multi-faceted
- #106 a large, indefinite number
- #108 cornmeal-based food
- #112 rocks, like boulders, dispersed
- #116 a big pile of food

food (24): 21.05%

- #2 a hot drink, like tea, taken when ill or in the winter
- #4 a type of candy
- #6 a type of hard, cinnamon candy
- #8 someone who eats a lot
- #16 something to grill on a campfire
- #23 Chinese food
- #24 a mixture of various snack foods, like a Chex mix
- #34 a rich foreign (to Americans) candy
- #37 a foreign candy
- #39 to prepare a food you never prepared before
- #41 a sweet, thick, European food served in a bowl
- #52 a food made from a mashed-up root
- #64 sweet
- #67 chewy candy
- #71 a kitchen table
- #74 to cook something in a wok
- #76 a thick food with big chunks
- #79 ground corn
- #82 a crushed up grain, maybe red in color
- #95 to make a cake
- #102 a vitamin or herb useful for steadying the hand
- #104 to eat
- #108 cornmeal-based food

#116 a big pile of food

tools (13): 11.40%

- #9 a device used for chopping round objects
- #10 a tool used to make marks on various surfaces
- #47 a part in a furnace
- #49 a tool used by native people for hunting
- #55 an old piece of farming equipment, like for tilling
- #56 the handle on a drawer
- #59 something that helps find direction, like a map or a compass
- #60 a wooden spear
- #83 a touch screen desktop computer
- #86 a stump grinder
- #100 a hammer
- #103 a parking brake for steep inclines
- #107 a hatchet

Indians (9): 7.89%

- #3 a large gathering of people
- #12 an American Indian tribe
- #20 an Indian tribe
- #27 name of an ancient tribe of Native Americans
- #32 a temple in Mexico
- #36 an Indian shelter, like a teepee
- #38 pertaining to Sasquatch
- #46 Indian face paint
- #84 a story passed down about ancestors

an animal (8): 7.01%

- #1 a purple, unfriendly, reptile-like animal
- #44 a large, mysterious monster, like Bigfoot
- #58 pertaining to a rooster
- #61 a big furry monster that eats people
- #68 a horse barn
- #90 an animal that lives in a rocky desert
- #101 a small, furry dinosaur
- #111 an animal, like a squirrel but with a spiky tail

emotion (7): 6.14%

- #5 to become angry over something
- #13 a violent act
- #50 to be cocky
- #93 something funny
- #98 somebody opposed to an idea even though they know it is the morally right thing to do
- #99 a malevolent spirit
- #115 an emotion of anger or disgust

exercise or physical activity (7): 6.14%

- #11 to exercise on a machine
- #48 to balance
- #66 being able to do something
- #69 performing a type of yoga
- #70 to be productive
- #92 to lift up or carry
- #110 a hard task

a game (5): 4.38%

- #17 a family game involving dice
- #18 a clown's prop, general term for a whimsical object
- #54 a game involving coordination and chance, like twister
- #57 a children's game
- #91 a board game involving chance

disease (2): 1.75%

- #22 a medicine like Pepto Bismol
- #26 a newly described lung disease found in people who live on a dirt road

a rock (2): 1.75%

- #73 a type of rock, small and smooth
- #109 a rock found in Arizona, can be red or orange and prone to breaking apart

a spiky plant (2): 1.75%

- #15 a large desert plant with thick branches and spines
- #113 a small, spiky weed

livestock (2): 1.75%

- #45 an ox-driven plow
- #65 reminiscent of a rodeo

definitions not conforming to a category (11): 9.64%

- #25 to draw or sketch
- #30 something that hasn't been done
- #31 a mechanical device like a clamp
- #51 to run over something in the road
- #72 a portable display used in the stock market which shows the quotes
- #75 to be confused
- #78 light (opposite of darkness)
- #80 the part of the chair that supports the arm
- #81 to burn
- #94 nonsense
- #114 something thrown

Definition Groupings Data Sheet

Words Requiring Definitions

Question ID: Q. whoagsafflerick [wɒˈg · 'zæ · fəl · ɪk]

generally negative (26): 22.60%

- #6 a short, ugly dwarf
- #16 stupidity, arrogance, obnoxiousness
- #20 folly
- #28 to exaggerate about something, to stretch the truth
- #29 weeds
- #32 a really mad person
- #33 someone who commits a serious crime
- #34 a xenophobic feeling
- #35 an ill-tempered person
- #46 some kind of trouble or misfortune
- #52 the action of carjacking
- #58 a torture chamber
- #74 a big, furry, wild, dangerous animal
- #76 hard, manual labor
- #82 a large, evil monster
- #87 a side effect from a drug
- #88 describing an overdressed man
- #91 ridiculous
- #93 something that causes pain
- #94 something crazy
- #97 somebody down on their luck or depressed
- #105 scratchy
- #106 reminiscent of characters like Don Quixote
- #111 a disease affecting the whole body
- #112 sadness
- #113 a booby prize

emotion (18): 15.65%

- #15 describes a person who has gone through an experience that gave them both sadness and happiness at the same time
- #16 stupidity, arrogance, obnoxiousness
- #18 to be astonished
- #20 folly
- #28 to exaggerate about something, to stretch the truth
- #34 a xenophobic feeling
- #35 an ill-tempered person
- #38 a happy reaction
- #50 aggressive
- #51 to be lazy on the sofa
- #59 something fantastic or amazing
- #60 terrific
- #75 a rave
- #78 fun
- #97 somebody down on their luck or depressed
- #112 sadness
- #115 kind or concerned
- #116 a cry of exasperation or excitement

a tool or machine (17): 14.78%

- #3 relating to a pulley mechanism, an archaic means of hoisting something
- #7 a complex machine used for moving things
- #12 a huge, Viking battleaxe
- #13 a time machine
- #17 a rusted, long sword
- #36 an instrument that makes a deep sound, like a brass instrument
- #40 an organizational tool, like a syllabus
- #42 motor oil or engine coolant
- #49 a long sword
- #56 a system of pulleys
- #61 a machine to help you do your hair

- #79 a cleat on a wooden boat
- #80 an inky part of the printing press
- #84 a ski lift
- #98 a steering implement for a boat or maybe an amphibious vehicle
- #100 an off-road vehicle like the ones used in African safaris
- #104 a computer

pertaining to water (14): 12.17%

- #5 log riding
- #9 a ship made of toilet paper
- #17 a rusted, long sword
- #24 a tropical island
- #31 a water dam
- #47 a barge
- #54 a duck habitat
- #63 a raft
- #69 a color like dark blue
- #71 a steamboat
- #79 a cleat on a wooden boat
- #83 a fishing boat
- #96 a type of canoe
- #98 a steering implement for a boat or maybe an amphibious vehicle

an animal (12): 10.43%

- #2 a type of squirrel
- #10 a barking animal
- #21 a small animal, like a squirrel
- #25 reminiscent of a wolf
- #27 an animal in the Zebra family
- #43 a wild canine
- #54 a duck habitat
- #55 a small fly
- #62 a small insect
- #74 a big, furry, wild, dangerous animal
- #103 a prehistoric lobster
- #109 a legendary wolf that walks on two legs

furry or fuzzy (10): 8.69%

- #2 a type of squirrel
- #4 furry or fuzzy
- #10 a barking animal
- #14 something wooly or furry
- #21 a small animal, like a squirrel
- #25 reminiscent of a wolf
- #43 a wild canine
- #73 soft material, like cashmere
- #74 a big, furry, wild, dangerous animal
- #109 a legendary wolf that walks on two legs

a spectacle or entertainment (7): 6.08%

- #8 something amazing
- #11 a puppet from a kid's show
- #70 something amazing
- #77 the art of having crumbs fall from the mouth to the beard forming little artistic symbols
- #85 magic
- #92 to ponder
- #107 an exceptional piano player

a textile or garment (6): 5.21%

- #23 a judge's robe
- #30 a type of natural material for a garment
- #39 to sew clothes
- #65 pertaining to knitting
- #66 something woven
- #67 a quilt

texture (5): 4.34%

- #4 furry or fuzzy
- #14 something wooly or furry
- #73 soft material, like cashmere
- #90 a blanket used by people in cold places
- #105 scratchy

crazy (4): 3.47%

- #20 folly
- #91 ridiculous
- #94 something crazy
- #106 reminiscent of characters like Don Quixote

a machine for moving things (3): 2.60%

- #3 relating to a pulley mechanism, an archaic mans of hoisting something
- #7 a complex machine used for moving things
- #56 a system of pulleys
- *rig

fear (3): 2.60%

- #34 a xenophobic feeling
- #37 to hide
- #114 a writer of horror novels

a wolf (3): 2.60%

- #25 reminiscent of a wolf
- #43 a wild canine
- #109 a legendary wolf that walks on two legs

a squirrel (2): 1.73%

- #2 a type of squirrel
- #21 a small animal, like a squirrel

numbers or math (2): 1.73%

- #41 a book having to with numbers, like an accounting book
- #57 a profession which requires math and science skills

definitions not conforming to a category (19): 16.52%

- #1 a forest where the plants are red
- #22 a plant like a fern
- #26 a Himalayan mountain camp
- #44 a nomad
- #45 a castle
- #48 to stop something from happening
- #53 to fertilize using organic material
- #64 awake
- #68 a way of saying "see you later"
- #72 a building whose top is pentagonal, the columns are square and the structure is open like the Parthenon
- #81 flat
- #86 a flight attendant
- #89 a snack
- #95 to watch a movie
- #99 a traveler
- #101 a head covering, like a hat or toupee
- #102 a support structure inside a building, like a stud
- #108 a cleansing
- #110 concerning air pressure as it might relate to a scientific experiment

Definition Groupings Data Sheet

Words Requiring Definitions

Question ID: R. tobecraydrub [tʰoʷ · bə · 'kɻeː · dʒəb]

massive, oversized or relatively large (22): 19.13%

- #8 a big, heavy piece of furniture, like a dresser
- #9 a candy bar with 1000 different flavors
- #15 a type of earthworm that lives in a colony that could cause problems if they are too numerous
- #24 a snow-covered, cold mountain
- #34 a gigantic, above-ground reservoir
- #38 a large piece of construction equipment, like a dump truck
- #55 a mountainous place, like Nepal
- #56 a large, plastic, box-shaped container
- #60 a big, multi-purpose tub
- #62 a large enclosed object
- #63 a big rock, like a boulder
- #69 a musical instrument, like the tuba
- #78 fat, gigantic
- #79 two astral bodies colliding
- #82 a giant mushroom
- #85 a fictitious animal that is large, nocturnal, and winged
- #93 large rocks, like mountains
- #95 to break a chair
- #98 a volcanic formation, different from a crater or a caldera
- #105 the feeling from looking at a mountain range from the sky
- #106 a large, flowering bush
- #109 a Caribbean fruit, peach colored, round and the size of a cantaloupe

cold, dark or hard (18): 15.65%

- #5 spelunking
- #24 a snow-covered, cold mountain
- #31 a snow sled
- #34 a gigantic, above-ground reservoir
- #38 a large piece of construction equipment, like a dump truck
- #52 a boxy, older kind of car
- #55 a mountainous place, like Nepal
- #58 an above-ground cave
- #60 a big, multi-purpose tub
- #63 a big rock, like a boulder
- #66 reminiscent of a cave
- #79 two astral bodies colliding
- #93 large rocks, like mountains
- #98 a volcanic formation, different from a crater or a caldera
- #99 a temple
- #105 the feeling from looking at a mountain range from the sky
- #111 a dull color, like a flat grey or silver
- #113 a layer of rock that geologists would study

impeded movement, confinement or slow (17): 14.78%

- #13 a turtle
- #33 a slothful creature of the forest
- #38 a large piece of construction equipment, like a dump truck
- #40 a sitting object, like a vase, used for aesthetic purposes
- #45 to release something
- #46 an ice cream topping, like syrup
- #48 a sedentary person who eats just to eat
- #49 a catatonic condition
- #55 a mountainous place, like Nepal
- #56 a large, plastic, box-shaped container
- #62 a large enclosed object
- #75 jumping in place
- #77 the level ice filters reach when they need to be replaced
- #79 two astral bodies colliding

- #94 a feeling of frustration
- #115 a special room in a house for relaxation
- #116 a compartment for holding birds

food (11): 9.56%

- #2 a mushy, bitter, African dish with rice
- #6 a food like a pita with a spicy filling
- #9 a candy bar with 1000 different flavors
- #12 a type of spicy food from the Pacific eaten with fingers
- #26 a type of leafy, oriental vegetable
- #27 a type of East Indian Food
- #46 an Ice Cream topping, like syrup
- #48 a sedentary person who eats just to eat
- #51 to snack
- #82 a giant mushroom
- #109 a Caribbean fruit, peach colored, round, and the size of a cantaloupe

storage (11): 9.56%

- #11 a bathroom towel hanger
- #34 a gigantic, above-ground reservoir
- #56 a large, plastic, box-shaped container
- #60 a big, multi-purpose tub
- #61 a new backpack that floats behind you
- #62 a large enclosed object
- #71 a closet
- #83 a box to store something in
- #100 a small Tupperware set
- #107 like a backpack or a harness, something to be carried on your person
- #116 a compartment for holding birds

plants (8): 9.56%

- #17 a pink & purple plant with circular leaves
- #18 a tall plant with a purple flower
- #42 an exotic type of tree, thin, short with unique leaves
- #80 a suspended flower pot
- #86 a medium sized, seasonal tree
- #97 an arrangement of leaves on a plant
- #101 a yellow weed flower, like a dandelion
- #106 a large, flowering bush

mountains (8): 9.56%

- #24 a snow-covered, cold mountain
- #55 a mountainous place, like Nepal
- #63 a big rock, like a boulder
- #76 a dip in the landscape
- #93 large rocks, like mountains
- #105 the feeling from looking at a mountain range from the sky
- #112 a mineral ore that is grey or silver
- #113 a layer of rock that geologists would study

an animal (7): 6.08%

- #1 an insect
- #13 a turtle
- #15 a type of earthworm that lives in a colony that could cause problems if they are too numerous
- #33 a slothful creature of the forest
- #35 an animal like a wolf
- #57 a small, wild animal, potentially dangerous, that some find cute
- #85 a fictitious animal that is large, nocturnal, and winged

disease or medicine (7): 6.08%

- #7 a liquid medicine
- #10 a type of pain medicine
- #22 a hypochondriac
- #36 a malignant growth, like on the skin
- #37 a disease like cancer
- #68 a type of cough syrup
- #89 medicine, like antibiotics

misfortune or evil (6): 5.21%

- #20 craven
- #25 something that is falling apart
- #59 something sad or melancholy
- #67 evil
- #73 something to be feared
- #110 a negative outcome, trouble

a (bar) fight (3): 2.60%

- #32 drunks at a bar
- #64 to hit
- #84 to give somebody a kick

a boat (3): 2.60%

- #3 a device for steering a boat
- #87 a tool for spraying on fiberglass, like on a boat
- #96 a strong rope

a backpack (2): 1.73%

- #61 a new backpack that floats behind you
- #107 like a backpack or a harness, something to be carried on your person

jumping (2): 1.73%

- #75 jumping in place
- #104 to jump

ducks (2): 1.73%

- #53 a shallow body of water with lots of grass which provides shelter for ducks
- #70 to call a duck

cancer (2): 1.73%

- #36 a malignant growth, like on the skin
- #37 a disease like cancer

sports (2): 1.73%

- #14 a game for several people involving a ball
- #16 a special victory in a sport, like baseball

a hammer (2): 1.73%

- #44 a tool, like a hammer
- #47 an artifact, like a hammer, from an Indian village

art (2): 1.73%

- #43 a classification of paintings
- #72 a type of putty used by a sculptor

definitions not conforming to a category (21): 18.26%

- #4 a leaky sink
- #21 descriptive of classical architecture
- #23 a stevedore
- #28 a mathematical equation
- #29 a religious denomination
- #30 a garment to protect against rain or snow
- #39 elaborate jewelry
- #41 an appliance for cleaning in the kitchen
- #50 stylish
- #54 a leader in an African country, like a president
- #65 reminiscent of hobbits because they're short
- #74 a recliner with a footrest
- #81 to sink
- #88 yellow soap scum
- #90 a type of doily made of leaves and straw
- #91 a shape with even sides, not circular
- #92 to think
- #102 an antique wooden writing desk
- #103 a new source of renewable energy from cow methane
- #108 a positive description
- #114 someone who doesn't take something seriously

APPENDIX D

COMPLETE SEGMENTAL AND SUPRA-SEGMENTAL PROFILE DATA SHEETS

Segments

Segment Total for Stressed and Unstressed Syllables and Monosyllables according to Syllable Configuration

Monosyllable Onset: p, #p^h(2), #b, #m, m, #f(3), #t^h, #d(3), #n, n, r, Ø, #s(5), #f, #ɹ, ɹ(9), l(4), j, k(2), #k^h, #g(5)

Monosyllable Nucleus: iⁱ(2), u, u^w(2), ε(3), ʌ(8), ɔⁱ, æ(2), æⁱ(2), a(5)

Monosyllable Coda: p#(3), b#, b, f#, t#(2), d#(2), tʃ#(4), dʒ#, s#, z#(2), ʃ#(2), ɹ#, t, k#(3), k, g#

First Syllable Segment Stressed Onset: #p, p, #p^h(2), #b(3), #b, m, #f(3), #v, #t^h(2), #d(3), #tʃ, #dʒ, #n(4), #s(6), #z, #f(3), ɹ(8), #l(4), l(5), #j, k(4), #k^h(5), #g(11), #w(8), #h

First Syllable Segment Stressed Nucleus: iⁱ, iⁱ(5), #i, #u, #u^w(2), u^w(3), ɪ(9), #ɪ, ʊ, o^w(2), ə(2), ε(4), ʌ(6), #ʌ, ɔ(2), #ɔ, æ(11), #æ, aⁱ(2), a(14), #a(2)

First Syllable Segment Stressed Coda: p(2), m(5), v, dʒ, n(3), s(3), ʃ, ɹ(2), t(3), k(9), ɡ, g, ɳ(2)

First Syllable Segment Unstressed Onset: #b, #f, #t^h, #s(3), #f, ɹ, #l, #j, k, #g, #h

First Syllable Segment Unstressed Nucleus: u^w(3), #ɪ, ə(6), #ε(3), æ, #a, a

First Syllable Segment Unstressed Coda: n(2), k(2), g, ɳ

Second Syllable Segment Stressed Onset: p^h, p, b(2), m, t(2), d, Ø, s(3) z, ʒ, l, w(2)

Second Syllable Segment Stressed Nucleus: u^w, ə, ε, ʌ(2), æ(3), æⁱ, a^w#, a, a(3)

Second Syllable Segment Stressed Coda: n#, ɹ(2), ɹ#, k#, ɳ

Second Syllable Segment Unstressed Onset: p(3), b(7), m(3), f(4), t(6), d(6), n(2), r(2), Ø(3), s(11), z(3), ʃ(3), ʒ, ɹ(7), l(5), j, k^h, k(4), g(5), w(4), h

Second Syllable Segment Unstressed Nucleus: iⁱ, iⁱ##(6), u^w#, ɪ(9), eⁱ#, o^w, o^w##(2), ə(16), ɹⁱ##(10), ɹⁱ(3), ɹ^h, ɹ^h##(2), ə(2), ə##(4), ɔ, æ, æ#, a#, a(10), a#

Second Syllable Segment Unstressed Coda: b#, b#(2), f#(2), t#, t#, tʃ#, dʒ#, n#(4), n, s#(2), z#, ʃ#, ɹ#(2), ɹ, t#, k#, g#

Third Syllable Segment Stressed Onset: b, t, s

Third Syllable Segment Stressed Nucleus: u^w#, æ

Third Syllable Segment Stressed Coda:

Third Syllable Segment Unstressed Onset: p, b, m, f, v, t(2), d, dʒ, n, s(4), z, ʃ(3), ɹ(5), l(8), j, k(3), h

Third Syllable Segment Unstressed Nucleus: iⁱ(2)#, u^w(2), u^w##(2), ɪ(3), o^w#, ə, ə##(4), ə(3), ɹⁱ##(2), ɹ^h, ɹ^h#, æ, aⁱ, a(4), a#

Third Syllable Segment Unstressed Coda: p#, m, f#, t#, d#, n#(2), n, s#(3), z#(2), ʃ#, k#, ɳ#

Fourth Syllable Segment Stressed Onset:

Fourth Syllable Segment Stressed Nucleus:

Fourth Syllable Segment Stressed Coda:

Fourth Syllable Segment Unstressed Onset: ʃ, ɹ, l

Fourth Syllable Segment Unstressed Nucleus: iⁱ, ə, o^w

Fourth Syllable Segment Unstressed Coda: p# s#

Fifth Syllable Segment Stressed Onset:

Fifth Syllable Segment Stressed Nucleus:

Fifth Syllable Segment Stressed Coda:

Fifth Syllable Segment Unstressed Onset:

Fifth Syllable Segment Unstressed Nucleus: o^w#

Fifth Syllable Segment Unstressed Coda:

Segment Total for Stressed and Unstressed Onsets and Codas

Stressed Onset: #p, p(2), p^h, #p^h(2), #b(3), b(3), #b, m(2), #f(3), #v, #t^h(2), t(3), #d(3), d, #tʃ, #dʒ, #n(4), Ø, #s(6), s(4), #z, z, #f(3), ʒ, ɹ(8), #l(4), l(6), #j, k(4), #k^h(5), #g(11), #w(8), w(2), #h

Stressed Coda: p(2), m(5), v, dʒ, n(3), n#, s(3), ʃ, ɹ(4), ɹ#, t(3), k(9), k#, ɡ, g, ɳ(3)

Unstressed Onset: p(4), #b, b(8), m(4), #f, f(5), v, #t^h, t(8), d(7), dʒ, n(3), r(2), Ø(3), #s(3), s(15), z(4), #ʃ, ʃ(7), ʒ, ɹ(14), #l, l(14), #j, j(2), k^h, k(8), #g, g(5), w(4), #h, h(2)

Unstressed Coda: p#, p̃#, b̃#, b#(2), m, f#(3), t̃#, t#(2), d#, tʃ#, dʒ#, n#(6), n(4), s#(6), z#(3), ʃ#(2), ɹ#(2), ɹ, t̃#, k(2), k#(2), g, g#, ɲ, ɲ#

Segment Total for Onsets and Codas

Onset: #p, p(7), p^h, #p^h(4), #b(5), b(11), #b, #m, m(7), #f(7), f(5), #v, v, #t^h(4), t(11), #d(6), d(8), #tʃ, #dʒ, dʒ, #n(5), n(4), r, r(2), θ(5), #s(14), s(19), #z, z(5), #ʃ(5), ʃ(7), ʒ, ʒ, #ɹ, ɹ(31), #l(5), l(24), #j(2), j(3), k(14), #k^h(6), k^h, #g(17), g(5), #w(8), w(6), #h(2), h(2)

Coda: p(2), p#(4), p̃#, b, b̃#, b#(3), m(6), f#(4), v, t̃#, t#(4), d#(3), ts#(2), tʃ#(5), dʒ, dʒ#(2), n#(7), n(7), s(3), s#(7), z#(5), ʃ, ʃ#(4), ɹ#(4), ɹ(5), t̃#, k(12), k#(6), ġ, g(2), g#(2), ɲ(4), ɲ#

Segment Total for Stressed and Unstressed Syllables and Monosyllables

Monosyllable Segment: p#(3), p, #p^h(2), #b, b#, b, #m, m, #f(3), f#, #t^h, t#(2), #d(3), d#(2), ts#(2), tʃ#(4), dʒ#, #n, n, r, θ, #s(5), s#, z#(2), #ʃ, ʃ#(2), #ɹ, ɹ(9), ɹ#, l(4), t, j, k(3), #k^h, k#(3), #g(5), g#

i^j(2), u, u^w(2), ε(3), ʌ(8), ɔ^j, æ^j(2), a(5)

First Syllable Segment Stressed: #p, p(3), #p^h(2), #b(3), #b, m(6), #f(3), #v, v, #t^h(2), #d(3), #tʃ, #dʒ, #n(4), n(3), #s(6), s(3), #z, #ʃ(3), ʃ, ɹ(10), #l(4), l(5), t̃(3), #j, k(13), #k^h(5), #g(11), ġ, g, ɲ(2), #w(8), #h

i^jː, i^j(5), #i^j, #ɪ, #u^w(2), u^w(3), ɪ(9), #ɪ, ʊ, o^w(2), ʌ(2), ε(4), ʌ(6), #ʌ, ɔ(2), #ɔ, æ(11), #æ, a^j(2), a(14), #a(2)

First Syllable Segment Unstressed: #b, #f, #t^h, n(2), #s(3), #ʃ, ɹ, #l, #j, k(3), #g, g, ɲ, #h

u^w(3), #ɪ, ə(6), #ε(3), æ, #a, a

Second Syllable Segment Stressed: p^h, p, b(2), m, t(2), d, n#, θ, s(3) z, ʒ, ɹ(2), ɹ#, l, k#, ɲ, w(2)

u^w, ʌ, ε, ʌ(2), æ(3), æ^j, a^w#, a, a(3)

Second Syllable Segment Unstressed: p(3), b(7), b̃#, b#(2), m(3), f(4), f#(2), t(6), t̃#, t#, d(6), tʃ#, dʒ#, n(3), n#(4), ʌ, ʌ#(2), r(2), θ(3), s(11), s#(2), z(3), z#, ʃ(3), ʃ#, ʒ, ɹ(8), ɹ#(2), l(5), t̃#, t̃#(10), t̃(3), j, k^h, k(4), k#, g(5), g#, w(4), h

i^j, i^j#(6), u^w#, ɪ(9), e^j#, o^w, o^w#(2), ə(16), ʌ(2), ʌ#(4), ɔ, æ, æ#, a#, a(10), a#

Third Syllable Segment Stressed: b, t, s

u^w#, æ

Third Syllable Segment Unstressed: p, p#, b, m(2), f, f#, v, t(2), t#, d, d#, dʒ, n(2), n#(2), ʌ, ʌ#, s(4), s#(3), z, z#(2), ʃ(3), ʃ#, ɹ(5), l(8), t̃#(2), j, k(3), k#, ɲ#, h

i^j(2)#, u^w(2), u^w#(2), ɪ(3), o^w#, ʌ, ə#(4), ə(3), æ, a^j, a(4), a#

Fourth Syllable Segment Stressed:

Fourth Syllable Segment Unstressed: p̃# s#, ʃ, ɹ, l

i^j, ə, o^w

Fifth Syllable Segment Stressed:

Fifth Syllable Segment Unstressed: o^w#

Segment Total by Syllable

First Syllable Segment: #p, p(3), #p^h(2), #b(4), #b, m(6), #f(4), #v, v, #t^h(3), #d(3), #tʃ, #dʒ, #n(4), n(5), #s(9), s(3), #z, #ʃ(4), ʃ, ɹ(11), #l(5), l(5), t̃(3), #j(2), k(16), #k^h(5), #g(12), ġ, g(2), ɲ(3), #w(8), #h(2)

i^jː, i^j(5), #i^j, #ɪ, #u^w(2), u^w(3), ɪ(9), #ɪ, ʊ, o^w(2), ʌ(2), ε(4), ʌ(6), #ʌ, ɔ(2), #ɔ, æ(11), #æ, a^j(2), a(14), #a(2)

Second Syllable Segment: p(4), p^h, b(9), b[#], b#(2), m(4), f(4), f#(2), t(8), t^h, t#, d(7), tʃ, dʒ, n(3), n#(5), ɳ, ɳ#(2), r(2), θ(4), s(14), s#(2), z(4), z#, ʃ(3), ʃ#, ʒ, ʒ, ʒ(10), ʒ#(3), l(6), tʃ, tʃ#(10), tʃ(3), j, k^h, k(4), k#(2), g(5), g#, ŋ, w(6), h

i^j, i^j#(6), u^w, u^w, ɪ(9), eⁱ, o^w, o^w#(2), ə(16), ə(3), ə#(4), ε, ʌ(2), ɔ, æ(4), æ#, æ^j, a#, a^w, a, a(13), a#

Third syllable Segment: p, p#, b(2), m(2), f, f#, v, t(3), t#, d, d#, dʒ, n(2), n#(2), ɳ, ɳ#, s(5), s#(3), z, z#(2), ʃ(3), ʃ#, ʒ(5), l(8), tʃ#(2), j, k(3), k#, ŋ#, h

i^j(2)#, u^w(2), u^w#(3), ɪ(3), o^w, ə, ə#(4), ə(3), æ(2), a^j, a(4), a#

Fourth Syllable Segment: p̃# s#, ʃ, ʒ, l

i^j, ə, o^w

Fifth Syllable Segment: o^w#

Segment Stressed and Unstressed Total

Stressed Segment: #p, p(4), #p^h(2), p^h, #b(4), b(3), m(7), #f(3), #v, v, #t^h(2), t(3), #d(3), d, #tʃ, #dʒ, #n(5), n(3), θ, #s(6), s(7), #z, z, #ʃ(3), ʃ, ʒ, ʒ(12), ʒ#, #l(4), l(6), tʃ(3), #j, k(13), k#, #k^h(5), #g(11), ġ, g, ŋ(3), #w(8), w(2), #h

i^jː, i^j(5), #i^j, #ɘ, #u^w(2), u^w(4), u^w, ɪ(9), #ɪ, ʊ, o^w(2), ə(3), ε(5), ʌ(8), #ʌ, ɔ(2), #ɔ, æ(15), #æ, æ^j, a^j(2), a^w, a, a(17), #a(2)

Unstressed Segment: p(4), p#, p̃#, b(8), b[#], b#(3), m(5), f(5), #f, f#(3), v, t(8), t^h, t#(2), #t^h, d(7), d#, tʃ#, dʒ, dʒ, n(7), n#(6), ɳ(2), ɳ#(3), r(2), θ(3), s(15), #s(3), s#(6), z(4), z#(3), ʃ(7), #ʃ, ʃ#(2), ʒ, ʒ(15), ʒ#(2), l(14), #l, tʃ, tʃ#(12), tʃ(3), j(2), #j, k^h, k(10), k#(2), g(6), #g, g#, ŋ, ŋ#, w(4), h(2), #h

i^j(2), i^j#(8), u^w(2), u^w#(6), ɪ(12), #ɪ, eⁱ, o^w(2), o^w#(4), ə(26), ə#(4), ə(3), ə#(4), #ε(3), ɔ, æ(3), æ#, a#, #a, a^j, a(15), a#(2)

Segment Total (absolute)

Narrow: #p, p#(4), p̃#, p(9), #p^h(4), p^h, #b(5), b(12), b[#], b#(4), m(13), #m, f(5), #f(7), f#(4), #v, v(2), #t^h(4), t(11), t#(4), t^h, #d(6), d#(3), d(8), t̃s#(2), #tʃ, tʃ#(5), #dʒ, dʒ, dʒ#(2), #n(6), n#(6), n(11), ɳ(2), ɳ#(3), r, r(2), θ(5), #s(14), s(22), s#(7), #z, z(5), z#(5), #ʃ(5), ʃ(8), ʃ#(4), ʒ, ʒ, ʒ(36), ʒ#(3), #l(5), l(24), tʃ(4), tʃ, tʃ#(12), tʃ(3), #j(2), j(3), k(26), k^h(2), k#(6), #k^h(5), #g(17), ġ, g(7), g#(2), ŋ(4), ŋ#, #w(8), w(6), #h(2), h(2)

i^j#(8), i^j(9), i^jː, #i^j, #ɘ, u, u^w(8), #u^w(2), u^w#(7), ɪ(21), #ɪ(2), ʊ, eⁱ, o^w(4), o^w#(4), ə(26), ə#(4), ə(6), ə#(4), ε(8), #ε(3), ʌ(16), #ʌ, ɔ(3), ɔ^j, #ɔ, æ(20), #æ, #æ, æ^j(2), a#, #a, a^w, a^j(3), a, a(37), a#(2), #a(2)

Broad: p(20), b(22), m(14), f(16), v(3), t(20), d(17), t̃s(2), tʃ(6), dʒ(4), n(28), r, r(2), θ(5), s(43), z(11), ʃ(17), ʒ, ʒ, ʒ(39), l(25), tʃ(20), j(5), k(39), g(27), ŋ(5), w(14), h(4)

i(19), ɘ, u(18), ɪ(23), ʊ, e, o(8), ə(30), ə(10), ε(11), ʌ(17), ɔ(5), æ(24), a(7), a(41)

Supra-Segments: Consonant Clusters

Consonant Cluster Total for Stressed and Unstressed Syllables and Monosyllables according to Syllable Configuration

Monosyllable Consonant Cluster Onset (all entries are word initial): #p^hɪ, #br, #fɪ, #fl, #t^hɪ, #dɪ(2), #nj, #θɪ, #sn, #sm, #sk(2), #spl, #k^hɪ, #gl(3), #gɪ

Monosyllable Consonant Cluster Coda (all entries are word final): bʒ#, ntʃ#, nd#, ɹg#, ttʃ#, kt#

First Syllable Consonant Cluster Stressed Onset (all entries are word initial): #bl, #fɪ, #t^hɪ, #sk(4), #spɪ, #fm, #k^hɪ, #k^hɪ(2), #gl(3), #gɪ(3)

First Syllable Consonant Cluster Stressed Coda: ŋk, ks

First Syllable Consonant Cluster Unstressed Onset (all entries are word initial): #skɪ

First Syllable Consonant Cluster Unstressed Coda:

Second Syllable Consonant Cluster Stressed Onset: st, sw, sp, tʃʒ,

Second Syllable Consonant Cluster Stressed Coda: ŋk#

Second Syllable Consonant Cluster Unstressed Onset: pɪ, bɪ, θɪ, st(2), gɪ

Second Syllable Consonant Cluster Unstressed Coda: ɹt#, ʃz#,

Third Syllable Consonant Cluster Stressed Onset: st, sk

Third Syllable Consonant Cluster Stressed Coda:

Third Syllable Consonant Cluster Unstressed Onset: sp, st, ʃm, kʰɹ

Third Syllable Consonant Cluster Unstressed Coda: mpʃ, ɲsʃ, nzʃ

Fourth Syllable Consonant Cluster Stressed Onset:

Fourth Syllable Consonant Cluster Stressed Coda:

Fourth Syllable Consonant Cluster Unstressed Onset:

Fourth Syllable Consonant Cluster Unstressed Coda:

Fifth Syllable Consonant Cluster Stressed Onset:

Fifth Syllable Consonant Cluster Stressed Coda:

Fifth Syllable Consonant Cluster Unstressed Onset:

Fifth Syllable Consonant Cluster Unstressed Coda:

Consonant Cluster Total for Stressed and Unstressed Onsets and Codas

Stressed Onset: #bl, #fɹ, #tʰɹ, tʃ, #sk(4), sk, st(2), sw, sp, #spɹ, #ʃm, #kʰl, #kʰɹ(2), #gɹ(3), #gl(3)

Stressed Coda: ks, ɲk, ɲkʃ

Unstressed Onset: pɹ, bɹ, θɹ, st(3), sp, #skɹ, ʃm, kʰɹ, gɹ

Unstressed Coda: mpʃ, ɲsʃ, nzʃ, ɹtʃ, ʃzʃ

Consonant Cluster Total for Onsets and Codas

Onset: pɹ, #pʰɹ, bɹ, #br, #bl, #fɹ(2), #fl, #tʰɹ(2), tʃ, #dɹ(2), #ɲj, #θɹ, θɹ, #sn, #sm, #sk(6), sk, st(5), sw, sp(2), #spɹ, #spl, #skɹ, #ʃm, ʃm, #kʰl, #kʰɹ(3), kʰɹ, #gl(6), #gɹ(4), gɹ,

Coda: bzʃ, mpʃ, ɲsʃ, nzʃ, ntʃʃ, ndʃ, ɹgʃ, ɹtʃ, ʃzʃ, ʃtʃʃ, ktʃ, ks, ɲk, ɲkʃ

Consonant Cluster Total for Stressed and Unstressed Syllables and Monosyllables

Monosyllable Consonant Cluster: #pʰɹ, #br, bzʃ, #fɹ, #fl, #tʰɹ, #dɹ(2), #ɲj, ntʃʃ, ndʃ, #sn, #sm, #sk(2), #spl, #θɹ, ʃtʃʃ, ɹgʃ, #kʰɹ, ktʃ, #gl(3), #gɹ

First Syllable Consonant Cluster Stressed: #bl, #fɹ, #tʰɹ, #sk(4), #spɹ, #ʃm, #kʰl, #kʰɹ(2), ks, #gl(3), #gɹ(3), ɲk

First Syllable Consonant Cluster Unstressed: #skɹ

Second Syllable Consonant Cluster Stressed: st, sw, sp, tʃ, ɲkʃ

Second Syllable Consonant Cluster Unstressed: pɹ, bɹ, θɹ, st(2), ɹtʃ, ʃzʃ, gɹ

Third Syllable Consonant Cluster Stressed: st, sk

Third Syllable Consonant Cluster Unstressed: mpʃ, ɲsʃ, nzʃ, sp, st, ʃm, kʰɹ

Fourth Syllable Consonant Cluster Stressed:

Fourth Syllable Consonant Cluster Unstressed:

Fifth Syllable Consonant Cluster Stressed:

Fifth Syllable Consonant Cluster Unstressed:

Consonant Cluster Total per Syllable

First Syllable Consonant Cluster: #bl, #fɹ, #tʰɹ, #sk(4), #spɹ, #skɹ, #ʃm, #kʰl, #kʰɹ(2), ks, #gl(3), #gɹ(3), ɲk

Second Syllable Consonant Cluster: pɹ, bɹ, θɹ, st(3), sw, sp, tʃ, ɹtʃ, ʃzʃ, gɹ, ɲkʃ

Third Syllable Consonant Cluster: mpʃ, ɲsʃ, nzʃ, sp, st(2), sk, ʃm, kʰɹ

Fourth Syllable Consonant Cluster:

Fifth Syllable Consonant Cluster:

Consonant Cluster Stressed and Unstressed Total

Consonant Cluster Stressed: #bl, #fɹ, #tʰɹ, #sk(4), #spɹ, st(2), sw, sk, sp, #fm, tɕ, #kʰl, #kʰɹ(2), ks, #gl(3), #gɹ(3), ŋk, ŋk#

Consonant Cluster Unstressed: pɹ, bɹ, mp#, ɲs#, nz#, sp, st(3), #skɹ, ʊɹ, fm, ɹt#, ɹz#, kʰɹ, gɹ

Consonant Cluster Total (absolute)

Narrow: pɹ, #pʰɹ, #bl, bɹ, #br, bz#, mp#, #fɹ(2), #fl, #tʰɹ(2), #dɹ(2), #nj, ntʃ#, ɲs#, nz#, nd#, ʊɹ, #ʊɹ, #sm, #sn, sp(2), #spɹ, #spl, st(5), sw, sk, #sk(6), #skɹ, #fm, fm, tɕ, ɹt#, ɹg#, tʃ#, ɹz#, #kʰl, #kʰɹ(3), kʰɹ, ks, kt#, #gl(6), #gɹ(4), gɹ, ŋk, ŋk#

Broad: pɹ(2), bl, bɹ, br, bz, mp, fɹ(2), fl, tɹ(2), dɹ(2), nj, ntʃ, ns, nz, nd, ʊɹ, ʊɹ, sm, sn, sp(2), spɹ, spl, st(5), sw, sk(7), skɹ, fm(2), tɕ, ɹt, ɹg, tʃ, ɹz, kl, kɹ(4), ks, kt, gl(6), gɹ(5), ŋk(2)

Supra-Segments: Whole Syllables

Whole Syllable Total for Stressed and Unstressed Syllables and Monosyllables

Monosyllable Whole Syllable:

#pʰɹɪʲts#, #tʰɹɪʲts#,
#brup#, #skɹuʷtʃ#, #fuʷp#,
#flekt#, #dɹɛk#, #dɹɛb#,
#fɹɹs#, #dɹf#, #smɹtʃ#, #ʊɹɹdʒ#, #ɹɹf#, #kʰɹɹf#, #gɹɹntʃ#, #glɹtʃ#,
#fɹɹnd#,
#mæɹɹ#, #ɲjæk#, #skæɹɹz#, #snæbz#,
#pʰad#, #splɹɹg#, #glat#, #gak#, #glap#

First Syllable Whole Syllable Stressed (all entries are word initial):

#ɪɹ, #dɪɹ, #tʃɪɹ, #nɪɹ, #kʰɪɹ, #wiɹɹ,
#ɸ,
#uʷv, #uʷ, #skuʷ, #luʷ, #guʷ,
#ɪgɹ, #bɹɹk, #tʰɹ, #tʰɹɹ, #dʒɹ, #spɹɹŋ, #fɹɹ, #gɹɹɹ, #wɹk, #wɹɹ,
#wuɹ,
#pʰoʷp, #fɹoʷ,
#næɹ, #gæɹ,
#nɛs, #fmɛ, #lɛ, #gɹɛ,
#ɹn, #fɹm, #skɹ, #jɹk, #gɹŋk, #glɹ, #glɹm,
#ɹɹ, #fɹɹ, #wɹɹ,
#æ, #bæɹ, #dæɹ, #næ, #skæp, #læm, #læs, #kʰɹæɹ, #kʰɹæ, #gɹæ, #gæn, #hæɹ,
#paɹɹ, #zaɹɹ,
#aɹ, #ag, #pʰa, #bak, #van, #da, #skam, #sa, #faɹ, #kʰla, #kʰa, #ga, #glam, #wa, #wa, #waks

First Syllable Whole Syllable Unstressed (all entries are word initial):

#biɹ,
#luʷ, #juʷ, #guʷ,
#ɪŋ,
#bæ, #fæ, #sæn, #skɹæ, #sæ, #fæ,
#ɛ, #ɛg, #ɛk,
#tʰæn,
#ak,
#ha

Second Syllable Whole Syllable Stressed:

swuʷ,
pʰæɹ,
zɛɹ,
mɹ, dɹŋk#,
bæ(2), ʊæ, læɹɹ#,
tɕan#, waʷ#,
aɹ, spaɹ, sta

Second Syllable Whole Syllable Unstressed:

pɪɪ#, fɪɪ#, dɪɪ#, sɪɪ#, lɪɪ#, kʰɪɪ, ɡɪɪ#,
 ʃuʷ#,
 bɪɪ, blɪn#, mɪɪ#, nɪs#, sɪk#, sɪb#, sɪs#, ʃɪn#, ɡɪɪn#,
 neɪ#,
 ɔʷ, koʷ(2),
 pʰɪ#, pə, bʰɪ(3), bʰɪ, mʰn, mə, fʰɪ#, də, rə, ʊɪəbʰ#, ʊɪɪ#, sʰɪ(2), sə, stə#, stʰɪ#, zʰɪ, zʰɪ(2), ʃʰɪz#, ʒə, ɹə, ɹəf#, lə, kʰn#, kətʰ#, ɡə(3), wə,
 fə#, tʰədʒ#, də, rə#, stə#, wə#,
 ʃɪɪt#,
 ʊæ#, læn,
 ʒa#,
 baɪ#, ta, taf#, dag#, da#, dət#, san#, la#, wab#, watʃ#, haɪ#

Third Syllable Whole Syllable Stressed:

buʷ#,
 stæ

Third Syllable Whole Syllable Unstressed:

vɪɪ#, zɪɪ#,
 skjuʷ#, ʃmuʷz#, ʃuʷ#, luʷd#,
 ʃɪɪ#, lɪs#, lɪɪ#,
 loʷ#,
 tə#, dʰɪ#, stʰɪs#, sə, ʃʰɪ#, ɹə#, lə(2), ləs#, kʰɪ#, kʰɪəmp#,
 spə#,
 læk#,
 dʒaɪn#,
 baɪ#, nat#, ɹan#, ɹanz#, haf#

Fourth Syllable Whole Syllable Stressed:

Fourth Syllable Whole Syllable Unstressed:

ʃɪɪ,
 ɹəs#,
 loʷpʰ#

Fifth Syllable Whole Syllable Stressed:

Fifth Syllable Whole Syllable Unstressed:

oʷ#

Whole Syllable Total per Syllable

First Syllable Whole Syllable (all entries are word initial):

#ɪɪ, #bɪɪ, #dɪɪ, #tʃɪɪ, #nɪɪ, #kʰɪɪ, #wɪɪɪ,
 #ɒ,
 #uʷv, #uʷ, #skuʷ, #luʷ(2), #juʷ, #ɡuʷ(2),
 #ɪɪ, #ɪɡ, #blɪk, #tʰɪ, #tʰɪɪ, #dʒɪ, #spɪɪɪ, #ʃɪ, #ɡɪɪ, #wɪk, #wɪ,
 #wʊ,
 #pʰoʷp, #fɔʷ,
 #bə, #fə,
 #tʰæn,
 #sən, #skɪə, #sə, #ʃə,
 #nə, #ɡə,
 #ɛ, #ɛɡ, #ɛk, #nɛs, #ʃmɛ, #lɛ, #ɡɪɛ,
 #ʌn, #fʌm, #skʌ, #ʒʌk, #ɡʌɪk, #ɡlʌ, #ɡlʌm,
 #ɔɪ, #fɔɪ, #wɔɪ,
 #æ, #bæɪ, #dæk, #næ, #skæp, #læm, #læs, #kʰɪæk, #kʰɪæ, #ɡɪæ, #ɡæn, #hæk,
 #ak, #paɪ, #zaɪ,
 #aɪ, #ag, #pʰa, #bak, #van, #da, #skam, #sa, #ʃaɪ, #kʰla, #kʰa, #ga, #ɡlam, #wa, #wa, #waks, #ha

Second Syllable Whole Syllable:

pɪɪ#, fɪɪ#, dɪɪ#, sɪɪ#, lɪɪ#, kʰɪɪ, ɡɪɪ#,

swu^w, fu^w#,
 bɪ, blɪn#, mɪf#, nɪs#, sɪk#, sɪb#, sɪs#, fɪn#, ɡɪn#,
 neⁱ#,
 ɔ^w, ko^w##(2),
 pɔ^ɪ#, pə, bɔ^ɪ##(3), bɔ^ɪ, mən, mə, fɔ^ɪ#, də, rə, ʊləb^ɪ#, ʊɔ^ɪ#, sɔ^ɪ##(2), sə, stə#, stən#, zɔ^ɪ, zɔ^ɪ##(2), ʃɔ^ɪz#, ʒə, ɹə, ɹəf#, lə, kən#, kət^ɪ#, ɡə(3), wə,
 p^hə, fə#, t^hədz#, də, rə#, stə#, wə#,
 zɛ,
 mɹ, dɹŋk#,
 ɔɹt#,
 bæ(2), ʊæ, ʊæ#, læⁱɹ#, læn,
 tʃan#, ja#, wa^w#,
 aɪ, baɪ#, ta, taf#, dag#, da#, dat#, san#, spaɪ, sta, la#, wab#, watf#, haɪ#

Third Syllable Whole Syllable:

viⁱ#, ziⁱ#,
 bu^w#, skju^w#, ʃmu^wz#, fu^w#, lu^wd#,
 fɪf#, lɪs#, lɪŋ#,
 lo^w#,
 tə#, dɔ^ɪ#, stənɪs#, sə, ʃən#, ɹə#, lə##(2), ləs#, kɔ^ɪ#, k^hɹəmp#,
 spə#,
 stæ, læk#,
 dʒaⁱn#,
 bɹa#, nat#, ɹan#, ɹanz#, haf#

Fourth Syllable Whole Syllable:

ʃɪⁱ,
 ɹəs#,
 lo^wp^ɪ#

Fifth Syllable Whole Syllable:

o^w#

Whole Syllable Stressed and Unstressed Total

Whole Syllable Stressed:

#iⁱ, #diⁱ, #tʃɪⁱz, #niⁱ, #k^hɪⁱ, #wiⁱʃ,
 #ɒ,
 #u^wv, #u^w, bu^w#, #sku^w, swu^w, #lu^w, #gu^w,
 #ɪɡ, #bɪk, #t^hɪ, #t^hɹɪ, #dʒɪ, #spɹɪŋ, #ʃɪ, #ɡɹɪ, #wɪk, #wɪ,
 #wu,
 #p^ho^wp, #fɔ^ɪo^w,
 p^hə, #nə, #ɡə,
 #nɛs, zɛ, #fɹɛ, #lɛ, #ɡɹɛ,
 #ɹn, mɹ, #fɹm, dɹŋk#, #skɹ, #jɹk, #ɡɹŋk, #ɡɹl, #ɡɹlɹm,
 #ɔɹ, #fɔɹ, #wɔɹ,
 #æ, bæ(2), #bæɹ, #dæk, #næ, ʊæ, #skæp, stæ, #læm, #læs, læⁱɹ#, #k^hɹæ, #k^hɹæ, #ɡɹæ, #ɡæn, #hæk,
 #paⁱ, tʃan#, #zaⁱ, wa^w#,
 #aɪ, aɪ, #ag, #p^ha, #bak, #van, #da, #skam, spaɪ, #sa, sta, #faɪ, #k^hla, #k^ha, #ga, #ɡlɹm, #wa, #wa, #waks

Whole Syllable Unstressed:

pɹɪⁱ#, #biⁱ, fiⁱ#, viⁱ#, diⁱ#, siⁱ#, ziⁱ#, ʃɪⁱ, liⁱ#, k^hɪⁱ, ɡɪⁱ#,
 skju^w#, fu^w##(2), ʃmu^wz#, #lu^w, lu^wd#, #ju^w, #gu^w,
 #ɪŋ, bɪ, blɪn#, mɪf#, fɪf#, nɪs#, sɪk#, sɪb#, sɪs#, fɪn#, lɪs#, lɪŋ#, ɡɪn#,
 neⁱ#,
 o^w#, ɔ^w, lo^w#, lo^wp^ɪ#, ko^w##(2),
 pɔ^ɪ#, pə, #bə, bɔ^ɪ##(3), bɔ^ɪ, mən, mə, #fə, fɔ^ɪ#, tə#, dɔ^ɪ#, də, rə, ʊləb^ɪ#, ʊɔ^ɪ#, sɔ^ɪ##(2), #skɹə, #sə, sə(2), #sən, stə#, stən#, stənɪs#, zɔ^ɪ, zɔ^ɪ##(2),
 #ʃə, ʃən#, ʃɔ^ɪz#, ʒə, ɹə, ɹəf#, ɹəs#, lə, lə##(2), ləs#, kən#, kət^ɪ#, kɔ^ɪ#, k^hɹəmp#, ɡə(3), wə,
 fə#, t^hədz#, də, rə#, spə, stə#, wə#,
 #ɛ, #ɛɡ, #ɛk,

fʊt#,
 #tʰæn, ʰæ#, læk#, læn,
 #ak, dʒaʰn#, ja#,
 baɪ#, bja#, ta, taf#, dag#, da#, daʔ#, nat#, san#, ɹan#, ɹanz#, la#, wab#, watʃ#, haɪ#, haf#, #ha

Whole Syllable Total (absolute)

Narrow:

#iʲ, pɹiʲ#, #pʰɹiʲts#, #biʲ, fiʲ#, viʲ#, #tʰɹiʲts#, diʲ#, #diʲ, #tʃiʲ:, #niʲ, siʲ#, ziʲ#, ʃiʲ, liʲ#, kʰiʲ, #kʰiʲ, giʲ#, #wiʲʃ,
 #ɸ,
 #uʷv, #uʷ, buʷ#, #brup#, #skɹuʷtʃ#, skɹuʷ#, #skuʷ, swuʷ, ʃuʷ#(2), ʃmuʷz#, #ʃuʷp#, #luʷ(2), luʷd#, #juʷ, #guʷ(2),
 #ɪŋ, #ɪɡ, bɹɪ, blɪn#, #blɪk, mɪʃ#, fɪʃ#, #tʰɪ, #tʰɪɹ, #dʒɪ, nɪs#, sɪk#, sɪb#, sɪs#, #spɹɪŋ, ʃɪn#, #ʃɪ, lɪs#, lɪŋ#, ɡɹɪn#, #ɡɹɪ, #wɪk, #wɪ,
 #wʊ,
 neʲ#,
 oʷ#, #pʰoʷp, #fɹoʷ, ɹoʷ, loʷ#, loʷpʰ#, koʷ#(2),
 pʰʲ, pə, #bə, bəʔ#(3), bəʔ, mən, mə, #fə, fəʔ#, tə#, dəʔ#, də, rə, ʊɹəbʰ#, ʊəʔ#, səʔ#(2), #skɹə, #sə, sə(2), #sən, stə#, stən#, stəns#, zəʔ, zəʔ#(2),
 #ʃə, ʃən#, ʃəʔz#, zə, ɹə, ɹəʔ#, ɹəs#, lə, lə#(2), ləs#, kən#, kətʰ#, kəʔ#, kʰɹəmp#, ɡə(3), wə,
 pʰə, fə#, tʰəʔz#, də, #nə, rə#, spə, stə#, #ɡə, wə#,
 #ɛ, #ɛɡ, #ɛk, #flɛkt#, #dɹɛk#, #dɹɛb#, #nɛs, zɛ, #ʃmɛ, #lɛ, #ɡɹɛ,
 #ʌn, mʌ, #fʌm, #fʌs#, dʌŋk#, #dʌʃ#, #skʌ, #smʌtʃ#, #ʊɹʌʔz#, #ɹʌʃ#, #jʌk, #kʰɹʌʃ#, #ɡʌŋk, #ɡɹʌ, #ɡɹʌm, #ɡɹʌntʃ#, #ɡɹʌtʃ#,
 #ɔʔ, #fɔʔ, fʊt#, #fɔʔnd#, #wɔ,
 #æ, bæ(2), #bæʔ, #mæʲɹ#, #dæk, #tʰæn, #næ, #njæk#, ʊæ, ʊæ#, #skæp, stæ, #skæʲz#, #snæbz#, #læm, #læs, læʲɹ#, læk#, læn, #kʰɹæk,
 #kʰɹæ, #ɡɹæ, #ɡæn, #hæk,
 #ak, #paʲ, tʃan#, dʒaʰn#, #zaʲ, ja#, waʷ#,
 #aɪ, aɪ, #ag, #pʰa, #pʰad#, #bak, baɪ#, bja#, #van, ta, taf#, #da, dag#, da#, daʔ#, nat#, san#, #skam, spaɪ, #sa, sta, #splʌɪɡ#, #ʃaɪ,
 ɹan#, ɹanz#, la#, #kʰɹa, #kʰa, #ga, #ɡɹʌm, #ɡɹʌt#, #ɡak#, #ɡɹʌp#, #wa(2), #waks, wab#, watʃ#, haɪ#, haf#, #ha

Broad:

i, pɹɪ, pɹɪts, bi, fi, vi, tɹɪts, di(2), tʃɪ, ni, si, zi, ʃɪ, li, ki(2), gi, wɪʃ,
 ɸ,
 uv, u, bu, brup, skɹʊtʃ, skɹu, sku, swu, ʃu(2), ʃmuz, ʃup, lu(2), lud, ju, gu(2),
 ɪŋ, ɪɡ, bɹɪ, blɪn, blɪk, mɪʃ, fɪʃ, tɪ, tɹɪ, dʒɪ, nɪs, sɪk, sɪb, sɪs, spɹɪŋ, ʃɪn, ʃɪ, lɪs, lɪŋ, ɡɹɪn, ɡɹɪ, wɪk, wɪ,
 wʊ,
 ne,
 o, pop, fɹo, ɹo, lo, lop, ko(2),
 pʰʲ, pə, bə, bəʔ(4), mən, mə, fə, fəʔ, tə, dəʔ#, də, rə, ʊɹəb, ʊəʔ, səʔ(2), skɹə, sə(3), sən, stə, stən, stəns, zəʔ(3), ʃə, ʃən, ʃəʔz, zə, ɹə(2), ɹəʔ, ɹəs, lə(3),
 ləs, kən, kət, kəʔ, kʰəmp, ɡə(3), wə,
 pə, fə, təʔz, də, nə, rə, spə, stə, ɡə, wə,
 ɛ, ɛɡ, ɛk, flɛkt, dɹɛk, dɹɛb, nɛs, zɛ, ʃmɛ, lɛ, ɡɹɛ,
 ʌn, mʌ, fʌm, fʌs, dʌŋk, dʌʃ, skʌ, smʌtʃ, ʊɹʌʔz, ɹʌʃ, jʌk, kɹʌʃ, ɡʌŋk, ɡɹʌ, ɡɹʌm, ɡɹʌntʃ, ɡɹʌtʃ,
 ɔʔ, fɔʔ, fʊt, fɔnd, wɔ,
 æ, bæ(2), bæʔ, mæɹ, dæk, tæn, nə, njæk, ʊæ(2), skæp, stæ, skæz, snæbz, læm, læs, læɹ, læk, læn, kɹæk, kɹæ, ɡɹæ, ɡæn, hæk,
 ak, pa, tʃan, dʒan, za, ja, wa,
 aɪ(2), ag, pa, pad, bak, baɪ, bja, van, ta, taf, da(2), dag, daʔ, nat, san, skam, spaɪ, sa, sta, splʌɪɡ, ʃaɪ, ɹan, ɹanz, la, kla, ka, ga, glam,
 glat, gak, glap, wa, wa, waks, wab, watʃ, haɪ, haf, ha

Supra-Segments: Whole Words

Whole Word Total per Word Length

Whole Monosyllables:

treats [tʰɹiʲts], nyak [njæk], skrooch [skɹuʷtʃ], broop [brup], ruff [ɹʌʃ], mair [mæʲɹ], glaht [ɡɹʌt], grunch [ɡɹʌntʃ], smuch [smʌtʃ], drek [dɹɛk],
 fruss [fɹʌs], gahk [ɡak], krush [kʰɹʌʃ], glahp [ɡɹʌp], thrudge [ʊɹʌʔz], skaz [skæʲz], pahd [pʰad], shoop [ʃuʷp], preets [pʰɹiʲts], glulch [ɡɹʌʔʃ],
 dreb [dɹɛb], snabz [snæbz], dush [dʌʃ], flehkt [flɛkt], splahrg [splʌɪɡ], foind [fɔʔnd]

Whole Bisyllables:

WIKsul ['wɪk · sʰʲ], KHAbul ['kʰa · bʰʲ], LOObul ['luʷ · bʰʲ], BOKshoo ['bak · ʃuʷ], PIEyah ['paʲ · ja], BLIKsee ['blɪk · siʲ], GLUHMpul ['ɡɹʌm · pʰʲ],
 NESTahf ['nɛs · taf], SKAHMful ['skam · fʰʲ], WUHgee ['wʊ · ɡɹɪ], NURdee ['nʌ · diʲ], SKOObul ['skuʷ · bʰʲ], FOLkuhn ['fɔʔ · kən],

GANgrin ['gæn·gɪn], TIHzul ['tʰɪ·zʰ], AHRhahr ['ɑ·hɑ], WIHzuhl ['wɪ·zʰ], TRIHkuht ['tʰɪ·kətʰ], NATuhr ['næ·rə], UNthrub ['ʌn·θɹəbʰ], Awur ['æ·wə], GRIHshuhlz ['gɪ·ʃʰz], GUNKsis ['gʌŋk·sɪs], GLAHMshin ['glam·ʃɪn], SHIHfur ['ʃɪ·fə], KRAstur ['kʰɹæ·stə], DAKsik ['dæk·sɪk], CHEEnis ['tʃiː·nɪs], HAKlee ['hæk·li], SKUHfee ['skʌ·fi], OOVlah ['uʷv·lɑ], WAHthul ['wə·θʰ], FUMBahr ['fʌm·bɑ], DAHsul ['dɑ·sʰ], GAHko ['ga·koʷ], LASpree ['læs·pɹi], AHKtlahn [ak·'tʃan], SAHruhf ['sɑ·rəf], GOOwabh ['guʷ·wab], OLMish ['ɔʰ·mɪʃ], GRASib ['gɹæ·sɪb], GLUHblin ['glʌ·blɪn], EEwatch ['iː·watʃ], SKAPtha ['skæp·θæ], SHARstuh ['ʃɑ·stə], WAHkoe ['wɑ·koʷ], WAHKsnay ['waks·neɪ], DEEturge ['diː·tʰəɖʒ], AHGdahg ['ag·dag], YUKstun ['jʌk·stʰŋ], WEESHdah ['wiʃ·dɑ], POAPdahl ['pʰoʷp·dɑʃ], LAMfort ['læm·fɔt], KRAKsahn ['kʰɹæk·san],

buhDUNK [bə·'dʌŋk], skruhWOW [skɹə·'waʷ], fuhLAIR [fə·'læɹ]

Whole Trisyllables:

inkeeshmooz [ɪŋ·kʰiː·ʃmuʷz],

FROMunjine ['froʷ·mʰŋ·ɖʒa'n], WAHduhlood ['wa·rə·luʷd], KLAHbulhahf ['kʰlɑ·bʰ·haf], SPRINGuhluh ['spɹɪŋ·gə·lə], SHMEguhluh ['ʃmɛ·gə·lə], POPuhluhs ['pʰɑ·pə·ləs], IGmuhloe ['ɪg̊·mə·loʷ], GURzhuhrhn ['gə·zə·ɹan], ZYlandul ['zaː·læn·dʰ], JIHbrihnaht ['ɖʒɪ·bɹɪ·nat], KEEruhshoo ['kʰiː·rə·ʃuʷ], OOWuhlak ['ʊ·wə·læk], OOGuhfish ['uʷ·gə·fɪʃ], LEHsuhkul ['lɛ·sə·kʰ], GREHluhsyou ['gɹɛ·lə·skjuʷ], VAHNdurleeng ['van·dæ·lɪŋ], NEEzulkrimp ['niː·zʰ·kʰɹəmp], BALduhrahnz ['bæʰ·də·ɹanz],

youMUHtuh [juʷ·'mʌ·tə], sunBALis [sən·'bæ·lɪs], gooSTAHbrah [guʷ·'sta·bɹɑ], shuhSWOOzee [ʃə·'swuʷ·zi], suhPURruh [sə·'pʰə·rə], egZEstunce [ɛg·'zɛ·stʰŋs], ekSPARshun [ɛk·'spɑɹ·ʃəŋ], beeARvee [biː·'ɑɹ·vi],

hahtahBOO [hɑ·tɑ·'buʷ]

Whole Tetrasyllables:

looBAspurus [luʷ·'bæ·spə·rəs], tanTHAsuhlope [tʰæn·'θæ·sə·loʷpʰ]

Whole Pentasyllables:

ehroSTAsheeo [ɛ·ɹoʷ·'stæ·ʃiː·oʷ]

Question ID: T. the grease that accumulates on top of a hot pizza

Segments

Segment Total for Stressed and Unstressed Syllables and Monosyllables according to Syllable Configuration

Monosyllable Onset: #p^h(2), #p, p(2), #b(2), m(2), #m, #n, #s(14), #z, ʃ, ʒ(2), #ʒ, l(14), #l(3), #j, #k^h, k, k^j, #g(2), wMonosyllable Nucleus: i^j(3), #i^j, u^w, ɪ(6), e^j(3), o^w, ə, ə[#], ε(2), ε^j, ɜ[#], ʌ(2), æ(4), æ^j, a, a^w, a(2)Monosyllable Coda: p, p[#], b[#], m[#](2), m(2), f[#](2), t[#](3), tʃ[#], n, s(2), s[#](2), z[#](3), ʃ[#](4), ʒ[#], ʒ(2), k[#](7), k^ʃ[#], g[#](2), ŋ**First Syllable Segment Stressed Onset:** #p^h(5), p(2), #b(3), m, #m, #f(2), t, #t^h, #d(3), #tʃ, #n(4), n, #s(17), #sɪ, ʒ(8), #ʒ(2), l(7), #l(2), j(2), k(3), #k^h(6), #g(8), w(3), #w(2), #h(3)**First Syllable Segment Stressed Nucleus:** i^j(4), #i^j, #u, u^w(8), #u, #u^w, u^w(2), ɪ(11), #ɪ, ʊ, e^j(3), #o^w, o^w, ε(3), ʌ(5), ɔ^j, æ(8), #æ, a, a^j(3), a(8), #a**First Syllable Segment Stressed Coda:** m(3), t, n(3), s(2), z, ʒ(2), ʃ(6), k(3)First Syllable Segment Unstressed Onset: b, #m, m, #f, #tʃ, #dʒ(2), #s(3), ʒ(2), #l, #k^h, #gFirst Syllable Segment Unstressed Nucleus: i^j, #u^w, ə(6), ε, æ(2), a(2)

First Syllable Segment Unstressed Coda: m, s, ʒ(2)

Second Syllable Segment Stressed Onset: b, m, d(2), n(2), s, l(4), k^h**Second Syllable Segment Stressed Nucleus:** i^j[#], u^w[#], u^w, e^j(2), ə, o^w, ε, ʌ, a^j, a**Second Syllable Segment Stressed Coda:** t, tʃ[#], s, ŋSecond Syllable Segment Unstressed Onset: p^h, p(2), b(2), m(3), f(7), v, t(6), d(2), dʒ(5), n(4), r(3), θ(2), s(6), z, ʒ(6), l(7), j(3), k(5), g(6), w(4), hSecond Syllable Segment Unstressed Nucleus: i^j[#](2), i^j(7), u^w[#](4), u^w(5), ɪ(4), e^j(2), o^w[#](2), o^w(2), ə(10), ə[#], ə[#](3), ə, ə^ʃ[#](11), ə^ʃ, ə^ŋ[#](2), ə^ŋ[#], ε, æ, a[#], a^j, a(8)Second Syllable Segment Unstressed Coda: f[#](2), t^ʃ[#], d[#](3), n[#](2), s[#](5), z[#], ʃ[#](2), k[#](2), x[#]**Third Syllable Segment Stressed Onset:** n, ʒ(2), k^h**Third Syllable Segment Stressed Nucleus:** u^w, a(3)**Third Syllable Segment Stressed Coda:** ʃ[#], k

Third Syllable Segment Unstressed Onset: b, f(4), t(3), n, s(2), ʒ(2), l(3), j(2), k(2), g(3), w

Third Syllable Segment Unstressed Nucleus: i^j[#], i^j(2), u^w, u^w[#], ɪ(4), e^j, o^w[#], ə(4), ə^ʃ[#], æ, a^j, a^j[#], a, a[#]Third Syllable Segment Unstressed Coda: t[#], d[#], n[#], s, s[#](4), ʒ[#], ʃ[#], k, k[#](2)**Fourth Syllable Segment Stressed Onset:****Fourth Syllable Segment Stressed Nucleus:****Fourth Syllable Segment Stressed Coda:**

Fourth Syllable Segment Unstressed Onset: f, d, r, ʃ, ʒ, l

Fourth Syllable Segment Unstressed Nucleus: i^j[#], e^j[#], o^w[#](2), ə[#], ə^ŋ[#]

Fourth Syllable Segment Unstressed Coda:

Fifth Syllable Segment Stressed Onset:**Fifth Syllable Segment Stressed Nucleus:****Fifth Syllable Segment Stressed Coda:**

Fifth Syllable Segment Unstressed Onset:

Fifth Syllable Segment Unstressed Nucleus:

Fifth Syllable Segment Unstressed Coda:

Segment Total for Stressed and Unstressed Onsets and Codas

Stressed Onset: #p^h(5), p(2), #b(3), b, m(2), #m, #f(2), t, #t^h, #d(3), d(2), #tʃ, #n(4), n(4), #s(17), #sɪ, s, ʒ(10), #ʒ(2), l(11), #l(2), j(2), k(3), #k^h(6), k^h(2), #g(8), w(3), #w(2), #h(3)**Stressed Coda:** m(3), t(2), tʃ[#], n(3), s(3), z, ʒ(2), ʃ(6), ʃ[#], k(4), ŋUnstressed Onset: p^h, p(2), b(4), #m, m(4), #f, f(12), v, t(9), d(3), #tʃ, #dʒ(2), dʒ(5), n(5), r(4), θ(2), #s(3), s(8), z, ʃ, ʒ(11), #l, l(11), j(5), #k^h, k(7), #g, g(9), w(5), h

Unstressed Coda: m, f#(2), t#, t^h#, d#(4), n#(3), s(2), s#(5), z#, ɹ(2), ɹ#, t#(3), k, k#(4), x#

Segment Total for Onsets and Codas

Onset: #p^h(7), #p, p^h, p(6), #b(5), b(5), m(8), #m(3), #f(3), f(12), v, t, #t^h, t(9), #d(3), d(5), #tʃ(2), #dʒ(2), dʒ(5), #n(5), n(9), r(4), θ(2), #s(34), #s:, s(9), #z, z, ʃ(2), ɹ(23), #ɹ(3), #l, l(36), #l(5), #j, j(7), k(11), #k^h(8), k^h(2), k^j, #g(11), g(9), w(9), #w(2), #h(3), h

Coda: p, p#, b#, m#(2), m(6), f#(4), t(2), t#(4), t^h#, d#(4), tʃ#(2), n(4), n#(3), s(7), s#(7), z, z#(4), ʃ#(4), ɹ#(2), ɹ(6), t(6), t#(4), k(5), k#(11), k^h#, g#(2), ɲ(2), x#

Segment Total for Stressed and Unstressed Syllables and Monosyllables

Monosyllable Segment: #p^h(2), #p, p(3), p#, #b(2), b#, m(4), #m, m#(2), f#(2), t#(3), tʃ#, #n, n, #s(14), s(2), s#(2), #z, z#(3), ʃ, ʃ#(4), ɹ(4), #ɹ, ɹ#, l(14), #l(3), #j, #k^h, k, k^j, k#(7), k^h#, #g(2), g#(2), ɲ, w

i^j(3), #i^j, u^w, ɪ(6), e^j(3), o^w, ə, ə#, ε(2), ε^j, ɜ#, ʌ(2), æ(4), æ^j, a, a^w, a(2)

First Syllable Segment Stressed: #p^h(5), p(2), #b(3), m(4), #m, #f(2), t(2), #t^h, #d(3), #tʃ, #n(4), n(4), #s(17), #s:, s(2), z, ɹ(10), #ɹ(2), l(7), #l(2), t(6), j(2), k(6), #k^h(6), #g(8), w(3), #w(2), #h(3)

i^j(4), #i^j, #ɹ, u^w(8), #u, #u^w, u^w(2), ɪ(11), #ɪ, ʊ, e^j(3), #o^w, o^w, ε(3), ʌ(5), ɔ^j, æ(8), #æ, a, a^j(3), a(8), #a

First Syllable Segment Unstressed: b, #m, m(2), #f, #tʃ, #dʒ(2), #s(3), s, ɹ(4), #l, #k^h, #g

i^j, #u^w, ə(6), ε, æ(2), a(2)

Second Syllable Segment Stressed: b, m, t, d(2), tʃ#, n(2), s(2), l(4), k^h, ɲ

i^j#, u^w#, u^w, e^j(2), o^w, ə, ε, ʌ, a^j, a

Second Syllable Segment Unstressed: p^h, p(2), b(2), əm#, m(3), f(7), f#(2), v, t(6), t^h#, d(2), d#(3), n(4), n#(2), əŋ#(2), dʒ(5), r(3), θ(2), s(6), s#(5), z, z#, ɹ(6), l(7), ɹ#(11), ɹ, t#(2), j(3), k(5), k#(2), g(6), x#, w(4), h

i^j#(2), i^j(7), u^w#(4), u^w(5), ɪ(4), e^j(2), o^w#(2), o^w(2), ə(10), ə#, ə#(3), ə, ε, æ, a#, a^j, a(8)

Third Syllable Segment Stressed: n, ɹ(2), t#, k, k^h

u^w, a(3)

Third Syllable Segment Unstressed: b, f(4), t(3), t#, d#, n, n#, s(3), s#(4), ɹ(2), ɹ#, l(3), ɹ#, t#, t#, j(2), g(3), k(3), k#(2), w

i^j#, i^j(2), u^w, u^w#, ɪ(4), e^j, o^w#, ə(4), æ, a^j, a^j#, a, a#

Fourth Syllable Segment Stressed:

Fourth Syllable Segment Unstressed: əm#f, d, r, ʃ, ɹ, l

i^j#, e^j#, o^w#(2), ə#

Fifth Syllable Segment Stressed:

Fifth Syllable Segment Unstressed:

Segment Total by Syllable

First Syllable Segment: #p^h(5), p(2), #b(3), b, m(6), #m(2), #f(3), t(2), #t^h, #d(3), #tʃ(2), #dʒ(2), #n(4), n(4), #s(20), #s:, s(3), z, ɹ(14), #ɹ(2), l(7), #l(3), t(6), j(2), k(6), #k^h(7), #g(9), w(3), #w(2), #h(3)

i^j(5), #i^j, #ɹ, u^w(8), #u, #u^w(2), u^w(2), ɪ(11), #ɪ, ʊ, e^j(3), #o^w, o^w, ə(6), ɔ^j, ε(4), ʌ(5), æ(10), #æ, a, a^j(3), a(10), #a

Second Syllable Segment: p^h, p(2), b(3), m(4), əm#, f(7), f#(2), v, t(6), t^h#, t, d(4), d#(3), tʃ#, dʒ(5), n(6), n#(2), əŋ#(2), r(3), θ(2), s(8), s#(5), z, z#, ɹ(6), l(11), ɹ#(11), ɹ, t#(2), j(3), k(5), k#(2), k^h, g(6), ɲ, x#, w(4), h

i^j#(3), i^j(7), u^w#(5), u^w(6), ɪ(4), e^j(4), o^w#(2), o^w(3), ə(10), ə#, ə#(3), ə(2), ε(2), ʌ, æ, a#, a^j(2), a(9)

Third syllable Segment: b, f(4), t(3), t#, d#, n(2), n#, s(3), s#(4), ɹ(4), ɹ#, l(3), ɬ#, t#(2), j(2), g(3), k(4), k^h, k#(2), w

i^j#, iⁱ(2), u^w(2), u^w#, i(4), eⁱ, o^w#, ə(4), æ, a^j, aⁱ#, a(4), a#

Fourth Syllable Segment: ʌm#, f, d, r, ʃ, ɹ, ɹ, l

i^j#, eⁱ#, o^w(2)#, ə#,

Fifth Syllable Segment:

Segment Stressed and Unstressed Total

Stressed Segment: #p^h(5), p(2), #b(3), b, m(5), #m, #f(2), t(3), #t^h, #d(3), d(2), #tʃ(2), #n(4), n(7), #s(17), #sɹ, s(4), z, ɹ(12), #ɹ(2), l(11), #l(2), t(6), t#, j(2), k(7), #k^h(6), k^h(2), #g(8), ŋ, w(3), #w(2), #h(3)

i^j(4), i^j#, #i^j, #ʌ, u^w(9), #u, #u^w, u^w(3), u^w#, i(11), #ɹ, ʌ, eⁱ(5), #o^w, o^w(2), ə, ε(4), ʌ(6), ɔ^j, æ(8), #æ, a, aⁱ(4), a(12), #a

Unstressed Segment: p^h, p(2), b(4), m(5), #m, ʌm#(2), f(12), #f, f#(2), v, t(9), t^h#, t#, d(3), d#(4), #tʃ, #dʒ(2), dʒ(5), n(5), ʌn#(2), n#(3), r(4), θ(2), s(10), s#(9), #s(3), z, z#, ʃ, ɹ(13), ɹ#, l(11), #l, ɬ#(12), ɬ, t#(3), j(2), k(8), k#(4), #k^h, g(9), #g x#, w(5), h

i^j#(4), iⁱ(10), u^w#(5), #u^w, u^w(6), i(8), eⁱ(3), eⁱ#, o^w#(5), o^w(2), ə(20), ə#(2), ə#(3), ə, ε(2), æ(4), a#, aⁱ(2), aⁱ#, a(11), a#

Segment Total (absolute)

Narrow: #p^h(7), p^h, #p, p(7), p#, #b(5), b#, b(5), m#(2), m(14), #m(3), ʌm#(2), #f(3), f#(4), f(12), v, t(12), t^h#, #t^h, t#(4), #d(3), d#(4), d(5), #tʃ(3), tʃ#, #dʒ(2), dʒ(5), #n(5), n(13), n#(3), ʌn#(2), r(4), θ(2), #s(34), #sɹ, s#(11), s(16), #z, z(2), z#(4), ʃ(2), ʃ#(4), ɹ(29), #ɹ(3), ɹ#(2), l(36), #l(6), ɬ#(12), ɬ, t(6), t#(4), #j, j(4), k(16), k#(11), k^h#, k^j, #k^h(8), k^h(2), g#(2), #g(11), g(9), ŋ(2), x#, w(9), #w(2), #h(3), h

i^j#(5), #i^j(2), iⁱ(17), #ʌ, #u, u^w#(6), #u^w(2), u^w(19), i(25), #ɹ, ʌ, eⁱ(11), eⁱ#, #o^w, o^w#(5), o^w(5), ə(20), ə#(2), ə#(4), ə(3), ε(8), ε^j, ʌ(8), ɔ^j, æ(16), æ^j, #æ, a#, a(2), aⁱ(6), aⁱ#, a^w, a(25), a#, #a

Broad: p(17), b(11), m(21), f(19), v, t(18), d(12), tʃ(4), dʒ(7), n(23), r(4), θ(2), s(62), z(7), ʃ(6), ɹ(34), l(42), t(23), j(5), k(39), g(22), ŋ(2), x, w(11), h(4)

i(24), ʌ, u(28), i(26), ʌ, e(12), o(11), ə(22), ə(7), ε(9), ʌ, ʌ(8), ɔ^j, æ(18), a(11), a(27)

Supra-Segments: Consonant Clusters

Consonant Cluster Total for Stressed and Unstressed Syllables and Monosyllables according to Syllable Configuration

Monosyllable Consonant Cluster Onset (all entries are word initial): #p^hɹ, #bl(2), #sl(8), #spl(2), #sml, #skɹ, #sk, #sm, #sn, #k^hw

Monosyllable Consonant Cluster Coda (all entries are word final): mps#, mp#, ns#, st#(2), ɹt#, ɹf#, ŋk#

First Syllable Consonant Cluster Stressed Onset (all entries are word initial): #p^hl(2), #p^hj, #bɹ, #bl, #mj, #fl(2), #sp(2), #st, #sl, #sk, #sw, #skw, #skɹ, #sm, #dɹ(2), #k^hɹ(2), #gɹ(2), #gw, #gl

First Syllable Consonant Cluster Stressed Coda: ks

First Syllable Consonant Cluster Unstressed Onset (all entries are word initial): #sm, #k^hɹ, #gɹ

First Syllable Consonant Cluster Unstressed Coda:

Second Syllable Consonant Cluster Stressed Onset: sm

Second Syllable Consonant Cluster Stressed Coda:

Second Syllable Consonant Cluster Unstressed Onset: fɹ, st(2), sk, k^hl, kɹ, gɹ, gl

Second Syllable Consonant Cluster Unstressed Coda:

Third Syllable Consonant Cluster Stressed Onset:

Third Syllable Consonant Cluster Stressed Coda:

Third Syllable Consonant Cluster Unstressed Onset: st(2), kl, gl, gɹ

Third Syllable Consonant Cluster Unstressed Coda: st#, ks#

Fourth Syllable Consonant Cluster Stressed Onset:

Fourth Syllable Consonant Cluster Stressed Coda:

Fourth Syllable Consonant Cluster Unstressed Onset: ʃl
Fourth Syllable Consonant Cluster Unstressed Coda:

Fifth Syllable Consonant Cluster Stressed Onset:
Fifth Syllable Consonant Cluster Stressed Coda:

Fifth Syllable Consonant Cluster Unstressed Onset:
Fifth Syllable Consonant Cluster Unstressed Coda:

Consonant Cluster Total for Stressed and Unstressed Onsets and Codas

Stressed Onset: #p^hl(2), #p^hj, #bɹ, #bl, #mj, #fl(2), #sp(2), #st, #sl, #sk, #sw, #skw, #skɹ, #sm, sm, #dɹ(2), #k^hɹ(2), #gɹ(2), #gw, #gl

Stressed Coda: ks

Unstressed Onset: fɹ, st(4), sk, #sm, ʃl, #k^hɹ, k^hl, kɹ, kl, #gɹ, gɹ(2), gl(2)

Unstressed Coda: st#, ks#

Consonant Cluster Total for Onsets and Codas

Onset: #p^hl(2), #p^hj, #p^hɹ, #bɹ, #bl(3), #mj, #fl(2), fɹ, #dɹ(2), #sp(2), #st, st(4), #sl(9), #sk(2), sk, #sw, #skw, #skɹ, #sm(3), sm, #sn, #spl(2), #sml, #skɹ, ʃl, #k^hɹ(3), #k^hw, k^hl, kɹ, kl, #gɹ(3), gɹ(2), #gw, #gl, gl(2)

Coda: mps#, mp#, ns#, st#(3), ɹt#, ɹf#, ks, ks#, gɹ, ɳk#

Consonant Cluster Total for Stressed and Unstressed Syllables and Monosyllables

Monosyllable Consonant Cluster: #p^hɹ, #bl(2), mps#, mp#, ns#, #sl(8), #spl(2), #sml, #skɹ, #sk, #sm, #sn, st#(2), ɹt#, ɹf#, #k^hw, ɳk#

First Syllable Consonant Cluster Stressed: #p^hl(2), #p^hj, #bɹ, #bl, #mj, #fl(2), #dɹ(2), #sp(2), #st, #sl, #sk, #sw, #skw, #skɹ, #sm, #k^hɹ(2), ks, #gɹ(2), #gw, #gl

First Syllable Consonant Cluster Unstressed: #sm, #k^hɹ, #gɹ

Second Syllable Consonant Cluster Stressed: sm

Second Syllable Consonant Cluster Unstressed: fɹ, st(2), sk, k^hl, kɹ, gɹ, gl

Third Syllable Consonant Cluster Stressed:

Third Syllable Consonant Cluster Unstressed: st(2), st#, kl, ks#, gl, gɹ

Fourth Syllable Consonant Cluster Stressed:

Fourth Syllable Consonant Cluster Unstressed: ʃl

Fifth Syllable Consonant Cluster Stressed:

Fifth Syllable Consonant Cluster Unstressed:

Consonant Cluster Total per Syllable

First Syllable Consonant Cluster: #p^hl(2), #p^hj, #bɹ, #bl, #mj, #fl(2), #dɹ(2), #sp(2), #st, #sl, #sk, #sw, #skw, #skɹ, #sm(2), #k^hɹ(3), ks, #gɹ(3), #gw, #gl

Second Syllable Consonant Cluster: fɹ, st(2), sk, sm, k^hl, kɹ, gɹ, gl

Third Syllable Consonant Cluster: st(2), st#, kl, ks#, gl, gɹ

Fourth Syllable Consonant Cluster: ʃl

Fifth Syllable Consonant Cluster:

Consonant Cluster Stressed and Unstressed Total

Consonant Cluster Stressed: #p^hl(2), #p^hj, #bɹ, #bl, #mj, #fl(2), #dɹ(2), #sp(2), #st, #sl, #sk, #sw, #skw, #skɹ, #sm, sm, #k^hɹ(2), ks, #gɹ(2), #gw, #gl

Consonant Cluster Unstressed: fɪ, st(4), st#, #sm, sk, fl, kʰl, kɪ, kl, #kʰɪ, ks#, gɪ(2), #gɪ, gl(2)

Consonant Cluster Total (absolute)

Narrow: #pʰl(2), #pʰj, #pʰɪ, #bɪ, #bl(3), #mj, mps#, mp#, #fl(2), fɪ, #dɪ(2), ns#, #sp(2), #st, st#(3), st(4), #sl(9), #spl(2), #sk(2), sk, #sw, #skw, #skɪ(2), #sm(3), sm, #sml, #sn, fl, ɪt#, ɪf#, #kʰɪ(3), kʰl, kl, #kʰw, ks, ks#, kɪ, #gɪ(3), gɪ(2), #gw, #gl, gl(2), ŋk#

Broad: pl(2), pj, pɪ, bɪ, bl(3), mj, mps, mp, fl(2), fɪ, dɪ(2), ns, sp(2), st(8), sl(9), spl(2), sk(2), sk, sw, skw, skɪ(2), sm(3), sm, sml, sn, fl, ɪt, ɪf, kɪ(3), kl(2), kw, ks(2), kɪ, gɪ(5), gw, gl(3), ŋk

Supra-Segments: Whole Syllables

Whole Syllable Total for Stressed and Unstressed Syllables and Monosyllables

Monosyllable Whole Syllable:

#iʰtʃ#, #pʰiːz#, #bliːk#, #niːz#,
#guʷf#,
#slɪz#, #slɪmps#, #zɪk#, #fɪmp#, #lɪns#, #jɪf#,
#pʰɪeːst#, #bleːk#, #spleːŋk#,
#moʷb#,
#sləːm#, #skʰəː#,
#slek#, #slɛf#, #smɛːɪt#,
#ɪɪz#,
#skɪɪm#, #slɪk#,
#smlæːɪ#, #slæf#, #splægʷ#, #læk#, #kʰwæg#,
#laʷst#, #paf#,
#slɪɪf#, #gak#

First Syllable Whole Syllable Stressed (all entries are word initial):

#iː, #tʃiː, #stiː, #sniːt, #kʰɪiː, #gliː, #hiː,
#ʊʷ,
#u, #uʷ, #pʰuʷ, #pʰjuʷ, #bluʷ, #mjuʷ, #duʷt, #sluʷ, #spʰuʷk, #suʷ, #guʷ, #guʷm,
#ɪz, #fli, #dɪɪ, #dɪɪt, #skwiːt, #sɪl, #sɪ, #swɪ, #ɪɪ, #kʰɪs, #gɪ,
#wuːt,
#pʰleː, #bleː, #heː,
#oʷ, #ɪoʷ,
#pʰɛk, #nɛ, #gɪɛ,
#bɪm, #sɪt, #skɪ, #skɪɪm, #kʰɪɪ,
#nɔː,
#æks, #pʰlæ, #flæ, #næn, #sæ(2), #sæn, #spæ,
#laː, #kʰa, #haː,
#na, #sːa, #sma, #la, #kʰa, #kʰaɪ, #gɪa, #ga, #gwaɪ, #wan

First Syllable Whole Syllable Unstressed (all entries are word initial):

#gɪiː,
#uʷ,
#bə, #dʒə, #sə(2), #smə, #kʰɪə,
#fɛs,
#tʃæ, #læm,
#tʰaː,
#a, #maɪ, #dʒaɪ

Second Syllable Whole Syllable Stressed: kʰiː#

duʷ, nuʷ#,
beː, leː,
loʷ,
sməːtʃ,
lɛs,
dɪŋ,
naːt#,

la

Second Syllable Whole Syllable Unstressed:

tiⁱ#, diⁱ, niⁱ, dʒiⁱ, dʒiⁱ#, siⁱ#, liⁱ, kʌiⁱs#, wiⁱ,
mu^w#, fju^w#, fu^w#, tu^w#, dʒu^w, ʊu^w#, lu^wf#, ju^w,
pɪd#, fɪt#, nɪf#, glɪn#,
teⁱ#, steⁱ,
vo^w#, do^w#, so^w, ho^w#,
p^hɪt#, bə#, mɪt#, fə, dʒəs#, dʒɪt#, nək#, rə, rɪt#(2), stə, zɪt#, ʊt#, ɪt#, ɪt#(2), jɪt#, kɪt#, kɪt#, gə, gɪt#, gɪt#m#, gɪt#, wəs#,
#bə, mə#, fə#(2), wə#,
nɛs#,
klæ,
paɪt^h#,
faɪt#, tad#, ska#, san#, ɹax#, la#, jaz#, gas#, wad#

Third Syllable Whole Syllable Stressed:

k^hu^wk,
na, ɹaɪt#, ɹa

Third Syllable Whole Syllable Unstressed:

fiⁱn#, niⁱ, giⁱ#,
gu^wk#, glu^w#,
fɪt#, stɪk#, ɹɪs#, wɪks#,
jeⁱ,
sto^w#,
əs#, ə#, tə, jəs#, kɪt#,
klæst#,
faɪd#, laɪ#,
ba#, faɪ#

Fourth Syllable Whole Syllable Stressed:

Fourth Syllable Whole Syllable Unstressed:

fiⁱ#,
deⁱ#,
flo^w#, ɹo^w#,
ɪt#,
rə#

Fifth Syllable Whole Syllable Stressed:

Fifth Syllable Whole Syllable Unstressed:

Whole Syllable Total per Syllable

First Syllable Whole Syllable (all entries are word initial):

#iⁱ, #tʃiⁱ, #stiⁱ, #sniⁱt, #k^hɪiⁱ, #gliⁱ, #giⁱ, #hiⁱ,
#ɒ^w,
#u, #u^w(2), #p^hu^w, #p^hju^w, #blu^w, #mju^w, #du^wt, #slu^w, #sp^hu^wk, #su^w, #gu^w, #gu^wm,
#ɪz, #fli, #dɹɪ, #dɹɪt, #skwi^t, #sɪl, #sɪ, #swɪ, #ɹɪ, #k^hɪs, #gɪ,
#wuɪ,
#p^hleⁱ, #bɹeⁱ, #heⁱ,
#o^w, #ɹo^w,
#bə, #dʒə, #sə(2), #smə, #k^hɪə,
#p^hɛk, #fɛs, #nɛ, #gɹɛ,
#bɹɪ, #sɹɪ, #skɹ, #skɹɹɪ, #k^hɪɹ,
#nɔɪ,
#æks, #p^hlæ, #flæ, #tʃæ, #næn, #sæ(2), #sæn, #spæ, #læm,
#t^hɪɪ, #lɪɪ, #k^hɪɪ, #hɪɪ,
#a, #maɪ, #dʒaɪ, #na, #s:a, #sma, #la, #k^ha, #k^hɪɪ, #gɪa, #ga, #gwaɪ, #wan

Second Syllable Whole Syllable:

tiʲ#, diʲ, niʲ, dʒiʲ, dʒiʲ#, siʲ#, liʲ, kʲiʲs#, kʲiʲ#, wiʲ,
muʷ#, fuʷ#, fuʷ#, tuʷ#, duʷ, dʒuʷ, nuʷ#, ʊuʷ#, luʷf#, juʷ,
pid#, fɪʃ#, nɪf#, glɪn#,
beʲ, teʲ#, steʲ, leʲ,
voʷ#, doʷ#, soʷ, loʷ, hoʷ#,
pʰɔʲ#, bə#, mɔʲ#, fə, dʒəs#, dʒəŋ#, nək#, rə, rɔʲ#(2), stə, zɔʲ#, ʊɔʲ#, ɹək#, lə(2), ɔʲ#(2), jɔʲ#, kʰəŋ#, kɔʲ#, gə, gɔʲ, gɹəŋ#, gɔʲ#, wəs#,
#bə, mə#, fə#(2), sməʃ, wə#,
nɛs#, lɛs,
dʌŋ,
klæ,
pɑʲtʰ#, naʲtʰ#,
fɑʲtʰ#, tad#, ska#, san#, ɹax#, la, la#, jaz#, gas#, wad#

Third Syllable Whole Syllable:

fiʲn#, niʲ, gɹiʲ#,
kʰuʷk, guʷk#, gluʷ#,
fɪʃ#, stɪk#, ɹɪs#, wɪks#,
jeʲ,
stoʷ#,
əs#, ə#, tə, jəs#, kɔʲ#,
klæstʰ#,
fɑʲdʰ#, laʲ#,
bɑ#, faɹ#, na, ɹɑʲ#, ɹɑ

Fourth Syllable Whole Syllable:

fiʲ#,
deʲ#,
floʷ#, ɹoʷ#,
ɹəŋ#,
rə#

Fifth Syllable Whole Syllable:

Whole Syllable Stressed and Unstressed Total

Whole Syllable Stressed:

#iʲ, #tʃiʲ, #stiʲ, #sniʲtʰ, #kʰɹiʲ, kʰiʲ#, #gliʲ, #hiʲ,
#uʷ,
#u, #uʷ, #pʰuʷ, #pʰjuʷ, #bluʷ, #mjuʷ, #duʷtʰ, duʷ, nuʷ#, #sluʷ, #spʰuʷk, #suʷ, kʰuʷk, #guʷ, #guʷm,
#ɪz, #fɪɹ, #dɹɪ, #dɹɪtʰ, #skwɪtʰ, #sɪɹ, #sɪ, #swɪ, #ɹɪ, #kʰɪs, #gɪ,
#wʊtʰ,
#pʰleʲ, #bɹeʲ, beʲ, leʲ, #heʲ,
#oʷ, #ɹoʷ, loʷ,
sməʃ,
#pʰɛk, #nɛ, lɛs, #gɹɛ,
#bʌm, dʌŋ, #sʌtʰ, #skʌ, #skʌɹm, #kʰɹʌ,
#nɔʲ,
#æks, #pʰlæ, #flæ, #næn, #sæ(2), #sæn, #spæ,
naʲtʰ#, #laʲ, #kʰa, #haʲ,
#na, na, #sɪa, #sma, ɹɑʲ#, ɹɑ, #la, la, #kʰa, #kʰaɹ, #gɹa, #ga, #gwaɹ, #wan

Whole Syllable Unstressed:

fiʲn#, fiʲ#, tiʲ#, diʲ, dʒiʲ, dʒiʲ#, niʲ(2), siʲ#, liʲ, kʲiʲs#, gɹiʲ#, #gɹiʲ, wiʲ,
#uʷ, muʷ#, fɹuʷ#, fuʷ#, tuʷ#, dʒuʷ, ʊuʷ#, luʷf#, juʷ, guʷk#, gluʷ#,
pid#, fɪʃ#(2), nɪf#, stɪk#, ɹɪs#, glɪn#, wɪks#,
teʲ#, deʲ#, steʲ, jeʲ,
voʷ#, doʷ#, soʷ, stoʷ#, floʷ#, ɹoʷ#, hoʷ#,
əs#, ə#, pʰɔʲ#, #bə, bə#, ɹəŋ#, mɔʲ#, fə, tə, dʒəs#, #dʒə, dʒəŋ#, nək#, rə, rɔʲ#(2), stə, #sə(2), #smə, zɔʲ#, ʊɔʲ#, ɹək#, lə(2), ɔʲ#(2), jɔʲ#, jəs#,

kəŋ#, kəŋ(2), #kʰɹə, gə, gə, gɹəŋ#, gəŋ#, wəs#,
 #bə, mə#, fə(2), rə#, wə#,
 #fəs, nəs#,
 #tʃæ, #læm, klæ, klæst#,
 pɑtʰ#, faɪd#, #tʰaɪ, ska#, laɪ#,
 #a, ba#, #maɪ, faɪ#, faɪ#, tad#, #dʒaɪ, san#, ɹax#, la#, jaz#, gas#, wad#

Whole Syllable Total (absolute)

Narrow:

#iɪ, #iɪtʃ#, #pʰɪz#, #bliɪk#, fiɪn#, fiɪ#, tiɪ#, diɪ, #tʃiɪ, dʒiɪ, dʒiɪ#, niɪ(2), #niɪz#, siɪ#, #stiɪ, #sniɪ, liɪ, kɪi's#, #kʰɪɪ, kʰiɪ#, #gliɪ, gɪiɪ#, #gɪiɪ, wiɪ,
 #hiɪ,
 #uʷ,
 #u, #uʷ(2), #pʰuʷ, #pʰjuʷ, #bluʷ, #mjuʷ, muʷ#, fuʷ#, fuʷ#, tuʷ#, #duʷt, duʷ, dʒuʷ, nuʷ#, ʊuʷ#, #sluʷ, #spʰuʷk, #suʷ, ɹuʷ#, luʷf#, juʷ, kʰuʷk,
 #guʷf#, guʷk#, #guʷ, #guʷm, gluʷ#,
 #ɪz, pɪd#, fiɪ(2), #fli, #dɹɪ, #dɹɪt, nɪf#, stɪk#, #skwɪt, #sɪl, #sɪ, #swɪ, #slɪz#, #slɪmps#, #zɪk#, #fɪmp#, ɹɪs#, #ɹɪ, #lɪns#, #jɪf#, #kʰɪs, #gɪ,
 glɪn#, wɪks#,
 #wʊt,
 #pʰleɪ, #pʰleɪst#, #bɹeɪ, beɪ, #bleɪk#, teɪ#, deɪ#, steɪ, #splɛŋk#, leɪ, jeɪ, #heɪ,
 #oʷ, #moʷb#, voʷ#, doʷ#, soʷ, stoʷ#, floʷ#, ɹoʷ#, #ɹoʷ, loʷ, hoʷ#,
 əs#, ə#, pʰəŋ#, #bə, bə#, əŋ#, məŋ#, fə, tə, dʒəs#, #dʒə, dʒəŋ#, nək#, rə, rəŋ(2), stə, #sə(2), #smə, zəŋ#, ʊəŋ#, lə(2), ɹəŋ(2), jəŋ#, jəs#,
 kəŋ#, kəŋ(2), #kʰɹə, gə, gə, gɹəŋ#, gəŋ#, wəs#,
 #bə, mə#, fə(2), rə#, smətf, #slə-m#, #skʰə#, wə#,
 #pʰɛk, #fəs, #nɛ, nɛs#, #slɛk#, #slɛf#, #smɛɪt#, lɛs, #gɹɛ,
 ɹɪɜ#,
 #bɹm, dɹŋ, #sɹt, #skɹ, #skɹɹm, #skɹɹm#, #slɹk#, #kʰɹɹ,
 #nɔɪ,
 #æks, #pʰlæ, #flæ, #tʃæ, #næn, #sæ(2), #sæn, #spæ, #smlæɪ#, #slæf#, #splæŋ#, #læk#, #læm, #kʰwæŋ#, klæ, klæst#,
 #paf#, pɑtʰ#, faɪd#, #tʰaɪ, naɪt#, ska#, #laɪ, laɪ#, #laʷst#, #kʰa, #haɪ,
 #a, ba#, #maɪ, faɪ#, faɪ#, tad#, #dʒaɪ, #na, na, #s:a, #sma, san#, #slaɪf#, ɹax#, ɹaɪ#, ɹa, #la, la, la#, jaz#, #kʰa, #kʰaɪ, #gɹa, #ga, #gwaɪ,
 gas#, #gak#, wad#, #wan

Broad:

i, itf, piz, blik, fin, fi, ti, di, tʃi, dʒi(2), ni(2), niz, si, sti, snɪt, li, kɹis, kɹi, ki#, gli, gɹi(2), wi, hi,
 ʊ,
 u(3), pu, pju, blu, mju, mu, fu, tu, duɪ, du, dʒu, nu#, ʊu, slu, spuk, su, ɹu, luf, ju, kuk, guf, guk, gu, gum, glu,
 ɪz, pɪd, fiɪ(2), fli, dɹɪ, dɹɪt, nɪf, stɪk, skwɪt, sɪl, sɪ, swɪ, slɪz, slɪmps, zɪk, fɪmp, ɹɪs, ɹɪ, lɪns, jɪf, kɪs, gɪ, glɪn, wɪks,
 wʊt,
 ple, pɹest, bɹe, be, blek, te, de, ste, splɛŋk, le, je, he,
 o, mob, vo, do, so, sto, flo, ɹo(2) lo, ho,
 əs, ə, pʰəŋ#, bə(2), əŋ, məŋ, fə, tə, dʒəs, dʒə, dʒəŋ, nək, rə, rəŋ(2), stə, sə(2), smə, zəŋ, ʊəŋ, lə(2), ɹəŋ(2), jəŋ, jəs, kəŋ, kəŋ(2), kɹə, gə, gə,
 gɹəŋ, gəŋ, wəs,
 bə, mə, fə(2) rə, smətf, slə-m, skə, wə,
 pɛk, fɛs, nɛ, nɛs, slɛk, slɛf, smɛɪt, lɛs, gɹɛ,
 ɹɪɜ,
 bɹm, dɹŋ, sɹt, skɹ, skɹɹm(2), slɹk, kɹɹ,
 nɔɪ,
 æks, plæ, flæ, tʃæ, næn, sæ(2), sæn, spæ, smlæɪ, slæf, splæŋ, læk, læm, kwæŋ, klæ, klæst,
 paf, pat, fad, ta, nat#, ska, la(2), last, ka, ha,
 a, ba, maɪ, faɪ, faɪ, tad, dʒaɪ, na(2), sa, sma, san, slaɪf, ɹax, ɹaɪ, ɹa, la(3), jaz, ka, kɹa, gɹa, ga, gwaɪ, gas, gak, wad, wan

Supra-Segments: Whole Words

Whole Word Total per Word Length

Whole Monosyllables:

bleek [bliɪk], prayst [pʰleɪst], rluh [ɹɪɜ], pahf [paf], slek [slɛk], splaynk [splɛŋk], slurm [slə-m], yish [jɪf] slesh [slɛf], zihk [zɪk], skrum [skɹɹm], lak [læk], slimps [slɪmps], neez [niɪz], blake [bleɪk], splag [splæŋ], kwag [kʰwæŋ], slash [slæf], slihz [slɪz], smlair

[smlæ^j], skyur [sk^jə], slahrɪ [slɑɪf], goosh [gu^wʃ], smairt [smɛ^jɪt], linse [lɪns], mowb [mo^wb], peez [p^hiːz], loust [la^wst], shimp [ʃɪmp], gahk [gɑk], sluk [slʌk], eech [iːtʃ]

Whole Bisyllables:

GRAHpul [ˈɡɹɑ·p^hʌʃ], NOYuhl [ˈnɔːj·ʌʃ], POOroo [ˈp^hu^w·ɹu^w], FLIHkuhl [ˈflɪ·kʌʃ], KAHskah [ˈk^ha·ska], PLAsce [ˈp^hlæ·siː], BUMfroo [ˈbʌm·fu^w], SPOOKnes [ˈsp^hu^w·k·nɛs], OOghas [ˈu·gas], STEEruk [ˈstiː·ɹək], PEHKmoo [ˈp^hɛk·mu^w], ROWjuhn [ˈɹo^w·dʒəŋ], FLAjee [ˈflæ·dʒiː], SWIHgul [ˈswɪ·gʌʃ], OOgruhm [ˈu^w·ɡɹəʃ], SOOwus [ˈsu^w·wəs], BRAYho [ˈbɹeː·ho^w], GIHmuhl [ˈɡɪ·mʌʃ], LAHtoo [ˈlɑ·tu^w], PLAYtul [ˈp^hleː·rʌʃ], OOWur [ˈʊ^w·wʌʃ], GLEEsahn [ˈɡliː·san], GREHtul [ˈɡɹe·rʌʃ], BLOOuhl [ˈblu^w·ʌʃ], SKRUMjuhs [ˈskɹʌm·dʒəs], AKSfil [ˈæks·fɪʃ], IZwahd [ˈɪz·wɑd], CHEEyahz [ˈtʃiː·jɑz], HALLah [ˈhɑː·lɑ], SNILtee [ˈsniːt·tiː], SATHul [ˈsæ·θʌʃ], RIHZul [ˈɹɪ·zʌʃ], GOOMBuh [ˈɡu^w·m·bə], LYkreese [ˈlɑː·kɹiːs], KREEtahd [ˈk^hɹiː·tɑd], SMAHGlin [ˈsma·ɡlɪn], SPANuk [ˈspæ·nək], WAHNtay [ˈwan·teː], MYOULOof [ˈmju^w·lu^wʃ], DRIHpɪte [ˈdɹɪ·pɑːtʃ], SAHpɪd [ˈsɑ·pɪd], SILfuhr [ˈsɪl·fə], KISSmur [ˈkɪs·mə], HAYrah [ˈheː·ɹɑx], GAHfoo [ˈɡɑ·fu^w], SUHLkuhn [ˈsʌ·kəŋ], SKWILnɪf [ˈskwɪl·nɪf], DOOLthoo [ˈdu^w·θu^w], PYOUfur [ˈp^hju^w·fə], NAHvoe [ˈna·vo^w], DRITfahl [ˈdɹɪt·fɑʃ], WULdoe [ˈwuː·do^w], EEyul [ˈiː·jʌʃ],

suhNITE [sə·ˈnaːt], mahrKEE [maɪ·ˈk^hiː], kruhNOO [k^hɹə·ˈnu^w], smuhSMURCH [smə·ˈsməɹtʃ]

Whole Trisyllables:

GOOgulwɪks [ˈɡu^w·ɡʌʃ·wɪks], SALuhgree [ˈsæ·lə·ɡɹiː], KRUHstuhgook [ˈk^hɹʌ·stə·ɡu^w·k], NANdeefahr [ˈnæn·diː·faɪ], OHleeyus [ˈo^w·liː·jəs], HEEjeegloo [ˈhiː·dʒiː·ɡlu^w], GWAHRguhɪde [ˈɡwaɪ·ɡə·faːd], NEHsofil [ˈnɛ·so^w·fɪʃ], KAHRduhklast [ˈk^hɑɪ·rə·klæst], SLOOburis [ˈslu^w·bə·ɹɪs], SKUDyoulye [ˈskʌ·dʒu^w·ləː], KAHluhfeen [ˈk^ha·lə·fiːn], SANyouwus [ˈsæn·ju^w·əs],

lamBAYstoe [læm·ˈbeː·sto^w], buhLAHstɪk [bə·ˈlɑ·stɪk], greeLAYbah [ɡɹiː·ˈleː·bə], fesDUNKul [fɛs·ˈdʌŋ·kʌʃ], chaDOOwuh [tʃæ·ˈdu^w·ə], tyklairAHL [t^hɑː·klæ·ˈɹɑʃ]

Whole Tetrasyllables:

SIHneeaytur [ˈsɪ·niː·jeː·rəʃ],

suhLOoneeyum [sə·ˈlo^w·niː·əʃ], juhLEHstuhfee [dʒə·ˈlɛs·tə·fiː],

jarfuhRAHrow [dʒɑɪ·fə·ˈɹɑ·ɹo^w], ahstayNAHday [ɑ·steː·ˈna·deː], ooweetKOOKshlow [u^w·wiː·ˈk^hu^w·k·ʃlo^w]

Whole Pentasyllables:

Question ID: U. an unexpected cool breeze on a sultry day

Segments

Segment Total for Stressed and Unstressed Syllables and Monosyllables according to Syllable Configuration

Monosyllable Onset: p, #p^h, #b(4), #m, #fⁱ, #f(4), #t, #t^h, #s(6), #z(2), ʃ(3), #ʃ, l(6), k(2), w(5), #w(2), #w^hMonosyllable Nucleus: u^w(6), #u^w(2), u, iⁱ(3), ɪ(6), ʊ, o^w(2), o^w#, ε, aⁱ(2), a(2)

Monosyllable Coda: p#(2), m#(3), m(2), f#(2), v#(2), d#, s#(4), ʃ#(8), t, t#(3), k

First Syllable Segment Stressed Onset: #p^h(2), p, #m, #f(4), #v(3), t, #t, #t^h(3), #tʃ, #dʒ, n, #r, #s(10), ʃ(5), #ʃ, #l(7), l(4), j, #k^h(6), #g(3), w, #w(12), #h**First Syllable Segment Stressed Nucleus:** iⁱ(8), i, u^w(11), ɪ(9), #ɪ, ʊ(2), eⁱ(4), #o^w, #ε, ε(2), ʌ(3), ɔ, æ(9), aⁱ(2), #aⁱ, a, a(5), #a**First Syllable Segment Stressed Coda:** p(2), m(2), f(2), n(3), s(3), z, ʃ(2), t(2)First Syllable Segment Unstressed Onset: #p, #b(2), #m(2), #f(2), #t^h, ʃ, #ʃ, l(2), #l, #j, k, #k^h(2), #k(3), #w, w, #h(3)First Syllable Segment Unstressed Nucleus: iⁱ, u^w, #ɪ, #o, o^w(2), ɐ, ə(7), #ə, ə, ε(2), ɔ, aⁱ, #a, a(4)

First Syllable Segment Unstressed Coda: m, n, ʃ

Second Syllable Segment Stressed Onset: m, f(2), v, t^h(3), d(2), n(2), z, ʃ(2), l(4), g, w**Second Syllable Segment Stressed Nucleus:** iⁱ(2), u^w(2), ɪ(2), eⁱ, o^w, ε(2), ɔ(2), æ(3), aⁱ, a(4)**Second Syllable Segment Stressed Coda:** t#, n#(3), s#, ʃ, t, kSecond Syllable Segment Unstressed Onset: p(3), b(2), m(3), f(3), v(5), t^h, t(9), d, tʃ(2), n(3), r(4), θ, s(3), z(5), ʒ(2), ʃ, ʃ(6), l(6), j, k(3), g(2), w(2), hSecond Syllable Segment Unstressed Nucleus: iⁱ#, iⁱ(5), u^w#, ɪ(8), o, o#, o^w#, ə#(4), ə(4), ə(3), ə#(2), ɐ#(4), ɐ#(5), ɐ(3), ɐ, æ(2), a#, aⁱ#, a^w#, a(7), a#(2)

Second Syllable Segment Unstressed Coda: p#, n#(5), s, z#, ʃ#(3), ʃ#(2), t#, k#(2), ɳ#

Third Syllable Segment Stressed Onset: d, l**Third Syllable Segment Stressed Nucleus:** iⁱ#, u^w#, ɪ, ε**Third Syllable Segment Stressed Coda:** s#, sThird Syllable Segment Unstressed Onset: p^h(3), m, f(3), v, t, n, r, θ, s(3), ʃ, ʃ(8), l(3), j, w(2), hThird Syllable Segment Unstressed Nucleus: iⁱ(4), iⁱ#, u^w, ɪ(4), eⁱ, ə(2), ə#(3), ə#(2), ɔ(3), aⁱ#, aⁱ, a#(2)Third Syllable Segment Unstressed Coda: t^h#, t#, n#, s#, z#, ʃ#(2), ʃ, ʃ#(2), k#, ɳ#**Fourth Syllable Segment Stressed Onset:****Fourth Syllable Segment Stressed Nucleus:****Fourth Syllable Segment Stressed Coda:**Fourth Syllable Segment Unstressed Onset: m, t^h, r, j, kFourth Syllable Segment Unstressed Nucleus: u^wɪ, ɪ, ə(3), aⁱ

Fourth Syllable Segment Unstressed Coda: d#, s#(2), ɳ#

Fifth Syllable Segment Stressed Onset:**Fifth Syllable Segment Stressed Nucleus:****Fifth Syllable Segment Stressed Coda:**

Fifth Syllable Segment Unstressed Onset: n, z

Fifth Syllable Segment Unstressed Nucleus: iⁱ#, ɪ

Fifth Syllable Segment Unstressed Coda: ɳ#

Segment Total for Stressed and Unstressed Onsets and Codas

Stressed Onset: #p^h(2), p, #m, m, #f(4), f(2), #v(3), v, t, #t, #t^h(3), t^h(3), d(3), #tʃ, #dʒ, n(3), #r, #s(10), z, ʃ(2), ʃ(5), #ʃ, #l(7), l(9), j, #k^h(6), #g(3), g, w(2), #w(12), #h**Stressed Coda:** p(2), m(2), f(2), t#, n(3), n#(3), s(4), s#(2), z, ʃ(3), t(3), kUnstressed Onset: #p, p(3), p^h(3), #b(2), b(2), #m(2), m(5), #f(2), f(6), v(6), #t^h, t^h(2), t(10), d, tʃ(2), n(5), r(6), θ(2), s(6), z(6), ʒ(2), ʃ(2), #ʃ, ʃ(15), #l, l(11), #j, j(3), #k^h(2), #k(3), k(5), g(2), #w, w(5), #h(3), h(2)

Unstressed Coda: p#, m, tʰ#, t#, d#, n, n#(6), s, s#(3), z#(2), ʃ#(5), ɹ(2), ɹ#(4), t#, k#(3), ŋ#(4)

Segment Total for Onsets and Codas

Onset: #p, #pʰ(3), p(5), pʰ(3), #b(6), b(2), #m(4), m(6), #f(10), #fʲ(8), #v(3), v(7), #t(2), #tʰ(5), tʰ(5), t(11), d(4), #tʃ(2), tʃ(2), #dʒ(2), n(8), #r, r(6), θ(2), #s(16), s(6), #z(2), z(7), ʒ(2), ʃ(4), #ɹ(3), ɹ(23), #l(8), l(26), #j, j(4), #kʰ(8), #k(3), k(7), #g(3), g(3), #w(15), #wʰ, w(12), #h(4), h(2)

Coda: p(2), p#(3), m(5), m#(3), f(2), f#(2), v#(2), tʰ#, t#(2), d#(2), n(4), n#(9), s(5), s#(9), z, z#(2), ʃ#(13), ɹ(5), ɹ#(4), t(4), t#(4), k(2), k#(3), ŋ#(4)

Segment Total for Stressed and Unstressed Syllables and Monosyllables

Monosyllable Segment: p, p#(2), #pʰ, #b(4), m#(3), #m, m(2), #fʲ, f#(2), #f(4), v#(2), #t, #tʰ, d#, #s(6), s#(4), #z(2), ʃ#(8), ɹ(3), #ɹ, l(6), t, t#(3), k(3), w(5), #w(2), #wʰ

uʷ(6), #uʷ(2), u, iʲ(3), ɪ(6), ʊ, oʷ(2), oʷ#, ε, aʲ(2), a(2)

First Syllable Segment Stressed: #pʰ(2), p(3), #m, m(2), #f(4), f(2), #v(3), t, #t, #tʰ(3), #tʃ, #dʒ, n(4), #r, #s(10), s(3), z, ɹ(7), #ɹ, #l(7), l(4), t(2), j, #kʰ(6), #g(3), w, #w(12), #h

iʲ(8), i, uʷ(11), ɪ(9), #ɪ, ʊ(2), eʲ(4), #oʷ, #ε, ε(2), ʌ(3), ɔ, æ(9), aʲ(2), #aʲ, a, a(5), #a

First Syllable Segment Unstressed: #p, #b(2), #m(2), m, #f(2), #tʰ, n, ɹ(2), #ɹ, l(2), #l, ʲ, #j, k, #kʰ(2), #k(3), #w, w, #h(3)

iʲ, uʷ, #ɪ, #o, oʷ(2), ə(7), #ə, ʌ, ε(2), ɔ, aʲ, #a, a(4)

Second Syllable Segment Stressed: m, f(2), v, tʰ(3), t#, d(2), n(2), n#(3), s#, z, ʃ(2), ɹ, l(4), t, k, g, w
iʲ(2), uʷ(2), ɪ(2), eʲ, oʷ, ε(2), ɔ(2), æ(3), aʲ, a(4)

Second Syllable Segment Unstressed: p(3), p#, b(2), m(3), ʌm, f(3), v(5), tʰ, t(9), d, tʃ(2), n(3), n#(5), ʌn#(5), ʌn(3), r(4), θ, s(4), z(5), z#, ʒ(2), ʃ, ʃ#(3), ɹ(6), ɹ#(2), l(6), ʲ#(4), t#, j, k(3), k#(2), g(2), ŋ#, w(2), h

iʲ#(8), iʲ(5), uʷ#(2), ɪ(8), o, o#, oʷ#, ə#(4), ə(4), ʌ(3), ʌ#(2), æ(2), a#, aʲ#(2), aʷ#, a(7), a#(2)

Third Syllable Segment Stressed: d, s#, s, l

iʲ#, uʷ#, ɪ, ε

Third Syllable Segment Unstressed: pʰ(3), m, f(3), v, t, tʰ#, t#, n, n#, r, θ, s(3), s#, z#, ʃ, ʃ#(2), ɹ(9), ɹ#(2), l(3), j, k#, ŋ#, w(2), h

iʲ(4), iʲ#(4), uʷ, ɪ(4), eʲ, ə(2), ə#(3), ʌ#(2), ɔ(3), aʲ#, aʲ, a#(2)

Fourth Syllable Segment Stressed:

Fourth Syllable Segment Unstressed: m, tʰ, d#, r, s#(2), j, k, ŋ#

uʷʰ, ɪ, ə(3), aʲ

Fifth Syllable Segment Stressed:

Fifth Syllable Segment Unstressed: n, z, ŋ#

iʲ#, ɪ

Segment Total by Syllable

First Syllable Segment: #pʰ(2), #p, p(3), #b(2), #m(3), m(3), #f(6), f(2), #v(3), t, #t, #tʰ(4), #tʃ, #dʒ, n(5), #r, #s(10), s(3), z, ɹ(9), #ɹ(2), #l(8), l(6), ʲ, t(2), j, #j, #kʰ(8), k, #k(3), #g(3), w(2), #w(13), #h(4)

iʲ(9), i, uʷ(12), ɪ(9), #ɪ(2), ʊ(2), eʲ(4), #oʷ, #o, oʷ(2), #ε, ε(2), ə(7), #ə, ʌ, ε(2), ʌ(3), ɔ(2), æ(9), aʲ(2), #aʲ, aʲ, a, a(9), #a(2)

Second Syllable Segment: p(3), p#, b(2), m(4), ɱ(5), v(6), t^h(4), t#, t(9), d(3), tʃ(2), n(5), n#(8), ɳ(5), ɳ(3), r(4), θ, s(4), s#, z(6), z#, ʒ(2), ʃ(3), ʃ#(3), ʒ(7), ʒ#(2), l(10), ɭ(4), ɭ#, ɭ, j, k(4), k#(2), g(3), ŋ#, w(3), h

i^j#(8), i^j(7), u^w#(2), u^w(2), ɪ(10), e^j, o, o^w, o#, o^w#, ə#(4), ə(4), ɜ(3), ɞ#(2), ε(2), ɔ(2), æ(5), a#, aⁱ#(2), aⁱ, a^w#, a(11), a#(2)

Third syllable Segment: p^h(3), m, f(3), v, t, t^h#, t#, d, n, n#, r, θ, s(4), s#(2), z#, ʃ, ʃ#(2), ʒ(9), ʒ#(2), l(4), j, k#, ŋ#, w(2), h

i^j(4), i^j#(5), u^w, u^w#, ɪ(5), e^j, ə(2), ə#(3), ɜ#(2), ε, ɔ(3), aⁱ#, aⁱ, a#(2)

Fourth Syllable Segment: m, t^h, d#, r, s#(2), j, k, ŋ#

u^wɪ, ɪ, ə(3), aⁱ

Fifth Syllable Segment: n, z, ŋ#

i^j#, ɪ

Segment Stressed and Unstressed Total

Stressed Segment: #p^h(2), p(3), #m, m(3), #f(4), f(4), #v(3), v, t, #t, #t^h(3), t^h(3), t#, d(3), #tʃ, #dʒ, n(6), n#(3), #r, #s(10), s#(2), s(4), z(2), ʃ(2), ʒ(8), #ʒ, #l(7), l(9), ɭ(3), j, #k^h(6), k, #g(3), g, w(2), #w(12), #h
i^j(10), i^j#, i, u^w(13), u^w#, ɪ(12), #ɪ, ʊ(2), e^j(5), #o^w, o^w, #ε, ε(5), ʌ(3), ɔ(3), æ(12), aⁱ(3), #aⁱ, a, a(9), #a

Unstressed Segment: p(3), p#, #p(2), p^h(3), b(2), #b(2), #m(2), m(6), ɱ(6), f(6), #f(2), v(6), t^h(2), #t^h, t^h#, t#, t(10), d, d#, tʃ(2), n(6), n#(6), ɳ(5), ɳ(3), r(6), θ(2), s(7), s#(3), z(6), z#(2), ʒ(2), ʃ(2), ʃ#(5), ʒ(17), ʒ#(4), #ʒ, #l, l(11), ɭ, ɭ#(4), ɭ#, j(3), #j, k(5), #k(3), k#(3), #k^h(2), g(2), ŋ#(4), #w, w(5), h(2), #h(3)

i^j#(13), i^j(10), u^w#(2), u^w(2), u^wɪ, ɪ(14), #ɪ, e^j, o, o#, #o, o^w(2), o^w#, ə#(7), #ə, ə(16), ɜ(4), ɞ#(4), ε(2), ɔ(4), æ(2), a#, aⁱ#(3), aⁱ(3), a^w#, a(11), #a, a#(4)

Segment Total (absolute)

Narrow: p(7), p#(3), #p^h(3), #p(2), p^h(3), b(2), #b(6), m#(3), #m(4), m(11), ɱ(6), #f^j, f#(2), #f(10), f(10), v(7), #v(3), v#(2), t(11), t#(2), #t(2), #t^h(5), t^h(5), t^h#, d(4), d#(2), #tʃ, tʃ(2), #dʒ, n(12), n#(9), ɳ#(5), ɳ(3), #r, r(6), θ(2), #s(16), s#(9), s(11), z(8), #z(2), z#(2), ʃ(4), ʃ#(13), ʒ(2), ʒ(28), ʒ#(4), #ʒ(3), #l(8), l(26), ɭ, ɭ#(4), ɭ(4), ɭ#(4), j(4), #j, #k^h(8), #k(3), k#(3), k(9), #g(3), g(3), ŋ#(4), w(12), #w(15), #w^h, #h(4), h(2)

i^j#(14), i^j(23), i, u^w#(3), #u^w(2), u^w(21), u, u^wɪ, ɪ(32), #ɪ(2), ʊ(3), e^j(6), o, o#, #o^w, #o, o^w(5), o^w#(2), ə#(7), #ə, ə(16), ɜ(4), ɞ#(4), #ε, ε(8), ʌ(3), ɔ(7), æ(14), a, a#, aⁱ#(3), #aⁱ, aⁱ(8), a^w#, a(22), #a(2), a#(4)

Broad: p(18), b(8), m(19), f(23), v(12), t(26), d(6), tʃ(3), dʒ, n(29), r, r(6), θ(2), s(36), z(12), ʃ(17), ʒ(2), ʒ(35), l(34), ɭ(13), j(5), k(23), g(6), ŋ(4), w(28), h(6)

i(38), u(28), ɪ(34), ʊ(3), e(6), o(11), ə(24), ɜ(8), ε(9), ʌ(3), ɔ(7), æ(14), a(15), a(28)

Supra-Segments: Consonant Clusters

Consonant Cluster Total for Stressed and Unstressed Syllables and Monosyllables according to Syllable Configuration

Monosyllable Consonant Cluster Onset (all entries are word initial): #bl, #bɭ, mɭ, #fɭ, #fl(3), #t^hw, #t^hɭ, #sw(3), #spl, #sk(2), #zw

Monosyllable Consonant Cluster Coda (all entries are word final): mf#, mp#, td#, ks#

First Syllable Consonant Cluster Stressed Onset (all entries are word initial): #p^hj, #fɭ, #fl, #stɭ, #spɭ, #sl, #sn, #sw, #k^hl, #kl, #gɭ

First Syllable Consonant Cluster Stressed Coda:

First Syllable Consonant Cluster Unstressed Onset (all entries are word initial): #p^hɭ, #bl(2), #kw

First Syllable Consonant Cluster Unstressed Coda:

Second Syllable Consonant Cluster Stressed Onset:

Second Syllable Consonant Cluster Stressed Coda: ɭn#, ɭt#

Second Syllable Consonant Cluster Unstressed Onset: vɭ, tɭ(2), kl

Second Syllable Consonant Cluster Unstressed Coda: ŋz#, sp#

Third Syllable Consonant Cluster Stressed Onset:

Third Syllable Consonant Cluster Stressed Coda:

Third Syllable Consonant Cluster Unstressed Onset: p^hɹ(2), st

Third Syllable Consonant Cluster Unstressed Coda: ɹt#

Fourth Syllable Consonant Cluster Stressed Onset:

Fourth Syllable Consonant Cluster Stressed Coda:

Fourth Syllable Consonant Cluster Unstressed Onset: t^hj

Fourth Syllable Consonant Cluster Unstressed Coda:

Fifth Syllable Consonant Cluster Stressed Onset:

Fifth Syllable Consonant Cluster Stressed Coda:

Fifth Syllable Consonant Cluster Unstressed Onset:

Fifth Syllable Consonant Cluster Unstressed Coda:

Consonant Cluster Total for Stressed and Unstressed Onsets and Codas

Stressed Onset: #p^hj, #fɹ, #fl, #stɹ, #spɹ, #sl, #sn, #sw, #k^hl, #kl, #gɹ

Stressed Coda: ɹn#, ɹt#

Unstressed Onset: #p^hɹ, p^hɹ(2), #bl(2), vɹ, tɹ(2), t^hj, st, kl, #kw

Unstressed Coda: ɳz#, sp#, ɹt#

Consonant Cluster Total for Onsets and Codas

Onset: #p^hj, #p^hɹ, p^hɹ(2), #bl(3), #bɹ, mɹ, #fɹ(2), #fl(4), vɹ, #t^hw, #t^hɹ, tɹ(2), t^hj, st, #sw(4), #spl, #stɹ, #spɹ, #sl, #sn, #sk(2), #zw, #k^hl, #kl, kl, #kw, #gɹ

Coda: mf#, mp#, ɳz#, sp#, ɹt#, ɹn#, ɹt#, td#, ks#

Consonant Cluster Total for Stressed and Unstressed Syllables and Monosyllables

Monosyllable Consonant Cluster: #bl, #bɹ, mɹ, mf#, mp#, #fɹ, #fl(3), #t^hw, #t^hɹ, #sw(3), #spl, #sk(2), #zw, td#, ks#

First Syllable Consonant Cluster Stressed: #p^hj, #fɹ, #fl, #stɹ, #spɹ, #sl, #sn, #sw, #k^hl, #kl, #gɹ

First Syllable Consonant Cluster Unstressed: #p^hɹ, #bl(2), #kw

Second Syllable Consonant Cluster Stressed: ɹn#, ɹt#

Second Syllable Consonant Cluster Unstressed: vɹ, tɹ(2), ɳz#, sp#, kl

Third Syllable Consonant Cluster Stressed:

Third Syllable Consonant Cluster Unstressed: p^hɹ(2), st, ɹt#

Fourth Syllable Consonant Cluster Stressed:

Fourth Syllable Consonant Cluster Unstressed: t^hj

Fifth Syllable Consonant Cluster Stressed:

Fifth Syllable Consonant Cluster Unstressed:

Consonant Cluster Total per Syllable

First Syllable Consonant Cluster: #p^hj, #p^hɹ, #bl(2), #fɹ, #fl, #stɹ, #spɹ, #sl, #sn, #sw, #k^hl, #kl, #kw, #gɹ

Second Syllable Consonant Cluster: vɹ, tɹ(2), ɳz#, sp#, ɹn#, ɹt#, kl

Third Syllable Consonant Cluster: p^hɹ(2), st, ɹt#

Fourth Syllable Consonant Cluster: t^hj

Fifth Syllable Consonant Cluster:

Consonant Cluster Stressed and Unstressed Total

Consonant Cluster Stressed: #p^hj, #fɹ, #fl, #stɹ, #spɹ, #sl, #sn, #sw, ɹn#, tɹ#, #k^hl, #kl, #gɹ

Consonant Cluster Unstressed: #p^hɹ, p^hɹ(2), #bl(2), vɹ, tɹ(2), t^hj, ɳz#, sp#, st, ɹt#, #kw, kl

Consonant Cluster Total (absolute)

Narrow: #p^hj, #p^hɹ, p^hɹ(2), #bl(3), #bɹ, mɹ, mf#, mp#, #fɹ(2), #fl(4), vɹ, #t^hw, #t^hɹ, tɹ(2), t^hj, ɳz#, #sw(4), #spɹ, #sl, #sn, #spl, st, sp#, #sk(2), #stɹ, #zw, ɹt#, ɹn#, tɹ#, tɹd#, ks#, #k^hl, kl, #kw, #kl, #gɹ

Broad: pj, pɹ(3), bl(3), bɹ, mɹ, mf, mp, fɹ(2), fl(4), vɹ, tw, tɹ(3), tj, nz, sw(4), spɹ, sl, sn, spl, st, sp, sk(2), stɹ, zw, ɹt, ɹn, tɹ, tɹd, ks, kl(3), kw, gɹ

Supra-Segments: Whole Syllables

Whole Syllable Total for Stressed and Unstressed Syllables and Monosyllables

Monosyllable Whole Syllable:

#bi^jf#, #spli^t#, #ɹi^s#,
#u^wm#, #bu^v#, #fɹu^wf#, #flu^w#, #sku^wf#, #lu^wmf#, #wu^wf#, #w^hu^wm#,
#p^hɹp#, #flɹf#, #t^hɹm#, #swɹt#, #zwɹf#, #zɹks#,
#flu^jf#,
#mɹo^w#, #swo^wv#, #wo^wtɹd#,
#ble^jf#,
#bɹa^sɹs#, #t^hwa^sɹs#,
#swa^jf#, #skamp#

First Syllable Whole Syllable Stressed (all entries are word initial):

#vi, #t^hɹi^t, #tɹi^j, #ri, #stɹi^j, #si^j(2), #ɹi, #k^hi^j,
#p^hu^w, #flu^w, #vu^w, #su^w, #lu^w, #gu^wp, #wu^w(4),
#ɹs, #t^hɹp, #swɹf, #spɹɹn, #klɹn, #k^hɹ, #wɹ(3), #wɹs,
#p^hjɹɹ, #hɹ,
#fe^j, #dʒe^j, #le^j, #k^hle^j,
#o^w,
#ɛ, #fe, #we^t,
#fɹɹm, #lɹm, #gɹɹ,
#t^hɹ,
#mæ, #snæ, #sæ^s, #slæ, #læn, #læ, #k^hæ, #gæ,
#a^j, #ta, #sa^j, #wa^j,
#az, #vaɹ, #laf, #la, #k^ha, #wa(2)

First Syllable Whole Syllable Unstressed (all entries are word initial):

#t^hi^j,
#blu^w,
#ɹm,
#o, #p^hɹo^w, #ho^w,
#ə, #blə, #lə, #kə(4), #k^hə^t, #hə,
#mə,
#fe, #he,
#fɹɹ,
#ma^j,
#a, #ɹa, #jan, #kwa, #wa

Second Syllable Whole Syllable Stressed:

di^j, ni^s#,
ɹu^wn#, lu^w,
fɹ, dɹ,
le^j,
ɹo^w,
t^hɛ, nɛ,
vɹ, gɹ^wɹn#,
bæ, mæ, fæ, zæn#,

la^j,
t^ha, t^hak, laht#, wa

Second Syllable Whole Syllable Unstressed:

pi^j#, vi^j, vɹi^j#, ti^jk#, tʃi^j#, ri^j, θi^j#, zi^j##(2), ʃi^j, li^j#, wi^jf#,
tu^w#, lu^w#,
ɪn#, mɪt#, nɪŋ#, rɪk#, zɪ, ɹɪf#, lɪsp#, gɪf#,
to^w#, tʃo#, ʒo,
pɹɪ##(2), bə#, mə#, fɹɪ#, vɹɪz#, vɹɪ, t^hɹɪ#, tɹɪ##(2), tə#, nə, rɹɪ#, rɹɪ, sə, sɹɪ#, zɹɪ, ʒə, lə, kɹɪ#, gə#,
və#, tə#, sə#, ʃə#, wə#,
tʌən#,
a^w#, ra^j#, la^j#, ka#,
maɹ#, fan#, fa#, daɹ#, nan#, zan#, ja#, kla, ha#

Third Syllable Whole Syllable Stressed:

li#,
u^w#,
dis,
ɛs#

Third Syllable Whole Syllable Unstressed:

p^hɹɪ##(2), fi^jɹ#, vi^j, si^j#, ʃi^jz#, ʃi^j, ʃi^j#,
mu^wf#,
fɪf#, stɪk#, ʃɪs#, ɹɪn#,
le^j,
nə#, rə, θə, ɹə#, wə#,
sə#, jə#,
lɔɹ#, lɔŋ#, wɔɹt#,
fa^j#, ɹa^jt^h#,
p^ha#, ha#

Fourth Syllable Whole Syllable Stressed:

Fourth Syllable Whole Syllable Unstressed:

t^hju^w:d#,
rɪŋ#,
əs##(2), kə,
ma^j

Fifth Syllable Whole Syllable Stressed:

Fifth Syllable Whole Syllable Unstressed:

ni^j#,
zɪŋ#

Whole Syllable Total per Syllable

First Syllable Whole Syllable (all entries are word initial):

#vi, #t^hɹɪɹ, #t^hɹɪ, #tʃɹɪ, #rɪ, #stɹɪ, #si^j##(2), #ɹɪ, #k^hɹɪ,
#p^hu^w, #blu^w, #flu^w, #vu^w, #su^w, #lu^w, #gu^wp, #wu^w(4),
#ɹs, #ɹm, #t^hɹp, #swɪf, #spɹɪn, #klɪn, #k^hɹɪ, #wɪ(3), #wɪs,
#p^hjuɹ, #hʊ,
#fe^j, #dʒe^j, #le^j, #k^hle^j,
#o^w, #o, #p^hɹo^w, #ho^w,
#ə, #blə, #lə, #kə(4), #k^hɹɹ, #hə,
#mə,
#ɛ, #fɛ(2), #wɛt, #hɛ,
#fɹɹm, #lɹm, #gɹɹ,
#fɹɹ, #t^hɹ,
#mæ, #snæ, #sæɹ, #slæ, #læn, #læ, #k^hæ, #gæ,

#aⁱ, #maⁱ, #ta, #saⁱ, #waⁱ,
#a, #az, #vaɪ, #ɪa, #laf, #la, #jan, #kwa, #k^ha, #wa(3)

Second Syllable Whole Syllable:

piⁱ#, viⁱ, viɪⁱ#, tiⁱk#, tiɪⁱ#, diⁱ, tʃiⁱ#, niⁱs#, riⁱ, θiⁱ#, ziⁱ #(2), ɹiⁱ, liⁱ#, wiⁱf#,
tu^w#, ʃu^wn#, lu^w#, lu^w,
ɪn#, miⁱt#, fi, di, niŋ#, riⁱk#, zi, ɹiⁱf#, liⁱsp#, ɡiⁱf#,
leⁱ,
to^w#, tʃo#, ʃo^w, ʒo,
p^hɪⁱ #(2), bə#, mə#, fəⁱl#, vəŋz#, vəŋ, t^həŋ#, təŋ #(2), tə#, nə, rəⁱl#, rəŋ, sə, səŋ#, zəŋ, ʒə, lə, kəŋ#, ɡə#,
və, tə#, sə, ʃə#, wə,
t^hɛ, nɛ,
vɔ, ɡɔ^wɪn#,
bə, mə, fə, tɹæn#, zæn#,
a^w#, raⁱ#, laⁱ#, laⁱ, ka#,
maɪ#, fan#, fa#, t^ha, t^hak, daɪ#, nan#, zan#, ja#, laɪt#, kla, wa, ha#

Third Syllable Whole Syllable:

p^hɪⁱ #(2), fiⁱɹ#, viⁱ, siⁱ#, ɹiⁱz#, ɹiⁱ, ɹiⁱ#, li#,
u^w#, mu^wʃ#,
fiⁱf#, diⁱs, stiⁱk#, ʃiⁱs#, ɹiⁱn#,
leⁱ,
nə#, rə, θə, ɹə#, wə#,
sə#, jə#,
ɛs#,
lɔɪ#, lɔŋ#, wɔɪt#,
faⁱ#, ɹaⁱt^h#,
p^ha#, ha#

Fourth Syllable Whole Syllable:

t^hju^w:d#,
riŋ#,
əs #(2), kə,
maⁱ

Fifth Syllable Whole Syllable: niⁱ#, ziŋ#

Whole Syllable Stressed and Unstressed Total

Whole Syllable Stressed:

#vi, #t^hɪⁱɪⁱ, diⁱ, #tʃiⁱ, niⁱs#, #ri, #stiɪⁱ, #siⁱ #(2), #ɹi, li#, #k^hiⁱ,
u^w#, #p^hu^w, #flu^w, #vu^w, #su^w, ʃu^wn#, #lu^w, lu^w, #ɡu^wp, #wu^w (4),
#ɹi, fi, #t^hɪp, di, diⁱs, #swiⁱf, #spɪn, #kliⁱn, #k^hiⁱ, #wiⁱ (3), #wiⁱs,
#p^hjuɪ, #hʊ,
#feⁱ, #dʒeⁱ, #leⁱ, leⁱ, #k^hleⁱ,
#o^w, ʃo^w,
#ɛ, ɛs#, #fe, t^hɛ, nɛ, #wɛt,
#fɪlɪm, #lɪm, #ɡɪl,
vɔ, #t^hɔ, ɡɔ^wɪn#,
bə, mə, #mæ, fə, #snaɪ, #sæ, #slæ, zæn#, #læn, #læ, #k^hæ, #ɡæ,
#aⁱ, #ta, #saⁱ, laⁱ, #waⁱ,
#az, #vaɪ, t^ha, t^hak, #laf, #la, laɪt#, #k^ha, #wa(2), wa

Whole Syllable Unstressed:

piⁱ#, p^hɪⁱ #(2), fiⁱɹ#, viⁱ #(2), tiⁱk#, #t^hiⁱ, tiɪⁱ#, tʃiⁱ#, niⁱ#, riⁱ, θiⁱ#, siⁱ#, ziⁱ #(2), ɹiⁱ (2), ɹiⁱz#, ɹiⁱ#, liⁱ#, wiⁱf#,
#blu^w, mu^wʃ#, tu^w#, t^hju^w:d#, lu^w#,
ɪn#, #ɪm, miⁱt#, fiⁱf#, niŋ#, riŋ#, riⁱk#, stiⁱk#, zi, ziŋ#, ʃiⁱs#, ɹiⁱf#, ɹiⁱn#, liⁱsp#, ɡiⁱf#,
leⁱ,
#o, #p^hɪo^w, to^w#, tʃo#, ʒo, #ho^w,

#ə, əs#(2), pə#(2), bə#, #blə, mə#, fə#, vənz#, vən, tʰən#, tən#(2), tə#, nə, nə#, rə, rə#, rən, Өə, sə, sən#, zən, zə, ɹə#, lə, #lə, kən#, #kə(4),
 kə, #kʰə, gə#, wə#, #hə,
 #mə, və, tə#, sə, sə#, fə#, jə#, wə,
 #fə, #hə,
 #fɔɹ, lɔɹ#, lɔŋ#, wɔɹt#,
 tʌən#,
 aʷ#, #maʲ, maʲ, faʲ#, raʲ#, ɹaʲtʰ#, laʲ#, ka#,
 #a, pʰa#, maɹ#, fan#, fa#, daɹ#, nan#, zan#, #ɹa, ja#, #jan, kla, #kwa, #wa, ha#(2)

Whole Syllable Total (absolute)

Narrow:

piʲ#, pʰɹiʲ#(2), #biʃ#, fiʲ#, viʲ(2), #vi, vɹiʲ#, tiʲk#, #tʰiʲ, #tʰɹiʲ, tɹiʲ#, diʲ, tʃiʲ#, #tʃiʲ, niʲ#, niʲs#, #ri, riʲ, Өiʲ#, #stuiʲ, #siʲ(3), #spliʲ#, ziʲ#(2), ɹiʲ(2),
 ɹiʲz#, ɹiʲ#, #ɹi, #ɹiʲs#, liʲ#, liʲ#, #kʰiʲ, wiʲf#,
 uʷ#, #uʷm#, #pʰuʷ, #bluʷ, #buv#, muʷf#, #fluʷ, #fɹuʷf#, #fluʷ#, #fɹuʷtʰ#, #vuʷ, tuʷ#, tʰjuʷ:d#, #suʷ, #skuʷf#, ʃuʷn#, luʷ#, #luʷ, luʷ,
 #luʷmf#, #guʷp, #wuʷ(4), #wuʷf#, #wʰuʷm#,
 ɪn#, #ɪm, #ɪs, #pʰɪp#, mɪtʰ#, #fliʃ#, fɪʃ#, fɪ, #tʰɪp, #tʰɪm#, dɪ, dis, nɪŋ#, ɹɪŋ#, ɹɪk#, stɪk#, #swɪf, #spɹɪn, #swɪtʰ#, #zwɪf#, #zɪks#, zɪ, zɪŋ#,
 ʃɪs#, ɹɪʃ#, ɹɪn#, lɪsp#, #klɪn, #kʰɪ, ɡɪʃ#, #wɪ(3), #wɪs,
 #pʰjʊɹ, #flʊʃ#, #hu,
 #feʲ, #dʒeʲ, #leʲ, leʲ(2), #kʰleʲ,
 #o, #oʷ, #pʰoʷ, #mɹoʷ#, toʷ#, tʃoʷ, #swoʷv#, ʃoʷ, zo, #woʷtʰd#, #hoʷ,
 #ə, əs#(2), pə#(2), bə#, #blə, mə#, fə#, vənz#, vən, tʰən#, tən#(2), tə#, nə, nə#, rə, rə#, rən, Өə, sə, sən#, zən, zə, ɹə#, lə, #lə, kən#, #kə(4),
 kə, #kʰə, gə#, wə#, #hə,
 #mə, və, tə#, sə, sə#, fə#, jə#, wə,
 #ɛ, ɛs#, #bleʃ#, #fe(2), tʰɛ, nɛ, #weʃ, #hɛ,
 #fɹɹɹm, #lɹm, #ɡɹɹ, #fɔɹ,
 vɔ, #tʰɔ, lɔɹ#, lɔŋ#, ɡɔʷɹn#, wɔɹt#,
 bæ, mə, #mæ, fæ, tʌən#, #snæ, #sæ, #slæ, zæn#, #læn, #læ, #kʰæ, #gæ,
 aʷ#, #aʲ, #bɹaʲs#, #maʲ, maʲ, faʲ#, #ta, #tʰwaʲs#, raʲ#, #saʲ, ɹaʲtʰ#, laʲ#, laʲ, ka#, #waʲ,
 #a, #az, pʰa#, maɹ#, fan#, fa#, #vaɹ, tʰa, tʰak, daɹ#, nan#, #swaf#, #skamp#, zan#, #ɹa, #laf, #la, laʲtʰ#, ja#, #jan, kla, #kʰa, #kwa,
 #wa(3), wa, ha#(2)

Broad:

pi, pɹi(2), biʃ, fiɹ, vi(3), vɹi, tik, ti, tɹiʲ, tɹi, di, tʃi, tʃi, ni, nis, ri, ri, Өi, stui, si(3), split, zi(2), ɹi(4), ɹiz, ɹis, li(2), ki, wiʃ,
 u#, um, pu, blu, buʋ, muʃ, flu, fɹuʃ, flu, fuʲ, vu, tu, tʃud, su, skuf, ʃun, lu(3), lumf, gup, wu(4), wuf, wum,
 ɪn, ɪm, ɪs, pɪp, mɪtʰ, flɪʃ, fɪʃ, fɪ, tɪp, tɪm, dɪ, dis, nɪŋ, ɹɪŋ, ɹɪk, stɪk, swɪf, spɹɪn, swɪtʰ, zwɪf, zɪks, zɪ, zɪŋ, ʃɪs, ɹɪʃ, ɹɪn, lɪsp, klɪn, kɪ, ɡɪʃ,
 wɪ(3), wɪs,
 pjʊɹ, flʊʃ, hu,
 fe, dʒe, le(3), kle,
 o(2), pɹo, mɹo, to, tʃo, swov, ʃo, zo, woʲtʰd, ho,
 ə, əs(2), pə(2), bə, blə, mə, fə, vənʒ, vən, tən, tən(2), tə, nə(2), rə, rə#, rən, Өə, sə, sən, zən, zə, ɹə, lə(2), kən, kə(5), kə, gə, wə, hə,
 mə, və, tə, sə(2), fə, jə, wə,
 ɛ, ɛs, bleʃ, fe(2), tɛ, nɛ, weʃ, hɛ,
 fɹɹɹm, lɹm, ɡɹɹ,
 fɔɹ, vɔ, tɔ, lɔɹ, lɔŋ, ɡɔɹn, wɔɹt,
 bæ, mə(2), fæ, tʌən, snæ, sæ, slæ, zæn, læn, læ, kæ, gæ,
 a(2) bɹas, ma(2), fa, ta, twas, ra, sa, ɹat, la(2), ka, wa,
 a, az, pa, maɹ, fan, fa, vaɹ, ta, tak, daɹ, nan, swaf, skamp, zan, ɹa, laf, la, laʲtʰ, ja, jan, kla, ka, kwa, wa(4), ha(2)

Supra-Segments: Whole Words

Whole Word Total per Word Length

Whole Monosyllables:

fyoul [fʲuʷtʰ], boov [buv], froosh [fɹuʷʃ], swahsh [swaʃ], flihsh [fliʃ], woosh [wuʷʃ], zwihsh [zwɪʃ], oom [uʷm], twyce [tʰwaʲs], tim [tʰɪm], flush [flʊʃ], beesh [biʃ], floo [fluʷ], spleel [spliʲtʰ], blesh [bleʃ], pip [pʰɪp], loomf [luʷmf], wowld [woʷtʰd], swill [swɪtʰ], ziks [zɪks], bryce [bɹaʲs], reese [ɹiʲs], swove [swoʷv], mrow [mɹoʷ], skahmp [skamp], skoof [skuʷf], whoom [wʰuʷm]

Whole Bisyllables:

KEEzee ['k^hiː·ziː], STREEzee ['stɹiː·ziː], LAYlye ['leː·laː], SYtun ['saː·t^həŋ], TAHcho ['ta·tʃo], WAHbuh ['wa·bə], FRUHMpul ['fɹʌm·pʰ], REEchee ['ɹi·tʃi], KATik ['k^hæ·ɾɪk], Evunz ['ɛ·vəŋz], POOteek ['p^huː·tiːk], OHkuhn ['oː·kəŋ], LAHFtoo ['laf·tuː], GRUHsuhn ['gɹʌ·səŋ], WIHshur ['wɪ·ʃə], KLAYzahn ['k^hleː·zan], FAYlee ['feː·liː], PYURin ['p^hjʊɹ·ɪn], AYvree ['aː·vɹiː], WOOyah ['wuː·ja], WAHpee ['wa·piː], SWIFtur ['swɪf·tə], GAThee ['gæ·θiː], MARish ['mæ·ɹɪʃ], LUMdahr ['lʌm·dɑ], WIStran ['wɪs·tɹæn], REEkah ['ri·ka], GOOPtuhn ['guːp·təŋ], VOOhah ['vuː·hɑ], TREELful ['t^hɹiːf·fʰ], WOOLoo ['wuː·luː], SOOweesh ['suː·wiːʃ], SEEmuh ['siː·mə], LANmahr ['læn·ma], SASSmill ['sæs·mɪʃ], AHZFah ['az·fa], VEERYe ['vi·raː], SEEtuh ['siː·tə], FEHpul ['fe·pʰ], KILLisp ['k^hɪ·lɪsp], LOOtun ['luː·təŋ], CHEEow ['tʃiː·əː], WHYneeng ['waː·niŋ], ISSfahn ['ɪs·fan], FLOOgish ['fluː·gɪʃ], WOOdul ['wuː·rʰ], VAHRguh ['vaɹ·gə], WELtoe ['wɛt·toː], WInahn ['wɪ·nan], SPRINtree ['spɹɪn·tɹiː],

forGORN [fɔɹ·'ɡɔːŋ], wahSHOON [wa·'ʃuːn], huhZAN [hə·'zæn], fehNEESE [fe·'niːs], hoeLAHLT [hoː·'laɪt]

Whole Trisyllables:

TORreelore ['tɔː·ɹiː·lɔɹ], SNAvuhrpaw ['snæ·və·p^hɑ], SLAZihfy ['slæ·zi·faː], LAWureez ['læ·wə·ɹiːz], JAYdumpree ['dʒeː·ɾəŋ·p^hɹiː], LAHZuhnfeer ['la·zəŋ·fiːɹ], KLINsurrite ['klɪn·sə·ɹaːt], WOOzhuhree ['wuː·zə·ɹiː], WIHnuhlong ['wɪ·nə·lɔŋ], KAHluhpree ['k^hɑ·lə·p^hɹiː], HUDeewort ['hʊ·riː·wɔɹt],

kuhlDIHfish [k^hɪ·'di·fɪʃ], yahnBEARin [jan·'bæ·ɹɪn], kuhMAstik [kə·'mæ·stɪk], kuhNESSur [kə·'nɛ·sə], ahWAHha [a·'wa·hɑ], kuhLOOuh [kə·'luː·wə], teeTAIRuh [t^hiː·'tɛ·ɹə], murDEEenuh [mə·'diː·nə], kuhTAHmoosh [kə·'t^hɑ·muːʃ], kwahLAYshis [kwa·'leː·ʃɪs], uhLYEyr [ə·'laː·jə], bluhTAHksee [blə·'t^hak·siː],

ozhoLEE [o·zɔ·'li], blooveeYES [bluː·viː·'ɛs], myklahOO [maː·kla·'uː]

Whole Tetrasyllables:

TIPsuhlayteeng ['t^hɪp·sə·leː·ɾɪŋ],

proFIHthitooode [p^hɔː·'fɪ·θə·t^hjuːːd], rahSHOWveeus [ɹɑ·'foː·viː·əs], luhVOREeus [lə·'vɔ·ɹiː·əs]

Whole Pentasyllables:

imFATuhmyzeeng [ɪm·'fæ·rə·maː·ziŋ],

hevuhnDISkuhnee [hɛ·vəŋ·'dis·kə·niː]

Question ID: V. the feeling experienced by a death-row inmate after being pardoned or exonerated

Segments

Segment Total for Stressed and Unstressed Syllables and Monosyllables according to Syllable Configuration

Monosyllable Onset: #b, #f(2), #t^h, #dʒ, #z, #ʃ, ɹ(2), #j, #g(2), #w(5), #hMonosyllable Nucleus: iⁱ(3), u, u^w, ɪⁱ, ɪ(2), ʊ, ɐ, ɛⁱ, ʌ(3), a^w, a, aː

Monosyllable Coda: p, b, m#(3), m, f, f#(2), t#(3), tʃ, s#(2), z#, ʃ#, ɹ, ʔ(2), ʔ#(2), k, h#(2)

First Syllable Segment Stressed Onset: #p^h(3), p(3), #b(3), #m(3), m, #f(3), #v(2), #t^h(3), #d(2), #n(2), #θ, #s(3), #z(2), #ʃ, ɹ(7), #ɹ(2), l(6), #l(2), #j(3), #k^h(3), #g(6), #w(4), w, #h(2)**First Syllable Segment Stressed Nucleus:** iⁱ(6), u^w, ɪ(14), eⁱ, o^w, #ə, ɛ(2), #ɛ, ʌ, æ(11), #æ(2), #aⁱ, aⁱ, a^w(3), a(10), #a(7)**First Syllable Segment Stressed Coda:** m(2), f, d^ɹ, n(8), s(2), ʃ, ɹ(2), ʔ(4), k(4)First Syllable Segment Unstressed Onset: #p^h(2), #p, #m, #f(3), #v, #t, #d(2), #dʒ(2), #r, #s, #z, #ɹ(2), ɹ, l(2), #k^h, #k(3), #wFirst Syllable Segment Unstressed Nucleus: iⁱ(2), #iⁱ, u^w, #u^w, ɪ(3), #ɪ, e, ə(2), ə(6), #ə, ɛ, #ɛ(3), ɔ, #æ, æ(5), #aⁱ, a, #a(2)

First Syllable Segment Unstressed Coda: m(2), n, s(2), ɹ, ʔ, k(4), g

Second Syllable Segment Stressed Onset: p, p^h(2), b(3), f, v, t(4), t^h, d, n(3), s(6), z(2), ɹ(2), l(4), j(2), k^h(2), g(2), h**Second Syllable Segment Stressed Nucleus:** iⁱ, i, u^w(3), u^w#, ɪ(3), ʊ, o^w, ɛ(5), ʌ, ɔ(2), æ(8), aː^h**Second Syllable Segment Stressed Coda:** m, t#, t^ɹ#, n#(2), n(2), s#, z, ʃ(2), ʔ(2), ʔ#(2), k#, k, ɳ

Second Syllable Segment Unstressed Onset: p(2), b(6), m(3), f(7), t(7), d(3), dʒ, n(5), r(2), θ, ð, s(13), z(2), ʃ, ɹ(5), l(7), j, k(3), g(3), w(4)

Second Syllable Segment Unstressed Nucleus: iⁱ#, i#, iⁱ(2), u^w, ɪ(9), o^w#, o^w, ʔ(3), ʔ#, ə#(5), ə#(4), ə##, ə(13), ə(7), ə#, ɛ(3), aⁱ#, a(5), a#(2)

Second Syllable Segment Unstressed Coda: p, f#, t#(2), d#(5), n#(3), n(2), s#(4), ʃ#(2), ɹ, g#

Third Syllable Segment Stressed Onset: f(2), n, ɹ, l, k^h, w**Third Syllable Segment Stressed Nucleus:** iⁱ(2), u^w, ʊ, eⁱ, a**Third Syllable Segment Stressed Coda:** ʃ, ʔ#

Third Syllable Segment Unstressed Onset: p, b(2), m(4), f, t(8), d, tʃ, dʒ, n(3), θ, s(4), ʃ(2), ɹ(6), l, j, g(3), w

Third Syllable Segment Unstressed Nucleus: iⁱ#, iⁱ(2), u^w, u^w#, ɪ(8), eⁱ#, o^w#, ə#(4), ə#, ʔ#(2), ə#, ə(5), ə, ə#, ɛ, ɔ, ɔⁱ, æ#, a, aⁱ, a^w#, a, a#Third Syllable Segment Unstressed Coda: t#(3), d#, d^ɹ#, n#, n, s#(4), z#, ʃ, ʔ#, k#(2), k, k^ɹ#**Fourth Syllable Segment Stressed Onset:** n, l**Fourth Syllable Segment Stressed Nucleus:** eⁱ(2)**Fourth Syllable Segment Stressed Coda:**

Fourth Syllable Segment Unstressed Onset: m(2), t, ʃ(2), ɹ(2), l, g

Fourth Syllable Segment Unstressed Nucleus: iⁱ#, ɪ, ə(3), ə#, ə##, aⁱ(2), a#

Fourth Syllable Segment Unstressed Coda: t#(2), n#, n, s#(3)

Fifth Syllable Segment Stressed Onset:**Fifth Syllable Segment Stressed Nucleus:****Fifth Syllable Segment Stressed Coda:**

Fifth Syllable Segment Unstressed Onset: ʃ(2)

Fifth Syllable Segment Unstressed Nucleus: ə#(2)

Fifth Syllable Segment Unstressed Coda:

Segment Total for Stressed and Unstressed Onsets and Codas

Stressed Onset: #p^h(3), p(4), p^h(2), b(3), #b(3), #m(3), m, #f(3), f(3), #v(2), v, #t^h(3), t(4), #d(2), d, #n(2), n(5), #θ, #s(3), s(6), #z(2), z(2), #ʃ, ɹ(10), #ɹ(2), l(12), #l(2), #j(3), j(2), #k^h(3), k^h(3), #g(6), g(2), #w(4), w(2), #h(2), h**Stressed Coda:** m(3), f, t#, t^ɹ#, d^ɹ, n#(2), n(10), s(2), s#, z, ʃ(4), ɹ(2), ʔ(6), ʔ#(3), k#, k(5), ɳUnstressed Onset: #p^h(2), #p, p(3), b(8), #m, m(9), #f(3), f(8), #v, #t, t(16), #d(2), d(4), tʃ, #dʒ(2), dʒ(2), n(8), #r, r(2), θ(2), ð, #s, s(17), #z, z(2), ʃ(7), #ɹ(2), ɹ(14), l(11), j(2), #k^h, #k(3), k(3), g(7), #w, w(5)Unstressed Coda: p, m(2), f#, t#(7), d#(6), d^ɹ#, n(3), n#(5), n(2), s(2), s#(11), z#, ʃ, ʃ#(2), ɹ(2), ʔ, ʔ#, k#(2), k(5), k^ɹ#, g, g#

Segment Total for Onsets and Codas

Onset: #p^h(5), #p, p(7), p^h(2), b(11), #b(4), #m(4), m(10), #f(8), f(11), #v(3), v, #t^h(4), #t, t(20), #d(4), d(5), tʃ, #dʒ(3), dʒ(2), #n(2), n(13), #r, r(2), #θ, θ(2), ð, #s(4), s(23), #z(4), z(4), #ʃ(2), ʃ(7), ʒ(26), #ɹ(4), l(23), #l(2), #j(4), j(4), #k^h(4), #k(3), k(3), k^h(3), #g(8), g(9), #w(10), w(7), #h(3), h

Coda: p(2), b, m(6), m#(3), f(2), f#(3), t#(11), t^h#, d^h, d#(6), d^h#, tʃ, n(3), n#(7), n(12), s(4), s#(14), z, z#(2), ʃ(5), ʃ#(3), ɹ(5), t(9), t#(6), k#(3), k(11), k^h#, g, g#, ɳ, h#(2)

Segment Total for Stressed and Unstressed Syllables and Monosyllables

Monosyllable Segment: p, b, #b, m#(3), m, #f(2), f, f#(2), #t^h, t#(3), tʃ, #dʒ, s#(2), #z, z#, ʃ#, #ʃ, ɹ(3), t(2), t#(2), #j, k, #g(2), #w(5), #h, h#(2)

i^j(3), u, u^w, i^j, i(2), ʊ, ɐ, ɛ^j, ʌ(3), a^w, a, a:

First Syllable Segment Stressed: #p^h(3), p(3), #b(3), #m(3), m(3), f, #f(3), #v(2), #t^h(3), #d(2), d^h, #n(2), n(8), #θ, #s(3), s(2), #z(2), #ʃ, ʃ, ɹ(9), #ɹ(2), l(6), #l(2), t(4), #j(3), #k^h(3), k(4), #g(6), #w(4), w, #h(2)

i^j(6), u^w, i(14), e^j, o^w, #ə, ɛ(2), #ɛ, ʌ, æ(11), #æ(2), #a^j, a^j, a^w(3), a(10), #a(7)

First Syllable Segment Unstressed: #p^h(2), #p, #m, m(2), #f(3), #v, #t, #d(2), #dʒ(2), n, #r, #s, s(2), #z, #ɹ(2), ɹ(2), l(2), t, #k^h, k(4), #k(3), g, #w

i^j(2), #i^j, u^w, #u^w, i(3), #i, e, ə(2), ə(6), #ə, ɛ, #ɛ(3), ʊ, #æ, æ(5), #a^j, a, #a(2)

Second Syllable Segment Stressed: p, p^h(2), b(3), m, f, v, t(4), t^h, t^h#, t^h#, d, n(5), n#(2), s(6), s#, z(3), ʃ(2), ɹ(2), l(4), t(2), t#(2), j(2), k#, k, k^h(2), g(2), ɳ, h

i^j, i, u^w(3), u^w#, i(3), ʊ, o^w, ɛ(5), ʌ, ɔ(2), æ(8), a:^h

Second Syllable Segment Unstressed: p(3), b(6), m(3), əm#(7), f#, t#(2), t(7), d(3), d#(5), dʒ, n#(3), n(7), ən#(5), ən(4), r(2), θ, ð, s(13), s#(4), z(2), ʃ, ʃ#(2), ɹ(6), l(7), ɹ(3), ɹ(3), j, k(3), g(3), g#, w(4)

i^j#(7), i#, i^j(2), u^w, i(9), o^w#(2), o^w, ə(13), ə(7), ə#, ɛ(3), a^j#, a(5), a#(2)

Third Syllable Segment Stressed: f(2), n, ʃ, l, t#, k^h, w

i^j(2), u^w, ʊ, e^j, a

Third Syllable Segment Unstressed: p, b(2), m(4), f, t(8), t#(3), d#, d^h#, d, tʃ, dʒ, n(4), n#, ən#(4), ən, θ, s(4), s#(4), z#, ʃ(3), ɹ(6), l, t#, ɹ(2), j, k#(2), k, k^h#, g(3), w

i^j#, i^j(2), u^w, u^w#, i(8), e^j#(2), o^w#, ə#, ə(5), ə, ə#, ɛ, ɔ, ɔ^j, æ#, a, a^j, a^w#, a, a#

Fourth Syllable Segment Stressed: n, l

e^j(2)

Fourth Syllable Segment Unstressed: m(2), t, t#(2), n#, n, ən#, s#(3), ʃ(2), ɹ(2), l, g

i^j#, i, ə(3), ə#, a^j(2), a#

Fifth Syllable Segment Stressed:

Fifth Syllable Segment Unstressed: ən#(2), ʃ(2)

Segment Total by Syllable

First Syllable Segment: #p^h(5), p(3), #p, #b(3), #m(4), m(5), f, #f(6), #v(3), #t^h(3), #t, #d(4), d^h, #dʒ(2), #n(2), n(9), #r, #θ, #s(4), s(4), #z(3), #ʃ, ʃ, ɹ(11), #ɹ(4), l(8), #l(2), t(5), #j(3), #k^h(4), #k(3), k(8), #g(6), g, #w(5), w, #h(2)

i^j(8), #i^j, u^w(2), #u^w, i(17), #i, e^j, e, o^w, #ə, ə(2), ə(6), #ə, ɛ(3), #ɛ(4), ʌ, ɔ, æ(16), #æ(3), #a^j(2), a^j, a^w(3), a(11), #a(9)

Second Syllable Segment: p(4), p^h(2), b(9), m(4), ɱ#, f(8), f#, v, t(11), t^h, t#(3), ṭ#, d(4), d#(5), dʒ, n(12), n#(5), ɳ#(5), ɳ(4), r(2), θ, ð, s(19), s#(5), z(5), ʃ(3), ʒ#(2), ʒ(8), l(11), ʎ(2), ʎ#(2), ʎ̥(3), ʎ̥#, j(3), k#, k(4), k^h(2), g(5), g#, ŋ, w(4), h
i^j#(7), i#, i^j(3), i, u^w(4), u^w#, ɪ(12), ʊ, o^w#(2), o^w(2), ə(13), ə̣(7), ə̣#, ε(8), ʌ, ɔ(2), æ(8), aⁱ#, a(5), a#(2), a:^h

Third syllable Segment: p, b(2), m(4), f(3), t(8), t#(3), d#, ḍ#, d, tʃ, dʒ, n(5), n#, ɳ#(4), ɳ, θ, s(4), s#(4), z#, ʃ(4), ʒ(7), ʎ(2), ʎ#, ʎ̥#(2), j, k#(2), k, ḳ#, k^h, g(3), w(2)

i^j#, i^j(4), u^w(2), u^w#, ɪ(8), ʊ, eⁱ#(2), e^j, o^w#, ə#, ə(5), ə̣, ə̣#, ε, ɔ, ɔ^j, æ#, a, aⁱ, a^w#, a(2), a#

Fourth Syllable Segment: m(2), t, t#(2), n#, n(2), ɳ#, s#(3), ʃ(2), ʒ(2), l(2), g

i^j#, eⁱ(2), ɪ, ə(3), ə#, aⁱ(2), a#

Fifth Syllable Segment: ɳ#(2), ʃ(2)

Segment Stressed and Unstressed Total

Stressed Segment: #p^h(3), p^h(2), p(4), b(3), #b(3), #m(3), m(4), f(4), #f(3), #v(2), v, #t^h(3), t(4), t^h, t#, ṭ#, d, #d(2), ḍ, #n(2), n(15), n#(2), #θ, #s(3), s#, s(8), #z(2), z(3), #ʃ, ʃ(4), ʒ(12), #ʒ(2), l(12), #l(2), ʎ(6), ʎ#, #j(3), j(2), k#, #k^h(3), k^h(3), k(5), #g(6), g(2), ŋ, #w(4), w(2), h, #h(2)

i^j(9), i, u^w(5), u^w#, ɪ(17), ʊ(2), eⁱ(4), o^w(2), #ə̣, ε(7), #ε, ʌ(2), ɔ(2), æ(19), #æ(2), #aⁱ, aⁱ, a^w(3), a(11), #a(7), a:^h

Unstressed Segment: #p^h(2), #p, p(4), b(8), #m, m(11), ɱ#, f(8), f#, #f(3), #v, #t, t#(7), t(16), d(4), d#(6), ḍ#, #d(2), tʃ, #dʒ(2), dʒ(2), n#(5), n(13), ɳ#(12), ɳ(5), #r, r(2), θ(2), ð, s(19), s#(11), #s, z(2), #z, z#, ʃ(8), ʒ#(2), ʒ(16), #ʒ(2), l(11), ʎ̥(3), ʎ̥#, ʎ̥#(3), ʎ̥, j(2), #k^h, #k(3), k#(2), k(8), ḳ#, g(8), g#, #w w(5)

i^j#(9), i#, i^j(6), #i^j, u^w(3), #u^w, u^w#, ɪ(21), #ɪ, eⁱ#(2), e, o^w#(3), o^w, ə#, #ə, ə(27), ə̣(10), ə̣#(2), ε(5), #ε(3), ɔ(2), ɔ^j #æ, æ#, æ(5), a, aⁱ#, aⁱ(3), #aⁱ, a^w#, a(7), #a(2), a#(4)

Segment Total (absolute)

Narrow: #p^h(5), p^h(2), #p, p(9), b(12), #b(4), #m(4), m#(3), m(16), ɱ#, f(13), f#(3), #f(8), #v(3), v, #t, t#(11), #t^h(4), ṭ#, t(20), t^h, d(5), d#(6), ḍ#, ḍ, #d(4), tʃ(2), #dʒ(3), dʒ(2), #n(2), n#(7), n(28), ɳ#(12), ɳ(5), #r, r(2), θ(2), #θ, ð, s(27), s#(14), #s(4), z(5), #z(4), z#(2), ʃ(12), #ʃ(2), ʒ#(3), ʒ(31), #ʒ(4), #l(2), l(23), ʎ̥(3), ʎ̥#(4), ʎ̥#(3), ʎ̥(9), j(4), #j(4), #k^h(4), k^h(3), #k(3), k#(3), k(14), ḳ#, #g(8), g(10), g#, ŋ, #w(10) w(7), h, #h(3), h#(2)

i^j#(9), i#, i, i^j(18), #i^j, u^w(9), #u^w, u^w#(2), u, ɪ(40), ɪ^j, #ɪ, ʊ(3), eⁱ#(2), eⁱ(4), e, ə, o^w#(3), o^w(3), ə#(2), #ə, ə(27), ə̣(10), ə̣#(2), #ə̣, ε(12), #ε(4), ε^j, ʌ(5), ɔ(4), ɔ^j #æ(3), æ#, æ(24), a, aⁱ#, aⁱ(4), #aⁱ(2), a^w#, a^w(4), a(19), #a(9), a#(4), a:^h

Broad: p(17), b(16), m(24), f(24), v(4), t(38), d(17), tʃ(2), dʒ(5), n(54), r, r(2), θ(3), ð, s(45), z(11), ʃ(17), ʒ(35), l(25), ʎ̥(19), j(8), k(28), g(19), ŋ, w(17), h(6)

i(30), u(13), ɪ(42), ʊ(3), e(7), ə, ə(6), ə(30), ə̣(13), ε(17), ʌ(5), ɔ(5), æ(28), a(13), a(34)

Supra-Segments: Consonant Clusters

Consonant Cluster Total for Stressed and Unstressed Syllables and Monosyllables according to Syllable Configuration

Monosyllable Consonant Cluster Onset (all entries are word initial): #gɹ(3)

Monosyllable Consonant Cluster Coda (all entries are word final): pt#, bz#, mf#, fs#, tʃt#, ɹf#, ʎt#, ʎm#, ks#

First Syllable Consonant Cluster Stressed Onset (all entries are word initial): #bw, #bl, #ml, #fɹ, #fl, #vl, #t^hɹ, #spl, #sp, #fm, #k^hɹ, #gɹ(2)

First Syllable Consonant Cluster Stressed Coda:

First Syllable Consonant Cluster Unstressed Onset (all entries are word initial): #pɹ, #fɹ, #fl, #vl

First Syllable Consonant Cluster Unstressed Coda: ks

Second Syllable Consonant Cluster Stressed Onset: p^hl, fl, st(2), sn, sp, stɹ, gɹ, k^hj

Second Syllable Consonant Cluster Stressed Coda: ʃt#

Second Syllable Consonant Cluster Unstressed Onset: bɹ, fl, θɹ, sn, st(2), kɹ

Second Syllable Consonant Cluster Unstressed Coda: nt#, ɲd#, ʎd#

Third Syllable Consonant Cluster Stressed Onset: fl, k^hɹ

Third Syllable Consonant Cluster Stressed Coda:

Third Syllable Consonant Cluster Unstressed Onset: st(3), gw

Third Syllable Consonant Cluster Unstressed Coda: ɲt#, ʃt#, ks#

Fourth Syllable Consonant Cluster Stressed Onset:

Fourth Syllable Consonant Cluster Stressed Coda:

Fourth Syllable Consonant Cluster Unstressed Onset:

Fourth Syllable Consonant Cluster Unstressed Coda: nt#

Fifth Syllable Consonant Cluster Stressed Onset:

Fifth Syllable Consonant Cluster Stressed Coda:

Fifth Syllable Consonant Cluster Unstressed Onset:

Fifth Syllable Consonant Cluster Unstressed Coda:

Consonant Cluster Total for Stressed and Unstressed Onsets and Codas

Stressed Onset: p^hl, #bw, #bl, #ml, #fɹ, #fl, fl(2), #vl, #t^hɹ, #spl, stɹ, #sp, sp, st(2), sn, #fm, #k^hɹ, k^hɹ, k^hj, #gɹ(2), gɹ,

Stressed Coda: ʃt#

Unstressed Onset: #pɹ, bɹ, #fɹ, #fl, fl, #vl, ʊɹ, sn, st(5), kɹ, gw

Unstressed Coda: nt#(3), ɲd#, ʃt#, ʎd#, ks, ks#

Consonant Cluster Total for Onsets and Codas

Onset: p^hl, #pɹ, bɹ, #bw, #bl, #ml, #fɹ(2), #fl(2), fl(3), #vl(2), #t^hɹ, ʊɹ, #spl, stɹ, #sp, sp, st(7), sn(2), #fm, #k^hɹ, k^hɹ, k^hj, #gɹ(5), gɹ, gw

Coda: pt#, bz#, mf#, fs#, ʃt#, nt#(3), ɲd#, ʃt#(2), ɹf#, tɹ#, ʎm#, ʎd#, ks, ks#(2)

Consonant Cluster Total for Stressed and Unstressed Syllables and Monosyllables

Monosyllable Consonant Cluster: pt#, bz#, mf#, fs#, ʃt#, ɹf#, tɹ#, ʎm#, ks#, #gɹ(3)

First Syllable Consonant Cluster Stressed: #bw, #bl, #ml, #fɹ, #fl, #vl, #t^hɹ, #spl, #sp, #fm, #k^hɹ, #gɹ(2)

First Syllable Consonant Cluster Unstressed: #pɹ, #fɹ, #fl, #vl, ks

Second Syllable Consonant Cluster Stressed: p^hl, fl, st(2), sn, sp, stɹ, ʃt#, gɹ, k^hj

Second Syllable Consonant Cluster Unstressed: bɹ, fl, ɲt#, nd#, ʊɹ, sn, st(2), ʎd#, kɹ

Third Syllable Consonant Cluster Stressed: fl, k^hɹ

Third Syllable Consonant Cluster Unstressed: ɲt#, st(3), ʃt#, ks#, gw

Fourth Syllable Consonant Cluster Stressed:

Fourth Syllable Consonant Cluster Unstressed: nt#

Fifth Syllable Consonant Cluster Stressed:

Fifth Syllable Consonant Cluster Unstressed:

Consonant Cluster Total per Syllable

First Syllable Consonant Cluster: #pɹ, #bw, #bl, #ml, #fɹ(2), #fl(2), #vl(2), #t^hɹ, #spl, #sp, #fm, #k^hɹ, ks, #gɹ(2)

Second Syllable Consonant Cluster: p^hl, bɹ, fl(2), ɲt#, nd#, ʊɹ, st(2), sn(2), sp, st(2), stɹ, ʃt#, ʎd#, kɹ, k^hj, gɹ

Third Syllable Consonant Cluster: fl, ɲt#, st(3), ʃt#, ks#, k^hɹ, gw

Fourth Syllable Consonant Cluster: nt#

Fifth Syllable Consonant Cluster:

Consonant Cluster Stressed and Unstressed Total

Consonant Cluster Stressed: p^hl, #bw, #bl, #ml, #fɹ, #fl, fl(2), #vl, #t^hɹ, #spl, #sp, st(2), sn, sp, stɹ, ʃt#, #ʃm, #k^hɹ, k^hɹ, k^hj, #gɹ(2), gɹ

Consonant Cluster Unstressed: #pɹ, bɹ, #fɹ, #fl, fl, #vl, nt#, ɳt#(2), nd#, Θɹ, sn, st(5), ʃt#, ɹd#, ks, ks#, kɹ, gw

Consonant Cluster Total (absolute)

Narrow: p^hl, #pɹ, pt#, #bw, #bl, bɹ, bz#, mf#, #ml, #fɹ(2), fs#, #fl(2), fl(3), #vl(2), #t^hɹ, tʃt#, nt#, ɳt#(2), nd#, Θɹ, #spl, #sp, st(7), sn(2), sp, stɹ, ʃt#(2), #ʃm, ɹf#, ɹt#, ɹm#, ɹd#, #k^hɹ, k^hɹ, k^hj, ks, ks#(2), kɹ, gw, #gɹ(5), gɹ

Broad: pl, pɹ, pt, bw, bl, bɹ, bz, mf, ml, fɹ(2), fs, fl(5), vl(2), tɹ, tʃt, nt(3), nd, Θɹ, spl, sp(2), st(7), sn(2), stɹ, ʃt(2), ʃm, ɹf, ɹt, ɹm, ɹd, kɹ(3), kj, ks(3), gw, gɹ(6)

Supra-Segments: Whole Syllables

Whole Syllable Total for Stressed and Unstressed Syllables and Monosyllables

Monosyllable Whole Syllable:

#jiⁱfs#, #wiⁱm#, #wiⁱɹ#,
#t^hu^wɹt#, #hum#,
#fɹɹm#, #dʒɹⁱbz#, #gɹɹf#,
#wuɹf#,
#fəmf#,
#gɹɹɹt#,
#bɹks#, #ʃɹpt#, #wɹh#,
#zɹ^wtʃt#,
#wɹ:h#, #hɹɹf#

First Syllable Whole Syllable Stressed (all entries are word initial):

#p^hiⁱd^ɹ, #miⁱ, #t^hiⁱ, #ɹiⁱ, #jiⁱɹ, #k^hiⁱ,
#wu^w,
#bwɹn, #mɹ, #fɹɹm, #dɹn(2), #splɹn, #ɹɹ, #lɹ, #lɹm, #jɹ, #k^hɹɹs, #gɹɹk, #gɹɹ,
#bleⁱ,
#no^w,
#ə,
#ɹk, #vɹ, #gɹɹk,
#flɹ,
#æ(2), #flæ, #vlæɹ, #t^hɹæɹ, #t^hæ, #Θæɹɹ, #spæɹn, #sæ, #zæ, #ʃmæɹk, #k^hæ, #gæ,
#aⁱ, #mla^w, #zaⁱ, #ja^w, #wa^w,
#a(3), #aɹ, #aɹ(2), #p^hɹɹ, #p^hɹ, #baɹ, #na, #gɹɹ, #ga, #waf, #wan, #hɹɹ, #hɹ

First Syllable Whole Syllable Unstressed (all entries are word initial):

#iⁱ, #ɹiⁱ(2),
#u^wm, #tu^w,
#ɹg, #pɹɹ, #fɹ, #dɹs, #wɹɹ,
#re,
#ə, #pə, #fɹə, #dʒə, #zə, #k^hə, #kə,
#p^hə, #sə,
#ɹk(2), #ɹks, #dɹk,
#kɹ,
#æ, #p^hæɹn, #mæ, #flæ, #dʒæm, #kæ,
#aⁱ,
#aɹ, #a, #aɹ, #vɹɹ

Second Syllable Whole Syllable Stressed:

viⁱn, li,
bu^w#, su^wn#, zu^ws#, k^hju^wn#,
p^hɹ, tɹn, stɹɹ,
spuɹ,
stɹo^wk#,

flɛʃ, nɛtʃ, jɛtʃ#, ɡɹɛ, zɛtʃ#,
 hʌt,
 stɔ, ɡɔ,
 pʰlæz, bæ, tʰæm, dæ, næftʃ#, snæ, læ,
 bʌk, kʰaːʰ#

Second Syllable Whole Syllable Unstressed:

bɪʃ#, mɪʃ, fɪʃ#, flɪʃ#, nɪ#, stɪʃ#, lɪʃ(2), lɪʃ, kɪʃ#,
 wuʷfʃ#,
 bɪʃ#, bɪ, mɪntʃ#, fɪsʃ#, sɪnʃ#, stɪɡʃ#, lɪnʃ#, kɪsʃ#, wɪndʃ#,
 ʊɔʷ#, ɡoʷ, woʷ#,
 pə, pəŋ, bə, mə#, fəŋ#, təʃ#, də(2), dəŋ#, dʒə, nə(2), ðəŋdʃ#, səŋʃ(2), səʃdʃ#, səŋʃ#, səʃ, sə, stə, zəŋʃ#, zə, ʃəsʃ#, ɹəʃ#, lə, kəŋ, ɡəŋ,
 bæ, fə(2), tə, rə, rədʃ#, sə, wəʃ#,
 bɪɛtʃ#, nɛsʃ#, snɛdʃ#,
 tɑʃ#,
 fɑ, tɑmʃ#, sɑ, ɹɑp, lɑfʃ#, ʃɑ#, ɡɑ#

Third Syllable Whole Syllable Stressed:

fɪʃʃ#, kʰɪʃʃ,
 fluʷ,
 wʊʃʃ#,
 eʃ,
 nɑ

Third Syllable Whole Syllable Unstressed:

mɪʃ, ɹɪʃ#, ɹɪʃzʃ#,
 tʃuʷ, ɡuʷ#,
 mɪntʃ#, tɪ, nɪkʃ#, stɪdʃ#, ʃɪsʃ#, ɹɪkʃ#, lɪʃ#, ɡwɪʃtʃ#,
 eʃʃ#, ʃeʃʃ#,
 doʷʃ#,
 əsʃ#, pə, bəʃʃ#, məŋʃ#, təŋtʃ#, təŋʃ#, dʒəŋʃ#, nəʃ#, ʊə, stəkʃʃ#, ʃəŋʃ#, ɹə, əʃʃʃ#,
 mə, fəʃʃ#,
 ɹɛksʃ#,
 bɔʃsʃ#, tɔ,
 ɹæʃʃ#,
 stɑʃnʃ#, sɑʃ#, ɡɑʷʃ#,
 tɑʃ#, nɑdʃʃ#

Fourth Syllable Whole Syllable Stressed:

nɛʃʃ, lɛʃʃ

Fourth Syllable Whole Syllable Unstressed:

ɹɪʃʃ#,
 mɪntʃʃ#,
 əʃʃ#, ʃəsʃʃ#, ʃəŋʃʃ#, ɹəsʃʃ#, ɡəsʃʃ#,
 mɑʃʃnʃ#, lɑʃʃtʃʃ#,
 tɑʃʃ#

Fifth Syllable Whole Syllable Stressed:

Fifth Syllable Whole Syllable Unstressed:

ʃəŋʃʃ(2)

Whole Syllable Total per Syllable

First Syllable Whole Syllable (all entries are word initial):

#ɪʃ, #pʰɪʃdʃʃ, #mɪʃ, #tʰɪʃ, #ɹɪʃʃ(3), #ʃɪʃʃ, #kʰɪʃ,
 #uʷm, #tuʷ, #wuʷ,
 #ɹɪɡ, #pɹɪ, #bɹɪn, #mɪ, #fɪ, #fɪm, #dɪs, #dɪn(2), #splɪn, #ɹɪ, #lɪ, #lɪm, #ʃɪ, #kʰɪs, #ɡɹɪk, #ɡɪ, #wɪ,
 #bleʃ, #re,

#no^w,
 #ə, #pə, #fɪə, #dʒə, #zə, #k^hə, #kə,
 #ə, #p^hə, #sə,
 #ɛk(3), #ɛks, #vɛ, #dɛk, #gɪɛk,
 #flʌ,
 #kɔ,
 #æ(3), #p^hæn, #mæ, #flæ(2), #vlæs, #t^hɪæn, #t^hæ, #dʒæm, #θæŋ, #spæn, #sæ, #zæ, #fɪmæk, #k^hæ, #gæ,
 #aⁱ(2), #mla^w, #zaⁱ, #ja^w, #wa^w,
 #a(3), #a, #aɪ, #aɪ, #aɪ(3), #p^haɪ, #p^ha, #baɪ, #vɪa, #na, #gɪa, #ga, #waf, #wan, #haɪ, #ha

Second Syllable Whole Syllable:

bɪⁱ#, mɪⁱ, fɪⁱ#, flɪⁱ#, vɪⁱn, nɪ#, stɪⁱ#, lɪⁱ#, li, kɪⁱ#,
 bu^w#, su^wn#, zu^ws#, k^hju^wn#, wu^wf#,
 p^hɪ, bɪf#, bɪ, mɪnt#, fɪs#, tɪn, sɪn#, stɪŋ#, stɪŋ, lɪn#, kɪs#, wind#,
 spuɪ,
 stɪo^wk#, θɪo^w#, go^w, wo^w#,
 pə, pəŋ, bə, mə#, fəŋ#, tə#, də(2), dəŋ#, dʒə, nə(2), ðənd#, səŋ#(2), səɪd#, səŋ#, sə, sə, stə, zəŋ#, zə, fəs#, ɪə#, lə, kəŋ, gəŋ,
 bə, fə(2), tə, rə, rəɪd#, sə, wə#,
 bɪɛt#, flɛf, nɛs#, nɛt#, snɛd^h#, zɛt#, jɛt^h#, gɪɛ,
 hɪt,
 stɔ, gɔ,
 p^hlæz, bæ, t^hæm, dæ, næft#, snæ, læ,
 tɪⁱ#,
 bək, fa, tam#, sa, ɪap, laf#, ja#, k^ha:ɪ#, ga#

Third Syllable Whole Syllable:

mɪⁱ, fɪⁱ#, ɪɪⁱ#, ɪɪⁱz#, k^hɪɪⁱ,
 flu^w, tɪu^w, gu^w#,
 mɪnt#, tɪ, nɪk#, stɪd#, fɪs#, ɪk#, lɪt#, gwɪft#,
 wɪf#,
 eⁱ#, eⁱ, jeⁱ#,
 do^w#,
 əs#, pə, bə#, məŋ#, tənt#, təŋ#, dʒəŋ#, nə#, θə, stək^h#, fəŋ#, ɪə, ɪt#,
 mə, fə#,
 ɪɛks#,
 bɔⁱs#, tɔ,
 ɪæ#,
 stɪɪn#, sa#, ga^w#,
 tɪ#, na, nad^h#,

Fourth Syllable Whole Syllable:

ɪɪⁱ#,
 mɪnt#,
 neⁱ, leⁱ,
 ə#, fəs#, fəŋ#, ɪəs#, gəs#,
 mɪɪn#, la^t#,
 tɪ#

Fifth Syllable Whole Syllable: fəŋ#(2)

Whole Syllable Stressed and Unstressed Total

Whole Syllable Stressed:

#p^hɪd^h, #mɪⁱ, fɪⁱ#, vɪⁱn, #t^hɪⁱ, #ɪɪⁱ, li, #jɪⁱ, #k^hɪⁱ, k^hɪɪⁱ,
 bu^w#, flu^w, su^wn#, zu^ws#, k^hju^wn#, #wu^w,
 p^hɪ, #bɪwɪn, #mɪ, #fɪɪm, tɪn, #dɪn(2), #splɪn, stɪŋ, #ɪɪ, #lɪ, #lɪm, #jɪ, #k^hɪɪs, #gɪɪk, #gɪ,
 spuɪ, wɪf#,
 eⁱ, #bleⁱ, neⁱ, leⁱ,
 #no^w, stɪo^wk#,

#ə,
 #ek, fleʃ, #vɛ, nɛtʃ, zɛtʃ, jɛtʃ, ɡɹɛ, #ɡɹɛk,
 #flʌ, hʌt,
 stɔ, ɡɔ,
 #æ(2), pʰlæz, bæ, #flæ, #vlæs, tʰæm, #tʰjæn, #tʰæ, dæ, næftʃ, #θæŋ, #spæn, snæ, #sæ, #zæ, #ʃmæk, læ, #kʰæ, #gæ,
 #aʲ, #mlaʷ, #zaʲ, #jaʷ, #waʷ,
 #a(3), #af, #aʔ(2), #pʰaʲ, #pʰa, #baʔ, bak, #na, na, kʰaːʰ#, #ɡɹa, #ga, #waf, #wan, #haʲ, #ha

Whole Syllable Unstressed:

#iʲ, biʲ#, miʲ(2), fiʲ#, fliʲ#, niʲ#, stiʲ#, #ɹiʲ(2), ɹiʲ#(2), ɹiʲz#, liʲ#(2), liʲ, kɹiʲ#,
 #uʷm, #tuʷ, tʃuʷ, ɡuʷ#, wuʷfʃ#,
 #ɪɡ, #pɹɪ, biʃ#, bi, mintʃ(3), #fi, fisʃ, ti, #dis, nɪkʃ, sɪnʃ, stɪɡ#, stɪdʃ, ʃɪsʃ, ɹɪkʃ, liʔ#, liɪnʃ, kɪsʃ, ɡwɪftʃ, wɪndʃ, #wɪ,
 eʲ#, #re, jeʲ#,
 doʷ#, θɹoʷ#, ɡoʷ, woʷ#,
 #ə, ə#, əsʃ, #pə, pə(2), pʰə, bʰt, bʰtʃ, mə#, mʰə#, fʰə#, #fɹə, tʰtʃ, tʰntʃ, tʰə#, də(2), dʰə#, dʒə, #dʒə, dʒʰə#, nə(2), nə#, θə, ʔʰndʃ, sʰə#(2),
 sʰdʃ, sʰmʃ, sʰt, sə, stə, stəkʰ#, zʰə#, zə, #zə, ʃəsʃ(2) ʃə#(4), ɹə#, ɹə, ɹəsʃ, lə, ʔʃ#, kʰə#, #kə, ɡʰə, ɡəsʃ,
 #pʰə, bə, mə, fə#, fə(2), tə, rə, rədʃ, sə, #sə, wə#,
 #ɛk(2), #ɛks, bɹɛtʃ, #dɛk, nɛsʃ, snɛdʰ#, ɹɛksʃ,
 bɔʲsʃ, tɔ, #kɔ,
 #æ, #pʰæn, #mæ, #flæ, #dʒæm, ɹæ#, #kæ,
 #aʲ, maʲnʃ, taʲ#, sa#, staʲnʃ, laʲtʃ, ɡaʷ#,
 #aʔ, #a, #aʲ, fa, #vla, taʃ(2), tamʃ, nadʰ#, sa, ɹap, lafʃ, jaʃ, ɡaʃ

Whole Syllable Total (absolute)

Narrow:

#iʲ, #pʰiʲdʰ, biʲ#, #miʲ, miʲ(2), fiʲ#, fiʲtʃ, fliʲ#, viʲn, #tʰiʲ, niʲ#, stiʲ#, #ɹiʲ(3), ɹiʲ#(2), ɹiʲz#, liʲ#(2), liʲ, li, #jiʲfsʃ, #jiʲtʃ, #kʰiʲ, kʰɹiʲ, kɹiʲ#, #wiʲmʃ,
 #wiʲtʃ#,
 #uʷm, buʷ#, fluʷ, #tʰuʷtʃ#, #tuʷ, tʃuʷ, suʷnʃ, zuʷsʃ, kʰjuʷnʃ, ɡuʷ#, wuʷfʃ#, #wuʷ, #humʃ,
 #ɪɡ, #pɹɪ, pʰɪ, #bwɪn, biʃ#, bi, mintʃ(3), #mɪ, #fɹɪm, #fɹɪmʃ, #fi, fisʃ, ti, tɪn, #dɪn(2), #dis, #dʒɪbzʃ, nɪkʃ, sɪnʃ, stɪɡ#, stɪdʃ, #splɪn,
 stɪŋ, ʃɪsʃ, ɹɪkʃ, #ɹɪ, #li, #lɪm, liʔ#, liɪnʃ, #ɹɪ, #kʰɹɪs, kɪsʃ, ɡwɪftʃ, #ɡɹɪk, #ɡɹɪ, #ɡɹɪfʃ, wɪndʃ, #wɪ,
 spuʔ, #wuʃfʃ, wuʃfʃ,
 eʲ, eʲ#, #bleʲ, neʲ, #re, leʲ, jeʲ#,
 #fɛmfʃ,
 doʷ#, #noʷ, θɹoʷ#, stɹoʷkʃ, ɡoʷ, woʷ#,
 #ə, ə#, əsʃ, #pə, pə(2), pʰə, bʰt, bʰtʃ, mə#, mʰə#, fʰə#, #fɹə, tʰtʃ, tʰntʃ, tʰə#, də(2), dʰə#, dʒə, #dʒə, dʒʰə#, nə(2), nə#, θə, ʔʰndʃ, sʰə#(2),
 sʰdʃ, sʰmʃ, sʰt, sə, stə, stəkʰ#, zʰə#, zə, #zə, ʃəsʃ(2) ʃə#(4), ɹə#, ɹə, ɹəsʃ, lə, ʔʃ#, kʰə#, #kə, ɡʰə, ɡəsʃ,
 #ə, #pʰə, bə, mə, fə#, fə(2), tə, rə, rədʃ, sə, #sə, wə#,
 #ɛk(3), #ɛks, bɹɛtʃ, fleʃ, #vɛ, #dɛk, nɛsʃ, nɛtʃ, snɛdʰ#, zɛtʃ, ɹɛksʃ, jɛtʃ, ɡɹɛ, #ɡɹɛk, #ɡɹɛtʃ#,
 #bʌksʃ, #flʌ, #ʃʌptʃ, #wʌhʃ, hʌtʃ,
 bɔʲsʃ, tɔ, stɔ, #kɔ, ɡɔ,
 #æ(3), #pʰæn, pʰlæz, bæ, #mæ, #flæ(2), #vlæs, tʰæm, #tʰjæn, #tʰæ, dæ, #dʒæm, næftʃ, #θæŋ, #spæn, snæ, #sæ, #zæ, #ʃmæk, ɹæ#,
 læ, #kæ, #kʰæ, #gæ,
 #aʲ(2), #mlaʷ, maʲnʃ, taʲ#, sa#, staʲnʃ, #zaʷtʃtʃ#, #zaʲ, laʲtʃ, #jaʷ, ɡaʷ#, #waʷ,
 #af, #aʔ(3), #aʲ, #pʰaʲ, #pʰa, #baʔ, bak, fa, #vla, taʃ(2), tamʃ, nadʰ#, #na, na, sa, ɹap, lafʃ, jaʃ, kʰaːʰ#, #ɡɹa, #ga, ɡaʃ, #waf,
 #wan, #waːhʃ, #haʲ, #haʲfʃ, #h

Broad:

i, pid, bi, mi(3), fi, fiʔ, fli, vin, ti, ni, sti, ɹi(5), ɹiz, li(4), jɪfs, jɪtʃ, ki, kɹi(2), wim, wiʔ,
 um, bu, flu, tuʔt, tu, tʃu, sun, zus, kʲun, ɡu, wuf, wu, hum,
 ɪɡ, pɹɪ, pɪ, bwɪn, biʃ, bi, mint(3), mɪ, fɹɪm, fɹɪmʃ, fi, fis, ti, tɪn, dɪn(2), dɪs, dʒɪbz, nɪk, sɪn, stɪɡ, stɪd, splɪn, stɪŋ, ʃɪs, ɹɪk, ɹɪ, li, lɪm, liʔ, liɪn,
 ɹɪ, kɹɪs, kɪs, ɡwɪft, ɡɹɪk, ɡɹɪ, ɡɹɪf, wɪnd, wɪ,
 spuʔ, wuf(2),
 e(2), ble, ne, re, le, je,
 fɛmf,
 do, no, θɹo, stɹok, ɡo, wo,
 ə(2), əs, pə(3), pʰə, bʰt(2), mə, mʰə, fʰə, fɹə, tʰtʃ, tʰntʃ, tʰə, də(2), dʰə, dʒə(2), dʒʰə, nə(3), θə, ʔʰnd, sʰə(2), sʰdʃ, sʰmʃ, sʰt, sə, stə, stək, zʰə,
 zə(2) ʃəs(2) ʃə(4), ɹə(2), ɹəs, lə, ʔʃ, kʰə, kə(2), ɡʰə, ɡəs,
 ə, pə, bə, mə, fə(3), tə, rə, rəd, sə(2), wə,

ek(3), eks, bɛt, flɛf, vɛ, dɛk, nɛs, nɛt, snɛd, zɛt, ɹɛks, jɛt, gɹɛ, gɹɛk, gɹɛt,
bʌks, flʌ, ʃʌpt, wʌh, hʌt,
bɔs, tɔ, stɔ, kɔ, gɔ,

æ(3), pæn, plæz, bæ, mæ, flæ(2), vlæs, tæm, tɹæn, tæ, dæ, dʒæm, næft, Өæŋ, spæn, snæ, sæ, zæ, ʃmæk, ɹæ, læ,kæ(2), gæ,
a(2), mla, man, ta, sa, stan, zatft, za, lat, ja, ga, wa,
aʃ, aʔ(3), a(4), aɪ, paɪ, pa, baʔ, bak, fa, vla, ta(2), tam, nad, na(2), sa, ɹap, laf, ja, ka, gɹa, ga(2), waf, wan, wah, haɪ, haɪf, ha

Supra-Segments: Whole Words

Whole Word Total per Word Length

Whole Monosyllables:

jibz [dʒɪ^bbz], hoom [hum], wush [wʊʃ], hahrf [haɪf], yeefs [ji^ffs], wuh [wʌh], weem [wiⁱm], waah [wa:h], weel [wi^h], shupt [ʃʌpt],
zoucht [za^wtʃt], buhks [bʌks], grish [gɹɪʃ], film [fɪlm], grail [gɹɛⁱʃ], foomf [fømf], toolt [t^hu^wʔt]

Whole Bisyllables:

GREKsned [ˈgɹɛk·snɛd], GAs tee [ˈgæ·sti^j], FRIMdun [ˈfɹɪm·dʊŋ], SPLINshus [ˈsplɪn·ʃəs], WAHFnes [ˈwaf·nɛs], VLASkis [ˈvlæs·kɪs], NAHnee [ˈna·ni], AHya [ˈa^j·ja], RIBish [ˈɹɪ·bɪʃ], TEEturd [ˈt^hi^j·rə·d], THANkree [ˈӨæŋ·kɹi^j], ALLfuhn [ˈaʔ·fʊŋ], URGah [ˈʌ·gɑ], TRANSin , [ˈt^hɹæn·sɪn]AHSun [ˈa·sʊŋ], ZYElee [ˈza^j·li^j], TAl ee [ˈt^hæ·li^j], SATHund [ˈsæ·ðʊŋd], Awur [ˈæ·wə], GRIKSuhld [ˈgɹɪk·sʊ^hld], MLOUstig [ˈmla^w·stɪg], DENTul [ˈdɪn·tʊ^h], PEEDmint [ˈp^hi^d·mɪnt], HAHfee [ˈha·fi^j], NOwo [ˈno^w·wo^w], AHthrow [ˈa·Өjo^w], MEEbret [ˈmi^j·bɹɛt], DINTahrn [ˈdɪn·tam], YOWlin [ˈja^w·lɪn], BWINzuhn [ˈbwɪn·zʊŋ], AHBultah [ˈa·bʊ^h·ta], WAHNtie [ˈwan·ta^j], WOOflee [ˈwu^w·fli^j], KRISMuh [ˈk^hɪs·mə], LIMfis [ˈlɪm·fɪs], ASHlahf [ˈaʃ·laf], KEERuh [ˈk^hi^j·ɹə], BAHLwind [ˈbaʔ·wɪnd], GIHbee [ˈgɪ·bi^j], SHMAKsum [ˈʃmæk·sʊm], YEELSuhn [ˈji^h·sʊŋ], GAHwoosh [ˈga·wu^wʃ],

purSOON [p^hə·ˈsu^wn], aZOOS [æ·ˈzu^ws], fihNELL [fɪ·ˈnɛʃ], surNASHT [sə·ˈnæft], prikYOUNE [pɹɪ·ˈk^hju^wn], ekSTROKE [ɛk·ˈstɹo^wk],
eeKAH [i^j·ˈk^ha^h], flabOO [flæ·ˈbu^w], wihZEL [wɪ·ˈzɛʃ], aiYET [a^j·ˈjɛt]

Whole Trisyllables:

PAHRsuhljuhn [ˈp^hɑɪ·sʊ^h·dʒʊŋ], GRAHturuhl [ˈgɹɑ·rə·ʃ], Azuhnuh [ˈæ·zə·nə], YIMmeeyay [ˈjɪ·mi^j·je^j], LIHgunstyn e [ˈlɪ·gʊŋ·sta^jn],
REESuhreks [ˈɹi^j·sə·ɹɛks], ALTuhray [ˈaʔ·tə·e^j], PAHjuhnahd [ˈp^hɑ·dʒə·nad], VEDuhlil [ˈvɛ·də·lɪʃ], FLAsuhree [ˈflæ·sə·ɹi^j], EKstuhboyce [ˈɛk·stə·bɔ^js], KAPungow [ˈk^hæ·pʊŋ·ga^w], ZAfuhrus [ˈzæ·fə·əs], FLUHburbul [ˈflʌ·bə·bʊ^h], WOWkuhnfur [ˈwa^w·kʊŋ·fə], HARnuhgoo [ˈhaɪ·nə·gu^w], MIHNuhmun [ˈmɪ·nə·mʊŋ], BLAYfurmint [ˈble^j·fə·mɪnt],

dekSTEENgwisht [dɛk·ˈstɪŋ·gwɪft], reeHULLtuhnt [ɹi^j·ˈhʌt·tʊŋt], puhDAnik [pə·ˈdæ·nɪk], igSNAstid [ɪg·ˈsnæ·stɪd], reeVEENdoe [ɹi^j·ˈviⁿ·do^w], ekSPUHLshis [ɛk·ˈspʊʔ·ʃɪs], rayLEEsah [re·ˈli·sa], disTINshun [dɪs·ˈtɪn·ʃʊŋ], tooBAStuhk [tu^w·ˈbæ·stək], panGORik [p^hæn·ˈgɔ·ɹɪk], eksFLESHtun [ɛks·ˈflɛʃ·tʊŋ], uhSTOR eez [ə·ˈstɔ·ɹi^jz], oomBAHkra [u^w·m·ˈbak·ɹæ],

jampuhFEEL [dʒæm·pə·ˈfi^h], ahsahWUSH [a·sa·ˈwuʃ]

Whole Tetrasyllables:

SPANduhtoree [ˈspæn·də·tɔ·ɹi^j],

zuhGREthuhrus [zə·ˈgɹɛ·Өə·ɹəs], kuhLAMurrmine [k^hə·ˈlæ·mə·ma^jn], fruhTAMpuhlite [fɹə·ˈt^hæm·pə·la^tt], juhPIHruhmint [dʒə·ˈp^hɪ·ɹə·mɪnt], kuhPLAZmeeuh [kə·ˈp^hlæz·mi^j·ə],

vlahfahNAHtah [vla·fa·ˈna·ta], argoFLOOgus [ɑɪ·go^w·ˈflu^w·gəs], maluhKREeshus [mæ·lə·ˈk^hɹi^j·ʃəs], kaleeAYshun [kæ·li^j·ˈe^j·ʃʊŋ]

Whole Pentasyllables:

ahlbichooLAYshun [aʔ·bɪ·tʃu^w·ˈle^j·ʃʊŋ], korahptihNAYshun [kɔ·ɹap·tɪ·ˈne^j·ʃʊŋ]

Segments

Segment Total for Stressed and Unstressed Syllables and Monosyllables according to Syllable Configuration

Monosyllable Onset: #b(4), #f(3), #t^h, #d, #n, #s, #z(2), #ʃ, #ɹ, ɹ(4), l(3), #l(2), #k^h(2), #g(2), #w

Monosyllable Nucleus: i^j, u^w, ɪ, ø, o^w(3), œ#, ʌ(3), #ʌ, ɔ(2), æ, #a(2), a(3)

Monosyllable Coda: b, m, m#(2), f#(2), t#(2), d#(4), ts#, tʃ#, dʒ#, n#, n(2), s#, z#, ʃ#, ɹ(3), ɹ̥#, k#(2), ŋ#, x#, h#(2)

First Syllable Segment Stressed Onset: #p^h(2), p, #b(5), #m(5), m, #f(4), #t^h(3), #d(10), dʒ, #dʒ, #dʒ^j, #n, r:, #s(9), #z, #f(2), ɹ(5), #ɹ(3), l, #l(3), #k^h(4), #g(3), #w(3)

First Syllable Segment Stressed Nucleus: i^j(6), y, u^w(7), ɪ(7), ʊ(2), e^j, o^w(3), ə(3), ε(4), #ʌ, ʌ(2), ɔ(2), æ(13), a^w, a(10)

First Syllable Segment Stressed Coda: p(2), m(6), f, d, d^ɹ, tʃ, n(4), s, ɹ(4), t(2), g(2), ŋ

First Syllable Segment Unstressed Onset: #p^h(2), #b, #m(2), #f(2), #d(3), #s(2), l, #k^h, #k, #h(2)

First Syllable Segment Unstressed Nucleus: i^j(2), u^w, #u^w, ɪ(2), #e, o^w, #o^w, ə(6), #ə(2), #ə, ə(2), a, #a(3)

First Syllable Segment Unstressed Coda: n(2), s

Second Syllable Segment Stressed Onset: b, m, t^h(2), t, d(2), s(2), ɹ(5), l(3), k^h(2), x, w, h

Second Syllable Segment Stressed Nucleus: u^w, ɪ, e^j(2), o^w(2), ε(2), ε^j, ə, ɔ, æ(5), a^j, a^w#, a(2)

Second Syllable Segment Stressed Coda: m, d#(3), n(2), n#, r#, s, ɹ#, t, x#

Second Syllable Segment Unstressed Onset: p(2), b(6), m(3), f(3), v, t(7), d(5), n(9), r(3), θ, s(6), z(2), ɹ(5), l(5), k(7), g(6), w

Second Syllable Segment Unstressed Nucleus: i^j, i^j, i^j#(2), u^w, ɪ(13), ʊ, e^j#, e^j, ø#, o^w#(6), o^w, əŋ(3), əŋ#(2), ɹ̥, ɹ̥#(3), əŋ#(3), ə(10), ə#(5), ə, ɔ, æ, a^j#, a(7), a#

Second Syllable Segment Unstressed Coda: m#, f#, t#(4), d#(2), n, n#(5), s#(7), s(2), z, z#, ɹ#, t(2), t#(2), k(2), k#, ŋ#

Third Syllable Segment Stressed Onset: t^h, t, s, k^h

Third Syllable Segment Stressed Nucleus: i^j#, u^w, a^j

Third Syllable Segment Stressed Coda:

Third Syllable Segment Unstressed Onset: b, f(3), v, t, d, n(3), r, θ(2), s(3), z, ʃ, ɹ(4), l, j, k(2), g, w

Third Syllable Segment Unstressed Nucleus: i^j#(3), e^j(2), e^j#(2), o^w#(3), əŋ#, ɹ̥#, ə, ə#(2), ə(3), ə#, ε, a^j, a(4)

Third Syllable Segment Unstressed Coda: d#, d^ɹ#, n#, ʃ#

Fourth Syllable Segment Stressed Onset:

Fourth Syllable Segment Stressed Nucleus:

Fourth Syllable Segment Stressed Coda:

Fourth Syllable Segment Unstressed Onset: m(2), f(2), n, r(2), ɹ, l

Fourth Syllable Segment Unstressed Nucleus: u^w#, ɪ(3), əŋ#, ə, ə#(3), ə

Fourth Syllable Segment Unstressed Coda: n#(2), s#

Fifth Syllable Segment Stressed Onset: k^h

Fifth Syllable Segment Stressed Nucleus: e^j

Fifth Syllable Segment Stressed Coda:

Fifth Syllable Segment Unstressed Onset: m

Fifth Syllable Segment Unstressed Nucleus: ɪ

Fifth Syllable Segment Unstressed Coda: n#

Sixth Syllable Segment Unstressed Onset: ʃ

Sixth Syllable Segment Unstressed Nucleus: ɪ

Sixth Syllable Segment Unstressed Coda: n#

Segment Total for Stressed and Unstressed Onsets and Codas

Stressed Onset: #p^h(2), p, #b(5), b, #m(5), m(2), #f(4), #t^h(3), t^h(3), t(2), #d(10), d(2), dʒ, #dʒ, #dʒ^j, #n, r:, #s(9), s(3), #z, #f(2), ɹ(10), #ɹ(3), l(4), #l(3), #k^h(4), k^h(4), #g(3), x, #w(3), w, h

Stressed Coda: p(2), m(7), f, d, d^ɹ, d#(3), tʃ, n(6), n#, r#, s(2), ɹ(4), ɹ#, t(3), g(2), ŋ, x#

Unstressed Onset: #p^h(2), p(2), #b, b(7), #m(2), m(6), #f(2), f(8), v(2), t(8), #d(3), d(6), n(13), r(6), Θ(3), #s(2), s(9), z(3), ʃ(2), ɹ(10), l(8), j, #k^h, #k, k(9), g(7), w(2), #h(2)

Unstressed Coda: m#, f#, t#(4), d#(3), d^ː#, n(3), n#(10), s#(8), s(3), z, z#, ʃ#, ɹ#, t(2), t#(2), k(2), k#, ɲ#

Segment Total for Onsets and Codas

Onset: #p^h(4), p(3), #b(10), b(8), #m(7), m(8), #f(9), f(8), v(2), #t^h(4), t^h(3), t(10), #d(14), d(8), dʒ, #dʒ, #dʒ^j, #n(2), n(13), rɹ, r(6), Θ(3), #s(12), s(12), #z(3), z(3), #ʃ(3), ʃ(2), ɹ(24), #ɹ(4), l(15), #l(5), j, #k^h(7), #k, k(9), k^h(4), #g(5), g(7), x, #w(4), w(3), #h(2), h

Coda: p(2), b, m(8), m#(3), f, f#(3), t#(6), d, d^ː, d#(10), d^ː#, tɹ#, tʃ, tʃ#, dʒ#, n(11), n#(12), r#, s#(9), s(5), z, z#(2), ʃ#(2), ɹ(7), ɹ#(2), ɹ^ː#, t(5), t#(2), k(2), k#(3), g(2), ɲ, ɲ#(2), x#(2), h#(2)

Segment Total for Stressed and Unstressed Syllables and Monosyllables

Monosyllable Segment: #b(4), b, m, m#(2), f#(2), #f(3), #t^h, t#(2), d#(4), #d, tɹ#, tʃ#, dʒ#, n#, n(2), #n, #s, s#, z#, #z(2), #ʃ, ʃ#, #ɹ, ɹ(7), l(3), #l(2), ɹ^ː#, k#(2), #k^h(2), #g(2), ɲ#, x#, #w, h#(2)

i^j, u^w, ɪ, ø, o^w(3), œ#, ʌ(3), #ʌ, ɔ(2), æ, #a(2), a(3)

First Syllable Segment Stressed: #p^h(2), p(3), #b(5), #m(5), m(7), #f(4), f, #t^h(3), #d(10), d, d^ː, tʃ, dʒ, #dʒ, #dʒ^j, #n, n(4), rɹ, #s(9), s, #z, #ʃ(2), ɹ(9), #ɹ(3), l, #l(3), t(2), #k^h(4), #g(3), g(2), ɲ, #w(3)

i^j(6), γ, u^w(7), ɪ(7), ʊ(2), e^j, o^w(3), ʌ(3), ε(4), #ʌ, ʌ(2), ɔ(2), æ(13), a^w, a(10)

First Syllable Segment Unstressed: #p^h(2), #b, #m(2), #f(2), #d(3), n(2), s, #s(2), l, #k^h, #k, #h(2)

i^j(2), u^w, #u^w, ɪ(2), #e, o^w, #o^w, ə(6), #ə(2), #ə, ə, æ(2), a, #a(3)

Second Syllable Segment Stressed: b, m(2), t^h(2), t, d(2), d#(3), n(2), n#, r#, s(3), ɹ(5), ɹ#, l(3), t, k^h(2), x, x#, w, h

u^w, ɪ, e^j(2), o^w(2), ε(2), ε^j, ɐ, ɔ, æ(5), a^j, a^w#, a(2)

Second Syllable Segment Unstressed: p(2), b(6), ʌ#(3), m(3), m#, f#, f(3), v, t(7), t#(4), d#(2), d(5), n(10), n#(5), ʌ#(3), ʌ#(2), r(3), Θ, s#(7), s(8), z(3), z#, ɹ(5), ɹ#, l(5), ɹ^ː, ɹ^ː#(3), t(2), t#(2), k(9), k#, g(6), ɲ#, w

iɹ^j, i^j, i^j#(2), u^w, ɪ(13), ʊ, e^j#, e^j, ø#, o^w#(6), o^w, ə(10), ʌ#(5), ʌ, ɔ, æ, a^j#, a(7), a#

Third Syllable Segment Stressed: t^h, t, s, k^h

i^j#, u^w, a^j

Third Syllable Segment Unstressed: b, f(3), v, t, d, d#, d^ː#, n(3), ʌ#(3), n#, r, Θ(2), s(3), z, ʃ, ʃ#, #ɹ(4), l, ɹ^ː#, j, k(2), g, w

i^j#(3), e^j(2), e^j#(2), o^w#(3), ʌ, ʌ#(2), ə(3), ə#, ε, a^j, a(4)

Fourth Syllable Segment Stressed:

Fourth Syllable Segment Unstressed: m(2), ʌ#(3), f(2), n, n#(2), r(2), s#, ɹ, l

u^w#, ɪ(3), ə, ə#(3), ʌ

Fifth Syllable Segment Stressed: k^h

e^j

Fifth Syllable Segment Unstressed: m, n#

ɪ

Sixth Syllable Segment Unstressed: n#, ʃ

Segment Total by Syllable

First Syllable Segment: #p^h(4), p(3), #b(6), #m(7), m(7), #f(6), f, #t^h(3), #d(13), d, d^ː, tʃ, dʒ, #dʒ, #dʒ^j, #n, n(6), rː, #s(11), s(2), #z, #ʃ(2), ʒ(9), #ʒ(3), l(2), #l(3), t(2), #k^h(5), #k, #g(3), g(2), ŋ, #w(3), #h(2)

i^j(8), γ, u^w(8), #u^w, ɪ(9), ʊ(2), #e, eⁱ, o^w(4), #o^w, ə(6), #ə(2), #ǣ, ǣ(4), ε(4), #ʌ, ʌ(2), ɔ(2), æ(15), a, a^w, a(10), #a(3)

Second Syllable Segment: p(2), b(7), ɱ#(3), m(5), m#, f#, f(3), v, t^h(2), t(8), t#(4), d#(5), d(7), ɳ(3), ɳ#(2), n(12), n#(6), r#, r(3), θ, s#(7), s(11), z(3), z#, ʒ(10), ʒ#(2), l(8), ʎ, ʎ#(3), t(3), t#(2), k(9), k^h(2), k#, g(6), ŋ#, x, x#, w(2), h

iː^j, i^j, i^j#(2), u^w(2), ɪ(14), ʊ, eⁱ#, e^j(3), ø#, o^w#(6), o^w(3), ə(10), ǣ#(5), ǣ, ε(2), ε^j, ɜ, ɔ(2), æ(6), aⁱ#, aⁱ, a^w#, a(9), a#

Third syllable Segment: b, f(3), v, t(2), t^h, d, d#, d^ː#, ɱ#, n(3), n#, r, θ(2), s(4), z, ʃ, ʒ#, ʒ(4), l, ʎ#, j, k(2), k^h, g, w

i^j#(4), u^w, eⁱ(2), e^j#(2), o^w#(3), ǣ, ǣ#(2), ə(3), ə#, ε, aⁱ(2), a(4)

Fourth Syllable Segment: m(2), ɱ#, f(2), n, n#(2), r(2), s#, ʒ, l

u^w#, ɪ(3), ə, ə#(3), ǣ

Fifth Syllable Segment: m, n#, k^h

ɪ, e^j

Sixth Syllable Segment: n#, ʃ

Segment Stressed and Unstressed Total

Stressed Segment: #p^h(2), p(3), b, #b(5), #m(5), m(9), #f(4), f, t(2), t^h(3), #t^h(3), #d(10), d#(3), d(3), d^ː, tʃ, dʒ, #dʒ, #dʒ^j, #n, n(6), n#, rː, r#, #s(9), s(5), #z, #ʃ(2), ʒ(14), #ʒ(3), ʒ#, l(4), #l(3), t(3), #k^h(4), k^h(4), #g(3), g(2), ŋ, x, x#, #w(3), w, h

i^j(6), i^j#, γ, u^w(9), ɪ(8), ʊ(2), eⁱ(4), o^w(5), ǣ(3), ε(6), ε^j, ɜ, #ʌ, ʌ(2), ɔ(3), æ(18), aⁱ(2), a^w#, a^w, a(12)

Unstressed Segment: p(2), #p^h(2), b(7), #b, #m(2), m(6), m#, ɱ#(4), f#, #f(2), f(8), v(2), t(8), t#(4), #d(3), d#(3), d^ː#, d(6), ɳ(3), ɳ#(3), n(16), n#(10), r(6), θ(3), s#(8), #s(2), s(12), z(4), z#, ʃ(2), ʒ#, ʒ(6), #ʒ(4), ʒ#, l(8), ʎ, ʎ#(4), t(2), t#(2), j, k(11), k#, #k^h, #k, g(7), ŋ#, w(2), #h(2)

iː^j, i^j(3), i^j#(5), u^w(2), u^w#, #u^w, ɪ(20), ʊ, #e, eⁱ#(3), e^j(3), ø#, o^w#(9), #o^w, o^w(2), ə(20), #ə(2), ə#(4), ǣ(4), #ǣ, ǣ#(7), ε, ɔ, æ(3), a, aⁱ#, aⁱ, a(11), a#, #a(3)

Segment Total (absolute)

Narrow: #p^h(4), p(5), #b(10), b(16), #m(7), m(16), m#(3), ɱ#(4), f(9), f#(3), #f(9), v(2), #t^h(4), t^h(3), t#(6), t(10), d(9), d^ː, d^ː#, d#(10), #d(14), tʃ#, tʃ, dʒ#, dʒ, #dʒ, #dʒ^j, n#(12), n(24), #n(2), ɳ(3), ɳ#(3), rː, r#, r(6), θ(3), #s(12), s#(9), s(17), z(4), z#(2), #z(3), ʃ(2), #ʃ(3), ʒ#(2), #ʒ(8), ʒ(27), ʒ#(2), l(15), #l(5), l^ː#, t(5), ʎ, ʎ#(4), t#(2), j, k(11), k#(3), k^h(4), #k, #k^h(7), #g(5), g(9), ŋ#(2), ŋ, x, x#(2), #w(4), w(3), #h(2), h#(2), h

iː^j, i^j(10), i^j#(6), γ, u^w(12), u^w#, #u^w, ɪ(29), ʊ(3), #e, eⁱ#(3), e^j(7), ø, ø#, o^w#(9), #o^w, o^w(10), ə(20), #ə(2), ə#(4), ǣ(7), #ǣ, ǣ#(7), ε(7), ε^j, æ#, ɜ, #ʌ(2), ʌ(5), ɔ(6), æ(22), a^w#, a^w, a, aⁱ#, aⁱ(3), a(26), a#, #a(5)

Broad: p(9), b(26), m(30), f(21), v(2), t(23), d(35), tʃ, tʃ(2), dʒ(4), n(44), r(2), r(6), θ(3), s(38), z(9), ʃ(7), ʒ(37), l(21), t(12), j, k(26), g(14), ŋ(3), x(3), w(7), h(5) i(17), γ, u(14), ɪ(29), ʊ(3), e(11), ø(2), o(20), ə(26), ǣ(15), ε(8), æ, ɜ, ʌ(7), ɔ(6), æ(22), a(7), a(32)

Supra-Segments: Consonant Clusters

Consonant Cluster Total for Stressed and Unstressed Syllables and Monosyllables according to Syllable Configuration

Monosyllable Consonant Cluster Onset (all entries are word initial): #bl(2), #bʒ, #fl, #dʒ, #k^hʒ, #gʒ(2)

Monosyllable Consonant Cluster Coda (all entries are word final): bl^ː#, mf#, nts#, ndʒ#, ʒt#, ʒd#, ʒtʃ#

First Syllable Consonant Cluster Stressed Onset (all entries are word initial): #fl, #dɿ, #spɿ, #fm, #kʰɿ, #gɿ

First Syllable Consonant Cluster Stressed Coda: mp

First Syllable Consonant Cluster Unstressed Onset (all entries are word initial): #fl, #gɿ

First Syllable Consonant Cluster Unstressed Coda:

Second Syllable Consonant Cluster Stressed Onset: tʰl, st, stɿ, kʰɿ

Second Syllable Consonant Cluster Stressed Coda: nd#

Second Syllable Consonant Cluster Unstressed Onset: fɿ, tɿ, st, kw, gɿ

Second Syllable Consonant Cluster Unstressed Coda: nt#(2), st#(2), zm#, td#, tz#, ks#

Third Syllable Consonant Cluster Stressed Onset:

Third Syllable Consonant Cluster Stressed Coda:

Third Syllable Consonant Cluster Unstressed Onset: dɿ, st(2), kɿ

Third Syllable Consonant Cluster Unstressed Coda:

Fourth Syllable Consonant Cluster Stressed Onset:

Fourth Syllable Consonant Cluster Stressed Coda:

Fourth Syllable Consonant Cluster Unstressed Onset:

Fourth Syllable Consonant Cluster Unstressed Coda:

Fifth Syllable Consonant Cluster Stressed Onset:

Fifth Syllable Consonant Cluster Stressed Coda:

Fifth Syllable Consonant Cluster Unstressed Onset:

Fifth Syllable Consonant Cluster Unstressed Coda:

Consonant Cluster Total for Stressed and Unstressed Onsets and Codas

Stressed Onset: #fl, tʰl, #dɿ, st, stɿ, #spɿ, #fm, #kʰɿ, kʰɿ, #gɿ

Stressed Coda: mp, nd#

Unstressed Onset: fɿ, #fl, tɿ, dɿ, st(3), kw, kɿ, #gɿ, gɿ

Unstressed Coda: nt#(2), st#(2), zm#, td#, tz#, ks#

Consonant Cluster Total for Onsets and Codas

Onset: #bl(2), #bɿ, #fl(3), fɿ, tʰl, tɿ, dɿ, #dɿ(2), st(4), stɿ, #spɿ, #fm, #kʰɿ(2), kʰɿ, kɿ, kw, #gɿ(4), gɿ

Coda: bl# , mf#, mp, nts#, ndʒ#, nt#(2), nd#, st#(2), zm#, ɹt#, ɹd#, ɹtʃ# , td#, tz#, ks#

Consonant Cluster Total or Stressed and Unstressed Syllables and Monosyllables

Monosyllable Consonant Cluster: #bl(2), bl# , #bɿ, mf#, #fl, #dɿ, nts#, ndʒ#, ɹt#, ɹd#, ɹtʃ#, #kʰɿ, #gɿ(2)

First Syllable Consonant Cluster Stressed: mp, #fl, #dɿ, #spɿ, #fm, #kʰɿ, #gɿ

First Syllable Consonant Cluster Unstressed: #fl, #gɿ

Second Syllable Consonant Cluster Stressed: tʰl, nd#, st, stɿ, kʰɿ

Second Syllable Consonant Cluster Unstressed: fɿ, tɿ, nt#(2), st#(2), st, zm#, td#, tz#, ks#, kw, gɿ

Third Syllable Consonant Cluster Stressed:

Third Syllable Consonant Cluster Unstressed: dɿ, st(2), kɿ

Fourth Syllable Consonant Cluster Stressed:

Fourth Syllable Consonant Cluster Unstressed:

Fifth Syllable Consonant Cluster Stressed:

Fifth Syllable Consonant Cluster Unstressed:

Consonant Cluster Total per Syllable

First Syllable Consonant Cluster: mp, #fl(2), #dɿ, #spɿ, #fm, #kʰɿ, #gɿ(2)

Second Syllable Consonant Cluster: fɹ, tɹ, tʰl, ntʰ(2), ndʰ, stʰ(2), stɹ, zmʰ, ʔdʰ, ʔzʰ, ksʰ, kw, kʰɹ, gɹ

Third Syllable Consonant Cluster: dɹ, st(2), kɹ

Fourth Syllable Consonant Cluster:

Fifth Syllable Consonant Cluster:

Consonant Cluster Stressed and Unstressed Total

Consonant Cluster Stressed: mp, #fl, tʰl, #dɹ, ndʰ, #spɹ, st, stɹ, #fm, #kʰɹ, kʰɹ, #gɹ

Consonant Cluster Unstressed: fɹ, #fl, tɹ, dɹ, ntʰ(2), stʰ(2), st(3), zmʰ, ʔdʰ, ʔzʰ, ksʰ, kɹ, kw, gɹ, #gɹ

Consonant Cluster Total (absolute)

Narrow: #bl(2), bl̥ʰ, #bɹ, mfʰ, mp, fɹ, #fl(3), tʰl, tɹ, dɹ, #dɹ(2), ntsʰ, ndʒʰ, ndʰ, ntʰ(2), stʰ(2), #spɹ, st(4), stɹ, zmʰ, #fm, ɹtʰ, ɹdʰ, ɹtʃʰ, ʔdʰ, ʔzʰ, #kʰɹ(2), kʰɹ, ksʰ, kɹ, kw, gɹ, #gɹ(4)

Broad: bl(2), bl̥, bɹ, mf, mp, fɹ, fl(3), tl, tɹ, dɹ(3), nts, ndʒ, nd, nt(2), spɹ, st(6), stɹ, zm, fm, ɹt, ɹd, ɹtʃ, ʔd, ʔz, kɹ(4), ks, kw, gɹ(5)

Supra-Segments: Whole Syllables

Whole Syllable Total for Stressed and Unstressed Syllables and Monosyllables

Monosyllable Whole Syllable:

#fiʰnʰ,
#ɹuʷsʰ,
#fmʰ,
#blɔfʰ,
#bɹoʷdʰ, #soʷmʰ, #gɹoʷdʰ,
#flæʰ,
#ʌbl̥ʰ, #zʌmfʰ, #kʰɹʌntsʰ, #gɹʌhʰ,
#blɔɹtʰ, #nɔkʰ,
#lædʰ,
#axʰ, #afʰ, #bahʰ, #faɹtʃʰ, #tʰaɹdʰ, #dakʰ, #zanʰ, #latʰ, #kʰandʒʰ, #wazʰ

First Syllable Whole Syllable Stressed (all entries are word initial):

#fliʰ, #fiʰ, #diʰ(2), #siʰ(2), #ɹiʰ,
#fmy,
#uʷ, #buʷ(2), #duʷ, #dʒuʷ, #dʒuʷm, #luʷ, #wuʷ,
#bid̥ʰ, #tʰɹ, #dis, #dif, #dɹɹ, #din, #sim,
#buʔ, #fuʔ,
#seʰ,
#dʒʰoʷ, #ɹoʷtʃ, #woʷ,
#pʰə, #kʰə, #grɹə,
#ɛg, #dɛ(2), #nɛ,
#ʌn, #sʌm, #kʰʌmp,
#fɔŋ, #tʰɔɹ,
#pʰə, #mæ, #mæn, #dɹæ, #sæ(2), #spɹæ, #zæp, #ɹæɡ, #læd, #læ, #gɹæ, #gæ,
#daʷ,
#baɹ, #maɹ(2), #ma, #tʰam, #san, #fa, #kʰa(2), #wam

First Syllable Whole Syllable Unstressed (all entries are word initial):

#pʰiʰ,
#fluʷ,
#di, #dis,
#e,
#oʷ, #boʷ,
#ə(2), #mə, #sə(2), #kə, #kʰə, #hə,
#ə, #hə,

#p^hæn, #fæ,
#ma,
#a(2), #an

Second Syllable Whole Syllable Stressed:

lu^w,
k^hɪɪm,
le^j, he^j,
so^w, stɪo^wn#,
ɛ, t^hle^jd#, weɪ#,
xəx#,
dɔɪ#,
æn, mæd#, dæɪ, ɹænd#, ɹæs,
t^haⁱ, ɹa^w#,
ba, k^ha

Second Syllable Whole Syllable Unstressed:

bɪɹⁱŋ#, dɪⁱ#, lɪⁱ#, kɪⁱ,
ku^ws#,
mɪn#, fɪn, fɪɹst#, vɪk#, nɪk, nɪs#, nɪks#, stɪ, sɪs#, zɪs#, ɹɪn#, lɪn#, kɪzm#,
pʊst#,
neⁱd#, kweⁱ#,
dø#,
bo^w#, no^w #(2), so^w#, ɹo^w, lo^w #(2),
pɹɪ, bɹɪ#, ɹɪn#(2), mæ, mæs#, fə, tɪəf#, tɹɪnt#, nə, ɹɹɪn#(2), θə, sɹɪnt#, sə, lə, kɹɪn#, kə, gɹɪt#(2), gɹɪ, gɹəs#,
bə#, də#, nə#, ɹə#, kə, gə#,
tɔɪz#,
zæ,
baⁱ#,
ban#, taɪ#, ta#, daɪ#, daɪd#, naɪ#, stan#, ga#

Third Syllable Whole Syllable Stressed:

k^hɪⁱ#,
t^hu^w,
aⁱ

Third Syllable Whole Syllable Unstressed:

fɪⁱ#, ɹɪⁱ #(2),
feⁱ#, seⁱ, steⁱ#, leⁱ,
no^w#, sⁱo^w#, go^w#,
vɹɪn#, nə(2), θə, ʃə#, kɹɪt#,
ɹə#, stə, kə#,
dɪɹɛd^h#,
faⁱd#,
ba, θa, zan#, waf#

Fourth Syllable Whole Syllable Stressed:

Fourth Syllable Whole Syllable Unstressed:

nu^w#,
mɪn#, mɪs#, fɪn#,
ə#, fə, ɹɹɪn#, ɹə#, ɹə#,
lə

Fifth Syllable Whole Syllable Stressed:

k^he^j

Fifth Syllable Whole Syllable Unstressed:

mɪn#

Sixth Syllable Whole syllable Unstressed:

Whole Syllable Total per Syllable

First Syllable Whole Syllable (all entries are word initial):

#p^hi^j, #fli^j, #fi^j, #di^j(2), #si^j(2), #i^j,
 #fmy,
 #u^w, #bu^w(2), #flu^w, #du^w, #dʒu^w, #dʒu^wm, #lu^w, #wu^w,
 #bɪd^ɪ, #t^hi, #dis(2), #di, #dɪf, #dɪɪ, #dɪn, #sɪm,
 #bʊt, #fʊt,
 #e, #seⁱ,
 #o^w, #bo^w, #dʒo^w, #ɔ^wtʃ, #wo^w,
 #ə(2), #mə, #sə(2), #kə, #k^hə, #hə,
 #ə, #p^hə, #k^hə, #gr:ə, #hə,
 #ɛg, #dɛ, #dɛ, #nɛ,
 #ʌn, #sʌm, #k^hʌmp,
 #fɔŋ, #t^hɔɹ,
 #p^hæ, #p^hæn, #mæ, #mæn, #fæ, #dɹæ, #sæ(2), #spɹæ, #zæp, #ɹæg, #læd, #læ, #gɹæ, #gæ,
 #a(2), #an, #baɹ, #ma(2), #maɹ(2), #t^ham,
 #da^w,
 #san, #ʃa, #k^ha(2), #wam

Second Syllable Whole Syllable:

bi:ŋ#, di^j#, li^j#, ki^j,
 ku^ws#, lu^w,
 mɪn#, fɪn, fɹɪst#, vɪk#, nɪk, nɪs#, nɪks#, stɪ, sɪs#, zɪs#, ɹɪn#, lɪn#, k^hɹɪm, kɪzm#,
 pʊst#,
 neⁱd#, le^j, kweⁱ#, he^j,
 dø#,
 bo^w#, no^w#, so^w#, so^w, stɹɔ^wn#, ɹo^w, lo^w#,
 pɹɪ, bɹɪ#, ɹɹɪ#(2), mə, məs#, fə, tʃəf#, tɹɹt#, nə, rɹɹ#(2), ʊə, sɹɹt#, sə, lə, kɹɹɹ#, kə, gɹɹ#(2), gɹɹ, gɹəs#,
 bə#, də#, nə#, rə#, kə, gə#,
 ɛ, t^hɪeⁱd#, wɛr#,
 xəx#,
 tɔɹz#, dɔɹ#,
 æn, mæd#, dæf, zæ, ɹænd#, ɹæs,
 baⁱ#, t^ha^j, ɹa^w#,
 ba, ban#, taɹ#, ta#, dət#, dətɹd#, nat#, stan#, k^ha, ga#

Third Syllable Whole Syllable:

fi^j#, ɹi^j#, k^hi^j#,
 t^hu^w,
 feⁱ#, se^j, steⁱ#, le^j,
 no^w#, s^jo^w#, go^w#,
 vɹɹɹ#, nə(2), ʊə, ʃə#, kɹɹɹ#,
 rə#, stə,kə#,
 dɹɛd^ɪ#,
 ɹ^j, fa^jd#,
 ba, ʊə, zan#, waf#

Fourth Syllable Whole Syllable:

nu^w#,
 mɪn#, mɪs#, fɪn#,
 ə#, fə, rɹɹɹ#, rə#, ɹə#,
 lə

Fifth Syllable Whole Syllable:

mɪn#,
 k^he^j

Sixth Syllable Whole Syllable:

ʃɪn#

Whole Syllable Stressed and Unstressed Total

Whole Syllable Stressed:

#fliʲ, #fiʲ, #diʲ(2), #siʲ(2), #ɹiʲ, kʰiʲ#,
#ʃmy,
#uʷ, #buʷ(2), tʰuʷ, #duʷ, #dʒuʷ, #dʒuʷm, #luʷ, luʷ, #wuʷ,
#bɪdʲ, #tʰɪ, #dɪs, #dɪf, #dɪɹ, #dɪn, #sɪm, kʰɪm,
#buʔ, #fuʔ,
#seʲ, leʲ, kʰeʲ, heʲ,
#dʒʲoʷ, soʷ, stɔʷn#, #ɹoʷtʃ, #woʷ,
#pʰə, #kʰə, #grɜə,
ɛ, #ɛg, tʰleʲd#, #dɛ(2), #nɛ, wɛr#,
xəx#,
#ʌn, #sʌm, #kʰʌmp,
#fɔŋ, #tʰɔɹ, dɔɹ#,
æn, #pʰæ, #mæ, #mæn, mæd#, #dɪæ, dæʔ, #sæ(2), #spɪæ, #zæp, #ɹæɡ, ɹænd#, ɹæs, #læd, #læ, #ɡɹæ, #ɡæ,
ɑʲ, tʰɑʲ, #daʷ, ɹaʷ#,
#baɹ, ba, #maɹ(2), #ma, #tʰam, #san, #ʃa, #kʰa(2), kʰa, #wam

Whole Syllable Unstressed:

#pʰɪʲ, bi:ɹŋ#, fiʲ#, diʲ#, ɹiʲ#(2), liʲ#, kiʲ,
#fluʷ, nuʷ#, kuʷs#,
mɪn#(3), mɪs#, #dɪ, #dɪs, fɪn, fɪn#, fɪst#, vɪk#, nɪk, nɪs#, nɪks#, stɪ, sɪs#, zɪs#, ʃɪn#, ɹɪn#, lɪn#, kɪzm#,
pʊst#,
#e, feʲ#, neʲd#, seʲ, steʲ#, leʲ, kweʲ#,
dø#,
#oʷ, #boʷ, boʷ#, noʷ#(3), soʷ#, sʲoʷ#, ɹoʷ, loʷ#(2), goʷ#,
#ə(2), ə#, pʰ, bʰ#, ʰŋ#(2), mə, #mə, məs#, fə(2), vʰŋ#, tʰəf#, tʰŋt#, nə(3), rʰŋ#(2), rʰŋ#, rə#, θə(2), sʰŋt#, sə, #sə(2), ʃə#, ɹə#, lə, kʰŋ#,
kə, kʰə#, #kə, #kʰə, ɡʰ#(2), ɡʰŋ, ɡɹəs#, #hə,
#ə, bə#, də#, nə#, rə#(2), stə, lə, kə#, kə, ɡə#, #hə,
dɪɛdʲ#,
tʰɪz#,
#pʰæn, #fæ, zæ,
baʲ#, #ma, faʲd#,
#a(2), #an, ba, ban#, taɹ#, ta#, daʔ#, daʔd#, naʔ#, θa, stan#, zan#, ɡa#, waf#

Whole Syllable Total (absolute)

Narrow:

#pʰɪʲ, bi:ɹŋ#, #fliʲ, #fiʲ, fiʲ#, #fiʲn#, diʲ#, #diʲ(2), #siʲ(2), #ɹiʲ, ɹiʲ#(2), liʲ#, kiʲ, kʰiʲ#,
#ʃmy,
#uʷ, #buʷ(2), #fluʷ, tʰuʷ, #duʷ, #dʒuʷ, #dʒuʷm, nuʷ#, #ɹuʷs#, #luʷ, luʷ, kuʷs#, #wuʷ,
#bɪdʲ, mɪn#(3), mɪs#, #tʰɪ, #dɪ, #dɪs(2), #dɪf, #dɪɹ, #dɪn, fɪn, fɪn#, fɪst#, vɪk#, nɪk, nɪs#, nɪks#, stɪ, sɪs#, #sɪm, zɪs#, ʃɪn#, #ʃɪm#, ɹɪn#,
lɪn#, kɪzm#, kʰɪm,
pʊst#, #buʔ, #fuʔ,
#e, feʲ#, neʲd#, seʲ, #seʲ, steʲ#, leʲ(2), kweʲ#, kʰeʲ, heʲ,
#bløf#, dø#,
#oʷ, #boʷ, boʷ#, #bɔʷd#, #dʒʲoʷ, noʷ#(3), soʷ#, sʲoʷ#, soʷ, stɔʷn#, #soʷm#, ɹoʷ, #ɹoʷtʃ, loʷ#(2), goʷ#, #ɡɹoʷd#, #woʷ,
#ə(2), ə#, pʰ, bʰ#, ʰŋ#(2), mə, #mə, məs#, fə(2), vʰŋ#, tʰəf#, tʰŋt#, nə(3), rʰŋ#(2), rʰŋ#, rə#, θə(2), sʰŋt#, sə, #sə(2), ʃə#, ɹə#, lə, kʰŋ#, kə,
kʰə#, #kə, #kʰə, ɡʰ#(2), ɡʰŋ, ɡɹəs#, #hə,
#ə, #pʰə, bə#, də#, nə#, rə#(2), stə, lə, kə#, kə, #kʰə, #grɜə, ɡə#, #hə,
ɛ, #ɛg, tʰleʲd#, #dɛ(2), dɪɛdʲ#, #nɛ, wɛr#,
#flæ#,
xəx#,
#ʌn, #ʌblʲ#, #sʌm, #zʌmf#, #kʰʌnts#, #kʰʌmp, #ɡɹʌh#,

#blɔʏt#, #fɔŋ, tɔʏz#, #tʰɔʏ, dɔʏ#, #nɔk#,

æn, #pʰæn, #pʰæ, #mæ, #mæn, mæd#, #fæ, #dʏæ, dæʔ, #sæ(2), #spɹæ, #zæp, zæ, #ɹæɡ, ɹænd#, ɹæs, #læd, #læd#, #læ, #ɡɹæ, #ɡæ,
aʲ, baʲ#, #ma, faʲd#, tʰaʲ, #daʷ, ɹaʷ#,

#a(2), #ax#, #aʃ#, #an, ba(2), #bah#, ban#, #baɹ, #maɹ(2), #ma, #faɪʃ#, taɹ#, ta#, #tʰam, #tʰaɪd#, daʔ#, daʔd#, #dak#, naʔ#, ʈa, stan#,
#san, zan#, #zanʃ#, #ʃa, #lat#, #kʰa(2), kʰa, #kʰandʒ#, ɡa#, #wam, waʃ#, #waz#

Broad:

pi, biŋ, fli, fi(2), fin, di(3), si(2), ɹi(3), li, ki(2),

ʃmy,

u, bu(2), flu, tu, du, dʒu, dʒum, nu, ɹus, lu(2), kus, wu,

bɪd, mɪn(3), mɪs, tɪ, dɪ, dɪs(2), dɪf, dɪɹ, dɪn, fɪn(2), fɪst, vɪk, nɪk, nɪs, nɪks, stɪ, sɪs, sɪm, zɪs, ʃɪn, ʃɪm, ɹɪn, lɪn, kɪzm, kɪm,

pʊst, buʔ, fuʔ,

e, fe, ned, se(2), ste, le(2), kwe, ke, he,

blɔf, dɔ,

o, bo(2), bɹod, dʒo, no(3), so(3), stɹon, som, ɹo, ɹotʃ, lo(2), go, ɡɹod, wo,

ə(3), pʰ, bʰ, ʌm(2), mə(2), məs, fə(2), vəŋ, tɹəf, tʰŋt, nə(3), rəŋ(2), rəŋ, rə, ʈə(2), sʌŋt, sə(3), ʃə, ɹə, lə, kəŋ, kɹəʔ, kə(3), ɡəʔ(2), ɡəŋ, ɡɹəs, hə,

ə, pə, bə, də, nə, rə(2), stə, lə, kə(3), ɡrə, ɡə, hə,

ɛ, ɛɡ, tɫed, dɛ(2), dɹed, nɛ, wɛr,

flæ,

xəx,

ʌn, ʌbl̥, sʌm, zʌmf, kʌnts, kʌmp, ɡʌh,

blɔʏt, fɔŋ, tɔʏz, tɔʏ, dɔʏ, nɔk,

æn, pæn, pæ, mæ, mæn, mæd, fæ, dʏæ, dæʔ, sæ(2), spɹæ, zæp, zæ, ɹæɡ, ɹænd, ɹæs, læd(2), læ, ɡɹæ, ɡæ,

a, ba, ma, fad, ta, da, ɹa,

a(2), ax, aʃ, an, ba(2), bah, ban, baɹ, maɹ(2), ma, faɪʃ, taɹ, ta, tam, taɪd, daʔ, daʔd, dak, naʔ, ʈa, stan, san, zan, zanʃ, ʃa, lat, ka(3), kandʒ,
ɡa, wam, waʃ, waz

Supra-Segments: Whole Words

Whole Word Total per Word Length

Whole Monosyllables:

roose [ɹuʷs], fleu [flæ], nok [nɔk], ahh [ax], zumf [zʌmf], wahz [waz], laht [lat], ahsh [aʃ], gruh [ɡʀh],
bleuf [blɔf], dahk [dak], bah [bah], blort [blɔʏt], shim [ʃɪm], uhbl [ʌbl̥], feen [fiʰn], lad [læd], zahng [zanʃ], sohm [soʷm], browd
[bɹoʷd], krunts [kʰʌnts], tahrɔ [tʰaɪd], kahngə [kʰandʒ], fahrch [faɪʃ], growd [ɡɹoʷd]

Whole Bisyllables:

KAHlow [kʰa·loʷ], PASunt [pʰæ·sʌŋt], FULLso [fuʔ·soʷ], EGzis [ɛɡ·zɪs], TORdur [tʰɔʏ·rə], DINtruf [dɪn·tɹəf], GRURbeeng
[grɹæ·bi:ŋ], BOOGah [buʷ·ɡa], WOEBahn [woʷ·ban], SEEKuhm [siʲ·kəŋ], DRADuhn [dʏæ·rəŋ], ROWCHnis [ɹoʷtʃ·nɪs], DEHfrist
[dɛ·fɹɪst], GRAnuhr [ɡɹæ·nə], REEvik [ɹiʲ·vɪk], TAHMbur [tʰam·bə], DISlow [dɪs·loʷ], FLEEkizm [fliʲ·kɪzm], LOOum [luʷ·əŋ],
UNDahld [ʌn·daʔd], SPRAsis [spɹæ·sɪs], WAHMpust [wam·pʊst], MAHRtahr [maɹ·taɹ], MAHRlee [maɹ·liʲ], LADtunt [læd·tʌŋt], BIDno
[bɪdɹ·noʷ], LADuhn [læ·rəŋ], JOŋo [dʒɹoʷ·noʷ], JOOMbye [dʒuʷm·baʲ], PURniks [pʰə·nɪks], BAHRmin [baɹ·mɪn], FEEgul [fiʲ·ɡɹəs],
KRUMPlin [kʰʌmp·lɪn], MANdee [mæn·diʲ], DIFnahɪ [dɪf·naʔ], ZAPTolz [zæp·tɔʏz], BULLdahl [buʔ·daʔ], SAYgruhs [seʲ·ɡɹəs],
SAHNduhr [san·də], DRIHbul [dɹɪ·bʰ], DOWgur [daʷ·ɡə], FONGkway [fɔŋ·kweʲ], OOmʊs [uʷ·məs], KURgul [kʰə·ɡəʔ], BOONayde
[buʷ·neʲd], DEEum [diʲ·əŋ], SHMOOdeu [ʃmy·dɔ], DARrin [dɛ·ɹɪn], SUMboe [sʌm·boʷ], DOOtah [duʷ·ta], NEHstahn
[nɛ·stan], KAHkooose [kʰa·kuʷs],

huhMAD [hə·mæd], kuhRAND [kʰə·ɹænd], maHOH [ma·ʰxəx], hurRAW [hə·ɹaʷ], panWAIR [pʰæn·wɛr], ahntLED [an·tʰleʲd],
muhSTRONE [mə·stɹoʷn], boeDOOR [boʷ·dɔʏ]

Whole Trisyllables:

SAPulwahsh [sæ·pʰ·waʃ], MAHNnuhree [ma·nə·ɹiʲ], JOOstihfyd [dʒuʷ·stɹ·faʲd], MALuhfay [mæ·lə·feʲ], GATHuhkur [ɡæ·ʈə·kə],
SAsuhtur [sæ·sə·rə], SIMfuhno [sɪm·fə·noʷ], WOOkuhree [wuʷ·kə·ɹiʲ],

flooHAYvun [fluʷ·heʲ·vəŋ], ayEHSyo [e·ɛ·sɹoʷ], suhLAYzahn [sə·leʲ·zan], deeANDred [diʲ·æn·dɹed], disTYEgoe [dɪs·tʰaʲ·goʷ],
ahBAHstay [a·ba·steʲ], uhKRIMshuh [ə·kʰɹɪm·ʃə], ahDALfee [a·dæʔ·fiʲ], ohLOOKruhl [oʷ·luʷ·kɹəʔ]

uhrowKEE [ə·ɹoʷ·kʰɹiʲ]

Whole Tetrasyllables:

TIHfinbahtum ['tʰɪ·fɪn·bɑ·rəṃ], SHAHniksaymin ['ʃɑ·nɪk·seʲ·mɪn], RAGmuhlayduh ['ɹæg·mə·leʲ·rə],

suhSOWnuhmis [sə·'soʷ·nə·mɪs], uhRASthuhnoo [ə·'ɹæs·Θə·nuʷ], kuhKAHnuhruh [kə·'kʰɑ·nə·ɹə],

fakuhTOOUh [fæ·kə·'tʰuʷ·ə], peekeeAlfin [pʰiʲ·kiʲ·'aʲ·fɪn]

Whole Pentasyllables:

SEEGunthahlurmin ['sɪʲ·gəŋ·Θɑ·lə·mɪn]

Whole Hexasyllables:

dihzastuhrfihKAYshin [dɪ·zæ·stə·fə·'kʰeʲ·fɪn]

Question ID: X. the feeling of being woken in the middle of the night by a strange noise

Segments

Segment Total for Stressed and Unstressed Syllables and Monosyllables according to Syllable Configuration

Monosyllable Onset: #p^h(3), #f(2), t, #d, #s(2), ɹ(5), #ɹ(3), l(4), #j(2), #k^h(2), #g(2), #w(2), #hMonosyllable Nucleus: #iⁱ, iⁱ(2), u^w(2), u^w#, ɪ(4), εⁱ, æ(3), #æ, ʌ, a^w(2), aⁱ(2), a, #a(2), a#

Monosyllable Coda: m, m#, f, t#(5), d#(2), tʃ#, dʒ#, n, s#(3), ʃ#, ɹ#, ɹ, t, t#, k(4), k#(4), g#, ʃ#

First Syllable Segment Stressed Onset: #p^h, #b(5), #m, #f(4), #v(2), t(2), #t^h(3), #dʒ, #n, #s(8), #z, #ʃ, ɹ(9), #ɹ(2), l(4), #l(2), #j, k(4), #k^h(4), #g, #w(4), #h(3)**First Syllable Segment Stressed Nucleus:** #iⁱ, iⁱ, u^w(2), ɪ(6), #ɪ, eⁱ(2), o^w(2), #ə(2), ə, ε(6), #ε, ɔ, ʌ(5), #ʌ, æ(8), #æ(4), aⁱ, #aⁱ(2), a(11), #a(3)**First Syllable Segment Stressed Coda:** m(3), t, n(5), θ, s(2), z, ɹ(9), t(2), k(7), ŋFirst Syllable Segment Unstressed Onset: #p^h, #m(2), #f(2), #v, #d(2), #dʒ, #n, #s(3), #z, #ʃ, #ɹ, l(3), #k(2), #g, #hFirst Syllable Segment Unstressed Nucleus: iⁱ(2), #iⁱ, ɪ(7), ə(6), #ə(3), #ε(3), ε, æ, #a, a(2), #a

First Syllable Segment Unstressed Coda: n, s(3), z, ɹ(2), k(4)

Second Syllable Segment Stressed Onset: p, b, m, f, t^h(2), t(4), d, s(6), ɹ(9), l(3), k(2), k^h(2), g(2)**Second Syllable Segment Stressed Nucleus:** iⁱ(3), i#, u^w(2), ɪ(4), eⁱ(2), o^w, ε(2), ʌ, æ(6), a^w, a(3), a#**Second Syllable Segment Stressed Coda:** m#, f:#, t#(2), d#(5), n(5), s, ɹ(2), k, ŋ(2)Second Syllable Segment Unstressed Onset: p(4), p^h, b(4), f(4), v, t(7), t^h, d(3), dʒ, tʃ, dʒ, n(3), r(3), θ, s(4), z, ʃ(4), ɹ(8), l(2), j(3), k(3), g(5), h(2)Second Syllable Segment Unstressed Nucleus: i, i#, iⁱ(3), u^w(6), ɪ(9), eⁱ#, o^w#, ə(9), ə#, əɪ(7), əɪ(2), əŋ(2), əŋ, əŋ#, ə(6), ə#(2), ɔ, æ(2), aⁱ, a(4)

Second Syllable Segment Unstressed Coda: p#, m#, f#(3), t#(2), d#(6), tʃ#, n#(6), s#, ʃ#(3), ɹ#(3), t, k#(4)

Third Syllable Segment Stressed Onset: p^h**Third Syllable Segment Stressed Nucleus:** ə**Third Syllable Segment Stressed Coda:**

Third Syllable Segment Unstressed Onset: p, b(2), t(3), d(2), n(4), r, s, z, ʃ(2), ɹ(4), ɹ, l(2), g(2)

Third Syllable Segment Unstressed Nucleus: iⁱ(3), i#, u^w#, ɪ(3), eⁱ(2), eⁱ#, o^w#, ə(4), ə#, əŋ(3), əŋ#, əɪ, ə, ε, a^wThird Syllable Segment Unstressed Coda: t#, d#, n#(2), s#, k^w#, ŋ#**Fourth Syllable Segment Stressed Onset:****Fourth Syllable Segment Stressed Nucleus:****Fourth Syllable Segment Stressed Coda:**

Fourth Syllable Segment Unstressed Onset: m, t, d, n(2), r, j

Fourth Syllable Segment Unstressed Nucleus: ɪ, eⁱ, ə#(4), ə, ε, aFourth Syllable Segment Unstressed Coda: v#, d#, d^w#, s:#, t, k#**Fifth Syllable Segment Stressed Onset:****Fifth Syllable Segment Stressed Nucleus:****Fifth Syllable Segment Stressed Coda:**

Fifth Syllable Segment Unstressed Onset:

Fifth Syllable Segment Unstressed Nucleus:

Fifth Syllable Segment Unstressed Coda:

Segment Total for Stressed and Unstressed Onsets and Codas

Stressed Onset: #p^h, p, p^h, #b(5), b, #m, m, #f(4), f, #v(2), t(6), t^h(2), #t^h(3), d, #dʒ, #n, #s(8), s(6), #z, #ʃ, ɹ(18), #ɹ(2), l(7), #l(2), #j, k(6), k^h(2), #k^h(4), #g, g(2), #w(4), #h(3)**Stressed Coda:** m(3), m#, f:#, t, t#(2), d#(5), n(10), θ, s(3), z, ɹ(11), t(2), k(8), ŋ(3)Unstressed Onset: #p^h, p(5), p^h, b(6), #m(2), m, #f(2), f(4), #v, v, t(11), t^h, #d(2), d(6), dʒ, tʃ, #dʒ, dʒ, #n, n(9), r(5), θ, #s(3), s(5), #z, z(2), #ʃ, ʃ(6), #ɹ, ɹ(12), ɹ, l(7), j(4), #k(2), k(3), #g, g(7), #h, h(2)Unstressed Coda: p#, m#, f#(3), v#, t#(3), d#(8), d^w#, tʃ#, n, n#(8), s(3), s#(2), s:#, z, ʃ#(3), ɹ(2), ɹ#(3), t(2), k(4), k^w#, k#(5), ŋ#

Segment Total for Onsets and Codas

Onset: #p^h(5), p(6), p^h(2), #b(5), b(7), #m(3), m(2), #f(8), f(5), #v(3), v, t(18), t^h(3), #t^h(3), #d(3), d(7), dz, tf, #dʒ(2), dʒ, #n(2), n(9), r(5), Θ, #s(13), s(11), #z(2), z(2), #f(2), f(6), ʃ(35), #ʃ(6), ʒ, l(18), #l(2), #j(3), j(4), #k(2), k(9), k^h(2), #k^h(6), #g(4), g(9), #w(6), #h(5), h(2)

Coda: p#, m(4), m#(3), f, f:#, f#(3), v#, t, t#(10), d#(15), d`#, tʃ#(2), dʒ#, n(12), n#(8), Θ, s(6), s#(5), s:z, z(2), f#(4), ʃ(14), ʒ#(4), ʔ(5), ʔ#, k(16), k`#, k#(9), g#, η(3), η#, χ#

Segment Total for Stressed and Unstressed Syllables and Monosyllables

Monosyllable Segment: #p^h(3), m, m#, #f(2), f, #s(2), t, t#(5), d#(2), #d, tʃ#, dʒ#, n, s#(3), f#, ʃ#, ʒ(6), #ʃ(3), l(4), ʔ, ʔ#, #j(2), #k^h(2), k(4), k#(4), #g(2), g#, #w(2), χ#, #h

#i^j, i^j(2), u^w(2), u^w#, i(4), e^j, æ(3), #æ, ʌ, a^w(2), a^j(2), a, #a(2), a#

First Syllable Segment Stressed: #p^h, #b(5), #m, m(3), #f(4), #v(2), t(3), t^h(3), #dʒ, #n, n(5), Θ, s(2), #s(8), #z, z, #f, ʃ(18), #ʃ(2), l(4), #l(2), ʔ(2), #j, k(11), #k^h(4), #g, η, #w(4), #h(3)

#i^j, i^j, u^w(2), i(6), #i, e^j(2), o^w(2), #æ(2), æ, ε(6), #ε, ɔ, ʌ(5), #ʌ, æ(8), #æ(4), a^j, #a^j(2), a(11), #a(3)

First Syllable Segment Unstressed: #p^h, #m(2), #f(2), #v, #d(2), #dʒ, #n, n, #s(3), s(3), z, #z, #f, #ʃ, ʃ(2), l(3), #k(2), k(4), #g, #h

i^j(2), #i^j, i(7), ə(6), #ə(3), #ε(3), ε, œ, æ, #a, a(2), #a

Second Syllable Segment Stressed: p, b, m, m#, f:#, f, t^h(2), t(4), t#(2), d, d#(5), n(5), s(7), ʃ(11), l(3), k(3), k^h(2), g(2), η(2)

i^j(3), i#, u^w(2), i(4), e^j(2), o^w, ε(2), ʌ, æ(6), a^w, a(3), a#

Second Syllable Segment Unstressed: p(4), p^h, p#, b(4), m#, əm#, f#(3), f(4), v, t(7), t^h, t#(2), d#(6), d(3), dz, tʃ#, tʃ, dʒ, n(3), n#(6), ən#(2), ən, r(3), Θ, s(4), s#, z, f(4), f#(3), ʃ(8), ʒ#(3), l(2), ʔ, ʔ#(7), ʔ(2), j(3), k(3), k#(4), g(5), h(2)

i, i#, i^j(3), u^w(6), i(9), e^j#, o^w#(3), ə(9), ə#, æ(6), ə#(2), ɔ, æ(2), a^j, a(4)

Third Syllable Segment Stressed: p^h

æ

Third Syllable Segment Unstressed: p, b(2), əm#, t(3), t#, d#, d(2), n(4), n#(2), ən#(3), r, s, s#, z, f(2), ʃ(4), ʒ, l(2), ʔ, ʔ#, k`#, g(2), η#

i^j(3), i^j#, u^w#, i(3), e^j(2), e^j#, o^w#, ə(4), ə#, æ, ε, a^w

Fourth Syllable Segment Stressed:

Fourth Syllable Segment Unstressed: m, v#, t, d, d#, d`#, n(2), r, s:z, ʔ, j, k#

i, e^j, ə#(4), ə, ε, a

Fifth Syllable Segment Stressed:

Fifth Syllable Segment Unstressed:

Segment Total by Syllable

First Syllable Segment: #p^h(2), #b(5), #m(3), m(3), #f(6), #v(3), t(3), #t^h(3), #d(2), #dʒ, #n(2), n(6), Θ, s(2), #s(8), #z, z, #f, #dʒ, #s(3), s(3), z, #z, #f, ʃ(20), #ʃ(3), l(7), #l(2), ʔ(2), #j, k(15), #k(2), #k^h(4), #g(2), η, #w(4), #h(4)

#i^j(2), i^j(3), u^w(2), i(13), #i, e^j(2), o^w(2), ə(6), #ə(3), #æ(2), æ, ε(6), #ε(4), ε, œ, ɔ, ʌ(5), #ʌ, æ(9), #æ(4), a^j, #a^j(2), #a, a(13), #a(4)

Second Syllable Segment: p(5), p^h, p#, b(5), m, m#(2), əm#, f#(3), f(5), f:#, v, t(11), t^h(3), t#(4), d#(11), d(4), dz, tʃ#, tʃ, dʒ, n(8), n#(6), ən#(2), ən, r(3), Θ, s(11), s#, z, f(4), f#(3), ʃ(19), ʒ#(3), l(5), ʔ, ʔ#(7), ʔ(2), j(3), k(6), k^h(2), k#(4), g(7), η(2), h(2)

i, i#, i^j(3), i^j(3), i#, u^w(8), i(13), e^j#, e^j(2), o^w#(3), o^w, ə(9), ə#, æ(6), ə#(2), ε(2), ʌ, ɔ, æ(8), a^w, a^j, a(7), a#

Third Syllable Segment: p, p^h, b(2), ɸm#, t(3), t#, d#, d(2), n(4), n#(2), ɸn#(3), r, s, s#, z, ʃ(2), ʒ(4), ʒ:, l(2), ɸʃ#, kʰ#, g(2), ŋ#

i^j(3), i^j#, u^w#, i(3), e^j(2), e^j#, o^w#, ə(4), ə#, ə:, ε, æ, a^w

Fourth Syllable Segment: m, v#, t, d, d#, dʱ#, n(2), r, s: #, ʈ, j, k#

ɪ, e^j, ə#(4), ə, ε, ɑ

Fifth Syllable Segment:

Segment Stressed and Unstressed Total

Stressed Segment: #p^h, p^h, p, b, #b(5), #m, m(4), m#, #f(4), f: #, f, #v(2), t(7), t^h(2), #t^h(3), t#(2), d, d#(5), #dʒ, #n, n(10), ʊ, s(9), #s(8), #z, z, #ʃ, ʒ(29), #ʒ(2), l(7), #l(2), ʈ(2), #j, k(14), k^h(2), #k^h(4), #g, g(2), ŋ(3), #w(4), #h(3)

#i^j, i^j(4), i#, u^w(4), i(10), #ɪ, e^j(4), o^w(3), #ə(2), ə, ε(8), #ε, ɔ, ʌ(6), #ʌ, æ(15), #æ(4), a^j, #a^j(2), a^w, a(14), #a(3), a#

Unstressed Segment: p(5), p^h, #p^h, p#, b(6), m, m#, #m(2), ɸm#(2), #f(2), f#(3), f(4), v, #v, v#, t(11), t^h, t#(3), d#(8), #d(2), dʱ#, d(6), dʒ, tʃ#, tʃ, dʒ, #dʒ, n(10), #n, n#(8), ɸn#(5), ɸn, r(5), ʊ, s(8), s#(2), #s(3), s: #, z(3), #z, ʃ(6), #ʃ, ʃ#(3), #ʒ, ʒ(14), ʒ#(3), ʒ:, l(7), ʈ(2), ɸʃ#(8), ɸʃ(2), j(4), k(7), #k(2), k#(5), kʰ#, g(7), #g, ŋ#, #h, h(2)

i, i#, i^j#(4), #i^j, i^j(5), u^w(6), u^w#, i(20), e^j#(2), e^j(3), o^w#(4), ə(20), ə#(6), #ə(3), ə:(7), ə#(2), #ε(3), ε(3), œ, ɔ, æ(3), #a, a^j, a^w, a(7), #a

Segment Total (absolute)

Narrow: p(6), p^h(2), #p^h(5), p#, b(7), #b(5), m(6), m#(3), #m(3), ɸm#(2), #f(8), f#(3), f(6), f: #, v, #v(3), v#, t(19), #t^h(3), t^h(3), t#(10), d#(15), #d(3), dʱ#, d(7), dʒ, tʃ#(2), tʃ, dʒ#, dʒ, #dʒ(2), n(21), #n(2), n#(8), ɸn#(5), ɸn, r(5), ʊ(2), s(17), s#(5), #s(13), s: #, z(4), #z(2), ʃ(6), #ʃ(2), ʃ#(4), #ʒ(6), ʒ(49), ʒ#(4), ʒ:, #ʒ(2), l(18), ʈ#, ʈ(5), ɸʃ#(8), ɸʃ(2), j(4), #j(3), k(25), #k(2), k#(9), kʰ#, k^h(2), #k^h(6), g(9), #g(4), g#, ŋ#, ŋ(3), #w(6), χ#, #h(5), h(2)

i, i#, i^j#(4), #i^j(3), i^j(11), i#, u^w(12), u^w#(2), i(34), #ɪ, e^j#(2), e^j(7), o^w#(4), o^w(3), ə(20), ə#(6), #ə(3), ə:(8), ə#(4), #ε(4), ε(11), ε^j, œ, ʌ(7), #ʌ, ɔ(2), æ(21), #æ(5), #a, a^j(4), #a^j(2), a^w(4), a(22), #a(6), a#(2)

Broad: p(14), b(12), m(14), f(18), v(5), t(35), d(26), dʒ, tʃ(3), dʒ(4), n(37), r(5), ʊ(2), s(36), z(6), ʃ(12), ʒ(60), l(20), ʈ(16), j(7), k(45), g(14), ŋ(4), w(6), χ, h(7)

i(20), ɪ, u(14), i(35), e(9), o(7), ə(29), ə:(12), ε(16), œ, ʌ(8), ɔ(2), æ(26), a(11), a(30)

Supra-Segments: Consonant Clusters

Consonant Cluster Total for Stressed and Unstressed Syllables and Monosyllables according to Syllable Configuration

Monosyllable Consonant Cluster Onset (all entries are word initial): #p^hl, #fɪ, #dɪ, #stɪ, #sl, #kɪ, #k^hl, #gɪ, #gl

Monosyllable Consonant Cluster Coda (all entries are word final): mt#, ft#, tns#, kt#(3), ks#

First Syllable Consonant Cluster Stressed Onset (all entries are word initial): #p^hl, #bl, #bɪ, #fɪ, #sk(2), #skɪ, #stɪ, #st, #k^hɪ(3), #gɪ

First Syllable Consonant Cluster Stressed Coda: ɪt, ks

First Syllable Consonant Cluster Unstressed Onset (all entries are word initial): #fl, #fɪ, #kl, #gl

First Syllable Consonant Cluster Unstressed Coda: ɪk

Second Syllable Consonant Cluster Stressed Onset: t^hɪ, sp, st(2), stɪ, sk, k^hɪ

Second Syllable Consonant Cluster Stressed Coda: nd#(2), nt#, st#, ŋk

Second Syllable Consonant Cluster Unstressed Onset: stɪ

Second Syllable Consonant Cluster Unstressed Coda: ɪs#, ɪd#, ɪd#

Third Syllable Consonant Cluster Stressed Onset:

Third Syllable Consonant Cluster Stressed Coda:

Third Syllable Consonant Cluster Unstressed Onset: tɪ, st

Third Syllable Consonant Cluster Unstressed Coda:

Fourth Syllable Consonant Cluster Stressed Onset:
Fourth Syllable Consonant Cluster Stressed Coda:

Fourth Syllable Consonant Cluster Unstressed Onset:
Fourth Syllable Consonant Cluster Unstressed Coda: ʔd#

Fifth Syllable Consonant Cluster Stressed Onset:
Fifth Syllable Consonant Cluster Stressed Coda:

Fifth Syllable Consonant Cluster Unstressed Onset:
Fifth Syllable Consonant Cluster Unstressed Coda:

Consonant Cluster Total for Stressed and Unstressed Onsets and Codas

Stressed Onset: #p^hl, #bl, #bɹ, #fɹ, t^hɹ, #sk(2), sk, #skɹ, #stɹ, stɹ, sp, st(2), #st, #k^hɹ(3), k^hɹ, #gɹ

Stressed Coda: nd#(2), nt#, st#, ɹt, ks, ŋk

Unstressed Onset: #fl, #fɹ, tɹ, st, stɹ, #kl, #gl

Unstressed Coda: ŋs#, ɹk, ʔd#(3)

Consonant Cluster Total for Onsets and Codas

Onset: #p^hl(2), #bl, #bɹ, #fɹ(3), #fl, t^hɹ, tɹ, #dɹ, #sk(2), sk, #skɹ, #stɹ(2), stɹ(2), sp, st(2), #st, st, #sl, #k^hɹ(3), k^hɹ, #kɹ, #k^hl, #kl, #gɹ(2), #gl(2)

Coda: mt#, ft#, nd#(2), nt#, ns#, st#, ɹt, ɹk, tns#, ʔd#(3), kt#(3), ks, ks#, ŋk

Consonant Cluster Total for Stressed and Unstressed Syllables and Monosyllables

Monosyllable Consonant Cluster: #p^hl, mt#, #fɹ, ft#, #dɹ, #stɹ, #sl, tns#, #kɹ, #k^hl, kt#(3), ks#, #gɹ, #gl

First Syllable Consonant Cluster Stressed: #p^hl, #bl, #bɹ, #fɹ, #sk(2), #skɹ, #stɹ, #st, ɹt, #k^hɹ(3), ks, #gɹ

First Syllable Consonant Cluster Unstressed: #fl, #fɹ, ɹk, #kl, #gl

Second Syllable Consonant Cluster Stressed: t^hɹ, nd#(2), nt#, sp, st(2), stɹ, sk, st#, k^hɹ, ŋk

Second Syllable Consonant Cluster Unstressed: ŋs#, stɹ, ʔd#, ʔd#

Third Syllable Consonant Cluster Stressed:

Third Syllable Consonant Cluster Unstressed: tɹ, st

Fourth Syllable Consonant Cluster Stressed:

Fourth Syllable Consonant Cluster Unstressed: ʔd#

Fifth Syllable Consonant Cluster Stressed:

Fifth Syllable Consonant Cluster Unstressed:

Consonant Cluster Total per Syllable

First Syllable Consonant Cluster: #p^hl, #bl, #bɹ, #fɹ(2), #fl, #sk(2), #skɹ, #stɹ, #st, ɹt, ɹk, #k^hɹ(3), ks, #kl, #gl, #gɹ

Second Syllable Consonant Cluster: t^hɹ, nd#(2), nt#, ŋs#, sp, st(2), stɹ(2), sk, st#, ʔd#, ʔd#, k^hɹ, ŋk

Third Syllable Consonant Cluster: tɹ, st

Fourth Syllable Consonant Cluster: ʔd#

Fifth Syllable Consonant Cluster:

Consonant Cluster Stressed and Unstressed Total

Consonant Cluster Stressed: #p^hl, #bl, #bɹ, #fɹ, t^hɹ, nd#(2), nt#, #sk(2), #skɹ, sk, #stɹ, stɹ, #st, st(2), st#, sp, ɹt, #k^hɹ(3), k^hɹ, ks, #gɹ, ŋk

Consonant Cluster Unstressed: #fl, #fɹ, tɹ, ŋs#, stɹ, st, ɹk, ʔd#(2), ʔd#, #kl, #gl

Consonant Cluster Total (absolute)

Narrow: #p^hl(2), #bl, #bɹ, mt#, #fɹ(3), ft#, #fl, t^hɹ, tɹ, #dɹ, nd#(2), nt#, ɲs#, #sk(2), sk, #skɹ, #stɹ(2), stɹ(2), #st, st(3), st#, sp, #sl, ɹt, ɹk, ɲns#, ɹd#(2), ɹd#, #kl, #k^hɹ(3), #k^hl, k^hɹ, ks, #kɹ, kt#(3), ks#, #gɹ(2), #gl(2), ɲk

Broad (when different from above): pl(2), bl, bɹ, mt, fɹ(3), ft, fl, tɹ(2), dɹ, nd(2), nt, ns, sk(3), skɹ, sp, st(5), stɹ(4), sl, ɹt, ɹk, ɲns, ɹd(3), kl(2), kɹ(5), ks(2), kt(3), gɹ(2), gl(2), ɲk

Supra-Segments: Whole Syllables

Whole Syllable Total for Stressed and Unstressed Syllables and Monosyllables

Monosyllable Whole Syllable:

#i^hkt#, #p^hi^hkt#, #fɹi^hg#,
 #ɹu^w#, #k^hlɹ^wkt#, #gɹu^wd#,
 #p^hɹɲns#, #slɹtɹf#, #ɹɹks#, #wɹft#,
 #dɹɛɹ^h#,
 #jɹɹχ#,
 #æk#, #p^hlæm#, #k^hræk#, #hædʒ#,
 #ɹaⁱd#, #ɹa^wk#, #glæⁱs#, #wa^wf#,
 #aɹ#, #aɹk#, #fa#, #stɹa^wmt#

First Syllable Whole Syllable Stressed (all entries are word initial):

#iⁱ, #ɹiⁱɲ,
 #su, #hu^w,
 #ɹn, #fɹɹm, #fɹɹ, #vɹɲ, #dʒɹ, #slɹ, #stɹ,
 #bleⁱ, #bɹeⁱ,
 #wo^w(2),
 #ə(2), #nə^w,
 #ɛks, #p^hlɛk, #mɛθ, #t^hɛɹ(2), #fɛ, #k^hɹɛ,
 #ɹɲ, #flɹ, #skɹɹ, #k^hɹm, #wɹ, #wɹɲ,
 #fɹɹ,
 #æ, #æk(2), #æz, #væɹ, #t^hæ, #sk^hæ, #zæ, #ɹæk, #læm, #k^hɹæ, #gɹæs,
 #aⁱ, #aⁱk, #jaⁱ,
 #a, #aɹ, #aɹt, #ba, #ban, #baɹ, #skaɹ, #saɹ, #stɹa, #laɹ, #k^haɹ, #k^hɹa, #hak, #ha

First Syllable Whole Syllable Unstressed (all entries are word initial):

#iⁱ, #p^hiⁱ, #ɹiⁱ,
 #vɹ, #dɹs(2), #nɹ, #sɹ(2), #glɹk,
 #ə(3), #fə, #sə, #zə, #fə, #kəɲ, #hə,
 #ɛk(2), #ɛs, #dʒɛ,
 #fləɛ,
 #mæz,
 #a,
 #aɹk, #maɹ, #kla

Second Syllable Whole Syllable Stressed:

t^hɹiⁱd#, ɹiⁱf:#, liⁱd#, hi#,
 ɹi#,
 t^hu^w, gu^w,
 mɹɲt#, tɹ, tɹɲ#(2), stɹɲk, ɹɲɲ,
 feⁱ, stɹeⁱ,
 ɹo^w,
 dɛɹ, kɛɹ,
 ɹɹnd#,
 spæn,sæn, ɹænd#, læst#, k^hɹæm#, gæ,
 sta^wd#,
 ba, ska, la, k^ha#

Second Syllable Whole Syllable Unstressed:

piⁱf#, ziⁱ#, ɹiⁱ#, jiⁱ#,

p^hu^wk#, du^wn#, tʃu^w, ʃu^wf#, ʃu^w#, ʃu^wk#,
 bɪʃ#, tɪn#, vɪtʃ#, dʒɪp#, sɪk#, lɪt#, gɪʃ#,
 stueⁱ#,
 fo^w#, no^w#, go^w#,
 pə^tʃ(2), bⁱə, fə^ŋ#, fə^tʃ, t^hə, tə^ŋ#, nə, nəf#, rə^tʃ#, rə^td#, Ө^tʃ#, sə^m#, ʃə#, ʃə^tʃ#, ʃə^ŋs#, ləf#, kə^tʃ#, kə, kə#, gə^td#, hə^m#,
 pə^ə#, bə^d, fə^ə, tə^d#, də^ə, rə^ə#, ʃə^ə, gə^ə, gə^d#,
 tə^td#,
 ʃæn#, jæk#,
 ʃaⁱt#,
 baɪ#, dɪaɪ#, dʒaɪ#, sən#

Third Syllable Whole Syllable Stressed:

p^hæ

Third Syllable Whole Syllable Unstressed:

nɪⁱ, ʃɪⁱ#, ʃɪⁱ, gɪⁱ,
 nu^w#,
 ɪn#, nɪk[˜]#, ʃɪŋ#,
 neⁱt#, leⁱ#, geⁱ,
 to^w#,
 pəd#, bə^tʃ#, tə^ə#, də, rə^ŋ#, stə^ŋ#, zə^m#, ʃə^ŋ#, ʃəs#, lə,
 də^ə,
 rɪːɛ,
 ba^wn#

Fourth Syllable Whole Syllable Stressed:

Fourth Syllable Whole Syllable Unstressed:

tɪv#,
 meⁱk#,
 ə^ə(2), nə#, rəd[˜]#, jə#,
 nɛsɪː#,
 dətɪd#

Fifth Syllable Whole Syllable Stressed:

Fifth Syllable Whole Syllable Unstressed:

Whole Syllable Total per Syllable

First Syllable Whole Syllable (all entries are word initial):

#ɪⁱ(2), #p^hɪⁱ, #ɪⁱ, #ɪⁱn,
 #su, #hu^w,
 #ɪn, #fɪɪm, #fɪɪ, #vɪŋ, #vɪ, #dɪs(2), #dʒɪ, #nɪ, #slɪ, #stɪ, #sɪ(2), #glɪk,
 #bleⁱ, #bɪeⁱ,
 #wo^w(2),
 #ə(3), #fə, #sə, #zə, #fə, #kən, #hə,
 #ə^ə(2), #nə^ə,
 #ɛks, #ɛk(2), #ɛs, #p^hɪɛk, #mɛθ, #t^hɛɪ(2), #dʒɛ, #fɛ, #k^hɪɛ,
 #flœ,
 #ʌn, #flʌ, #skɪʌ, #k^hʌm, #wʌ, #wʌn,
 #fɔɪ,
 #æ, #æk(2), #æz, #mæz, #væɪ, #t^hæ, #sk^hæ, #zæ, #ɪæk, #læm, #k^hɪæ, #gɪæs,
 #a, #aⁱ, #aⁱk, #jaⁱ,
 #a, #aɪ, #aɪt, #aɪk, #ba, #ban, #baɪ, #maɪ, #skaɪ, #saɪ, #stɪa, #laɪ, #k^hɪa, #k^hɪa, #kla, #hak, #ha

Second Syllable Whole Syllable:

pɪʃ#, t^hɪɪⁱd#, zɪⁱ#, ʃɪⁱ#, ʃɪⁱfɪː#, lɪⁱd#, ʃɪⁱ#, hɪ#,
 ʃɪⁱ#,
 p^hu^wk#, t^hu^w, du^wn#, tʃu^w, ʃu^wf#, ʃu^w#, ʃu^wk#, gu^w,
 bɪʃ#, mɪnt#, tɪn#, vɪtʃ#, tɪ, tɪn(2), dʒɪp#, sɪk#, stɪŋk, ʃɪŋ, lɪt#, gɪʃ#,

feⁱ, stueⁱ#, stueⁱ,
fo^w#, no^w#, ɹo^w, go^w#,
pəⁱ#, bⁱə, fəⁱ#, fəⁱ#, t^hə, təⁱ#, nə, nəf#, ɹəⁱ#, ɹəⁱd#, Өəⁱ#, səⁱ#, fəⁱ#, ɹəⁱ#, ɹəⁱs#, ləf#, kəⁱ#, kəⁱ#, gəⁱd#, həⁱm#,
pəⁱ#, bəⁱd, fəⁱ, təⁱd#, dəⁱ, ɹəⁱ#, fəⁱ, gəⁱ, gəⁱd#,
dɛɪ, kɛɪ,
ɹəⁱd#,
təⁱd#,
spæn, sæn, fæn#, ɹænd#, læst#, jæk#, k^hɹæm#, gæ,
sta^wd#, ɹəⁱt#,
ba, baɪ#, dɹaɪ#, dʒaɪ#, san#, ska, la, k^ha#

Third Syllable Whole Syllable:

niⁱ, ɹiⁱ#, ɹiⁱ, giⁱ,
nu^w#,
ɪn#, nɪk^ː#, ɹɪŋ#,
neⁱt#, leⁱ#, geⁱ,
to^w#,
pəd#, bəⁱ#, tʌ#, də, ɹəⁱ#, stəⁱ#, zəⁱ#, fəⁱ#, fəs#, lə,
də,
rɛɛ,
p^hæ,
ba^wn#

Fourth Syllable Whole Syllable:

tɪv#,
meⁱk#,
ə#(2), nə#, ɹəd^ː#, jə#,
nɛsɪ:#,
dɒd#

Fifth Syllable Whole Syllable:

Whole Syllable Stressed and Unstressed Total

Whole Syllable Stressed:

#iⁱ, t^hɹiⁱd#, #ɹiⁱn, ɹiⁱf:#, liⁱd#, hi#,
ɹiⁱ#,
t^hu^w, #su, gu^w, #hu^w,
#ɪn, mɪnt#, #fɹɪm, #fɹɪ, #vɪŋ, tɪ, tɪn#(2), #dʒɪ, #slɪ, #stɪ, stɪŋk, ɹɪŋ,
#bleⁱ, #bɹeⁱ, feⁱ, stueⁱ,
ɹo^w, #wo^w(2),
#ə(2), #nə,
#ɛks, #p^hlɛk, #mɛθ, #t^hɛɪ(2), dɛɪ, #fɛ, kɛɪ, #k^hɹɛ,
#ʌn, #flʌ, #skɹʌ, ɹænd#, #k^hʌm, #wʌ, #wʌn,
#fɔɹ,
#æ, #æk(2), #æz, p^hæ, #væɪ, #t^hæ, #sk^hæ, spæn, sæn, #zæ, #ɹæk, ɹænd#, læst#, #læm, #k^hɹæ, k^hɹæm#, gæ, #gɹæs,
#aⁱ, #aⁱk, sta^wd#, #jaⁱ,
#a, #aɪ, #aɪt, #ba, ba, #ban, #baɪ, #skaɪ, ska, #saɪ, #stɹa, la, #laɪ, #k^haɪ, k^ha#, #k^hɹa, #hak, #ha

Whole Syllable Unstressed:

#iⁱ, piⁱf#, #p^hiⁱ, niⁱ, ziⁱ#, #ɹiⁱ, ɹiⁱ#, (2), ɹiⁱ, jiⁱ#, giⁱ,
p^hu^wk#, du^wn#, tɹu^w, nu^w#, ɹu^wf#, ɹu^w#, ɹu^wk#,
ɪn#, biⁱf#, tɪn#, #vi, vɪtɹf#, tɪv#, #dis(2), dʒɪp#, #ni, nɪk^ː#, #si(2), sɪk#, ɹɪŋ#, lɪt#, giⁱf#, #glik,
meⁱk#, neⁱt#, stueⁱ#, leⁱ#, geⁱ,
fo^w#, to^w#, no^w#, go^w#,
#ə(5), pəⁱ#, (2), pəd#, bⁱə, bəⁱ#, #fə, fəⁱ#, fəⁱ#, t^hə, təⁱ#, tʌ#, də, nə, nə#, nəf#, ɹəⁱ#, ɹəⁱd#, ɹəⁱ#, ɹəd^ː#, Өəⁱ#, səⁱ#, #sə, stəⁱ#, zəⁱ#, #zə,
fəⁱ#, fəs#, #fə, fəⁱ#, ɹəⁱ#, ɹəⁱs#, lə, ləf#, jə#, kəⁱ#, #kən, kə, kə#, gəⁱd#, #hə, həⁱm#,
pəⁱ#, bəⁱd, fəⁱ, təⁱd#, də(2), ɹəⁱ#, fəⁱ, gəⁱ, gəⁱd#,
#ɛk(2), #ɛs, #dʒɛ, nɛsɪ:#, rɛɛ,

#flœ,
 tɔld#,
 #mæz, fæn#, jæk#,
 #a, baʷn#, jaʰt#,
 #aɪk, baɪ#, #maɪ, dɪaɪ#, daʰd#, dʒaɪ#, san#, #kla

Whole Syllable Total (absolute)

Narrow:

#iʰ(2), #iʰkt#, piʃ#, #pʰiʰ, #pʰiʰkt#, #fɪiʰg#, tʰɪiʰd#, niʰ, ziʰ#, #ɪiʰ, ɪiʰ#(2), ɪiʰ, #ɪiʰn, ɪiʰf:#, liʰd#, jiʰ#, giʰ, hiʰ,
 ɪiʰ#,
 pʰuʷk#, tʰuʷ, duʷn#, tʃuʷ, nuʷ#, #su, ʃuʷf#, ɹuʷ#, #ɹuʷ#, ɹuʷk#, #kʰluʷkt#, #ɡɹuʷd#, guʷ, #huʷ,
 ɪn#, #ɪn, #pʰɪɪns#, biʃ#, miɪnt#, #fɪɪm, #fɪɪ, #viɪ, viʃ#, ti, tiɪn#(3), tiɪv#, #diɪs(2), #dʒɪ, dʒɪp#, #niɪ, niɪkʰ#, #siɪ(2), siɪk#, #sɪɪ, #stiɪ, stiɪŋk,
 #slɪtʃ#, ɹɪɪŋ#, ɹɪɪ, liɪt#, #jɪɪks#, ɡɪɪʃ#, #ɡɪɪk, #wɪɪft#,
 #bleʰ, #bɹeʰ, meʰk#, feʰ, neʰt#, stɹeʰ, leʰ#, geʰ,
 foʷ#, toʷ#, noʷ#, ɹoʷ, goʷ#, #woʷ(2),
 #ə(5), pəʰtʃ#(2), pəd#, bʰə, bəʰtʃ#, fəʰ, fəʰŋ#, fəʰtʃ#, tʰə, təʰŋ#, tʰə, də, nə, nəʰ, nəf#, rəʰtʃ#, rəʰd#, rəʰŋ#, rədʰ#, Өəʰtʃ#, səʰŋ#, #sə, stəʰŋ#, zəʰŋ#, #zə,
 ʃəʰŋ#, ʃəs#, #ʃə, ʃəʰ, ɹəʰtʃ#, ɹəʰŋs#, lə, ləf#, jəʰ, kəʰtʃ#, #kəʰn, kə, kəʰ, ɡəʰd#, #hə, həʰm#,
 #ə(2), pəʰ, bəʰd, fəʰ, təʰd#, dəʰ(2), #nə, rəʰ, ʃə, ɡəʰ, ɡəʰd#,
 #ek(2), #eks, #ɛs, #pʰlɛk, #mɛӨ, #tʰɛɪ(2), dɛɪ, #dɹɛɪʰ#, #dʒɛ, nɛs:#, #ʃɛ, rɛɛ, kɛɪ, #kʰɹɛ,
 #flœ,
 #ɹn, #flɹ, #skɹɹ, ɹɹnd#, #jɹɹχ#, #kʰɹɹm, #wɹ, #wɹn,
 #ɹɹ, tɔld#,
 #æk#, #æk(2), #æ, #æz, pʰæ, #pʰlæm#, #mæz, #væʰtʃ#, #tʰæ, #skʰæ, spæn, sæn, #zæ, fæn#, #ɹæk, ɹænd#, læst#, #læm, jæk#, #kʰɹæ,
 kʰɹæm#, #kʰræk#, ɡæ, #ɡɹæs, #hædʒ#,
 #a, #aʰ, #aʰk, baʷn#, staʰd#, jaʰt#, #jaʰd#, #jaʷk#, #jaʰ, #ɡlaʰs#, #waʷʃ#,
 #a, #aɪ, #aɪ#, #aɪt, #aɪk#, #aɪk, #ba, ba, #ban, #baʰtʃ#, baɪ#, #maɪ, #fa#, dɪaɪ#, daʰd#, dʒaɪ#, san#, #stɹamt#, #skaɪ, ska, #saɪ, #stɹa, la,
 #laɪ, #kʰaɪ, kʰaʰ#, #kʰɹa, #kla, #hak, #ha

Broad:

i(2), ikt, piʃ, pi, pikt, fɪiʰg, tiɪd, ni, zi, ɪi(4) ɹɪn, ɹɪf:#, lid, ji, gi, hi,
 ɪiʰ,
 puk, tu, dun, tʃu, nu, su, ʃuf, ɹu(2), ɹuk, klukt, ɡɹud, gu, hu,
 ɪn(2), pɪɪns, biʃ, miɪnt, fɪɪm, fɪɪ, viɪ, viʃ, ti, tiɪn(3), tiɪv, diɪs(2), dʒɪ, dʒɪp, ni, niɪkʰ, siɪ(2), siɪk, sɪɪ, stiɪ, stiɪŋk, slɪtʃ, ɹɪɪŋ(2), liɪt, jɪɪks, ɡɪɪʃ, ɡɪɪk,
 wɪɪft,
 ble, bɹe, mek, fe, net, stɹe(2), le, ge,
 fo, to, no, ɹo, go, wo(2),
 ə(5), pəʰtʃ(2), pəd, bə, bəʰtʃ, fə, fəʰŋ, fəʰtʃ, tʰə, təʰŋ, tʰə, də, nə(2), nəf, rəʰtʃ, rəʰd, rəʰŋ, rəd, Өəʰtʃ, səʰŋ, sə, stəʰŋ, zəʰŋ, zə, ʃəŋ, ʃəs, ʃə(2) ɹəʰtʃ, ɹəʰŋs, lə, ləf, jə,
 kəʰtʃ, kəʰn, kə(2), ɡəʰd, hə, həʰm,
 ə(2), pə, bəʰd, fə, təʰd, də(2), nə, rə, ʃə, ɡə, ɡəʰd,
 ek(2), eks, ɛs, plɛk, mɛӨ, tɛɪ(2), dɛɪ, dɹɛɪ, dʒɛ, nɛs, ʃɛ, rɛ, kɛɪ, kɹɛ,
 flœ,
 ɹn, flɹ, skɹɹ, ɹɹnd, jɹɹχ, kɹɹm, wɹ, wɹn,
 ɹɹ, tɔld,
 æk(3), æ, æz, pæ, plæm, mæz, væʰtʃ, tæ, skæ, spæn, sæn, zæ, fæn, ɹæk, ɹænd, læst, læm, jæk, kɹæ, kɹæm, kræk, ɡæ, ɡɹæs, hædʒ,
 a(2), ak, ban, stad, ɹat, ɹad, ɹak, ja, glas, waf,
 a, aɪ(2), aɪt, aɪk(2), ba(2), ban, baʰtʃ, baɪ, maɪ, fa, dɪaɪ, daʰd, dʒaɪ, san, stɹamt, skaɪ, ska, saɪ, stɹa, la, laɪ, kaɪ, ka, kɹa, kla, hak, ha

Supra-Segments: Whole Words

Whole Word Total per Word Length

Whole Monosyllables:

eekt [iʰkt], hadge [hædʒ], krak [kʰræk], strahmt [stɹamt], yiks [jɪks], klookt [kʰluʷkt], freeg [fɹiʰg], yuh [jɹχ], ark [aɪk], ak [æk], ride [ɹaʰd], roo [ɹuʷ], ahr [aɹ], plam [pʰlæm], gllice [ɡlaʰs], peekt [pʰiʰkt], wowsh [waʷʃ], slich [slɪtʃ], wift [wɪft], rouk [ɹaʷk], faw [fa], pilnse [pʰɪɪns], drale [dɹɛɪʰ], grood [ɡɹuʷd]

Whole Bisyllables:

FLUHBurd ['flʌ·bəd], HAHKtin ['hak·tɪn], FRIMtin ['fɪm·tɪn], YAlzee ['jaʲ·ziʲ], HAHdoon ['ha·duʷn], AZnuf ['æz·nəf], METHruhl ['mɛθ·ɹʰ], SOOpeesh ['su·pɪʃ], SLIHpook ['slɪ·pʰuʷk], FORshan ['fɔɹ·ʃæn], AIyee ['aʲ·jiʲ], ARbish ['aɹ·bɪʃ], WOEyak ['woʷ·jæk], BLAYgurd ['bleʲ·gəd], ARTfuhn ['aɹt·fəŋ], KREHrunce ['kʰɹɛ·ɹəŋs], SHEHree ['ʃɛ·jiʲ], AKsum ['æk·səm], INstray ['ɪn·stɹeʲ], BRAYkuh ['bɹəʲ·kə], WOdühr ['woʷ·rə], SKRUHpul ['skɹʌ·pʰ], AHhum ['a·həm], VEENGgo ['vɪŋ·goʷ], STRAHpul ['stɹa·pʰ], PLEKsik ['pʰlɛk·sɪk], URLuhf ['ə·ləf], WUHdrahr ['wʌ·dɹaɹ], UNlit ['ʌn·lɪt], TERno ['tʰɛɹ·noʷ], ZAvich ['zæ·vɪtʃ], KRATHul ['kʰɹæ·θʰ], IKEtin ['aʲk·tɪn], NURjip ['nʌ·dʒɪp], BAHLturd ['baʰ·təd], URGuld ['ə·gʷd], SAHRdzahr ['saɹ·dzaɹ], EErte ['iʲ·ɹaʲt], LAHRgish ['laɹ·gɪʃ], FRITul ['fɹɪ·rʰ], Akul ['æ·kʰ], LAMPur ['læm·pə], BAHNshoof ['ban·ʃuʷf], TAtold ['tʰæ·tɔʰd], VALsahn ['væʰ·san], HOOroo ['huʷ·ɹuʷ], KRAHduld ['kʰɹa·rʰd], SKARfoe ['skaɹ·foʷ], AKbahr ['æk·baɹ], REENTun ['ɹiʲn·təŋ], BAHrook ['ba·ɹuʷk], STIHful ['stɪ·fʰ], shuhREEF [ʃə·'ɹiʲf:], fleuREU [flœ·'ɹi], suhRAND [sə·'ɹænd], klahSTOWD [kla·'staʰd], aHEE [a·'hi], reeKRAM [ɹiʲ·'kʰɹæm], zuhLAST

[zə·'læst], fuRUND [fə·'ɹʌnd], vihTREED [vi·'tʰɹiʲd], mahrLEED [maɹ·'liʲd], eeKAH [iʲ·'kʰa], peeMINT [pʰiʲ·'mɪnt]

Whole Trisyllables:

RAKshuhnaye ['ɹæk·ʃə·neʲt], WUNdurstun ['wʌn·də·stəŋ], KAHRunhree ['kʰaɹ·nə·ɹiʲ], JIHgurboun ['dʒɪ·gə·baʷn], TAIRshureeng ['tʰɛɹ·ʃə·ɹɪŋ], GRASyoulay ['gɹæs·tʃuʷ·leʲ],

disROWduhn [dɪs·'ɹoʷ·rəŋ], arkTOOwin [aɹk·'tʰuʷ·ɪn], huhFAYshus [hə·'feʲ·ʃəs], uhLAHpuid [ə·'la·pəd], uhBAHtruh [ə·'ba·tɹə], disKERToe [dɪs·'kɛɹ·toʷ], mazGOObul [mæz·'guʷ·bʰ], esTINik [ɛs·'tɪ·nɪkʰ], jesTINKshun [dʒɛ·'stɪŋk·ʃəŋ], kuhnDERnoo [kən·'dɛɹ·nuʷ], uhGAZuhm [ə·'gæ·zəŋ]

Whole Tetrasyllables:

SKATuhrehnes ['skʰæ·tʰə·r:ɛ·nɛs:], KUMbyuhluhtiv ['kʰʌm·bʲə·lə·tɪv], EKSFurgaytud ['ɛks·fə·geʲ·rədʰ], ekSPANduhmayke [ɛk·'spæn·də·meʲk], glikSANDurdahld [ɡlɪk·'sæn·də·dʰd], ekSTRAYneeuh [ɛk·'stɹeʲ·niʲ·jə], sisKAHreeuh

[sɪ·'ska·ɹiʲ·ə], sihREENGgheeuh [sɪ·'ɹɪŋ·giʲ·ə]

nihkuhPANnuh [nɪ·kə·'pʰæ·nə]

Whole Pentasyllables:

Unstressed Coda: m, f#, t#, t^h#(2), d#(6), n(10), n#(9), Θ#, s#(3), z#(2), ɹ(4), ɹ#, t(3), t#, k, k#(3), η#

Segment Total for Onsets and Codas

Onset: #p^h(6), p^h(5), p(3), #b(8), b(9), #m(5), m(7), #f(5), f(8), v(3), #t^h(3), t(9), t^h(6), #d(6), d(10), dʒ, #n, n(11), r, r(3), #Θ, Θ(2), #ð, #s(13), #sɹ, s(15), #z(3), z(7), #ʃ(2), ʃ(4), ʒ, #ɹ(5), ɹ(20), #l(8), l(28), l^j, #j, j(4), #k^h(10), #k(4), k(9), k^h(2), #g(3), g(4), #w(5), w(11), #h(2), h(3)

Coda: p, b, b#, m, f#, t, t#(3), t^h#(3), d, d#(7), n(24), n#(10), Θ#, s(3), s#(5), z(3), z#(2), ʃ, ʃ#, ʒ, ɹ(10), ɹ#(7), t(6), t#(4), k(3), k#(5), η(2), η#(2)

Segment Total for Stressed and Unstressed Syllables and Monosyllables

Monosyllable Segment: p, #p^h, #b(2), b#, #f, t, t#, d#, n(2), s#, #s(2), #sɹ, z, ʃ#, #ʃ, ɹ(2) ɹ#, l(2), t#, #k^h(2), k#(2), η, η#, #w(2)

i^j, ɪ(2), o^w, o^w#(2), ɔ, æ(2), a(3)

First Syllable Segment Stressed: #p^h(5), p, b, #m(3), #f(3), #t^h(2), #d(3), d, n(11), #n, #Θ, #s(7), s(2), #z, z, ʒ, #ɹ(2), ɹ(4), #l(7), l(3), t(3), #j, #k^h(4), #k, k, #g(2), η, #w(3), #h

#i^j(2), #i, i^j(8), u^w(4), #u^w, ɪ(8), e^j, o(2), o^w(2), ε(4), ɔ, #Λ, Λ, æ(5), a^j(2), #a^j, a(9), #a(3)

First Syllable Segment Unstressed: #b(6), #m(2), m, #f, #t^h, #d(3), n(6), #ð, #s(4), #z(2), #ʃ, #ɹ(3), ɹ(3), #l, t, #k^h(4), #k(3), k, #g, w, #h

i^j(3), #u^w(2), u^w, u, #ɪ, ɪ(4), ʊ, e, o^w(2), ə(11), #ə(3), ə, ε(2), #ε, ɔ, æ, a^w, #a^w, a(4), #a(4)

Second Syllable Segment Stressed: p, p^h(2), b(2), m, v, t^h(3), t#, t^h#, d(2), n(5), n#, s(4), s#, z(4), ʃ, ɹ(7), ɹ#(2), l(7), t#(2), k(2), k^h, g, w(2)

i^j(6), u^w(4), ɪ(4), e^j#, e^j(2), o^w, o, ε(2), ε^j, æ^j, æ(3), a, a^w, a(7), a#

Second Syllable Segment Unstressed: p^h(3), p, b(5), m(3), əm#, əm, f(6), f#, v(2), t(5), t^h, t#, t^h#, d#(3), d(6), dʒ, n(6), n#(5), əŋ#(4), əŋ(2), r, r, Θ#, s(7), s#(2), z(2), z#, ʃ(2), ɹ(3), ɹ#, l(6), t, t#(3), j(2), k(5), k^h, k#(2), g(2), w(4), h

i^j(2), i^j#(2), i, u^w(2), u^w#, ɪ(6), e^j#, ə#(2), o^w#(3), ə(14), ə#(2), ə(2), ε(4), æ(3), æ#, a#, a^j, a^j#, a(6), a#

Third Syllable Segment Stressed: d, n, s, z, ɹ, l, k, h

u^w, e^j(2), o, ə#, Λ#, ɔ, a^j

Third Syllable Segment Unstressed: b(2), m, əm#, f(2), t^h, t(4), t^h#, d#(3), d, n(4), n#(2), əŋ#(2), r(2), Θ, s(3), z, z#, ʃ(2), ʒ, ɹ(5), l(6), t, t#, t^h, t^h#(2), j(2), k(2), k#, g, w(4)

i^j(3), i^j#, u^w#(2), ɪ, ʊ, e^j#(2), o^w#(6), ə(5), ə#(4), ə(2), ə, ε, æ, a#, a#(2), a(4)

Fourth Syllable Segment Stressed: t^h

a

Fourth Syllable Segment Unstressed: m(2), n#(2), Θ, s, s#, ɹ(2), l(3), l^j, η#, h

i^j#, i^j, ɪ(2), e^j#, o^w#(2), ə#(3), a#, a(2), a#(2)

Fifth Syllable Segment Stressed:

Fifth Syllable Segment Unstressed: ɹ

e^j#, ə#

Segment Total by Syllable

First Syllable Segment: #p^h(5), p, b, #b(6), #m(5), m, #f(4), #t^h(3), #d(6), d, n(17), #n, #Θ, #ð, #s(11), s(2), #z(3), z, #ʃ, ʒ, #ɹ(5), ɹ(7), #l(8), l(3), t(4), #j, #k^h(8), #k(4), k(2), #g(3), η, w, #w(3), #h(2)

#i^j(2), #i, i^j(11), u, u^w(5), #u^w(3), ɪ(12), #ɪ, ʊ, e^j, e, o(2), o^w(4), ə(11), ə#(3), ə, ε(6), #ε, ɔ(2), #Λ, Λ, æ(6), a^j(2), #a^j, a^w, #a^w, a(13), #a(7)

Second Syllable Segment: p^h(5), p(2), b(7), m(4), ɱ#, ɱ, f(6), f#, v(3), t(5), t^h(4), t^ʰ(2), d^h(3), d(8), dʒ, n(11), n^h(6), ɳ^h(4), ɳ(2), r, ɾ, θ#, s(11), s^h(3), z(6), z#, ʃ(3), ʒ(10), ʒ^h(3), l(13), l^h(2), t^ʃ(3), ʃ(2), k(7), k^h(2), k^ʰ(2), g(3), w(6), h

i^j(8), i^j(2), i, u^w(6), u^w#, ɪ(10), e^j(2), eⁱ(2), o^h(2), o^wh(3), o^w, o, ə(14), ə^h(2), ə^ʰ(2), ε(6), ε^j, æ(6), æ^j, æ#, a, a^h, a^j, aⁱh, a^w, a(13), a^h(2)

Third syllable Segment: b(2), m, ɱ#, f(2), t^h, t(4), t^ʰh, d^h(3), d(2), n(5), n^h(2), ɳ^h(2), ɾ(2), θ, s(4), z(2), z#, ʃ(2), ʒ, ʒ(6), l(7), l^h, t^ʃ, t^ʃh(2), j(2), k(3), k^h, g, w(4), h

i^j(3), i^jh, u^wh(2), u^w, ɪ, ʊ, e^jh(2), e^j(2), o, o^wh(6), ə(5), ə^h(4), ə^ʰh(3), ə^ʰ, ε, ʌ^h, ɔ, æ, a^h, a^j, a^h(2), a(4)

Fourth Syllable Segment: m(2), t^h, n^h(2), θ, s, s^h, ʒ(2), l(3), l^j, ɳ^h, h

i^jh, i^j, ɪ(2), e^jh, o^wh(2), ə^h(3), a^h, a(3), a^h(2)

Fifth Syllable Segment: ʒ

e^jh, ə^h

Segment Stressed and Unstressed Total

Stressed Segment: #p^h(5), p^h(2), p(2), b(3), #m(3), m, #f(3), v, #t^h(2), t^h(4), t^ʰh, t^ʰh, #d(3), d(4), n(17), #n, n^h, #θ, #s(7), s(7), s^h, #z, z(6), ʃ, ʒ, #ʒ(2), ʒ^h(2), ʒ(12), #l(7), l(11), l^h(3), t^ʃh(2), #j, #k^h(4), k^h, #k, k(4), #g(2), g, ɳ, #w(3), w(2), #h, h

#i^j(2), #i, i^j(14), u^w(9), #u^w, ɪ(12), e^jh, e^j(5), o(4), o^wh(3), ə^h, ε(6), ε^j, ɔ(2), #ʌ, ʌ^h, ʌ, æ(8), æ^j, a^j(3), #a^j, a, a^w, a(17), #a(3), a^h

Unstressed Segment: p^h(3), p, b(7), #b(6), #m(2), m(7), ɱ#(2), ɱ, f(8), f#, #f, v(2), t(9), t^h(2), #t^h, t^ʰh, t^ʰh(2), d^h(6), #d(3), d(7), dʒ, n(16), n^h(9), ɳ^h(6), ɳ(2), r, ɾ(3), θ(2), θ^h, #ð, s(11), s^h(3), #s(4), z(3), z^h(2), #z(2), ʃ(4), #ʃ, ʒ, ʒ(14), ʒ^h, #ʒ(3), l(15), #l, l^j, l^j(3), t^ʃh, t^ʃh(5), j(4), k(8), k^h, #k^h(4), #k(3), k^h(3), g(3), #g, ɳ^h, w(9), h(2), #h

i^j(9), i^jh(4), i, u^w(3), #u^w(2), u^wh(3), u, ɪ(13), #ɪ, ʊ(2), e, e^jh(5), o^h(2), o^wh(2), o^wh(11), ə(30), ə^h(10), #ə(3), ə^ʰ(4), ə^ʰh(2), ε(7), #ε, ɔ, æ(5), æ^h, a^h(3), #a^w, a^j, aⁱh, a^w, a(16), a^h(5), #a(4)

Segment Total (absolute)

Narrow: p^h(5), #p^h(6), p(4), b(10), #b(8), b^h, #m(5), m(8), ɱ#(2), ɱ, f(8), f#, #f(5), v(3), t(10), t^h(6), #t^h(3), t^ʰh(3), t^ʰh(3), d^h(7), #d(6), d(11), dʒ, n(35), #n, n^h(10), ɳ^h(6), ɳ(2), r, ɾ(3), θ(2), #θ, θ^h, #ð, s(18), s^h(5), #s(13), #sɪ, z(10), z^h(2), #z(3), ʃ(5), #ʃ, #ʃ(2), ʒ(2), ʒ(28), ʒ^h(4), #ʒ(5), l(28), #l(8), l^j, l^j(6), t^ʃh(4), t^ʃh(5), j(4), #j, k(8), k^h(2), #k^h(10), #k(4), k^h(5), g(4), #g(3), ɳ^h(2), ɳ(2), w(11), #w(5), h(3), #h(2)

i^j(24), i^jh(4), #i^j(2), #i, i, u^w(12), #u^w(3), u^wh(3), u, ɪ(27), #ɪ, ʊ(2), e, e^jh(6), e^j(5), o(4), o^h(2), o^wh(6), o^wh(13), ə(30), ə^h(10), #ə(3), ə^ʰ(4), ə^ʰh(3), ε(13), #ε, ε^j, #ʌ, ʌ^h, ʌ, ɔ(4), æ(15), æ^j, æ^h, a, a^h(3), #a^w, a^j(4), aⁱh, #a^j, a^w(2), a(36), a^h(6), #a(7)

Broad: p(15), b(19), m(16), f(14), v(3), t(25), d(24), dʒ, n(54), r, ɾ(3), θ(4), ð, s(37), z(15), ʃ(8), ʒ(2), ʒ(37), l(37), l^h(16), j(5), k(29), g(7), ɳ(4), w(16), h(5)

i(32), u(19), ɪ(28), ʊ(2), e(12), o(25), ə(43), ə^ʰ(7), ε(15), ʌ(3), ɔ(4), æ(17), a(13), a(49)

Supra-Segments: Consonant Clusters

Consonant Cluster Total for Stressed and Unstressed Syllables and Monosyllables according to Syllable Configuration

Monosyllable Consonant Cluster Onset (all entries are word initial): #fɪ, #spl, #k^hl

Monosyllable Consonant Cluster Coda (all entries are word final): nd^h, nt^h, ztk^h, ʒs^h, ɳk^h

First Syllable Consonant Cluster Stressed Onset (all entries are word initial): #p^hl, #fl, #sn, #k^hl

First Syllable Consonant Cluster Stressed Coda:

First Syllable Consonant Cluster Unstressed Onset (all entries are word initial): #dɪ, #k^hw

First Syllable Consonant Cluster Unstressed Coda:

Second Syllable Consonant Cluster Stressed Onset: spl, kl

Second Syllable Consonant Cluster Stressed Coda: ks^h

Second Syllable Consonant Cluster Unstressed Onset: fl, fɪ, sw, ft, kw

Second Syllable Consonant Cluster Unstressed Coda: m̥d#, ɲs#, nz#, t̥d#

Third Syllable Consonant Cluster Stressed Onset:

Third Syllable Consonant Cluster Stressed Coda:

Third Syllable Consonant Cluster Unstressed Onset: bɹ, st(2), gw

Third Syllable Consonant Cluster Unstressed Coda: t̥z#, t̥d

Fourth Syllable Consonant Cluster Stressed Onset:

Fourth Syllable Consonant Cluster Stressed Coda:

Fourth Syllable Consonant Cluster Unstressed Onset:

Fourth Syllable Consonant Cluster Unstressed Coda:

Fifth Syllable Consonant Cluster Stressed Onset:

Fifth Syllable Consonant Cluster Stressed Coda:

Fifth Syllable Consonant Cluster Unstressed Onset:

Fifth Syllable Consonant Cluster Unstressed Coda:

Consonant Cluster Total for Stressed and Unstressed Onsets and Codas

Stressed Onset: #p^hl, #fl, #sn, spl, kl, #k^hl

Stressed Coda: ks#

Unstressed Onset: bɹ, fl, fɹ, #dɹ, st(2), sw, ft, kw, #k^hw, gw

Unstressed Coda: m̥d#, ɲs#, nz#, t̥z#, t̥d, t̥d#

Consonant Cluster Total for Onsets and Codas

Onset: #p^hl, bɹ, #fl, fl, #fɹ, fɹ, #dɹ, #sn, st(2), sw, #spl, spl, ft, kw, kl, #k^hw, #k^hl(2), gw

Coda: m̥d#, ɲs#, nz#, nd#, nt#, ztk#, ɹs#, t̥z#, t̥d, t̥d#, ks#, ɲk#

Consonant Cluster Total for Stressed and Unstressed Syllables and Monosyllables

Monosyllable Consonant Cluster: #fɹ, nd#, nt#, #spl, ztk#, ɹs#, #k^hl, ɲk#

First Syllable Consonant Cluster Stressed: #p^hl, #fl, #sn, #k^hl

First Syllable Consonant Cluster Unstressed: #dɹ, #k^hw

Second Syllable Consonant Cluster Stressed: spl, kl, ks#

Second Syllable Consonant Cluster Unstressed: m̥d#, fl, fɹ, ɲs#, nz#, sw, ft, t̥d#, kw

Third Syllable Consonant Cluster Stressed:

Third Syllable Consonant Cluster Unstressed: bɹ, st(2), t̥z#, t̥d, gw

Fourth Syllable Consonant Cluster Stressed:

Fourth Syllable Consonant Cluster Unstressed:

Fifth Syllable Consonant Cluster Stressed:

Fifth Syllable Consonant Cluster Unstressed:

Consonant Cluster Total per Syllable

First Syllable Consonant Cluster: #p^hl, #fl, #dɹ, #sn, #k^hl, #k^hw

Second Syllable Consonant Cluster: m̥d#, fl, fɹ, ɲs#, nz#, sw, spl, ft, t̥d#, kw, kl, ks#

Third Syllable Consonant Cluster: bɹ, st(2), t̥z#, t̥d, gw

Fourth Syllable Consonant Cluster:

Fifth Syllable Consonant Cluster:

Consonant Cluster Stressed and Unstressed Total

Consonant Cluster Stressed: #p^hl, #fl, #sn, spl, #k^hl, kl, ks#

Consonant Cluster Unstressed: bɹ, mɹd#, fl, fɹ, #dɹ, ɲs#, nz#, sw, st(2), ʃt, ʈd#, ʈz#, ʈd, kw, #kʰw, gw

Consonant Cluster Total (absolute)

Narrow: #pʰl, bɹ, mɹd#, fl, #fl, fɹ, #fɹ, #dɹ, ɲs#, nz#, nd#, nt#, sw, st(2), #sn, spl, #spl, ztk#, ʃt, ɹs#, ʈd#, ʈz#, ʈd, kw, #kʰw, #kʰl(2), kl, ks#, gw, ŋk#

Broad: pl, bɹ, md, fl(2), fɹ(2), dɹ, ns, nz, nd, nt, sw, st(2), sn, spl(2) ztk, ʃt, ɹs, ʈd(2), ʈz, kw(2), kl(3), ks, gw, ŋk

Supra-Segments: Whole Syllables

Whole Syllable Total for Stressed and Unstressed Syllables and Monosyllables

Monosyllable Whole Syllable:

#fɹiʃf#,
#splɪŋk#, #sɪztk#,
#soʷ#, #kʰoʷ#, #woʷt#,
#wɔŋ#,
#fænd#, #kʰlænt#,
#pʰaɹ#, #baɹs#, #bab#

First Syllable Whole Syllable Stressed (all entries are word initial):

#i, #iʲ(2), #pʰiʲ, #tʰiʲ, #diʲ, #siʲ, #sin, #ziʲ, #kʰiʲ, #wiʲ,
#uʷ, #buʷ, #luʷ, #luʷn, #kʰuʷ, #wuʷ,
#pʰɪ(2), #flɪn, #θɪn, #ɹɪs, #ɪn, #kʰɪ, #hɪn,
#weʲ,
#moʷ, #lo, #loʷ, #ko,
#pʰlɛ, #dɛ, #sɛ, #sɛp,
#ʌt, #sʌ,
#pʰɔɹ,
#næ, #snæɹ, #sæn, #kʰlæk, #gæs,
#aʲz, #tʰaʲ, #jaʲ,
#a, #ab, #at, #mad, #man, #fat, #fa, #daɹ, #laɹʒ, #laŋ, #ɹan, #gan

First Syllable Whole Syllable Unstressed (all entries are word initial):

#ɹɪʲ(2), #kʰɪʲ,
#uʷ(2), #buʷ, #zum,
#ɪt, #bɪ, #sɪn, #kʰwɪn, #hɪ,
#ʃʊ,
#be,
#boʷ, #tʰoʷ,
#ə(3), #bə, #mə, #fə, #dɹə, #də(2), #ðə, #sə, #ɹə, #kə, #gə,
#səʷ,
#ɛk, #mɛ, #kɛn,
#ɔ,
#kʰæn,
#aʷ, #zaʷ,
#a(2), #an, #aɹ, #baɹ, #sa, #kʰan, #ka

Second Syllable Whole Syllable Stressed:

pʰiʲ, miʲʃ, tʰiʲ, niʲ, spliʲtʰ#, liʲ,
tʰuʷ, ɹuʷ, luʷ,
nɪ, sɪ, ɹɪ, kʰɪ,
ɹeʲ, weʲ#, weʲ,
bo, soʷn#,
dɛks#, nɛz, zeʲtʰ#,
zæ, ɹæn, klæʲɹ#, gæn,
tʰa, laʷ,

p^haɪ, vaɪ#, da, za, ɹat#, ɹa#, las, laɪ#

Second Syllable Whole Syllable Unstressed:

diⁱ, dʒiⁱ#, ri, lin#, kwiⁱ#,

nu^w#, ɹu^wn#, kju^w,

tɪk#, zɪn, ɹɪnz#, lɪt#, lɪn#, wɪθ#,

do^w#, so^w#, ko#, go^w#, ho#,

p^hə(2), pə, bə, bɪ#, mən, mə, fɹə#, v^əŋs#, vɪ#, də(2), nə, əŋ#, rə, s^əŋ#(2), sə(2), s^əm#, z^əmɪd#, ʃt^əŋ#, ʃəs#, lə#, jə, kɪ#, gə, fə, də,

bɛ, mɛd#, t^hɛk#, tɛn,

flæ#, fæ, də, k^hæn,

bɑⁱ, tɑⁱ#, tɑ#,

p^ha#, bɑɪd#, faɪ#, fat^ɪ#, swaf#, lan#, wan#

Third Syllable Whole Syllable Stressed:

nu^w,

deⁱ, heⁱ,

so,

læt^ɪ#,

lʌ#,

zɔ,

ɹɑⁱ

Third Syllable Whole Syllable Unstressed:

niⁱ#, riⁱ, θiⁱn#, ʒiⁱ,

ɹu^w#, ju^w#,

stɪk#,

fʊɪ#,

meⁱ#, keⁱ#, gweⁱ#,

o^w#, to^w#, zo^w#, ɹo^w#, lo^w#(2),

əŋ#, nə, rə, stə#, stə, ʃəŋ#, ɹə#, lə#, lə, ləŋ#, jɪt^ɪz#, kə#, kɪ#, wɪt^ɪ#,

fə, də#, kə#, wə#,

bɪɛd#,

næ,

bɑ#,

ɑɪd#, t^ha#, nan#, ʃɑ#, ɹad#, wɑ

Fourth Syllable Whole Syllable Stressed:

t^ha

Fourth Syllable Whole Syllable Unstressed:

ɹɪⁱ#, liⁱ,

ɪs#, mɪn#,

ɹeⁱ#,

o^w#, lo^w#,

ə#, mə#, lɪə#,

sɑ#,

θan#, lan#, ha#

Fifth Syllable Whole Syllable Stressed:

Fifth Syllable Whole Syllable Unstressed:

ɹeⁱ#,

ə#

Whole Syllable Total per Syllable

First Syllable Whole Syllable (all entries are word initial):

#i, #iⁱ(2), #p^hiⁱ, #t^hiⁱ, #diⁱ, #siⁱ, #sin, #ziⁱ, #ɹiⁱ(2), #k^hiⁱ(2), #wiⁱ,

#u^w(3), #bu^w(2), #zum, #lu^w, #lu^wn, #k^hu^w, #wu^w,

#ɪ, #pʰɪ(2), #bɪ, #flɪn, #θɪn, #sɪn, #ɹɪs, #lɪn, #kʰɪ, #kʰwɪn, #hɪ, #hɪn,
 #ʃʊ,
 #be, #weⁱ,
 #bo^w, #mo^w, #tʰo^w, #lo, #lo^w, #ko,
 #ə(3), #bə, #mə, #fə, #dɪə, #də(2), #ðə, #sə, #ɹə, #kə, #gə,
 #sə,
 #ɛk, #pʰɛ, #mɛ, #dɛ, #sɛ, #sɛp, #kɛn,
 #ʌt, #sʌ,
 #pʰɔɹ, #ɔ,
 #næ, #snæɹ, #sæn, #kʰlæk, #kʰæn, #gæs,
 #a^w, #aⁱz, #tʰaⁱ, #za^w, #jaⁱ,
 #a(3), #ab, #aɪ, #an, #aɹ, #baɹ, #mad, #man, #faɪ, #fa, #daɹ, #sa, #laɹɹ, #laŋ, #ɹan, #kʰan, #ka, #gan

Second Syllable Whole Syllable:

pʰɪⁱ, mi^ɹʃ, tʰɪⁱ, diⁱ, dʒiⁱ#, niⁱ, splɪt^ː#, ri, liⁱ, lin#, kwiⁱ#,
 tʰu^w, nu^w#, ɹu^wn#, ɹu^w, lu^w, kju^w,
 tɪk#, nɪ, sɪ, zɪn, ɹɪ, ɹɪnz#, lɪt#, lɪn#, kʰɪ, wɪθ#,
 ɹeⁱ, weⁱ#, weⁱ,
 bo, do^w#, so^w#, so^wn#, ko#, go^w#, ho#,
 pʰə(2) pə, bə, bɛt#, mən, mə, fɪə#, vɔŋs#, vɛt#, də(2), nə, ɹŋ#, rə, sɔŋ#(2), sə(2), sɔm#, zɔmɪd#, ʃtɔŋ#, ʃəs#, lə#, jə, kɛt#, gə,
 fə, də,
 bɛ, mɛd#, tʰɛk#, tɛn, dɛks#, nɛz, zɛtʰ#,
 flæ#, fæ, dæ, zæ, ɹæn, klæɹɹ#, kʰæn, gæn,
 baⁱ, tʰa, taⁱ#, ta#, la^w,
 pʰa#, pʰaɹ, bɔtɪd#, faɹɹ, fat^ː#, vaɹɹ, da, swaf#, za, ɹat#, ɹa#, las, lat#, lan#, wan#

Third Syllable Whole Syllable:

niⁱ#, riⁱ, θɪn#, ɹɪⁱ,
 nu^w, ɹu^w#, ju^w#,
 stɪk#,
 fʊt#,
 meⁱ#, deⁱ, keⁱ#, gweⁱ#, heⁱ,
 o^w#, to^w#, so, zo^w#, ɹo^w#, lo^w#(2),
 ɹŋ#, nə, rə, stə#, stə, ʃɔŋ#, ɹə#, lə#, lə, lɔŋ#, lət^ː#, jɛtɹ#, kə#, kɛt#, wɛt#,
 fə, də#, kə#, wə#,
 bɪɛd#,
 lʌ#,
 zɔ,
 næ,
 ba#, ɹaⁱ,
 ɔtɪd#, tʰa#, nan#, ʃa#, ɹad#, wa

Fourth Syllable Whole Syllable:

ɹɪⁱ#, liⁱ,
 ɪs#, mɪn#,
 ɹeⁱ#,
 o^w#, lo^w#,
 ə#, mə#, lɪə#,
 sa#,
 tʰa, θan#, laŋ#, ha#

Fifth Syllable Whole Syllable:

ɹeⁱ#,
 ə#

Whole Syllable Stressed and Unstressed Total

Whole Syllable Stressed:

#ɪ, #ɪ(2), #pʰɪ, pʰɪ, mi^ɹʃ, #tʰɪ, tʰɪ, #diⁱ, niⁱ, #siⁱ, #sin, splɪt^ː#, #ziⁱ, liⁱ, #kʰɪ, #wiⁱ,

#u^w, #bu^w, t^hu^w, nu^w, ju^w, lu^w, #lu^w, #lu^wn, #k^hu^w, #wu^w,
 #p^hi(2), #flin, #θin, si, #jis, ɹi, #lin, #k^hi, k^hi, #hin,
 deⁱ, jeⁱ, #weⁱ, weⁱ#, weⁱ, heⁱ,
 bo, #mo^w, so^wn#, so, #lo, #lo^w, #ko,
 lət^ʔ#,
 #p^hlɛ, #dɛ, dɛks#, nɛz, #sɛ, #sɛp, zɛⁱt#,
 #ʌt, #sʌ, lʌ#,
 #p^hɔɹ, zɔ,
 #næ, #snæɹ, #sæn, zæ, ɹæn, klæⁱɹ#, #k^hlæk, #gæs, gæn,
 #aⁱz, #t^haⁱ, t^ha, ɹaⁱ, la^w, #jaⁱ,
 #a, #ab, #aʔ, p^haɹ, #mad, #man, #faʔ, #fa, vaɹ#, t^ha, da, #daɹ, za, ɹat#, ɹa#, #ɹan, las, laʔ#, #laɹɜ, #lan, #gan

Whole Syllable Unstressed:

diⁱ, dʒiⁱ#, niⁱ#, ri, riⁱ, θiⁱn#, ʒiⁱ, #ɹiⁱ(2), ɹiⁱ#, lin#, liⁱ, kwiⁱ#, #k^hiⁱ,
 #u^w(2), #bu^w, nu^w#, #zum, ɹu^w#, ɹu^wn#, ju^w#, kju^w,
 #ɹɪ, ɪs#, #bɪ, min#, tɪk#, #sɪn, stɪk#, zɪn, ɹɪnz#, lɪt#, lɪn#, #k^hwin, wɪθ#, #hɪ,
 fuʔ#, #fʊ,
 #be, meⁱ#, jeⁱ#, keⁱ#, gweⁱ#,
 o^w#, #bo^w, #t^ho^w, to^w#, do^w#, so^w#, zo^w#, ɹo^w#, lo^w#, ko#, go^w#, ho#,
 #ə(3), ə#(2), p^hə(2) pə, bə, bəʔ#, #bə, ɹm̩#, mən, mə, mə#, #mə, #fə, fɹə#, v̩ɹs#, v̩ɹʔ#, də(2), #də(2), #dɹə, nə(2), ɹə(2), #ðə, stə#, stə,
 s̩ɹn̩#(2), #sə, sə(2), s̩ɹm̩#, z̩ɹm̩d#, f̩t̩ɹn̩#, f̩əs#, f̩ɹn̩#, #ɹə, ɹə#, lə#(2), lə, l̩ɹn̩#, l̩ɹə#, jə, j̩ɹz#, k̩ɹʔ#(2), kə#, #kə, gə, #gə, w̩ɹʔ#,
 fə(2), də, dəʔ#, #sə, kəʔ#, wəʔ#,
 #ɛk, bɛ, bɹɛd#, #mɛ, mɛd#, t^hɛk#, tɛn, #kɛn,
 #ɔ,
 flæ#, fæ, dæ, næ, k^hæn, #k^hæn,
 #a^w, ba#, baⁱ, taⁱ#, ta#, sa#, #za^w,
 #a(2), #an, #aɹ, aʔd#, p^ha#, baʔd#, #baɹ, faɹ#, fat^ʔ#, t^ha#, nan#, θan#, #sa, swaf#, fa#, ɹad#, lan#, lan#, #k^han, #ka, wa, wan#, ha#

Whole Syllable Total (absolute)

Narrow:

#i, #iⁱ(2), #p^hiⁱ, p^hiⁱ, miⁱf, #fɹiⁱf#, #t^hiⁱ, t^hiⁱ, #diⁱ, diⁱ, dʒiⁱ#, niⁱ#, ri, riⁱ, θiⁱn#, #siⁱ, #sin, spliⁱt^ʔ#, #ziⁱ, ʒiⁱ, #ɹiⁱ(2), ɹiⁱ#, lin#, liⁱ(2), kwiⁱ#,
 #k^hiⁱ(2), #wiⁱ,
 #u^w(3), #bu^w(2), t^hu^w, nu^w, nu^w#, #zum, ɹu^w#, ɹu^wn#, ju^w, lu^w, #lu^w, #lu^wn, ju^w#, kju^w, #k^hu^w, #wu^w,
 #ɹɪ, ɪs#, #p^hi(2), #bɪ, min#, #flin, tɪk#, #θin, si, #sin, stɪk#, #splɪŋk#, #sɪztk#, zɪn, ɹɪnz#, #jis, ɹi, lɪt#, #lin, lɪn#, #k^hwin, #k^hi, k^hi,
 wɪθ#, #hɪ, #hin,
 fuʔ#, #fʊ,
 #be, meⁱ#, deⁱ, jeⁱ, jeⁱ#, keⁱ#, gweⁱ#, #weⁱ, weⁱ#, weⁱ, heⁱ,
 o^w#, #bo^w, bo, #mo^w, #t^ho^w, to^w#, do^w#, so^w#, so, #so^w#, so^wn#, zo^w#, ɹo^w#, lo^w#, ko#, #ko, #k^ho^w#, go^w#, #wo^wɪ#, ho#,
 #ə(3), ə#(2), p^hə(2) pə, bə, #bə, bəʔ#, ɹm̩#, mən, mə, mə#, #mə, #fə, fɹə#, v̩ɹs#, v̩ɹʔ#, də(2), #də(2), #dɹə, nə(2), ɹə(2), #ðə, stə#, stə,
 s̩ɹn̩#(2), #sə, sə(2), s̩ɹm̩#, z̩ɹm̩d#, f̩t̩ɹn̩#, f̩əs#, f̩ɹn̩#, #ɹə, ɹə#, lə#(2), lə, l̩ɹn̩#, l̩ɹə#, jə, j̩ɹz#, k̩ɹʔ#(2), kə#, #kə, gə, #gə, w̩ɹʔ#,
 fə(2), də, dəʔ#, #sə, kəʔ#, wəʔ#,
 #ɛk, #p^hlɛ, bɛ, bɹɛd#, #mɛ, mɛd#, t^hɛk#, tɛn, #dɛ, dɛks#, nɛz, #sɛ, #sɛp, zɛⁱt#, #kɛn,
 #ʌt, #sʌ, lʌ#,
 #p^hɔɹ, zɔ, #ɔ, #wɔŋ#,
 flæ#, fæ, dæ, næ, #næ, #snæɹ, #sæn, zæ, #fænd#, ɹæn, k^hæn, #k^hæn, klæⁱɹ#, #k^hlæk, #k^hlænt#, #gæs, gæn,
 #a^w, #aⁱz, ba#, baⁱ, taⁱ#, ta#, #t^haⁱ, t^ha, sa#, #za^w, ɹaⁱ, la^w, #jaⁱ,
 #a(3), #an, #aɹ, #ab, #aʔ, aʔd#, p^ha#, p^haɹ, #p^haɹ#, #baɹs#, #bab#, baʔd#, #baɹ, #mad, #man, faɹ#, fat^ʔ#, #faʔ, #fa, vaɹ#, t^ha#, t^ha, da,
 #daɹ, nan#, θan#, #sa, swaf#, za, fa#, ɹad#, ɹat#, ɹa#, #ɹan, las, laʔ#, #laɹɜ, lan#, #lan, lan#, #k^han, #ka, #gan, wa, wan#, ha#

Broad:

i(3), pi(2) miⁱf, fiⁱf, ti(2), di(2), dʒi, ni(2), ri, ri, θin, si, sin, split, zi, ʒi, ɹi(3), lin, li(2), kwi, ki(2), wi,
 u(3), bu(2), tu, nu(2), zum, ɹu(2), ɹun, lu(2), lun, ju, kju, ku, wu,
 ɹɪ, ɪs, pɪ(2), bɪ, min, flin, tɪk, θin, si, sin, stɪk, splɪŋk, siztk, zɪn, ɹɪnz, jis, ɹi, lɪt, lɪn(2), kwin, ki(2), wɪθ, hi, hin,
 fuʔ, fʊ,
 be, me, de, je(3), ke, gwe, we(3), he,
 o(2), bo, bo, mo, to(2), do, so(3), son, zo, ɹo, lo(5), ko(3) go, woʔ, ho,
 ə(5), pə(3) bə(2), bəʔ, ɹm̩, mən, mə(3) fə, fɹə, v̩ɹs, v̩ɹʔ, də(4), dɹə, nə(2), ɹn̩, ɹə(2), ðə, stə(2), s̩ɹn̩(2), sə(3), s̩ɹm̩, z̩ɹm̩d, f̩t̩ɹn̩, f̩əs, f̩ɹn̩, ɹə(2) lə(3),

l̥əŋ, lə, lət, jə, j̥əʔz, kəʔ(2), kə(2), gə(2), wəʔ,
 fə(2), də(2), sə, kə, wə,
 ɛk, plɛ, bɛ, bɛd, mɛ, mɛd, tɛk, tɛn, dɛ, dɛks, nɛz, sɛ, sɛp, zɛʔ, kɛn,
 ʌʔ, sʌ, lʌ,
 pɔɹ, zɔ, lɔ, wɔŋ,
 flæ, fæ, dæ, næ(2), snæɹ, sæn, zæ, fænd, ɹæn, kæn(2), klæɹ, klæk, klænt, gæs, gæn,
 a, az, ba, ba, ta(4), sa, za, ɹa, la, ja,
 a(3), an, aɹ, ab, aʔ, aʔd, pa, paɹ(2), baɹs, bab, baʔd, baɹ, mad, man, faɹ, fat, faʔ, fa, vaɹ, ta(2), da, daɹ, nan, ʰən, sa, swaf, za, fa, ɹad, ɹat,
 ɹa, ɹan, las, laʔ, laɹʒ, lan, laŋ(2), kan, ka, gan, wa, wan, ha

Supra-Segments: Whole Words

Whole Word Total per Word Length

Whole Monosyllables:

bahb [bab], koh [kʰoʷ], shand [ʃænd], so [soʷ], freesh [fɹiʃ], pahr [pʰaɹ], wole [woʷʔ], splihnk [splɪŋk], klant [kʰlænt], wong [wɔŋ],
 siztk [sɪztk], barse [baɹs]

Whole Bisyllables:

POURsun [pʰɔɹ·səŋ], EEleen [i·lin], SEENtah [sin·ta], LAHNGun [laŋ·əŋ], LOWhoe [lo·ho], WEEbul [wiʲ·bəʔ], KOko [ko·ko],
 WAYfla [weʲ·flæ], DEEtehk [diʲ·tʰɛk], AHBshtun [ab·ʃtəŋ], YAIwahn [jaʲ·wan], ALLmed [aʔ·mɛd], EEjee [iʲ·dʒiʲ], SNARvunce
 [snæɹ·vəŋs], SANfahr [sæn·faɹ], LOOPah [luʷ·pʰa], LINlit [lin·lɪt], FAHLsum [faʔ·səŋ], OOsO [uʷ·soʷ], KLAKtik [kʰlæk·tɪk],
 MAHDSun [mad·səŋ], FAHrinz [fa·ɹɪnz], DEHZuhmd [dɛ·zəŋd], WOODoe [wuʷ·doʷ], KOOwith [kʰuʷ·wiθ], GASlahn [gæs·lan],
 SEHkuhl [sɛ·kəʔ], TEEgo [tʰiʲ·goʷ], THINluh [θɪn·lə], MAHNTie [man·taʲ], NAVuhl [næ·vəʔ], LARZHBahld [laɹʒ·baʔd], EEkwee [iʲ·kwiʲ],
 PEEswahf [pʰiʲ·swaf], MOfaht [moʷ·fatʔ], SEPshus [sɛp·ʃəs], SEEnoo [siʲ·nuʷ], RISlin [ɹɪs·lin], KEEroon [kʰiʲ·ɹuʷn], PIHfruh
 [pʰɪ·fɹə],

sinKLAIR [sin·klæɹ], reeDEKS [ɹiʲ·dɛks], booWAY [buʷ·weʲ], muhSOWN [mə·soʷn], guhRAHT [gə·ɹat], ekSPLEET [ɛk·splɪʔtʔ],
 theLAHL [ðə·laʔ], shuhRAH [ʃu·ɹa], zouVAR [zaʷ·vaɹ], uhZAIL [ə·zɛʔ]

Whole Trisyllables:

ahntehnoe [an·tɛn·oʷ], kahndagway [kʰan·dæ·gweʲ],

AHmuhnahn [a·mə·nan], KENnuhluh [kʰɪ·nə·lə], PLEHfurtaw [pʰlɛ·fə·tʰa], EYESbyeyulz [aʲz·baʲ·jəʔz], GONzinbread
 [gan·zin·bɛd], LOONduhrahd [luʷn·də·ɹad], TYkandur [tʰaʲ·kʰæn·də], FLINdurahld [flɪn·də·aʔd], LOWfakul [loʷ·fæ·kəʔ],
 SUKyoulow [sʌ·kjuʷ·loʷ], RAHNduhlun [ɹan·də·ləŋ], HINYuhluht [hin·jə·lətʔ], DAHRdeeful [daɹ·diʲ·fʊʔ], UHLSuhlow [ʌʔ·sə·loʷ],

iINEEzo [ɪʔ·niʲ·zoʷ], ooMEESHkuh [uʷ·miʃ·kə], fuhROOroo [fə·ɹuʷ·ɹuʷ], bihZAHro [bi·za·ɹoʷ], uhTOOwul [ə·tʰuʷ·wəʔ],
 buhDAHruh [bə·da·ɹə], druhanGANtoe [dɹə·gæn·toʷ], kanTEEkuh [kʰæn·tʰiʲ·kə], ruhNEZmay [ɹə·nɛz·meʲ], suhRANtheen [sə·ɹæn·θiʲn],
 ooWAYyou [uʷ·weʲ·juʷ], kenTAHWur [kɛn·tʰa·wə], uhLOUum [ə·laʷ·əŋ], kwinZASTik [kʰwin·zæ·stɪk], kahLAHskay [ka·las·keʲ],
 kuhLOOshah [kə·luʷ·ʃa], duhPAHRstuh [də·pʰaɹ·stə], loRAYshun [lɔ·ɹeʲ·ʃəŋ], toeLEEnee [tʰoʷ·liʲ·niʲ], zoomBOHBah [zum·bo·ba],

barsuhLUH [baɹ·sə·ʌ]

Whole Tetrasyllables:

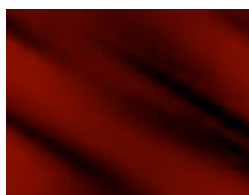
ZEEpuhluthahn [ziʲ·pʰə·lə·ʰən], PIGguhnaree [pʰɪ·gə·næ·ɹiʲ],
 suhRIHnuhlahng [sə·ɹɪ·nə·laŋ], boeNIHdeeh [boʷ·ni·riʲ·ə], heePEEzhioe [hi·pʰiʲ·ʒiʲ·oʷ], ahBOOwahaha [a·buʷ·wa·ha], reeSIHfuris
 [ɹiʲ·sɪ·fə·ɪs], ahrKIHduhmin [aɹ·kʰɪ·rə·min],

sahmunHEYlo [sa·mən·heʲ·loʷ], keepuhDAYleeuh [kʰiʲ·pʰə·deʲ·liʲ], ahpuhZOray [a·pə·zo·ɹeʲ], bayreeSOSah [be·ri·so·sa],
 owbuhNOOmuh [aʷ·bə·nuʷ·mə]

Whole Pentasyllables:

meduhRYEleeuh [mɛ·rə·ɹaʲ·liʲ·ə],

duhbestuhTAHray [də·bɛ·stə·tʰa·ɹeʲ]



Question ID: Z.

Segments

Segment Total for Stressed and Unstressed Syllables and Monosyllables according to Syllable Configuration

Monosyllable Onset: #p^h(2), p, #b(4), #m, #f(2), #t^h, t(2), #d, #dʒ, r, #s(4), #z, #f(3), ʃ(4), #ʃ(3), l(4), #l, #k^h, #g, w(2), #h

Monosyllable Nucleus: iⁱ(3), i, #ɪ, ɪ(3), e^j, eⁱ#, o^w(2), o^w#, ε(3), ʌ(2), æ(3), a(7)

Monosyllable Coda: b, m#(2), f#(2), f, t#(2), t^h#, d#(5), ts#, n(2), s, s#, z#(4), ʃɜː#, ʃ#(3), ʒ#, ʃ, ʃ#, ʃ(3), k#, ŋ, h#

First Syllable Segment Stressed Onset: p, #b(4), #m(6), #f(2), #v(2), #t^h, t, #d(2), n(2), #s(11), #z, #f(3), #ʃ(11), ʃ(5), #l(5), l(2), j, #k^h(2), #w(3), w(4), #h

First Syllable Segment Stressed Nucleus: iⁱ(7), #i^j, u^w(4), ɪ(8), eⁱ(4), o^w(3), ε(6), #ʌ, ɔ, æ(7), aⁱ(2), a^w, a(11), #a^a

First Syllable Segment Stressed Coda: p, b^h, d, n(7), s, z(2), ʒ, ʃ(7), ʃ(2), k(2), g(2)

First Syllable Segment Unstressed Onset: #p, #m, #f(4), #v, #d(3), #dʒ, #s(4), #z, #ʃ(4), l(3), k, #k^h, w

First Syllable Segment Unstressed Nucleus: #i^j, iⁱ(2), u^w(2), #ɪ, o^w, ə(12), #ə(3), ə, æ(2), #æ, #a, a

First Syllable Segment Unstressed Coda: n(3), s

Second Syllable Segment Stressed Onset: b, m(2), f(3), v, t, t^h(2), d, n(2), s(2), ʃ(5), l(5), j(3), k^h, g, w(2)

Second Syllable Segment Stressed Nucleus: i^j, u^w(2), ɪ(3), ʊ, eⁱ(4), o^w(4), ε(2), ɔ, æ(4), a^w, a(3), ā

Second Syllable Segment Stressed Coda: t#(2), d#, d^h#, tʃ#, n(4), n#(2), s, s#, f#(2), t#, k, k#

Second Syllable Segment Unstressed Onset: b(2), m, f(4), v, t(4), d(5), n(6), r(2), θ, s(5), z(8), ʃ, ʃ(4), l(7), j, k(3), k^h(2), g, w

Second Syllable Segment Unstressed Nucleus: iⁱ#(3), i^j, u^w#(2), ɪ(8), eⁱ#, ə, o^w#(3), o^w(2), ə(8), əm#(2), əŋ#(5), əŋ(3), ət#(3), ət, ə(2), ə-(3), ε#, a^w#, a^j, a(6), a#

Second Syllable Segment Unstressed Coda: t#, t^h#(4), d#(4), n#(7), s#, z#, ʃ#, ʃ#, k#(3), g#

Third Syllable Segment Stressed Onset:

Third Syllable Segment Stressed Nucleus:

Third Syllable Segment Stressed Coda:

Third Syllable Segment Unstressed Onset: m, t, d(2), n(5), θ, s(3), ʃ(4), ʒ(3), ʃ(5)

Third Syllable Segment Unstressed Nucleus: iⁱ#(2), i^j(2), ɪ(2), eⁱ(2), o^w, o^w#, əŋ#(3), ə(6), ə#(3), ε

Third Syllable Segment Unstressed Coda: t^h#(2), t#, n#, s#(2), s, t#

Fourth Syllable Segment Stressed Onset: l

Fourth Syllable Segment Stressed Nucleus: ε

Fourth Syllable Segment Stressed Coda:

Fourth Syllable Segment Unstressed Onset: f, n, r, ʃ

Fourth Syllable Segment Unstressed Nucleus: ə(2), əŋ#, əm#, ɔ^j, a

Fourth Syllable Segment Unstressed Coda: d^h#(2), d#, s#

Fifth Syllable Segment Stressed Onset:

Fifth Syllable Segment Stressed Nucleus:

Fifth Syllable Segment Stressed Coda:

Fifth Syllable Segment Unstressed Onset: t

Fifth Syllable Segment Unstressed Nucleus: e^j#

Fifth Syllable Segment Unstressed Coda:

Segment Total for Stressed and Unstressed Onsets and Codas

Stressed Onset: p, #b(4), b, #m(6), m(2), #f(2), f(3), #v(2), v, #t^h, t^h(2), t(2), #d(2), d, n(4), #s(11), s(2), #z, #f(3), #ʃ(11), ʃ(10), #l(5), l(8), j(4), #k^h(2), k^h, g, #w(3), w(6), #h

Stressed Coda: p, b^ː, t#(2), d, d#, d^ː#, tʃ#, n(11), n#(2), s(2), s#, z(2), ʃ#(2), ʒ, ʝ(7), t(2), t#, k(3), k#, g(2)

Unstressed Onset: #p, b(2), #m, m(2), #f(4), f(5), #v, v, t(6), #d(3), d(7), #dʒ, n(12), r(3), Ø(2), #s(4), s(8), #z, z(8), ʃ(5), ʒ(3), #ʝ(4), ʝ(10), l(10), j, k(4), #k^h, k^h(2), g, w(2)

Unstressed Coda: t#(2), t^ːh(6), d#(5), d^ːh(2), n(3), n#(8), s(2), s#(4), z#, ʃ#, ʝ#, k#(3), g#

Segment Total for Onsets and Codas

Onset: #p^h(2), #p, p(2), #b(8), b(3), #m(8), m(4), #f(8), f(8), #v(3), v(2), #t^h(2), t^h(2), t(10), #d(6), d(8), #dʒ(2), n(16), r, r(3), Ø(2), #s(19), s(10), #z(3), z(8), #ʃ(6), ʃ(5), ʒ(3), #ʝ(18), ʝ(24), #l(6), l(22), j(5), #k^h(4), k(4), k^h(3), #g, g(2), #w(3), w(10), #h(2)

Coda: p, b, b^ː, m#(2), f, f#(2), t#(6), t^ːh(7), d, d#(11), d^ːh(3), tʃ#, tʃ#, n(16), n#(10), s(5), s#(6), z(2), z#(5), ʃ:ʃ, ʃ#(6), ʒ, ʒ#, ʝ(8), ʝ#(2), t(5), t#, k(3), k#(5), g(2), g#, ŋ, h#

Segment Total for Stressed and Unstressed Syllables and Monosyllables

Monosyllable Segment: #p^h(2), p, #b(4), b, #m, m#(2), f#(2), f, #f(2), #t^h, t#(2), t^ːh, t(2), #d, d#(5), tʃ#, #dʒ, n(2), r, #s(4), s, s#, z#(4), #z, #ʃ(3), ʃ:ʃ, ʃ#(3), ʒ#, ʝ#, ʝ(5), #ʝ(3), l(4), #l, t(3), k#, #k^h, #g, ŋ, w(2), #h, h#

iⁱ(3), i, #ɪ, ɪ(3), eⁱ, eⁱ#, o^w(2), o^w#, ε(3), ʌ(2), æ(3), a(7)

First Syllable Segment Stressed: p(2) b^ː, #b(4), #m(6), #f(2), #v(2), #t^h, t, #d(2), d, n(9), #s(11), s, z(2), #z, #ʃ(3), ʒ, #ʝ(11), ʝ(12), #l(5), l(2), t(2), j, #k^h(2), k(2), g(2), #w(3), w(4), #h

iⁱ(7), #iⁱ, u^w(4), ɪ(8), eⁱ(4), o^w(3), ε(6), #ʌ, ɔ, æ(7), aⁱ(2), a^w, a(11), #a^ə

First Syllable Segment Unstressed: #p, #m, #f(4), #v, #d(3), #dʒ, n(3), #s(4), s, #z, #ʝ(4), l(3), k, #k^h, w

#iⁱ, iⁱ(2), u^w(2), #ɪ, o^w, ə(12), #ə(3), ə, æ(2), #æ, #a, a

Second Syllable Segment Stressed: b, m(2), f(3), v, t, t^h(2), t#(2), d#, d^ː#, d, tʃ#, n(6), n#(2), s(3), s#, ʃ#(2), ʝ(5), l(5), t#, j(3), k^h, k, k#, g, w(2)

iⁱ, u^w(2), ɪ(3), ʊ, eⁱ(4), o^w(4), ε(2), ɔ, æ(4), a^w, a(3), ā

Second Syllable Segment Unstressed: b(2), m, əm#(2), f(4), v, t(4), t#, t^ːh(4), d#(4), d(5), n(6), n#(7), əŋ#(5), əŋ(3), r(2), Ø, s(5), s#, z#, z(8), ʃ, ʃ#, ʝ(4), ʝ#, l(7), əʃ#(3), əʃ, j, k(3), k^h(2), k#(3), g#, g, w

iⁱ#(3), iⁱ, u^w#(2), ɪ(8), eⁱ#, ə, o^w#(3), o^w(2), ə(8), ə(2), ə#(3), ε#, a^w#, aⁱ, a(6), a#

Third Syllable Segment Stressed:

Third Syllable Segment Unstressed: m, t, t^ːh(2), t#, d(2), n(5), n#, əŋ#(3), Ø, s#(2), s(4), ʃ(4), ʒ(3), ʝ(5), t#

iⁱ#(2), iⁱ(2), ɪ(2), eⁱ(2), o^w, o^w#, ə(6), ə#(3), ε

Fourth Syllable Segment Stressed: l

ε

Fourth Syllable Segment Unstressed: əm#, f, d^ːh(2), d#, n, əŋ#, r, s#, ʝ

ə(2), ɔⁱ, a

Fifth Syllable Segment Stressed:

Fifth Syllable Segment Unstressed: t

eⁱh

Segment Total by Syllable

First Syllable Segment: p(2) #p, b^ː, #b(4), #m(7), #f(6), #v(3), #t^h, t, #d(5), d, #dʒ, n(12), #s(15), s(2), z(2), #z(2), #ʃ(3), ʒ, #ʝ(15), ʝ(12), #l(5), l(5), t(2), j, #k^h(3), k(3), g(2), #w(3), w(5), #h

i^j(9), #i^j(2), u^w(6), ɪ(8), #ɪ, e^j(4), o^w(4), ə(12), #ə(3), ə, ε(6), #ʌ, ɔ, æ(9), #æ, a^j(2), a^w, #a, a(12), #a^ə

Second Syllable Segment: b(3), m(3), əm[#](2), f(7), v(2), t(5), t^h(2), t[#](3), t^ˈ#(4), d[#](5), d^ˈ#, d(6), tʃ[#], n(12), n[#](9), əŋ[#](5), əŋ(3), r(2), θ, s(8), s[#](2), z[#], z(8), ʃ, ʃ[#](3), ɹ(9), ɹ[#], l(12), t[#], t^ˈ#(3), t^ˈ, j(4), k(4), k^h(3), k[#](4), g[#], g(2), w(3)

i^j#(3), i^j(2), u^w#(2), u^w(2), ɪ(11), ʊ, eⁱ#, e^j(4), ə, o^w#(3), o^w(6), ə(8), ə(2), ə[#](3), ε(2), ε[#], a^w#, ɔ, a^j, æ(4), a^w, a(9), ā, a[#]

Third syllable Segment: m, t, t^ˈ#(2), t[#], d(2), n(5), n[#], əŋ[#](3), θ, s[#](2), s(4), ʃ(4), ʒ(3), ɹ(5), t[#]

i^j#(2), i^j(2), ɪ(2), e^j(2), o^w, o^w#, ə(6), ə[#](3), ε

Fourth Syllable Segment: əm[#], f, d^ˈ#(2), d[#], n, əŋ[#], r, s[#], ɹ, l

ə(2), ε, ɔ^j, a

Fifth Syllable Segment: t

e^j#

Segment Stressed and Unstressed Total

Stressed Segment: p(2) b^ˈ, #b(4), b, #m(6), m(2), #f(2), f(3), v, #v(2), #t^h, t(2), t^h(2), t[#](2), #d(2), d[#], d^ˈ#, d(2), tʃ[#], n(15), n[#](2), #s(11), s[#], s(4), z(2), #z, #ʃ(3), ʃ[#](2), ʒ, #ɹ(11), ɹ(17), #l(5), l(8), t(2), t[#], j(4), #k^h(2), k^h, k[#], k(3), g(3), #w(3), w(6), #h

i^j(8), #i^j, u^w(6), ɪ(11), ʊ, eⁱ(8), o^w(7), ε(9), #ʌ, ɔ(2), æ(11), a^j(2), a^w(2), a(14), ā, #a^ə

Unstressed Segment: #p, b(2), #m, m(2), əm[#](3), f(5), #f(4), #v, v, t(6), t[#](2), t^ˈ#(6), d^ˈ#(2), d[#](5), d(7), #d(3), #dʒ, n(15), n[#](8), əŋ[#](9), əŋ(3), r(3), θ(2), s(10), #s(4), s[#](4), z[#], #z, z(8), ʃ(5), ʃ[#], ʒ(3), ɹ(10), #ɹ(4), ɹ[#], l(10), t[#], t^ˈ#(3), t^ˈ, j, k(4), k^h(2), #k^h, k[#](3), g[#], g, w(2)

i^j#(5), #i^j, i^j(5), u^w#(2), u^w(2), ɪ(10), #ɪ, eⁱ#(2), e^j(2), ə, o^w#(4), o^w(4), ə(28), #ə(3), ə[#](3), ə(3), ə[#](3), ε[#], ε, ɔ^j, æ(2), #æ, a^w#, a^j, a(8), #a, a[#]

Segment Total (absolute)

Narrow: #p, p(3), #p^h(2), b(4), b^ˈ, #b(8), #m(8), m(4), əm[#](3), m[#](2), f(9), f[#](2), #f(8), #v(3), v(2), t(10), #t^h(2), t[#](6), t^h(2), t^ˈ#(7), d^ˈ#(3), d[#](11), d(9), #d(6), tʃ[#], #dʒ(2), n(32), n[#](10), əŋ[#](9), əŋ(3), r, r(3), θ(2), s(15), #s(19), s[#](6), z[#](5), #z(3), z(10), #ʃ(6), ʃ[#](5), ʃ[#](6), ʒ(4), ʒ[#], ɹ(32), #ɹ(18), ɹ[#](2), l(22), #l(6), t(5), t[#](2), t^ˈ#(3), t^ˈ, j(5), k(7), k^h(3), #k^h(4), k[#](5), g[#], g(4), #g, ŋ, w(10), #w(3), #h(2), h[#]

i^j#(5), #i^j(2), i^j(16), i, u^w#(2), u^w(8), ɪ(24), #ɪ(2), ʊ, eⁱ#(3), e^j(11), ə, o^w#(5), o^w(13), ə(28), #ə(3), ə[#](3), ə(3), ə[#](3), ε[#], ε(13), #ʌ, ʌ(2), ɔ^j, ɔ(2), æ(16), #æ, a^w#, a^j(3), a^w(2), a(29), #a, a[#], ā, #a^ə

Broad: p(6), b(13), m(17), f(19), v(5), t(27), d(29), tʃ, dʒ(2), n(54), r, r(3), θ(2), s(40), z(18), ʃ(18), ʒ(5), ɹ(52), l(28), t(11), j(5), k(19), g(6), ŋ, w(13), h(3)

i(24), u(10), ɪ(26), ʊ, e(14), ə, o(18), ə(34), ə(6), ε(14), ʌ(3), ɔ(3), æ(17), a(6), a(33)

Supra-Segments: Consonant Clusters

Consonant Cluster Total for Stressed and Unstressed Syllables and Monosyllables according to Syllable Configuration

Monosyllable Consonant Cluster Onset (all entries are word initial): #p^hɹ, #bl(2), #bɹ, #fl, #fɹ, #st, #sp, #stɹ, #zw, #fw, #k^hɹ, #gl

Monosyllable Consonant Cluster Coda (all entries are word final): bʒ#, ft#, nd#, nz#, st#, ɹf#, tɹ#, tʒ#, tɹ#, ŋk#

First Syllable Consonant Cluster Stressed Onset (all entries are word initial): #bɹ(2), #mj, #fl, #dɹ, #sn, #sl, #sn, #sw(3), #sp, #stɹ, #fw, #k^hɹ

First Syllable Consonant Cluster Stressed Coda: nʒ, ɹd, ɹg

First Syllable Consonant Cluster Unstressed Onset (all entries are word initial): #fl, #sk, #sw, #k^hɹ

First Syllable Consonant Cluster Unstressed Coda:

Second Syllable Consonant Cluster Stressed Onset: bl, mj, fj, fɹ, gɹ

Second Syllable Consonant Cluster Stressed Coda: ntʃ#

Second Syllable Consonant Cluster Unstressed Onset: bl(2), fl
Second Syllable Consonant Cluster Unstressed Coda: ɲs#, ɲz#, st#, ɬd#

Third Syllable Consonant Cluster Stressed Onset:
Third Syllable Consonant Cluster Stressed Coda:

Third Syllable Consonant Cluster Unstressed Onset: st, dɹ
Third Syllable Consonant Cluster Unstressed Coda: st#

Fourth Syllable Consonant Cluster Stressed Onset:
Fourth Syllable Consonant Cluster Stressed Coda:
Fourth Syllable Consonant Cluster Unstressed Onset:
Fourth Syllable Consonant Cluster Unstressed Coda:

Fifth Syllable Consonant Cluster Stressed Onset:
Fifth Syllable Consonant Cluster Stressed Coda:
Fifth Syllable Consonant Cluster Unstressed Onset:
Fifth Syllable Consonant Cluster Unstressed Coda:

Consonant Cluster Total for Stressed and Unstressed Onsets and Codas

Stressed Onset: #bɹ(2), bl, #mj, mj, #fl, fj, fɹ, #dɹ, #sn, #sl, #sn, #sw(3), #sp, #stɹ, #fw, #kʰɹ, gɹ

Stressed Coda: ns, ntʃ#, ɹd, ɹg

Unstressed Onset: bl(2), fl, #fl, dɹ, #sk, #sw, st, #kʰl

Unstressed Coda: ɲs#, ɲz#, st#(2), ɬd#

Consonant Cluster Total for Onsets and Codas

Onset: #pʰɹ, #bɹ(3), #bl, bl(3), #mj, mj, #fl(3), fl, fj, #fɹ, fɹ, #dɹ, dɹ, #sn, #sl, #sn, #sw(4), #sp(2), #st, st, #stɹ(2), #sk, #zw, #fw(2), #kʰl, #kʰɹ(2), gɹ, #gl, gl

Coda: bz#, ft#, nd#, ɲs#, ns, nz#(2), ntʃ#, st#(3), ɹf#, ɹd, ɹg, ɬm#, ɬz#, ɬd#(2), ɲk#

Consonant Cluster Total for Stressed and Unstressed Syllables and Monosyllables

Monosyllable Consonant Cluster: #pʰɹ, #bl(2), bz#, #bɹ, #fl, ft#, #fɹ, nd#, nz#, #st, st#, #sp, #stɹ, #zw, #fw, ɹf#, ɬm#, ɬz#, ɬd#, #kʰɹ, #gl, ɲk#

First Syllable Consonant Cluster Stressed: #bɹ(2), #mj, #fl, #dɹ, ns, #sn(2), #sl, #sw(3), #sp, #stɹ, #fw, ɹd, ɹg, #kʰɹ
First Syllable Consonant Cluster Unstressed: #fl, #sk, #sw, #kʰl

Second Syllable Consonant Cluster Stressed: bl, mj, fj, fɹ, ntʃ#, gɹ
Second Syllable Consonant Cluster Unstressed: bl(2), fl, ɲs#, ɲz#, st#, ɬd#

Third Syllable Consonant Cluster Stressed:
Third Syllable Consonant Cluster Unstressed: st, st#, dɹ

Fourth Syllable Consonant Cluster Stressed:
Fourth Syllable Consonant Cluster Unstressed:

Fifth Syllable Consonant Cluster Stressed:
Fifth Syllable Consonant Cluster Unstressed:

Consonant Cluster Total per Syllable

First Syllable Consonant Cluster: #bɹ(2), #mj, #fl(2), #dɹ, ns, #sl, #sn(2), #sk, #sw(4), #sp, #stɹ, #fw, ɹd, ɹg, #kʰɹ, #kʰl

Second Syllable Consonant Cluster: bl(3), mj, fj, fɹ, ntʃ#, ɲs#, ɲz#, st#, ɬd#, gɹ

Third Syllable Consonant Cluster: st, st#, dɹ

Fourth Syllable Consonant Cluster:

Fifth Syllable Consonant Cluster:

Consonant Cluster Stressed and Unstressed Total

Consonant Cluster Stressed: #bɹ(2), bl, #mj, mj, #fl, fj, fɹ, #dɹ, ns, ntʃ#, #sn, #sl, #sn, #sw(3), #sp, #stɹ, #fw, ɹd, ɹg, #kʰɹ, gɹ

Consonant Cluster Unstressed: bl(2), fl, #fl, dɹ, ɹs#, ɹz#, #sk, #sw, st#(2), st, tɹd#, #kʰl

Consonant Cluster Total (absolute)

Narrow: #pʰɹ, #bl(2), bl(3), #bɹ(2), #bɹ, bz#, #mj, mj, #fl(3), fl, ft#, #fɹ, fɹ, #dɹ, dɹ, ns, ɹs#, nd#, ɹz#, nz#, ntʃ#, #sn(2), #sl, #sw(4), #sk, st#(3), st, #st, #sp(2), #stɹ(2), #zw, #fw(2), ɹd, ɹg, ɹf#, tɹm#, tɹz#, tɹd#, tɹd#, #kʰɹ(2), #kʰl, gɹ, #gl, ɹk#

Broad: pɹ, bl(5), bɹ(3), bz, mj(2), fl(4), ft, fɹ(2), fj, dɹ(2), ns(2), nd, nz(2), ntʃ, sn(2), sl, sw(4), sk, st(5), sp(2), stɹ(2), zw, fw(2), ɹd, ɹg, ɹf, tɹm, tɹz, tɹd(2), kɹ(2), kl, gɹ, gl, ɹk

Supra-Segments: Whole Syllables

Whole Syllable Total for Stressed and Unstressed Syllables and Monosyllables

Monosyllable Whole Syllable:

#bliʃ#, #brif#, #fɹiʃd#, #siʃɹ#,
#ɹf#, #bɪnz#, #flɪm#, #spɪŋk#,
#dʒeɪ#, #steɪts#,
#moʊz#, #foʊtd#, #ɹoʊ#,
#pʰetɹz#, #fwed#, #kʰɹɛf#,
#pʰɹɹst#, #blɹh#,
#fænd#, #ɹætʰ#, #læft#,
#tʰɹfɹ:#, #daɹf#, #stɹɹd#, #zwɹz#, #ɹɹs#, #glɹbz#, #hɹtɹm#

First Syllable Whole Syllable Stressed (all entries are word initial):

#iʃ, #miʃn, #viʃ, #siʃ, #siʃɹ, #ziʃ, #fɹiʃ, #liʃ,
#mjuʊz, #swuʊ, #ɹuʊz, #luʊbɹ,
#vɪns, #swɪn, #ɹɹz, #ɹɹk, #kʰɹɹl, #kʰɹɹɹ, #wɪn, #wɹɹ,
#meɪ, #fleɪ, #sweɪ, #ɹeɪ,
#bɹoʊ, #ɹoʊ, #ɹoʊn,
#sneɹ, #fwɹ, #ɹɹk, #ɹɹ, #lɹ, #lɹp,
#ɹ,
#spɹɹg,
#mɹɹɹ, #tʰɹɹt, #dɹɹæ, #sɹæ, #stɹɹæ, #ɹɹæ, #lɹæ,
#baʊ, #daɪ, #slaɪ, #haɹ,
#aʊɹ, #bɹɹɹ, #baɹɹd, #maɹɹ, #man, #fan, #snaɹɹ, #faɹ, #ɹɹɹ, #ɹɹg, #waɹ

First Syllable Whole Syllable Unstressed (all entries are word initial):

#iʃ, #diʃ, #ziʃ,
#fluʊ, #ɹuʊ,
#ɹn,
#ɹoʊ,
#ə(3) #pə, #mə, #fə, #və, #də(2), #sə(2), #skə, #ɹə(2), #kʰlə,
#dʒə,
#æ, #fæɹn, #fæɹs,
#a, #swan

Second Syllable Whole Syllable Stressed:

iʃ#,
mjuʊt#, fjuʊ,
fɹ, tɹ, lɹntʃ#,
wud#,
fleɪ, neɪ, tʰeɪ(2),
moʊs#, soʊn#, loʊst#, gɹoʊ,
vet#, wɹdʰ#,
ɹjɹ,

dæn#, sæ, ʌæn, læk,
ʌa^wk#,
blāf#, ʌa, lan, k^han

Second Syllable Whole Syllable Unstressed:

miⁱn#, fiⁱ#, ziⁱ#, liⁱ#,
du^w#, su^w#,
fliⁿ#, fit[#], tɪk#, tɪg#, siⁿ#, liⁿ#, k^hɪn#, kɪk#,
bleⁱ#,
lə^ʌ#,
no^w, ʌo^wn#, lo^w##(2), k^ho^w#,
blæt^ʃ#, fə, v^əŋs#, də, d^əŋ#, d^əɪd#, nək#, ʔŋz#, r^əɪ#, rəd#, Ө^əɪ#, sə(2), s^əŋ, z^əɪ#, z^əŋ##(2), zə,k^əŋ##(2), g^əŋ#, w^əŋ#,
tə[#], nə, zə[#], ʃə[#], jə[#],
dɛ#,
ta^w#, zaⁱt^ʃ#,
nat^ʃ#, naɪ#, nat^ʃ#, zan#, ʌad##(2), ʌa#

Third Syllable Whole Syllable Stressed:

Third Syllable Whole Syllable Unstressed:

niⁱ, Өiⁱ, ʌiⁱ##(2),
nit^ʃ#, ʃɪn#, ʃɪs#,
neⁱt^ʃ#, seⁱ,
so^wɪ#, ʌo^w#,
mə, də, dʌə#, nə#, n^əŋ#, stə, ʃəs#, ʃəŋ#, zə, zə#, z^əŋ#,
ʌɛst#

Fourth Syllable Whole Syllable Stressed:

lɛ

Fourth Syllable Whole Syllable Unstressed:

əŋ#, əŋ#, nəs#, rəd^ʃ#,
fɔɪd^ʃ#,
ʌad#

Fifth Syllable Whole Syllable Stressed:

Fifth Syllable Whole Syllable Unstressed:

teⁱ##

Whole Syllable Total per Syllable

First Syllable Whole Syllable (all entries are word initial):

#iⁱ(2), #miⁱn, #viⁱ, #diⁱ, #siⁱ, #siⁱɪ, #ziⁱ(2), #fiⁱ, #liⁱ,
#mju^wz, #flu^w, #swu^w, #ju^wɜ, #ju^w, #lu^wb̃,
#ɪn, #vɪns, #swɪn, #ɪɪz, #ɪɪk, #k^hɪl, #k^hɪɪ, #wɪn, #wɪ,
#meⁱ, #fleⁱ, #sweⁱ, #ɛⁱ,
#bɪo^w, #ɪo^w(2), #ɪo^wn,
#ə(3) #pə, #mə, #fə, #və, #də(2), #sə(2), #skə, #ɪə(2), #k^hlə,
#dʒə,
#snɛ, #fwe, #ɪɛk, #ɪɛ, #lɛ, #lɛp,
#ʌ,
#spɔɪg,
#æ, #mæɪ, #fæn, #fæs, #t^hæɪ, #dɪæ, #sæ, #stɪæ, #ɪæ, #læ,
#ba^w, #daⁱ, #slaⁱ, #ha,
#a, #a^əɪ, #bɪa, #baɪd, #maɪ, #man, #fan, #snaɪ, #swan, #fa, #ɪa, #ɪag, #wa

Second Syllable Whole Syllable:

iⁱɪ#, miⁱn#, fiⁱ#, ziⁱ#, liⁱ#,
mju^wɪ#, fju^w, du^w#, su^w#,
fi, fliⁿ#, fit[#], tɪk#, tɪg#, tɪ, siⁿ#, liⁿ#, lɪntɪ#, k^hɪn#, kɪk#,

wʊd#,
 blɛɪ#, neɪ, tʰeɪ(2), fɹɛɪ,
 ləɪ#,
 moʊs#, noʊ, soʊn#, ɹoʊn#, loʊ#(2), loʊst#, kʰoʊ#, ɡɹoʊ,
 blætʰ#, fə, vənʃs#, də, dənʃ#, dɔɪd#, nək#, ənʒ#, rɔɪ#, rəd#, Өɔɪ#, sə(2), sən, zɔɪ#, zənʃ#(2), zə,kənʃ#(2), ɡənʃ#, wənʃ#,
 təʃ#, nə, zəʃ#, ʃəʃ#, jəʃ#,
 dɛʃ#, vɛt#, wɛdʰ#,
 nɟɔ,
 dæn#, sæ, ɹæn, læk,
 taʊ#, zaɪtʰ#, ɹaʊk#,
 blāfʃ#, natʰ#, naʃ#, natʰ#, zan#, ɹad#(2), ɹa#, ɹa, lan, kʰan

Third Syllable Whole Syllable:

niɪ, Өiɪ, ɹiɪ#(2),
 nɪtʰ#, ʃɪn#, ʃɪs#,
 neɪtʰ#, seɪ,
 soʊtʰ#, ɹoʊ#,
 mə, də, dɹə#, nə#, nənʃ#, stə, ʃəs#, ʃənʃ#, ʒə, ʒə#, ʒənʃ#,
 ɹɛst#

Fourth Syllable Whole Syllable:

ənʃ#, ənʃ#, nəʃ#, rədʰ#,
 lɛ,
 fɔɪdʰ#,
 ɹad#

Fifth Syllable Whole Syllable:

teɪ#

Whole Syllable Stressed and Unstressed Total

Whole Syllable Stressed:

#iɪ, iɪfʃ#, #miɪn#, #viɪ, #siɪ, #siɪɹ, #ziɪ, #ʃiɪ, #liɪ,
 #mjuʊz, mjuʊtʰ#, fjuʊ, #swuʊ, #ɹuʊz, #luʊbʰ,
 fɪ, #vɪns, tɪ, #swɪn, #ɹɪz, #ɹɪk, lɪntʃ#, #kʰɪl, #kʰɪɹ, #wɪn, #wɪ,
 wʊd#,
 #meɪ, #fleɪ, fɹɛɪ, tʰeɪ(2), neɪ, #sweɪ, #ɹɛɪ,
 #boʊ, moʊs#, soʊn#, #ɹoʊ, #ɹoʊn, loʊst#, ɡɹoʊ,
 vɛt#, #sneɪ, #fwɛ, #ɹɛk, #ɹɛ, #lɛ, lɛ, #lɛp, wɛdʰ#,
 #ʌ,
 nɟɔ, #spɔɹɟ,
 #məɹɹ, #tʰæf, #dɹæ, dæn#, #stɹæ, #sæ, sæ, #ɹæ, ɹæn, #læ, læk,
 #baʊ, #daɪ, #slaɪ, ɹaʊk#, #ha,
 #aʊɹ, blāfʃ#, #bɹa, #baɪd, #maɹ, #man, #fan, #snaɹ, #ʃa, #ɹa, ɹa, #ɹag, lan, kʰan, #wa

Whole Syllable Unstressed:

#iɪ, miɪn#, fiɪ#, #diɪ, niɪ, Өiɪ, ziɪ#(2), ɹiɪ#(2), liɪ#,
 #fluʊ, duʊ#, suʊ#, #ɹuʊ,
 #ɪn, flɪn#, fɪt#, tɪk#, tɪɡ#, nɪtʰ#, sɪn#, ʃɪn#, ʃɪs#, lɪn#, kʰɪn#, kɪk#,
 blɛɪ#, teɪ#, neɪtʰ#, seɪ,
 ləɪ#,
 noʊ, soʊtʰ#, ɹoʊn#, #ɹoʊ, ɹoʊ#, loʊ#(2), kʰoʊ#,
 #ə(3) #pə, blætʰ#, #mə, mə, ənʃ#, fə, #fə, #və, vənʃs#, də(2), #də(2), dənʃ#, dɔɪd#, dɹə#, nə#, nənʃ#, nəʃ#, nək#, ənʒ#, ənʃ#, rɔɪ#, rəd#, rədʰ#,
 Өɔɪ#, sə(2), #sə(2), sən, #skə, stə, zɔɪ#, zənʃ#(2), zə, ʃəs#, ʃənʃ#, ʒə, ʒə#, ʒənʃ#, #ɹə(2), kənʃ#(2), #kʰlə, ɡənʃ#, wənʃ#,
 təʃ#, #dʒə, nə, zəʃ#, ʃəʃ#, jəʃ#,
 dɛʃ#, ɹɛst#,
 fɔɪdʰ#,
 #æ, #fæn, #fæs,
 taʊ#, zaɪtʰ#,

Whole Syllable Total (absolute)

Narrow:

#i^j(2), i^jʃ#, #bli^jʃ#, #brif^j#, mi^jn#, #mi^jn, fi^j#, #fɹi^jd#, #vi^j, #d^ji, ni^j, ʊi^j, #si^jɹ#, #si^jɹ, #si^j, #zi^j, zi^jʃ(2), #fji^j, ɹi^jʃ(2), li^jʃ#, #li^j, #mju^ʷz, mju^ʷɫ#, fju^ʷ, #flu^ʷ, du^ʷ#, su^ʷ#, #swu^ʷ, #ɹu^ʷ, #ɹu^ʷz, #lu^ʷʔ, #ɪn, #ɪʃ#, #bɪnz#, flɪn#, #flɪm#, fɪt#, fɪ, #vɪns, tɪ, tɪk#, tɪg#, nɪt^ʰ#, #swɪn, sɪn#, #spɪŋk#, ʃɪn#, ʃɪs#, #ɹɪz, #ɹɪk, lɪntʃ#, lɪn#, k^hɪn#, kɪk#, #k^hɪl, #k^hɪɹ, #wɪn, #wɪ, wud#, ble^j#, #me^j, #fle^j, fɹe^j, t^he^j(2), te^j#, #dʒe^j#, ne^j, neɪt^ʰ#, se^j, #ste^jts#, #swe^j, #ɹe^j, ləɹ#, #bɹo^ʷ, mo^ʷs#, #mo^ʷz#, no^ʷ, so^ʷn#, so^ʷɫ#, #fo^ʷɫd#, #ɹo^ʷn, ɹo^ʷn#, #ɹo^ʷ(2), ɹo^ʷ#, #ɹo^ʷ#, lo^ʷʃ(2), lo^ʷst#, k^ho^ʷ#, ɡɹo^ʷ, #ə(3) pə, blət^ʰ#, #mə, mə, ʔm#, fə, #fə, #və, vʔns#, də(2), #də(2), dʔn#, dʔd#, dɹə#, nə#, nʔn#, nəs#, nək#, ʔnɹ#, ʔn#, ɹʔ#, rəd#, rəd^ʰ#, ʊt^ʰ#, sə(2), #sə(2), sʔn, #skə, stə, zʔt^ʰ#, zʔm^ʰ(2), zə, ʃəs#, ʃʔn#, ʒə, ʒə#, ʒʔn#, #ɹə(2), kʔn^ʰ(2), #k^hlə, ɡʔn#, wʔn#, tʔ#, #dʒə, nə, zə, ʃə, jə#, #p^hɛɫz#, vɛt#, dɛ#, #sɳɛ, #fwɛ, #fwɛd#, ɹɛst#, ɹɛk, ɹɛ, #lɛ, lɛ, #lɛp, #k^hɹɛʃ#, wɛd^ʰ#, #ʌ, #p^hɹɹst#, #blɹh#, fɹɹd^ʰ#, nɹɹ, #spɹɹɡ, #æ, #mæɹ, #fæn, #fæɹ, #tʔæɫ, #dɹæ, dæn#, #sæ, sə, #stɹæ, #fænd#, #ɹæɫ^ʰ#, #ɹæ, ɹæn, #læ, læk, #læft#, #ba^ʷ, ta^ʷ#, #da^j, #sla^j, zaɪt^ʰ#, ɹa^ʷk#, #ha, #a, #a^ɹ, blɹʃ#, #bɹa, #baɹd, #maɹ, #man, #fan, #tʔaɹ^ʰ#, #daɹʃ#, naɹʃ#, nat^ʰ#, naɹʃ#, #stɹad#, #swan, #snaɹ, zan#, #zwaɹz#, #ʃa, ɹad^ʰ(3), ɹa#, #ɹa, ɹa, #ɹaɡ, #ɹas#, lan, k^han, #ɡlabz#, #wa, #haɪm#

Broad:

i(2), ɪʃ, blɪʃ, brɪʃ, mɪn(2), fɪ, fɹɪd, vɪ, dɪ, nɪ, ʊɪ, sɪɹ(2), sɪ, zɪ(3), ʃɪ, ɹɪ(2), lɪ(2), mɹɹz, mɹɹt, fɹɹ, flu, du, su, swu, ɹu, ɹuɹ, lub, ɪn, ɪʃ, bɪnz, flɪn, flɪm, fɪt, fɪ, vɪns, tɪ, tɪk, tɪɡ, nɪt, swɪn, sɪn, spɪŋk, ʃɪn, ʃɪs, ɹɪz, ɹɪk, lɪntʃ, lɪn, kɪn, kɪk, kɪl, kɹɪ, wɪn, wɪ, wud, ble, me, fle, fɹe, te(3), dʒe, ne, net, se, stɛts, swe, ɹe, ləɹ, bɹo, mos, moz, no, son, soɫ, foɫd, ɹon(2), ɹo(4), lo(2), lost, ko, ɡɹo, ə(3) pə, blət, mə(2), ʔm, fə(2), və, vʔns, də(4), dʔn, dʔd, dɹə, nə, nʔn, nəɹ, nək, ʔnɹ, ʔn, ɹʔ, rəd(2), ʊt^ʰ, sə(4), sʔn, skə, stə, zʔt^ʰ, zʔm(2), zə, ʃəs, ʃʔn, ʒə(2), ʒʔn, ɹə(2), kʔn(2), klə, ɡʔn, wʔn, tʔ, dʒə, nə, zə, ʃə, jə, pɛɫz, vɛt, dɛ, sɳɛ, fwɛ, fwɛd, ɹɛst, ɹɛk, ɹɛ, lɛ(2), lɛp, kɹɛʃ, wɛd, ʌ, ɹɹst, blɹh, fɹɹd, nɹɹ, spɹɹɡ, æ, mæɹ, fæn, fæɹ, tæɫ, dɹæ, dæn, sə(2) stɹæ, fænd, ɹæɪ, ɹæ, ɹæn, læ, læk, læft, ba, ta, da, sla, zat, ɹak, ha, a, aɹ, blɹʃ, bɹa, baɹd, maɹ, man, fan, taɹʃ, daɹʃ, nat, naɹʃ, nat, stɹad, swan, snaɹ, zan, zwaɹz, ʃa, ɹad(3), ɹa(3), ɹaɡ, ɹas, lan, kan, ɡlabz, wa, haɪm

Whole Word Total per Word Length

tahsh	[tʰɑːʃː]	glahbz	[ɡlabz]	bleesh	[bliːʃ]	hahlm	[haʔlm]	breef	[brif]	fliim	[flim]	ish	[ɪʃ]	bluh	[blʌh]	dahrf	[daɪf]	shwed	
[ʃwəd]		freed	[friːd]	jay	[dʒəː]	pruhst	[pʰɹʌst]	kresh	[kʰɹɛʃ]	shand	[ʃænd]	row	[ɹoʷ]	rat	[ɹætː]	strahd	[stɹad]	shold	[ʃoʷtd]
rahss	[ɹas]	binz	[binz]	laft	[læft]	pehlz	[pʰɛltz]	seer	[siːɹ]	zwahzh	[zwaʒz]	spink	[spɪŋk]	moze	[moʷz]	states	[steːts]		

ROOZHlow ['juʷz·loʷ], DIEkuhn ['daʲ·kəŋ], RAHGflin ['ɲag·flin], SNEhtul ['sne·rəʃ], HAHdeh ['ha·de], SHAHrohn ['ʃa·ɲoʷn], SAAfee
 ['sæ·fi], LAZur ['læ·zə], RANnuhk ['ɲæ·nək], SLYdud ['slaʲ·rəd], RIZlin ['ɲz·lin], SEEle ['siʲ·li], SNARvunce ['snaɲ·vəŋs],
 BOWun ['baʷ·wəŋ], SWAYzahn ['sweʲ·zan], BROmeen ['broʷ·miʲn], KILLkin ['kʰɪl·kʰɪn], LEEzum ['liʲ·zəŋ], EEKoe ['iʲ·kʰoʷ],
 SHWEHshur ['ʃwe·ʃə], RIKtur ['ɲɪk·tə], VINCEtik ['vɪns·tɪk], AHRfht ['aʷɪ·fɪt], LOOBnaht ['luʷb·nat], ZEErahd ['ziʲ·ɲad], WAHthul
 ['wa·θəʃ], SEERguhn ['siʲ·gəŋ], REKrahd ['ɲek·ɲad], MARsin ['maɲ·sin], MYOUEZekik ['mjuʷz·kɪk], BAHRDsoo ['baɲd·suʷ], MEENTow

['miⁱn·ta^w], REHzite ['ɹɛ·za^tʔ], SPORGnahsh ['spɔɹɔg·naʃ], FLAYyur ['fleⁱ·jə], TALkun ['t^hæt·kəŋ], MAHNtihg ['man·tɹɔ], VEEnaht ['viⁱ·natʔ], SWINdoo ['swɪn·du^w], SWOOlur ['swu^w·ləɹ], MAYrah ['meⁱ·ɹa], WINDuld ['wɪn·dʷɪd], RAYzee ['ɹeⁱ·zi], SHEEblay ['ʃiⁱ·bleⁱ], MARuhnz ['mæɹ·əŋz], ROHNduhn ['ɹo^wn·dəŋ], STRAzul ['stɹæ·zʷ], RAHzuhm ['ɹa·zəŋ], LEPløe ['lɛp·lo^w],
BRAHbluht ['bɹa·blətʔ],

kluhVET [k^hlə·'vɛt], suhLOWST [sə·'lo^wst], ruhWOOD [ɹə·'wuɪd], uhMYOUL [ə·'mju^wʔ], rooDAN [ɹu^w·'dæn], suhWED [sə·'wɛdʔ],
duhMOWSE [də·'mo^ws], flooEESH [flu^w·iʃ], fuhLINCH [fə·'lɪntʃ], deeROUK [diⁱ·'ɹa^wk], swahnSOHN [swan·'so^wn], rowBLAHNSH [ɹo^w·'blɑ̃ʃ]

Whole Trisyllables:

WIHzuhree ['wɪ·zə·ɹi], DRAsuhnayte ['dɹæ·sə·ne^tʔ], UHnurest ['ʌ·nə·ɹɛst], LEHsunsoul ['lɛ·səŋ·so^wʔ], KRIHsuhnit ['k^hɹɪ·sə·nɪtʔ],
ROWfuhree ['ɹo^w·fə·ɹi], FAHNduhroe ['fan·də·ɹo^w],

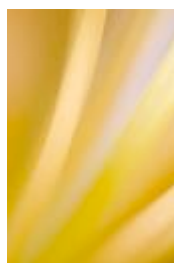
skuhNAYshus [skə·'neⁱ·ʃəs], fanTAYshin [fæn·'t^heⁱ·ʃɪn], zeeNYAHnuhn [ziⁱ·'njɔ·nəŋ], ruhFYOUzhun [ɹə·'fju^w·zəŋ], fasTɪshis [fæs·'tɪ·ʃɪs],
vuhRAHnuh [və·'ɹa·nə], muhKAHNdruh [mə·'k^han·dɹə], aGROWzhuh [æ·'gɹo^w·zə], inTAYshun [ɪn·'t^heⁱ·ʃəŋ]

Whole Tetrasyllables:

eeLAKsaytud [iⁱ·'læk·seⁱ·rədʔ], uhLAHNduhrahɪd [ə·'lan·də·ɹad], duhFIHneeun [də·'fɪ·niⁱ·əŋ], uhFRAYzhuhfoyd [ə·'fɹeⁱ·zə·fɔⁱdʔ],
jurRANtheeum [dʒə·'ɹæn·θiⁱ·əŋ], puhSAMuhnus [pə·'sæ·mə·nəs]

Whole Pentasyllables:

ahnostuhLEHtay [a·no^w·stə·'lɛ·teⁱ]



Question ID: a.

Segments

Segment Total for Stressed and Unstressed Syllables and Monosyllables according to Syllable Configuration

Monosyllable Onset: #p, p, #p^h, #b(2), #f, #v, #t^h(2), #d(2), r, #s(4), #f, ʃ(4), l(3), #l(2), #j(3), #k^h(2), #g, #w, w(2), #h

Monosyllable Nucleus: i, i^j, i^h, ɪ(5), e^j, ε, ʌ(2), ɔ, æ, a, #a^j, a^j, a^w(2), a^h#, a^w, a(4)

Monosyllable Coda: p, b#, m#, f#, t#(6), ts#, tʃ#, n#(5), s, z#, ʃ#(3), ʒ, l#, t, t#(2), h#

First Syllable Segment Stressed Onset: #p^h(3), #p, #b(6), #m, #f(7), #v, #t^h, #t, #d(2), #dʒ, #s(11), #z, #f(2), ʃ(10), #ʃ(4), l(7), #l(5), #j(4), #k^h(2), #g, w(3), #w

First Syllable Segment Stressed Nucleus: i^j(7), u, u^w(2), ɪ(13), e^j(2), o^w, ε(6), ɔ, æ(8), a^j(6), a(10),

First Syllable Segment Stressed Coda: m, f, n(8), s(4), ʒ(3), l, t(2), k(3), g

First Syllable Segment Unstressed Onset: #b(2), #m(2), #f(3), #t(2), #d(2), #s(4), l(4), #j(2), #k(3), #g(2), #w(2), #h

First Syllable Segment Unstressed Nucleus: i^j(3), u^w(3), e^j, o, o^w, #ə(2), ə(6), ʌ, ε(2), ɔ, #a(3), a(6)

First Syllable Segment Unstressed Coda: t, n, t(3)

Second Syllable Segment Stressed Onset: b(2), t, d(3), n(2), s(2), z, ʃ(2), ʒ(6), l(7), j, w

Second Syllable Segment Stressed Nucleus: i^j, u^w(4), u^w#, ɪ(3), e^j#, e^j(2), e#, o^w, ə, ε(2), æ, æ^j, a^j(3), a(3), a#

Second Syllable Segment Stressed Coda: v#, t^h, t#(2), d^h#, n, n#(3), ʒ#, l#

Second Syllable Segment Unstressed Onset: p(4), b(5), m(5), f(4), v, t(9), d(2), tʃ, n(4), r(3), s(6), z, ʒ(5), l(5), j, k, g(2), w, ʔ

Second Syllable Segment Unstressed Nucleus: i^j(2), i^h#, u^w(2), ɪ(4), o^w#, ə(10), ə#(2), ə#(4), ə#(4), ə#(6), ə#(3), ə#(2), ε, a#, a^j(3), a#, a(7)

Second Syllable Segment Unstressed Coda: p#, m#, v#(2), t#, t^h#, d#, n#(4), s#(2), ʒ#, t, k#(2)

Third Syllable Segment Stressed Onset: l

Third Syllable Segment Stressed Nucleus: e^j

Third Syllable Segment Stressed Coda:

Third Syllable Segment Unstressed Onset: p, b(2), m, f(2), v(2), t(3), n(5), θ, s(2), z(2), ʒ(3), l, j(2), k(2), g(2)

Third Syllable Segment Unstressed Nucleus: i^j, i^h#, u^w#, ɪ(2), e^j, e^j#, ə, ə#(5), ə#(2), ə#(2), ə#(2), ə#(2), ε, æ^j, a(6), a#

Third Syllable Segment Unstressed Coda: m#, t#, n, n#(2), s#(2), ʒ(2), t#(2), k#(2), ŋ

Fourth Syllable Segment Stressed Onset: n

Fourth Syllable Segment Stressed Nucleus: a

Fourth Syllable Segment Stressed Coda:

Fourth Syllable Segment Unstressed Onset: r, θ, ʃ

Fourth Syllable Segment Unstressed Nucleus: i^j, ɪ, ə(2), ə#

Fourth Syllable Segment Unstressed Coda: n#, s#(2), ŋ#

Fifth Syllable Segment Stressed Onset:

Fifth Syllable Segment Stressed Nucleus:

Fifth Syllable Segment Stressed Coda:

Fifth Syllable Segment Unstressed Onset: t

Fifth Syllable Segment Unstressed Nucleus: e^j#,

Fifth Syllable Segment Unstressed Coda:

Segment Total for Stressed and Unstressed Onsets and Codas

Stressed Onset: #p^h(3), #p, #b(6), b(2), #m, #f(7), #v, #t^h, #t, t, #d(2), d(3), #dʒ, n(3), #s(11), s(2), #z, z, #f(2), f(2), ʃ(16), #ʃ(4), l(15), #l(5), #j(4), j, #k^h(2), #g, w(4), #w

Stressed Coda: m, f, v#, t^ʰ, t#(2), d^ʰ#, n(9), n#(3), s(4), ʃ(3), ʃ#, l, l#, t(2), k(3), g

Unstressed Onset: p(5), #b(2), b(7), #m(2), m(6), #f(3), f(6), v(3), #t(2), t(13), #d(2), d(2), tʃ, n(9), r(4), Θ(2), #s(4), s(8), z(3), ʃ, ʃ(8), l(10), #j(2), j(3), #k(3), k(3), #g(2), g(4), #w(2), w, ʔ, #h

Unstressed Coda: p#, m#(2), v#(2), t, t#(2), t^ʰ#, d#, n(2), n#(7), s#(6), ʃ(2), ʃ#, t(4), t#(2), k#(4), ɲ, ɲ#

Segment Total for Onsets and Codas

Onset: #p^h(4), #p(2), p(6), #b(10), b(9), #m(3), m(6), #f(11), f(6), #v(2), v(3), #t^h(3), #t(3), t(14), #d(6), d(5), tʃ, #dʒ, n(12), r, r(4), Θ(2), #s(19), s(10), #z, z(4), #f(3), f(3), ʃ(28), #ʃ(4), l(28), #l(7), #j(9), j(4), #k^h(4), #k(3), k(3), #g(4), g(4), #w(3), w(7), #w, ʔ, #h(2)

Coda: p, p#, b#, m, m#(3), f, f#, v#(3), t, t#(10), t^ʰ#, t^ʰ#, d#, d^ʰ#, tʃ#, n(11), n#(15), s(5), s#(6), z#, ʃ#(3), ʃ(6), ʃ#(2), l, l#(2), t(7), t#(4), k(3), k#(4), g, ɲ, ɲ#, h#

Segment Total for Stressed and Unstressed Syllables and Monosyllables

Monosyllable Segment: #p, p(2), #p^h, #b(2), b#, m#, f#, #f, #v, #t^h(2), t#(6), #d(2), tʃ#, n#(5), r, #s(4), s, z#, ʃ#(3), #f, ʃ(5), l(3), l#, #l(2), t, t#(2), #j(3), #k^h(2), #g, #w, w(2), #h

i, i^j, i^j#, i(5), e^j, e, ʌ(2), ɔ, æ, a, #a^j, a^j, a^w(2), a^h#, a^w, a(4)

First Syllable Segment Stressed: #p^h(3), #p, #b(6), #m, m, #f(7), f, #v, #t^h, #t, #d(2), #dʒ, n(8), #s(11), s(4), #z, #f(2), ʃ(13), #ʃ(4), l(8), #l(5), t(2), #j(4), #k^h(2), k(3), g, #g, w(3), #w

i^j(7), u, u^w(2), i(13), e^j(2), o^w, e(6), ɔ, æ(8), a^j(6), a(10),

First Syllable Segment Unstressed: #b(2), #m(2), #f(3), #t(2), t, #d(2), n, #s(4), l(4), t(3), #j(2), #k(3), #g(2), #w(2), #h

i^j(3), u^w(3), e^j, o, o^w, #ə(2), ə(6), ə, e(2), ɔ, #a(3), a(6)

Second Syllable Segment Stressed: b(2), v#, t^ʰ, t#(2), t, d(3), d^ʰ#, n#(3), n(3), s(2), z, ʃ(2), ʃ(6), ʃ#, l#, l(7), j, w

i^j, u^w(4), u^w#, i(3), e^j#, e^j(2), e#, o^w, ə, e(2), æ, æ^j, a^j(3), a(3), a#

Second Syllable Segment Unstressed: p(4), p#, b(5), m#, m(5), əɲ#, f(4), v, v#(2), t(9), t#, t^ʰ#, d#, d(2), tʃ, n(4), n#(4), əɲ#(4), əɲ, r(3), s(6), s#(2), z, ʃ(5), ʃ#, l(5), t, ʔ, ʔ#(6), j, k, k#(2), g(2), w, ʔ

i^j(2), i^j#, u^w(2), i(4), o^w#(3), ə(10), ə#(2), ə(3), ə#(2), e, a#, a^j(3), a#, a(7)

Third Syllable Segment Stressed: l

e^j

Third Syllable Segment Unstressed: p, b(2), m, m#, f(2), v(2), t(3), t#, n(6), n#(2), əɲ, əɲ#(2), Θ, s(2), s#(2), z(2), ʃ(5), l, t#(2), ʔ#(2), j(2), k(2), k#(2), g(2), ɲ

i^j, i^j#, u^w#, i(2), e^j, e^j#, ə, ə#(5), ə, ə#(2), e, æ^j, a(6), a#

Fourth Syllable Segment Stressed: n

a

Fourth Syllable Segment Unstressed: n#, əɲ#, r, Θ, s#(2), ʃ, ɲ#

i^j, i, ə(2)

Fifth Syllable Segment Stressed:

Fifth Syllable Segment Unstressed: t

eⁱ#

Segment Total by Syllable

First Syllable Segment: #p^h(3), #p, #b(8), #m(3), m, #f(10), f, #v, #t^h, #t(3), t, #d(4), #dʒ, n(9), #s(15), s(4), #z, #ʃ(2), ʌ(13), #ɹ(4), l(12), #l(5), ʔ(5), #j(6), #k^h(2), #k(3), k(3), g #g(3), w(3), #w(3), #h

iⁱ(8), u, u^w(6), u^w#, ɪ(16), eⁱ#(3), eⁱ(4), e#, o^w(2), ə, ε(8), ɔ, æ(9), æⁱ, aⁱ(9), a(13), a#

Second Syllable Segment: p(4), p#, b(7), m#, m(5), əm#, f(4), v, v#(3), t(10), t^ː, t#(3), t^ː#, d#, d(5), d^ː#, tʃ, n(7), n#(7), əŋ#(4), əŋ, r(3), s(8), s#(2), z(2), ʃ(2), ʌ(11), ɹ#(2), l(12), l#, ɹ, ʔ, ʔ#(6), j(2), k, k#(2), g(2), w(2), ʔ

iⁱ(3), iⁱ#(5), u^w(6), u^w#, ɪ(7), eⁱ#(3), eⁱ(2), e#, o^w, o^w#(3), ə(11), ə#(2), ɹ(3), ɹ#(2), ε(3), æ, æⁱ, a#, aⁱ(6), a#(2), a(10)

Third syllable Segment: p, b(2), m, m#, f(2), v(2), t(3), t#, n(6), n#(2), əŋ, əŋ#(2), Θ, s(2), s#(2), z(2), ʌ(5), l(2), t#(2), ʔ#(2), j(2), k(2), k#(2), g(2), ŋ

iⁱ, iⁱ#(2), u^w#, ɪ(2), eⁱ(2), eⁱ#, ə, ə#(5), ɹ, ɹ#(2), ε, æⁱ, a(6), a#

Fourth Syllable Segment: n#, n, əŋ#, r, Θ, s#(2), ʃ, ŋ#

iⁱ, ɪ, ə(2), a

Fifth Syllable Segment: t

eⁱ#

Segment Stressed and Unstressed Total

Stressed Segment: #p^h(3), #p, #b(6), b(2), #m, m, #f(7), f, #v, v#, #t^h, #t, t^ː, t#(2), t, d(3), d^ː#, #d(2), #dʒ, n(12), n#(3), #s(11), s(6), #z, z, #ʃ(2), ʃ(2), ʌ(19), #ɹ(4), ɹ#, l#(16), #l(5), ʔ(2), #j(4), j, #k^h(2), k(3), g #g, w(4), #w

iⁱ(8), u, u^w(6), u^w#, ɪ(16), eⁱ#(3), eⁱ(5), e#, o^w(2), ə, ε(8), ɔ, æ(9), æⁱ, aⁱ(9), a(14), a#

Unstressed Segment: p(5), p#, b(7), #b(2), #m(2), m#(2), m(6), əm#, f(6), #f(3), v(3), v#(2), t(14), #t(2), t#(2), t^ː#, d#, d(2), #d(2), tʃ, n(11), n#(7), əŋ#(7), əŋ(2), r(4), Θ(2), s(8), #s(4), s#(6), z(3), ʃ, ʌ(10), ɹ#, l(10), ʔ(4), t#(2), ʔ, ʔ#(8), j(3), #j(2), #k(3), k(3), k#(4), #g(2), g(4), ŋ, ŋ#, #w(2), w, ʔ, #h

iⁱ(7), iⁱ#(7), u^w(5), u^w#, ɪ(7), eⁱ(2), eⁱ#(2), o, o^w, o^w#(3), ə(19), #ə(2), ə#(7), ɹ(5), ɹ#(4), ε(4), ɔ, æⁱ, a#, aⁱ(3), #a(3), a#(2), a(19)

Segment Total (absolute)

Narrow: p(7), p#, #p^h(4), #p(2), b(9), #b(10), b#, #m(3), m#(3), m(7), əm#, f(7), f#, #f(11), #v(2), v(3), v#(3), #t^h(3), t(15), #t(3), t#(10), t^ː#, t^ː, d#, d(5), #d(6), d^ː#, tʃ#, tʃ, #dʒ, n(23), n#(15), əŋ#(7), əŋ(2), r, r(4), Θ(2), s(15), #s(19), s#(6), #z, z(4), z#, #ʃ(3), ʃ(3), ʃ#(3), #ɹ(4), ʌ(34), ɹ#(2), l(29), l#(2), #l(7), ʔ(7), t#(4), ʔ, ʔ#(8), j(4), #j(9), #k(3), k(6), #k^h(4), k#(4), #g(4), g(5), ŋ, ŋ#, #w(4), w(7), ʔ, #h(2)

iⁱ(16), iⁱ#(8), i, u, u^w(11), u^w#(2), ɪ(28), eⁱ(8), eⁱ#(5), e#, o, o^w(3), o^w#(3), ə(20), #ə(2), ə#(7), ɹ(5), ɹ#(4), ε(13), ʌ(2), ɔ(3), æ(10), æⁱ(2), a, #aⁱ, a#, aⁱ(13), a^w(2), a^h#, a^w, #a(3), a#(3), a(37)

Broad: p(14), b(20), m(14), f(19), v(8), t(33), d(13), tʃ, tʃ(2), dʒ, n(47), r, r(4), Θ(2), s(40), z(6), ʃ(9), ʌ(40), l(38), ʔ(20), j(13), k(17), g(9), ŋ(2), w(11), ʔ, h(2)

i(25), u(14), ɪ(28), e(14), o(7), ə(29), ɹ(9), ε(13), ʌ(2), ɔ(3), æ(12), a(18), a(45)

Supra-Segments: Consonant Clusters

Consonant Cluster Total for Stressed and Unstressed Syllables and Monosyllables according to Syllable Configuration

Monosyllable Consonant Cluster Onset (all entries are word initial): #pr, #p^hɹ, #bɹ, #bl, #fl, #vɹ, #spl, #sl, #sw, #k^hw, #gɹ

Monosyllable Consonant Cluster Coda (all entries are word final): pf#, st#, ɹf#, t#

First Syllable Consonant Cluster Stressed Onset (all entries are word initial): #p^hɹ, #bl(2), #bɹ(3), #fɹ(3), #fl(2), #tw, #sw(2), #sp, #k^hɹ

First Syllable Consonant Cluster Stressed Coda:

First Syllable Consonant Cluster Unstressed Onset (all entries are word initial): #fl, #kl, #gl

First Syllable Consonant Cluster Unstressed Coda:

Second Syllable Consonant Cluster Stressed Onset: bɹ, dɹ, st

Second Syllable Consonant Cluster Stressed Coda: nt#

Second Syllable Consonant Cluster Unstressed Onset: pl, tɹ, st, stɹ

Second Syllable Consonant Cluster Unstressed Coda:

Third Syllable Consonant Cluster Stressed Onset:

Third Syllable Consonant Cluster Stressed Coda:

Third Syllable Consonant Cluster Unstressed Onset: bɹ, stɹ

Third Syllable Consonant Cluster Unstressed Coda: ɳt#, ɳns#, ɳk#

Fourth Syllable Consonant Cluster Stressed Onset:

Fourth Syllable Consonant Cluster Stressed Coda:

Fourth Syllable Consonant Cluster Unstressed Onset:

Fourth Syllable Consonant Cluster Unstressed Coda:

Fifth Syllable Consonant Cluster Stressed Onset:

Fifth Syllable Consonant Cluster Stressed Coda:

Fifth Syllable Consonant Cluster Unstressed Onset:

Fifth Syllable Consonant Cluster Unstressed Coda:

Consonant Cluster Total for Stressed and Unstressed Onsets and Codas

Stressed Onset: #p^hɹ, #bl(2), #bɹ(3), bɹ, #fɹ(3), #fl(2), #tw, dɹ, #sw(2), #sp, st, #k^hɹ

Stressed Coda: nt#

Unstressed Onset: pl, bɹ, #fl, tɹ, st, stɹ(2), #kl, #gl

Unstressed Coda: ɳt#, ɳns#, ɳk#

Consonant Cluster Total for Onsets and Codas

Onset: #pr, #p^hɹ(2), pl, #bɹ(4), #bl(3), bɹ(2), #fɹ(3), #fl(4), #vɹ, #tw, tɹ, dɹ, #sp, #spl, #sl, #sw(3), st(2), stɹ(2), #k^hw, #k^hɹ, #kl, #gl, #gɹ

Coda: pf#, ɳt#(2), st#, ɹf#, ɳns#, t#, ɳk#

Consonant Cluster Total for Stressed and Unstressed Syllables and Monosyllables

Monosyllable Consonant Cluster: #pr, #p^hɹ, pf#, #bɹ, #bl, #fl, #vɹ, #spl, #sl, #sw, st#, ɹf#, t#, #k^hw, #gɹ

First Syllable Consonant Cluster Stressed: #p^hɹ, #bl(2), #bɹ(3), #fɹ(3), #fl(2), #tw, #sw(2), #sp, #k^hɹ

First Syllable Consonant Cluster Unstressed: #fl, #kl, #gl

Second Syllable Consonant Cluster Stressed: bɹ, dɹ, nt#, st

Second Syllable Consonant Cluster Unstressed: pl, tɹ, st, stɹ

Third Syllable Consonant Cluster Stressed:

Third Syllable Consonant Cluster Unstressed: bɹ, ɳt#, stɹ, ɳns#, ɳk#

Fourth Syllable Consonant Cluster Stressed:

Fourth Syllable Consonant Cluster Unstressed:

Fifth Syllable Consonant Cluster Stressed:

Fifth Syllable Consonant Cluster Unstressed:

Consonant Cluster Total per Syllable

First Syllable Consonant Cluster: #p^hɹ, #bl(2), #bɹ(3), #fɹ(3), #fl(2), #fl, #tw, #sw(2), #sp, #k^hɹ, #kl, #gl

Second Syllable Consonant Cluster: pl, bɹ, tɹ, dɹ, nt#, st(2), stɹ

Third Syllable Consonant Cluster: bɹ, ɳt#, stɹ, ɳns#, ɳk#

Fourth Syllable Consonant Cluster:

Fifth Syllable Consonant Cluster:

Consonant Cluster Stressed and Unstressed Total

Consonant Cluster Stressed: #p^hɹ, #bl(2), #bɹ(3), bɹ, #fɹ(3), #fl(2), #tw, dɹ, nt#, #sw(2), #sp, st, #k^hɹ

Consonant Cluster Unstressed: pl, bɹ, #fl, tɹ, ɳt#, st, stɹ(2), ɳns#, #kl, #gl, ɳk#

Consonant Cluster Total (absolute)

Narrow: pl, #p^hɹ(2), #pr, pf#, #bɹ(4), bɹ(2), #bl(3), #fl(4), #fɹ(3), #vɹ, #tw, tɹ, dɹ, nt#, ɳt#, #spl, #sp, #sl, #sw(3), st#, st(2), stɹ(2), ɳf#, ɳns#, ɳt#, #k^hw, #kl, #k^hɹ, #gɹ, #gl, ɳk#

Broad: pl, pɹ(3), pf, bɹ(6), bl(3), fl(4), fɹ(3), vɹ, tw, tɹ, dɹ, nt(2), spl, sp, sl, sw(3), st(3), stɹ(2), ɳf, ɳns, ɳt, kw, kl, kɹ, gɹ, gl, ɳk

Supra-Segments: Whole Syllables

Whole Syllable Total for Stressed and Unstressed Syllables and Monosyllables

Monosyllable Whole Syllable:

#prin#, #li^hm#, #ji^h#,

#flɪt#, #t^hɪz#, #t^hɪf#, #swɪpf#, #fɪn#,

#k^he^hb#,

#hɛt#,

#p^hɹɹst#, #lɹt#,

#jɹɹf#,

#dæɳ#,

#a^hts#, #bla^wf#, #da^wtʃ#, #sal#, #gɹa^ht#,

#bɹa^h#, #vɹa^wt#, #slat#, #splat#, #ja^h#, #k^hwan#, #wan#

First Syllable Whole Syllable Stressed (all entries are word initial):

#p^hɹⁱ, #bɹɹⁱ(2), #flɹⁱ, #fɹɹⁱk, #liⁱ, #k^hɹɹⁱ,

#su^w(2), #fu,

#blɹ, #bɹɹ, #bɪɹ, #fɹɹ, #vɹ, #dɹ, #sɹ, #sɪɹ, #fɪɹ, #ɹɹɪm, #lɹ, #jɹ, #wɪɹ,

#p^heⁱ, #ɹeⁱ,

#lo^w,

#p^hɹɛk, #mɛ, #dʒɛs, #dʒɛt, #ɹɛs, #jɛt,

#flɔ,

#blæɳ, #flæɳ, #fɹæɳ, #dæɳ, #sæɳ, #zæɳ, #læ, #jæk,

#flaⁱ, #t^haⁱ, #twa^h, #saⁱ(2), #ɹaⁱ,

#swaɹ, #swaf, #spaɹ, #sa, #ɹa, #la(2), #ja, #k^han, #gaɹ

First Syllable Whole Syllable Unstressed (all entries are word initial):

#fiⁱ, #diⁱ, #siⁱ,

#mu^w, #tu^w, #ju^w,

#beⁱ,

#son, #ho^w,

#ə(2), #bə, #mə, #tə, #də, #sə, #gə,

#flə,

#kle, #gle,

#flɔ,

#aɪ,

#a(2), #saɪ, #jat, #ka, #kaɪ, #wa(2)

Second Syllable Whole Syllable Stressed: niⁱv#,

fu^wl#, fu^wn#, ju^w#, lu^w(2),
 mɪt#, sɪ, sɪnt#, lɪ,
 te#, zeⁱ, ɹeⁱdʒ#, ɹeⁱ, leⁱ#, (2),
 dʒo^w,
 dɛ, ɹɛ,
 æ, dæⁱɹ#,
 baⁱ, baⁱtʃ, waⁱt#,
 ɹɑ#, lɑn, lɑ#, jan#

Second Syllable Whole Syllable Unstressed:

piⁱ#, biⁱ#, miⁱ#, tɹiⁱ#, tiⁱk#, siⁱ#, ɹiⁱ,
 pu^wv#, bu^wm#,
 mɪn#, nɪp#, zɪt#,
 o^w#, tʃo^w#, lo^w#,
 ə(2) plə, bɔt, bɹə#, mɔt#, fɔt#, fɔm#, vən, təs#, tə, də, dɔt#, nə, nə#, nɔt#, rə(2), rɔt#, stɹən#, sən#, stən#, ɹə, gə, ɡɔt#, ʔən#,
 pə#, bə#, fə(2), təd#,
 ɛs#,
 maⁱ, naⁱ, laⁱtʃ, wa#,
 aɪ#, tak#, sta#, san#, lav#, la, jan#, kan#

Third Syllable Whole Syllable Stressed:

leⁱ

Third Syllable Whole Syllable Unstressed: niⁱ, ʊiⁱ#,

vu^w#,
 lɪk#, jɪn#,
 meⁱ, zeⁱ#,
 ə, pən#, bɹə#, fɔt#, tən#, nə(2), sɔnt#, zɔt#, ɹə#, kə#,
 ɔ#, fə, və#,
 nɛs#,
 ɡæⁱt#,
 ɑt#, baɪ, tɑɪns#, stɹɑn#, ja#, kam#, ɡɑŋk#

Fourth Syllable Whole Syllable Stressed:

na

Fourth Syllable Whole Syllable Unstressed:

ʊiⁱn#,
 rɪŋ#,
 əs#, ən#, fəs#

Fifth Syllable Whole Syllable Stressed:**Fifth Syllable Whole Syllable Unstressed:**

teⁱ#,

Whole Syllable Total per Syllable**First Syllable Whole Syllable (all entries are word initial):**

p^hiⁱ, #bɹiⁱ(2), #fliⁱ, #fɹiⁱk, #fiⁱ, #diⁱ, #siⁱ, #liⁱ, #k^hɹiⁱ,
 #mu^w, #tu^w, #su^w(2), #fu, #ju^w,
 #bɪɪ, #bɹɪ, #bɪn, #fɪɪ, #vɪ, #dɪ, #sɪ, #sɪn, #fɪn, #ɹɪm, #lɪ, #jɪ, #wɪn,
 #p^heⁱ, #beⁱ, #ɹeⁱ,
 #son, #lo^w, #ho^w,
 #ə(2), #bə, #mə, #tə, #də, #sə, #gə,
 #flə,
 #p^hɹɛk, #mɛ, #dʒɛs, #dʒɛt, #ɹɛs, #jɛt, #kle, #gle,
 #flɔ(2),

#blæs, #flæn, #fɹæg, #dæn, #sæn, #zæɪ, #læ, #jæk,
 #aɪ, #flaɪ, #tʰaɪ, #twaɪ, #saɪ(2), #ɹaɪ,
 #a(2), #saɪ, #swaɪ, #swaf, #spaɪ, #sa, #ɹa, #la(2), #ja, #jat, #ka, #kaɪ, #kʰan, #gaɪ, #wa(2)

Second Syllable Whole Syllable:

piɪ#, biɪ#, miɪ#, tɪɪ#, tiɪk#, niɪv#, siɪ#, ɹiɪ,
 puɪv#, buɪw#m#, ɹuɪl#, ɹuɪn#, ɹuɪw#, luɪ(2),
 min#, mɪɪ, nɪp#, sɪ, sint#, zit#, lɪ,
 te#, zeɪ, ɹeɪdʰ#, ɹeɪ, leɪ(2),
 oʷ#, dɹoʷ, tʃoʷ#, loʷ#,
 ə(2) plə, bəɪ, bɹə#, məɪ#, fəɪ#, ɹəɪ#, vəɪ, təs#, tə, də, dʰə#, nə, nə#, nəɪ#, ɹə(2), ɹəɪ#, stʰəɪ#, səɪ#, stəɪ#, ɹə, gə, gəɪ#, ʔəɪ#,
 pəɪ#, bəɪ#, fəɪ(2), təɪd#,
 ɛs#, dɛ, ɹɛ,
 æ, dæɪɹ#,
 baɪ, baɪtʰ, maɪ, naɪ, laɪtʰ#, wa#, waɪt#,
 ɹaɪ#, tak#, sta#, san#, ɹa#, lan, la#, lav#, la, jan#(2), kan#

Third Syllable Whole Syllable:

niɪ, ʊiɪ#,
 vuɪw#,
 lɪk#, jɪn#,
 meɪ, zeɪ#, leɪ,
 ə, pəɪ#, bɹə#, fəɪ#, təɪ#, nə#(2), səɪt#, zəɪ#, ɹə#, kə#,
 ə#, fəɪ, vəɪ#,
 nɛs#,
 gæɪt#,
 aɪt#, baɪ, taɪns#, stʰaɪn#, ja#, kam#, gaɪk#

Fourth Syllable Whole Syllable:

ʊiɪn#,
 ɹɪɪ#,
 əs#, əɪ#, ɹəs#,
 na

Fifth Syllable Whole Syllable:

teɪ#

Whole Syllable Stressed and Unstressed Total

Whole Syllable Stressed:

#pʰɪɪ, #bɹɪɪ(2), #fliɪ, #fɹɪɪk#, niɪv#, #liɪ, #kʰɹɪɪ,
 #suɪ(2), #ɹu, ɹuɪl#, ɹuɪn#, ɹuɪw#, luɪ(2),
 #bli, #bɹɪ, #bɪn, mɪɪ, #fɹɪ, #vɪ, #dɪ, #sɪ, sɪ, #sin, sint#, #ɹɪn, #ɹɪm, #lɪ, lɪ, #jɪ, #win,
 #pʰeɪ, te#, zeɪ, #ɹeɪ, ɹeɪ, ɹeɪdʰ#, leɪ(2), leɪ,
 dɹoʷ, #loʷ,
 #pʰɹɛk, #mɛ, dɛ, #dʒɛs, #dʒɛt, ɹɛ, #ɹɛs, #jɛt,
 #flɔ,
 æ, #blæs, #flæn, #fɹæg, #dæn, dæɪɹ#, #sæn, #zæɪ, #læ, #jæk,
 baɪ, baɪtʰ, #flaɪ, #tʰaɪ, #twaɪ, #saɪ(2), #ɹaɪ, waɪt#,
 na, #swaɪ, #swaf, #spaɪ, #sa, #ɹa, ɹa#, lan, la#, #la(2), #ja, jan#, #kʰan, #gaɪ

Whole Syllable Unstressed:

piɪ#, biɪ#, miɪ#, #fiɪ, tɪɪ#, tiɪk#, #diɪ, niɪ, siɪ#, #siɪ, ʊiɪ#, ʊiɪn#, ɹiɪ,
 puɪv#, buɪw#m#, #muɪ, vuɪw#, #tuɪ, #juɪ,
 min#, nɪp#, ɹɪɪ#, zit#, lɪk#, jɪn#,
 #beɪ, meɪ, teɪ#, zeɪ#,
 oʷ#, tʃoʷ#, #son, loʷ#, #hoʷ,
 ə(3), #ə(2), əs#, plə, pəɪ#, bəɪ, bɹə#(2), #bə, məɪ#, #mə, fəɪ#(2), ɹəɪ#, vəɪ, təs#, tə, #tə, təɪ#, #də, də, dʰə#, nə, nə#(3), nəɪ#, əɪ#, ɹə(2), ɹəɪ#,
 #sə, stʰəɪ#, səɪ#, stəɪ#, səɪt#, zəɪ#, ɹəs#, ɹə, ɹə#, kə#, gə, #gə, gəɪ#, ʔəɪ#,

ʌ#, pə#, bə#, fə(3), #flə, və#, təd#,
 ɛs#, nɛs#, #klɛ, #glɛ,
 #flɔ,
 gæʲtʰ#,
 #aʔ, maʲ, naʲ, laʲtʰ#, wa#,
 #a(2), aʲ#, aʔ#, baʲ, tak#, taʲns#, sta#, san#, #saʔ, stʲan#, lav#, la, jan#, #jat, ja#, kam#, #ka, #kaʔ, kan#, ganʲk#, #wa(2)
 Whole Syllable Total (absolute)

Narrow:

piʲ#, #prin#, biʲ#, #bʲiʲ(2), miʲ#, #fiʲ, #fliʲ, #fʲiʲk, tʲiʲ#, tiʲk#, #diʲ, niʲ, niʲv#, siʲ#, #siʲ, ʰiʲ, ʰiʲn#, ʲiʲ, #liʲ, #liʲm#, #jiʲ#, #kʰiʲ,
 puʷv#, buʷm#, #muʷ, vuʷ#, #tuʷ, #suʷ(2), #fu, fuʷl#, fuʷn#, ʲuʷ#, luʷ(2), #juʷ,
 #bli, #bʲi, #bin, miʔ, min#, #fʲi, #fliʔ#, #vi, #tʰiz#, #tʰiʃ#, #di, nip#, riŋ#, #si, si, #sin, sint#, #swipf#, #ʃin#, #ʃin, zit#, #ʲim, #li, li,
 lɪk#, jin#, #ji, #win,
 #pʰeʲ, #beʲ, meʲ, teʲ#, te#, zeʲ#, zeʲ, #jeʲ, jeʲ, jeʲdʰ#, leʲ(2), leʲ, #kʰeʲb#,
 oʷ#, dʲoʷ, tʃoʷ#, #son, #loʷ, loʷ#, #hoʷ,
 ə(3), #ə(2), əs#, plə, pəŋ#, bəʔ, bʲəʔ(2), #bə, məʔ#, #mə, fəʔ(2), fəŋ#, vəŋ, təs#, tə, #tə, təŋ#, #də, də, dəʔ#, nə, nə(3), nəʔ#, əŋ#, rə(2), rəʔ#,
 #sə, stʲəŋ#, səŋ#, stəŋ#, səŋtʰ#, ʃəs#, ʲə, ʲə#, kə#, gə, #gə, gəʔ#, ʔəŋ#,
 ʌ#, pə#, bə#, fə(3), #flə, və#, təd#,
 ɛs#, #pʰɛk, #mɛ, dɛ, dʒɛs, dʒɛʔ, nɛs#, ʲɛ, ʲɛs, #jɛʔ, #klɛ, #glɛ, #hɛʔtʰ#,
 #pʰɪʌstʰ#, #lɪʔtʰ#,
 #flɔ(2), #jɔʲʃ#,
 æ, #blæs, #flæn, #fʲæŋ, #dæn, #dæn#, dæʲʲ#, #sæn, #zæs, #læ, #jæk, gæʲtʰ#,
 #aʔ, #aʲtsʰ#, baʲ, baʲtʰ, #blaʲʃ#, maʲ, #flaʲ, #tʰaʲ, #twaʲʔ, #daʲʰtʃ#, naʲ, #saʲ(2), #sal#, #jaʲ, laʲtʰ#, #gʲaʲtʰ#, wa#, waʲtʰ#,
 #a(2), aʲ#, aʔ#, baʲ, #bʲaʰ#, #vʲaʲʰtʰ#, tak#, taʲns#, na, sta#, san#, #saʔ, stʲan#, #swaʲ, #swaf, #spaʲ, #sa, #slaʔ#, #splatʰ#, #ʲa, ʲa#, lav#,
 lan, la, la#, #la(2), #ja, ja#, #jaʰ#, janʲ(2), #jat, kam#, #ka, #kaʔ, kan#, #kʰan, #kʰwan#, ganʲk#, #gaʲ #wa(2), #wan#

Broad:

pi, prin, bi, bʲi(2), mi, fi, fli, fʲiʲk, tʲi, tik, di, ni, niv, si(2), ʰi, ʰin, ʲi, li, lim, ji, kʲi,
 puv, bʲum, mu, vu, tu, su(2), fu, fuʲ, fun, ʲu, lu(2), ju,
 bli, bʲi, bin, miʔ, min, fʲi, fliʔ, vi, tiz, tʃ, di, nip, riŋ, si(2), sin, sint, swipf, ʃin(2), zit, ʲim, li(2), lɪk, jin, ji, win,
 pe, be, me, te(2), ze(2), je(2), jed, le(3), keb,
 o, dʲo, tʃo, son, lo(2), ho,
 ə(5), əs, plə, pəŋ, bəʔ, bʲəʔ(2), bə, məʔ, mə, fəʔ(2), fəŋ, vəŋ, təs, tə(2), təŋ, də(2), dəʔ, nə(4), nəʔ, əŋ, rə(2), rəʔ, sə, stʲəŋ, səŋ, stəŋ, səŋt, zəʔ, ʃəs,
 ʲə(2), kə, gə(2), gəʔ, ʔəŋ,
 ʌ, pə, bə, fə(3), flə, və, təd,
 ɛs, pɛk, mɛ, dɛ, dʒɛs, dʒɛʔ, nɛs, ʲɛ, ʲɛs, jɛʔ, klɛ, glɛ, hɛʔtʰ,
 pɪʌst, lɪʔ,
 flɔ(2), jɔʲʃ,
 æ, blæs, flæn, fʲæŋ, dæn(2), dæʲ, sæn, zæs, læ, jæk, gæʔ,
 aʔ, ats, ba, bat, blaʃ, ma, fla, ta, twaʔ, datʃ, na, sa(2), sal, ʲa, lat, gʲat, wa, wat,
 a(2), aʲ, aʔ, baʲ, bʲaʰ, vʲat, tak, taʲns, na, sta, san, saʔ, stʲan, swaʲ, swaf, spaʲ, sa, slaʔ, splat, ʲa(2), lav, lan, la(4), ja(3), jan(2), jat, kam,
 ka, kaʔ, kan(2), kwan, ganʲk, gaʲ, wa(2), wan

Supra-Segments: Whole Words

Whole Word Total per Word Length

Whole Monosyllables:

tiʰsh [tʰiʃ], shin [ʃin], yah [jaʰ], preen [prin], splaht [splat], yorsh [jɔʲʃ], pruhst [pʰɪʌst], helt [hɛʔt], ites [aʲts], brah
 [bʲaʰ], swipf [swipf], leem [liʲm], grite [gʲaʲtʰ], slahl [slaʔ], flit [fliʔ], dan [dæn], lull [lɪʔ], wahn [wan], bloush [blaʷʃ], yee [jiʲ], kwahn
 [kʰwan], sahl [sal], tiʰz [tʰiz], vraht [vʲaʲʰtʰ], dowch, [daʲʰtʃ], kabe [kʰeʲb]

Whole Bisyllables:

JELbroom [dʒɛʔ·bʲuʷm], WINstruhn [win·stʲəŋ], LOWsun [loʷ·səŋ], BLASTurd [blæs·təd], FRIHtul [fʲi·rəʔ], SHOOwah
 [ʃu·wa], FLYtus [flaʲ·təs], LAHpee [la·piʲ], YAHstah [ja·sta], BINDuhl [bin·dəʔ], SHINTahk [ʃin·tak], YAKmee
 [jæk·miʲ], SINTree [sin·tʲiʲ], YELbee [jeʔ·biʲ], LEETuhn [liʲ·ʔəŋ], SOOess [suʷ·ɛs], BREEo [bʲiʲ·oʷ], PREKsahn [pʰɛk·san],
 FLANteek [flæn·tiʲk], SOOnuh [suʷ·nə], GAHRmin [gaʲ·min], TYpoov [tʰaʲ·puʷv], RAYahr [ʲeʲ·aʲ], SAHmul [sa·məʔ], LAzit [læ·zit],
 RIMfūm [ʲim·fəŋ], BREElite [bʲiʲ·laʲtʰ], JESSlahv [dʒɛs·lav], DIHful [di·fəʔ], SANsee [sæn·siʲ], RAHlow [ʲa·loʷ], RYbur [ʲaʲ·bə],

SYkahn ['saːˌkan], SWAHFnip ['swafˌnɪp], LIHnul ['lɪˌnʉ], ZASpuhr ['zæːsˌpəː], FLEEguhl ['fliːˌgʉ], FREEKstuhn ['friːkˌstʉn], SIHchoe ['sɪˌtʃoː], PAYyahn ['pʰeːˌjan], YIHbruɪh ['jɪˌbrʉə],

ahSHOON [aˌˈfuːn], deeYAHN [diːˌˈjan], mooLAY [muːˌˈleː], seeNEEV [siːˌˈniːv], guhLAHN [gəˌˈlan], sownTAY [sonˌˈte], suhROO [səˌˈruː], muhLAY [məˌˈleː], klehDAIR [kleˌˈdæːɹ], glehSINT [gleˌˈsɪnt], floRAYD [floˌˈleːd], youWITE [juːˌˈwaːt], feeLAH [fiːˌˈla], yahtSHOOL [jatˌˈfuːl]

Whole Trisyllables:

BLIHvuntahrnce ['blɪˌvʉˌˈtaɪns], FLOreeahl ['floˌˌiːˌˈaɪ], SYrunee ['saːˌˌjəˌˈniː], FRAGmyur ['fɹægˌˌmaːˌˈəː], RESpluhgahnk ['ɹesˌˌpləˌˈganhk], MEGuhstrahn ['mɛˌˌgəˌˈstɹan], LAHtuhkuh ['laˌˌrəˌˈkə], DANduhful ['dænˌˌdəˌˈfʉ], TWILEfurvur ['twaɪˌˌfəˌˈvəː], BRIHtuhnɪh ['brɪˌˌtəˌˈnə], SWAHRnuhkahm ['swaɹˌˌnəˌˈkam], KREEuhthee ['kʰɹiːˌˌəˌˈθiː], VIHbulgail ['viˌˌbʉˌˈgæːɪ], PEEuhzay ['pʰiːˌˌəˌˈzeː], SPAHRtuhlik ['spɑɹˌˌrəˌˈlɪk],

flurREHsunt [fləˌˌˌɛˌˈsʉnt], duhBITEnes [dəˌˌˈbaɪˌˈnɛs], uhLOObruɪh [əˌˌˈluːˌˈbrʉə], bayANnuh [beːˌˌˈæˌˈnə], wahRAHvoo [waˌˌˈɹaˌˈvuː], ahRAYzul [aˌˌˈɹeːˌˈzʉ], uhLOOtuhn [əˌˌˈluːˌˈtʉn], wahDROpuhn [waˌˌˈdɹoːˌˈpʉn], ahlBYyah [aɪˌˌˈbaːˌˈja], sahlDERuh [saɪˌˌˈdɛˌˈɹə], buhMILyin [bəˌˌˈmiːˌˈjɪn]

Whole Tetrasyllables:

KAHNfurmayteeng ['kʰanˌˌfəˌˈmeːˌˈrɪŋ],

kahlSIHneeun [kaɪˌˌˈsɪˌˈniːˌˈʉn], hoZAYuhtheen [hoːˌˌˈzeːˌˈəˌˈθiːn], tooLIHfuhrus [tuːˌˌˈlɪˌˈfəˌˈəs],

tuhneyeLAYshus [təˌˌˈnaːˌˈleːˌˈʃəs]

Whole Pentasyllables:

kahlahbahrNAHtay [kaˌˌˌlaˌˌˈbaɹˌˈnaˌˈteː]



Question ID: b.

Segments

Segment Total for Stressed and Unstressed Syllables and Monosyllables according to Syllable Configuration

Monosyllable Onset: #p, #p^h, #b(4), #m(2), m(2), #f, #v(2), #d, #s(5), #f(2), ʃ, #l, l(3), #j, #k^h(3), #x, #w(3), w(2)

Monosyllable Nucleus: iⁱ(4), u^w(4), u^w#, #u:ʷ, u#, eⁱ, #o^w, o^w, ə(2), ε(2), εⁱ, æ, aɪ, aⁱ(2), a^w, a, #a, a(4)

Monosyllable Coda: p#, b#(2), f#, t#(5), tʃ#, n#(4), θ#, s#, s, z#(2), ʃ#(3), ʒ(2), ʃ#, t(2), g#

First Syllable Segment Stressed Onset: p, #p^h(4), #b(8), #m, #f, #t^h(3), #d(3), #n, #s(8), #z, #f, ʒ(6), l(9), #k^h(11), k, #w(10), w(3), #h(2)

First Syllable Segment Stressed Nucleus: iⁱ, iⁱ(2), u^w(6), #u^w, ɪ(9), eⁱ(3), ø, o^w(2), ə, ε(9), #ʌ, ʌ, ɔ, æ(10), a^w, #a(3), a(10)

First Syllable Segment Stressed Coda: p, m(3), v, n(8), s, f(2), ʒ(3), t(2), k

First Syllable Segment Unstressed Onset: #p, #b(3), #v, #d(2), #s(3), ʃ, l(2), #g, w, #h(4)

First Syllable Segment Unstressed Nucleus: #iⁱ, u^w, #ɪ, ɪ, o^w, #ə(2), ə(6), ə, #ε, aⁱ(2), #a(3), a(3)

First Syllable Segment Unstressed Coda: n(2), ʃ

Second Syllable Segment Stressed Onset: p^h(2), b(2), f(3), v, t^h, n, s, ʒ(3), l, j, k^h, w(2)

Second Syllable Segment Stressed Nucleus: iⁱ(3), u^w(2), ɪ(2), eⁱ(3), ə, εɪ, ε, εⁱ, ɔ, æⁱ, aⁱ, a(3)

Second Syllable Segment Stressed Coda: m#, d#, d^w#, n(2), z#, ʒ#(2), ʒ(2)

Second Syllable Segment Unstressed Onset: p, b(8), m(4), f(5), v(2), d(3), n(3), r, ʃ, s(3), z, f(3), ʒ(9), l(11), t(6), j, k(3), g

Second Syllable Segment Unstressed Nucleus: iⁱ#, iⁱ(2), i, u^w(2), u^w#, ɪ(5), eⁱ(2), o^w#, o^w, ə(9), ɹ#(7), ɹ, ɹ#(3), ɹ#(2), ɹ, ə#(5), ə(3), ε, aⁱ#, a#, a(3)

Second Syllable Segment Unstressed Coda: f#, v#, d^w#, n#(2), s#(2), z#, ʃ#(2), ʒ#, t#, k#(2)

Third Syllable Segment Stressed Onset: m, n

Third Syllable Segment Stressed Nucleus: iⁱ(2)

Third Syllable Segment Stressed Coda:

Third Syllable Segment Unstressed Onset: b, v, t(4), t^h, d, n(3), r, r(3), s, z, ʃ, ʒ(4), l(3), j(2), k, g, w

Third Syllable Segment Unstressed Nucleus: iⁱ(2), ɪ(4), o^w#, ə(6), ə#, ɹ#(3), ɹ#(2), ε#, ɔ, æ, aⁱ, a(3)

Third Syllable Segment Unstressed Coda: p#, n#(2), s#(3), ʒ#(2), t#, k#, ɳ#

Fourth Syllable Segment Stressed Onset: n

Fourth Syllable Segment Stressed Nucleus: ε

Fourth Syllable Segment Stressed Coda:

Fourth Syllable Segment Unstressed Onset: t, r, z, ʒ(2)

Fourth Syllable Segment Unstressed Nucleus: i#, iⁱ#, ɪ, ə(2), ə#, ɹ#(2)

Fourth Syllable Segment Unstressed Coda: s#(2), k#

Fifth Syllable Segment Stressed Onset:

Fifth Syllable Segment Stressed Nucleus:

Fifth Syllable Segment Stressed Coda:

Fifth Syllable Segment Unstressed Onset: t

Fifth Syllable Segment Unstressed Nucleus: eⁱ#

Fifth Syllable Segment Unstressed Coda:

Segment Total for Stressed and Unstressed Onsets and Codas

Stressed Onset: p, #p^h(4), p^h(2), #b(8), b(2), #m, m, #f, f(3), v, #t^h(3), t^h, #d(3), #n, n(3), #s(8), s, #z, #f, ʒ(9), l(10), j, #k^h(11), k^h, k, #w(10), w(5), #h(2)

Stressed Coda: p, m(3), m#, v, d#, d^w#, n(10), s, z#, ʃ(2), ʒ(5), t#(2), k

Unstressed Onset: #p, p, #b(3), b(9), m(4), f(5), #v, v(3), t(6), t^h, #d(2), d(4), n(6), r, r(5), ð, #s(3), s(4), z(2), ʃ(4), ʒ(16), l(16), t(6), j(3), k(4), #g, g(2), w(2), #h(4)

Unstressed Coda: p#, f#, v#, d^h#, n(2), n#(4), s#(7), z#, ʃ#(2), ʒ, ʒ#(3), t#(2), k#(4), ŋ#

Segment Total for Onsets and Codas

Onset: #p(2), #p^h(5), p^h(2), p(2), #b(15), b(11), #m(3), m(7), #f(2), f(8), #v(3), v(4), #t^h(3), t(6), t^h(2), #d(6), d(4), #n, n(9), r, r(5), ð, #s(16), s(5), #z, z(2), #ʃ(3), ʃ(4), ʒ(26), #l, l(29), t(6), #j, j(4), #k^h(14), k^h, k(5), #g, g(2), #x, #w(13), w(9), #h(6)

Coda: p, p#(2), b#(2), m(3), m#, f#(2), v, v#, t#(5), d#, d^h#, tʃ#, n(12), n#(8), Θ#, s(2), s#(8), z#(4), ʃ(2), ʃ#(5), ʒ(8), ʒ#(6), t(4), t#(2), k, k#(4), g#, ŋ#

Segment Total for Stressed and Unstressed Syllables and Monosyllables

Monosyllable Segment: #p, #p^h, p#, b#(2), #b(4), #m(2), m(2), f#, #f, #v(2), t#(5), #d, tʃ#, n#(4), Θ#, s#, s, #s(5), z#(2), ʃ#(3), #ʃ(2), ʒ(3), ʒ#, #l, l(3), t(2), #j, #k^h(3), g#, #x, #w(3), w(2)

i^j(4), u^w(4), u^w#, #u:^w, u#, e^j, #o^w, o^w, ə(2), ε(2), ε^j, æ, a:, a^j(2), a^w, a, #a, a(4)

First Syllable Segment Stressed: p(2), #p^h(4), #b(8), #m, m(3), #f, v, #t^h(3), #d(3), #n, n(8), #s(8), s, #z, #ʃ, ʃ(2), ʒ(9), l(9), t(2), #k^h(11), k(2), #w(10), w(3), #h(2)

#i^j, i^j(2), u^w(6), #u^w, ɪ(9), e^j(3), ø, o^w(2), ə, ε(9), #ʌ, ʌ, ɔ, æ(10), a^w, #a(3), a(10)

First Syllable Segment Unstressed: #p, #b(3), #v, #d(2), n(2), #s(3), ʒ(2), l(2), #g, w, #h(4)

#i^j, u^w, #ɪ, ɪ, o^w, #ə(2), ə(6), ə, #ε, a^j(2), #a(3), a(3)

Second Syllable Segment Stressed: p^h(2), b(2), m#, f(3), v, t^h, d#, d^h#, n(3), s, z#, ʒ(5), ʒ#(2), l, j, k^h, w(2)

i^j(3), u^w(2), ɪ(2), e^j(3), ə, ε:, ε, ε^j, ɔ, æ^j, a^j, a(3)

Second Syllable Segment Unstressed: p, b(8), m(4), əm#(3), f(5), f#, v#, v(2), d(3), d^h#, n#(2), n(3), ən#(2), ən, r, ð, s(3), s#(2), z#, z, ʃ(3), ʃ#(2), ʒ(9), ʒ#, l(11), t(6), t#, t#(7), t, j, k(3), k#(2), g

i^j#, i^j(2), i, u^w(2), u^w#, ɪ(5), e^j(2), o^w#, o^w, ə(9), ə#(5), ə(3), ε, a^j#, a#, a(3)

Third Syllable Segment Stressed: m, n

i^j(2)

Third Syllable Segment Unstressed: p#, b, əm#, v, t(4), t^h, d, n(3), n#(2), ən#(3), r, r(3), s, s#(3), z, ʃ, ʒ(4), ʒ#(2), l(3), t#, t#(2), j(2), k, k#, g, ŋ#, w

i^j(2), ɪ(4), o^w#, ə(6), ə#, ε#, ɔ, æ, a^j, a(3)

Fourth Syllable Segment Stressed: n

ε

Fourth Syllable Segment Unstressed: əm#(2), t, r, s#(2), z, ʒ(2), k#

i#, i^j#, ɪ, ə(2), ə#

Fifth Syllable Segment Stressed:

Fifth Syllable Segment Unstressed: t

e^j#

Segment Total by Syllable

First Syllable Segment: p(2), #p^h(4), #p, #b(11), #m, m(3), #f, #v, v, #t^h(3), #d(5), #n, n(10), #s(11), s, #z, #f, f(2), ʌ(11), l(11), t(2), #k^h(11), k(2), #g, #w(10), w(4), #h(6)

#i^j(2), i^j(2), u^w(7), #u^w, #ɪ, ɪ(10), e^j(3), ø, o^w(3), #ə(2), ə(6), ʌ(2), ε(9), #ε, #Λ, Λ, ɔ, æ(10), a^j(2), a^w, #a(6), a(13)

Second Syllable Segment: p, p^h(2), b(10), m(4), m#, ʌm(3), f(8), f#, v#, v(3), t^h, d#, d(3), d^h(3), n#(2), n(6), ʌn(2), ʌn, r, ɔ, s(4), s#(2), z#(2), z, f(3), f#(2), ʌ(14), ʌ#(3), l(12), t(6), t#, t#(7), t, j(2), k(3), k#(2), k^h, g, w(2)

i^j(8), i^j(5), i, u^w(4), u^w#, ɪ(7), e^j(5), o^w#, o^w, ə(9), ʌ(5), ʌ(4), ε(2), εɪ, ε^j, ɔ, æ^j, a^j, a^j#, a#, a(6)

Third syllable Segment: p#, b, m, ʌm#, v, t(4), t^h, d, n(4), n#(2), ʌn(3), r, r(3), s, s#(3), z, f, ʌ(4), ʌ#(2), l(3), t#, t#(2), j(2), k, k#, g, η#, w

i^j(4), ɪ(4), o^w#, ə(6), ə#, ε#, ɔ, æ, a^j, a(3)

Fourth Syllable Segment: ʌm#(2), t, n, r, s#(2), z, ʌ(2), k#

i#, i^j#, ɪ, ə(2), ə#, ε

Fifth Syllable Segment: t

e^j#

Segment Stressed and Unstressed Total

Stressed Segment: p(2), #p^h(4), p^h(2), #b(8), b(2), m#, #m, m(4), #f, f(3), v(2), #t^h(3), t^h, #d(3), d#, d^h#, #n, n(13), #s(8), s(2), #z, z#, #f, f(2), ʌ(14), ʌ#(2), l(10), t(2), j, #k^h(11), k^h, k(2), #w(10), w(5), #h(2)

#i^j, i^j(7), u^w(8), #u^w, ɪ(11), e^j(6), ø, o^w(2), ʌ(2), ε(11), εɪ, ε^j, #Λ, Λ, ɔ(2), æ(10), æ^j, a^j, a^w, #a(3), a(13)

Unstressed Segment: p, #p, p#, #b(3), b(9), m(4), ʌm#(6), f(5), f#, #v, v#, v(3), t(6), t^h, #d(2), d(4), d^h#, n#(4), n(8), ʌn(5), ʌn, r, r(5), ɔ, s(4), #s(3), s#(7), z#, z(3), f(4), f#(2), ʌ(17), ʌ#(3), l(16), t(6), t#(2), t#(9), t, j(3), k(4), k#(4), g(2), #g, η#, w(2), #h(4)

#i^j, i^j#, i#, i^j(4), i, u^w(3), u^w#, #ɪ, ɪ(11), e^j(2), e^j#, o^w#, o^w(2), #ə(2), ə(24), ə#(2), ʌ(5), ʌ(4), ε, #ε, ε#, ɔ, æ, a^j(3), a^j#, #a(3), a#, a(9)

Segment Total (absolute)

Narrow: p(3), #p(2), p#(2), #p^h(5), p^h(2), #b(15), b(11), b#(2), #m(3), m(10), m#, ʌm#(6), #f(2), f(8), f#(2), #v(2), v#, v(5), t(6), #t^h(3), t^h(2), t#(5), #d(6), d(4), d#, d^h#, t#, #n, n#(8), n(21), ʌn#(5), ʌn, r, r(5), ɔ, s(7), #s(16), s#(8), #z, z#(4), z(3), #f(3), f(6), f#(5), ʌ(34), ʌ#(6), #l, l(29), t(10), t#(2), t#(9), t, #j, j(4), #k^h(14), k^h, k(6), k#(4), g(2), #g, g#, η#, #x, #w(13), w(9), #h(6)

#i^j(2), i^j#, i#, i^j(15), i, #u^w, #u^w, u^w(15), u^w#, u#, #ɪ, ɪ(22), e^j(9), e^j#, ø, o^w, o^w#, o^w(5), #ə(2), ə(24), ə#(2), ʌ(5), ʌ(8), ε(14), #ε, ε#, εɪ, ε^j(2), #Λ, Λ, ɔ(3), æ(12), æ^j, a, aɪ, a^w(2), a^j(6), a^j#, #a(7), a#, a(26)

Broad: p(14), b(28), m(20), f(12), v(8), t(16), d(14), t#, n(36), r, r(5), ɔ, s(31), z(8), f(14), ʌ(40), l(30), t(22), j(5), k(25), g(4), η, x, w(22), h(6)

ɪ(28), i, u(20), ɪ(23), e(10), ø, o(12), ə(28), ʌ(13), ε(19), Λ(2), ɔ(3), æ(13), a(11), a(34)

Supra-Segments: Consonant Clusters

Consonant Cluster Total for Stressed and Unstressed Syllables and Monosyllables according to Syllable Configuration

Monosyllable Consonant Cluster Onset (all entries are word initial): #p^hl, #bl, #bɪ, #sm(2), #sl, #fw, #k^hw

Monosyllable Consonant Cluster Coda (all entries are word final): nt#(2), st#, ɪt#, t#, t#

First Syllable Consonant Cluster Stressed Onset (all entries are word initial): #p^hl, #bl(5), #fl, #t^hɪ(2), #dɪ, #sɪ, #sk, #spl, #sw(2), #k^hɪ(2), #k^hw

First Syllable Consonant Cluster Stressed Coda:

First Syllable Consonant Cluster Unstressed Onset (all entries are word initial): #pl, #bl, #bɪ, #gw

First Syllable Consonant Cluster Unstressed Coda:

Second Syllable Consonant Cluster Stressed Onset: p^hl

Second Syllable Consonant Cluster Stressed Coda:

Second Syllable Consonant Cluster Unstressed Onset: vɹ, st(2)

Second Syllable Consonant Cluster Unstressed Coda: ɲs#

Third Syllable Consonant Cluster Stressed Onset:

Third Syllable Consonant Cluster Stressed Coda:

Third Syllable Consonant Cluster Unstressed Onset: dɹ, kw

Third Syllable Consonant Cluster Unstressed Coda:

Fourth Syllable Consonant Cluster Stressed Onset:

Fourth Syllable Consonant Cluster Stressed Coda:

Fourth Syllable Consonant Cluster Unstressed Onset:

Fourth Syllable Consonant Cluster Unstressed Coda:

Fifth Syllable Consonant Cluster Stressed Onset:

Fifth Syllable Consonant Cluster Stressed Coda:

Fifth Syllable Consonant Cluster Unstressed Onset:

Fifth Syllable Consonant Cluster Unstressed Coda:

Consonant Cluster Total for Stressed and Unstressed Onsets and Codas

Stressed Onset: #p^hl, p^hl, #bl(5), #fl, #t^hɹ(2), #dɹ, #sɹ, #sk, #spl, #sw(2), #k^hɹ(2), #k^hw

Stressed Coda:

Unstressed Onset: #pl, #bl, #bɹ, vɹ, dɹ, st(2), kw, #gw

Unstressed Coda: ɲs#

Consonant Cluster Total for Onsets and Codas

Onset: #p^hl(2), #pl, p^hl, #bl(7), #bɹ(2), #fl, vɹ, #t^hɹ(2), #dɹ, dɹ, #sm(2), st(2), #sɹ, #sk, #spl, #sw(2), #sl, #fw, kw, #k^hɹ(2), #k^hw(2), #gw

Coda: nt#(2), ns#, st#, ɹtʃ#, ɹv#, ɹb#

Consonant Cluster Total for Stressed and Unstressed Syllables and Monosyllables

Monosyllable Consonant Cluster: #p^hl, #bl, #bɹ, nt#(2), #sm(2), #sl, st#, #fw, ɹtʃ#, ɹv#, ɹb#, #k^hw

First Syllable Consonant Cluster Stressed: #p^hl, #bl(5), #fl, #t^hɹ(2), #dɹ, #sɹ, #sk, #spl, #sw(2), #k^hɹ(2), #k^hw

First Syllable Consonant Cluster Unstressed: #pl, #bl, #bɹ, #gw

Second Syllable Consonant Cluster Stressed: p^hl

Second Syllable Consonant Cluster Unstressed: vɹ, ɲs#, st(2)

Third Syllable Consonant Cluster Stressed:

Third Syllable Consonant Cluster Unstressed: dɹ, kw

Fourth Syllable Consonant Cluster Stressed:

Fourth Syllable Consonant Cluster Unstressed:

Fifth Syllable Consonant Cluster Stressed:

Fifth Syllable Consonant Cluster Unstressed:

Consonant Cluster Total per Syllable

First Syllable Consonant Cluster: #p^hl, #pl, #bl(6), #bɹ, #fl, #t^hɹ(2), #dɹ, #sɹ, #sk, #spl, #sw(2), #k^hɹ(2), #k^hw, #gw

Second Syllable Consonant Cluster: p^hl, vɹ, ɲs#, st(2)

Third Syllable Consonant Cluster: dɹ, kw

Fourth Syllable Consonant Cluster:

Fifth Syllable Consonant Cluster:

Consonant Cluster Stressed and Unstressed Total

Consonant Cluster Stressed: #p^hl, p^hl, #bl(5), #fl, #t^hl(2), #dɹ, #sɹ, #sk, #spl, #sw(2), #k^hl(2), #k^hw

Consonant Cluster Unstressed: #pl, #bl, #bɹ, vɹ, dɹ, ɳs#, st(2), #gw, kw

Consonant Cluster Total (absolute)

Narrow: #p^hl(2), #pl, p^hl, #bl(7), #bɹ(2), #fl, vɹ, #t^hl(2), #dɹ, dɹ, nt#(2), ɳs#, #sm(2), #sl, st#, st(2), #sɹ, #sk, #spl, #sw(2), #fw, ɹtʃ#, ɹv#, ɹb#, kw, #k^hw(2), #k^hl(2), #gw

Broad: pl(4), bl(7), bɹ(2), fl, vɹ, tɹ(2), dɹ(2), nt(2), ns, sm(2), sl, st(3), sɹ, sk, spl, sw(2), fw, ɹtʃ, ɹv, ɹb, kɹ(2), kw(3), gw

Supra-Segments: Whole Syllables

Whole Syllable Total for Stressed and Unstressed Syllables and Monosyllables

Monosyllable Whole Syllable:

#bɹi^jn#, #mi^jg#, #smi^jt#, #fwi^jst#,
#uː^wz#, #fuː^wf#, #vuː^wt#, #duː^wf#, #smuː^wt#, #xu#, #wuː^w#,
#k^hwe^j#,
#oː^wt#, #soː^wnt#,
#jə^b#, #wə^f#,
#ve^jɹ#, #be^tv#, #we^tb#,
#blæs#,
#pan#, #ma^jp#, #sla^jnt#, #faː^wn#, #laɪ^f#,
#aɪθ#, #p^hlat#, #baz#, #san#, #k^haɪtʃ#

First Syllable Whole Syllable Stressed (all entries are word initial):

#i^j, #p^hi^j, #mi^j,
#uː^w, #t^hɹuː^w, #suː^wt, #zuː^w, #fuː^w, #k^huː^w(2),
#blɪn, #flɪm, #splɪ, #swɪn, #wɪ(2), #wɪn, #hɪm,
#ble^j(2),
#p^hlθ,
#bloː^w, #k^hoː^w,
#swə^ɹ,
#p^hɛ, #blek, #dɛ(2), #nɛ, #k^hɹɛ, #wɛt,
#ʌp, #bʌ,
#k^hɔɹ,
#p^hlæn, #bæ, #dɹæ, #skæ, #sæ, #k^hwæ, #k^hæs, #k^hɹæ, #k^hæ, #wæv,
#t^haː^wn,
#a(2), #aɹ, #ba, #t^hɹam, #sa, #sɹan, #k^ha, #wa, #waf, #wan, #haɹ

First Syllable Whole Syllable Unstressed (all entries are word initial):

#i^j,
#huː^w,
#ɪn, #sɪ, #wɪ,
#k^he^jn,
#hoː^w,
#ə(2), #plə, #bɹə, #bə, #və, #də, #sə,
#sə^ɹ,
#ɛ,
#da^j, #ha^j,
#a(2), #an, #bla, #gwaɹ, #ha

Second Syllable Whole Syllable Stressed:

fi^j, ni^jɹ#, wi^jɹ,
fuː^w,
p^hɹ, t^hɪn,

feⁱ, seⁱd^ːʔ#, ʌeⁱ, weⁱd^ːʔ#,
 ə,
 beɪ, veⁱʌ#, ʌeɪz#,
 k^hɔ,
 fæⁱʌ,
 p^hlɑⁱ,
 bɑn, t^hɑ, ʌɑm#, ʃɑ

Second Syllable Whole Syllable Unstressed:

biⁱʃ#, miⁱʃ#, vʌiⁱʃ#, tiⁱʃ#, diⁱʃ#, ziⁱʃ#, ʌiⁱz#, liⁱʃ#(2), li,
 ʃɪl#,
 bu^wʃ#, ʌu^wʃ#, ju^w,
 diʃ#, fɪn#, ðɪk#, ʌɪk#, lɪd^ːʔ#,
 ʌeⁱv#,
 bo^wʃ#, to^wʃ#, ʌo^wʃ#, lo^wʃ#(2), lo^w,
 p^əŋ#, b^əʔ, b^əʔ#, m^əʔ#(2), m^ə, f^əʔ#, t^əs#, t^əm#, d^ə, r^ə, s^əm#, st^ə, f^əŋ#, ʌə, ʌəŋs#, ʌəm#, l^ə, l^əf#, k^əʔ#, k^ə, g^əʔ#,
 b^əʃ#(2), f^əʃ#, v^ə, n^əʃ#, l^əʃ#, k^əʃ#,
 neɪ#, lɛd^ːʔ#,
 bɑⁱʃ#,
 dɑʌ#, nɑ, stɑ#, ʃɑn#

Third Syllable Whole Syllable Stressed:

miⁱ, niⁱ,
 bæ

Third Syllable Whole Syllable Unstressed:

niⁱʌ#, niⁱ, ʌiⁱ,
 viŋ#, ʃɪs#, lɪ, kwi,
 t^ho^wʃ#,
 t^əŋ#, t^ə, r^ə, r^əʔ#, r^əs#, r^ək#, s^əŋ#, z^ə, ʌəʔ#, l^əs#, lʃə#, ʌəm#, g^əŋ#,
 dʌe#,
 tɔʌ#,
 nɑⁱn#,
 tɑʔ#, ʌɑn#, wɑp#

Fourth Syllable Whole Syllable Stressed: nɛ

Fourth Syllable Whole Syllable Unstressed:

tiʃ#, riⁱʃ#, ʌiⁱʃ#,
 ʌɪk#,
 əʃ#, əsʃ#, əs#, əm#, zəʃm#

Fifth Syllable Whole Syllable Stressed:

Fifth Syllable Whole Syllable Unstressed:

teⁱʃ#

Whole Syllable Total per Syllable

First Syllable Whole Syllable (all entries are word initial):

#iⁱ(2), #p^hiⁱ, #miⁱ,
 #u^w, #t^hʌu^w, #su^wʔ, #zu^w, #fu^w, #k^hu^w(2), #hu^w,
 #ɪn, #blɪn, #flɪm, #sɪ, #splɪ, #swɪn, #wɪ(3), #wɪn, #hɪm,
 #bleⁱ(2), #k^heⁱn,
 #p^hlɔ,
 #blo^w, #k^ho^w, #ho^w,
 #ə(2), #plə, #bɪə, #bə, #və, #də, #sə,
 #səʃ, #swəʃ,
 #ɛ, #p^hɛ, #blek, #dɛ(2), #nɛ, #k^hʌɛ, #weʔ,
 #ʌp, #bʌ,

#kʰɔɹ,
 #pʰlæn, #bæ, #dɪæ, #skæ, #sæ, #kʰwæ, #kʰæs, #kʰɪæ, #kʰæ, #wæv,
 #tʰaʷn, #daɪ, #haɪ,
 #a(4), #aɪ, #an, #ba, #bla, #tʰɪam, #sa, #sɪan, #kʰa, #gwaɪ, #wa, #waf, #wan, #haɪ, #ha

Second Syllable Whole Syllable:

biɪ#, miɪ#, fiɪ, vɪɪ#, tiɪ#, diɪ#, niɪ#, ziɪ#, ɹiɪz#, liɪ#, li, wiɪɹ,
 ʃɪɪ#,
 buɹʃ#, fuɹ, ɹuɹ#, juɹ,
 pʰɪ, dɪʃ#, fɪn#, tʰɪn, ðɪk#, ɹɪk#, lɪdʰ#,
 feɪ, seɪdʰ#, ɹeɪ, ɹeɪv#, weɪdʰ#,
 boɹ#, toɹ#, ɹoɹ#, loɹ#(2), loɹ,
 pʰŋ#, bʰ, bʰ#, mʰ#(2), mʰ, fʰ#, tʰs#, tʰm#, dʰ, rʰ, sʰm#, stʰ, ʃʰŋ#, ɹʰ, ɹʰs#, ɹʰm#, lʰ, lʰf#, kʰ#, kʰ, gʰ#,
 ʌ, bʌ#(2), fʌ#, vʌ, nʌ#, lʌ#, kʌ,
 beɪ, veɪɹ#, neɪ#, ɹeɪz#, lɛdʰ#,
 kʰɔ,
 fæɪɹ,
 pʰlaɪ, baɪ#,
 ban, tʰa, daɪ#, na, sta#, ʃan#, ɹam#, ja

Third Syllable Whole Syllable:

miɪ, niɪ#, niɪ(2), ɹiɪ,
 vɪŋ#, ʃɪs#, li, kwi,
 tʰoɹ#,
 tʰŋ#, tʰ, rʰ, rʰ#, rʰs#, rʰk#, sʰŋ#, zʰ, ɹʰ#, lʰs#, lʰjʰ#, ɹʰm#, gʰŋ#,
 dɪe#,
 tɔɹ#,
 bæ,
 naɪn#,
 taɪ#, ɹan#, wap#

Fourth Syllable Whole Syllable:

tiɪ#, riɪ#, ɹiɪ#,
 ɹɪk#,
 ə#, əs#, əs#, ʰm#, zʰm#,
 ne

Fifth Syllable Whole Syllable:

teɪ#

Whole Syllable Stressed and Unstressed Total

Whole Syllable Stressed:

#ɪ, #pʰɪɪ, #miɪ, miɪ, fiɪ, niɪ, niɪ#, wiɪɹ,
 #uɹ, fuɹ, #tʰɹuɹ, #suɹt, #zuɹ, #ʃuɹ, #kʰuɹ#(2),
 pʰɪ, #blɪn, #flɪm, tʰɪn, #splɪ, #swɪn, #wiɪ(2), #wɪn, #hɪm,
 #bleɪ(2), feɪ, seɪdʰ#, ɹeɪ, weɪdʰ#,
 #pʰlʊ,
 #bloɹ, #kʰoɹ,
 ʌ, #swʌ,
 #pʰe, beɪ, #blek, veɪɹ#, #deɪ(2), #ne, ne, ɹeɪz#, #kʰɪe, #wet,
 #ʌp, #bʌ,
 #kʰɔɹ, kʰɔ,
 #pʰlæn, #bæ, bæ, fæɪɹ, #dɪæ, #skæ, #sæ, #kʰwæ, #kʰæs, #kʰɪæ, #kʰæ, #wæv,
 pʰlaɪ, #tʰaʷn,
 #a(2), #aɪ, #ba, ban, tʰa, #tʰɪam, #sa, #sɪan, ɹam#, #kʰa, ja, #wa, #waf, #wan, #haɪ

Whole Syllable Unstressed:

#ɪ, biɪ#, miɪ#, vɪɪ#, tiɪ#, tiɪ, diɪ#, niɪ#, niɪ, riɪ#, ziɪ#, ɹiɪ, ɹiɪ#, ɹiɪz#, liɪ#(2), li,

fɪl#,
 buʷfɪ#, ɹuʷ#, juʷ#, #huʷ,
 #ɪn, dɪfɪ#, fɪn#, vɪŋ#, ðɪk#, #sɪ, fɪs#, ɹɪk#(2), lɪ, lɪdʷ#, kwɪ, #wɪ,
 teʲɪ#, ɹeʲv#, #kʰeʲn,
 boʷ#, toʷ#, tʰoʷ#, ɹoʷ#, loʷ#(2), loʷ#, #hoʷ,
 #ə(2), ə#, əs#, əs#, pʰəŋ#, #plə, bʰɪ, bʰɪ#, #bɹə, #bə, mʰɪ#(2), mə, ʰəŋ#, fʰɪ#, #və, təs#, tʰəŋ#, tʰə, də, #də, rə, rə, rʰɪ#, rəs#, rək#, sʰəŋ#,
 sʰəŋ#, stə, #sə, zə, zʰəŋ#, fʰəŋ#, ɹə, ɹʰɪ#, ɹʰəŋ#, lə, ləf#, ləs#, lʲə#, jʰəŋ#, kʰɪ#, kə, gʰɪ#, gʰəŋ#,
 bəʰ#(2), fəʰ#, vəʰ, nəʰ#, #səʰ, ləʰ#, kəʰ,
 #ɛ, dɹɛ#, nɹɪ#, lɛdʷ#,
 tɹɪ#,
 baʲɪ#, #daʲ, naʲn#, #haʲ,
 #a(2), #an, #bla, taʰ#, daʲ#, na, sta#, ʃan#, ɹan#, #gwaɹ, wap#, #ha

Whole Syllable Total (absolute)

Narrow:

#ɪʲ(2), #bɹɪn#, #pʰɪʲ, biʲ#, miʲ#, #miʲ, miʲ, #miʲg#, fiʲ, vɹɪʲ#, tiʲ#, tiʰ#, diʲ#, niʲ(2), niʲɹ#(2), riʲ#, #smiʲɪ#, ziʲ#, #fwiʲst#, ɹɪʲ, ɹɪʲ#, ɹɪʲz#, liʲ#(2), li,
 wiʲɹɹ,
 fɪl#,
 #uʷ, #u:ʷz#, buʷfɪ#, fuʷ, #fuʷfɪ#, #vuʷtɪ#, #tʰɹuʷ, #duʷfɪ#, #smuʷtɪ#, #suʷtɪ#, #zuʷ, #fuʷ, ɹuʷ#, juʷ#, #kʰuʷ#(2), #xu#, #wuʷ#, #huʷ,
 #ɪn, pʰɪ, #blɪn, dɪfɪ#, fɪn#, #flɪm, vɪŋ#, tʰɪn, ðɪk#, #sɪ, #splɪ, #swɪn, fɪs#, ɹɪk#(2), lɪ, lɪdʷ#, kwɪ, #wɪ(3), #wɪn, #hɪm,
 #bleʲ(2), feʲ, teʲɪ#, seʲdʷ#, ɹeʲɪ, ɹeʲv#, #kʰeʲn, #kʰweʲɪ#, weʲdʷ#,
 #pʰlɔ,
 #oʷtɪ#, boʷ#, #bloʷ, toʷ#, tʰoʷ#, #soʷnt#, ɹoʷ#, loʷ, loʷ#(2), #kʰoʷ, #hoʷ,
 #ə(2), ə#, əs#, əs#, pʰəŋ#, #plə, bʰɪ, bʰɪ#, #bɹə, #bə, mʰɪ#(2), mə, ʰəŋ#, fʰɪ#, #və, təs#, tʰəŋ#, tʰə, də, #də, rə, rə, rʰɪ#, rəs#, rək#, sʰəŋ#,
 sʰəŋ#, stə, #sə, zə, zʰəŋ#, fʰəŋ#, ɹə, ɹʰɪ#, ɹʰəŋ#, lə, ləf#, ləs#, lʲə#, jʰəŋ#, kʰɪ#, kə, gʰɪ#, gʰəŋ#,
 ə, bəʰ#(2), fəʰ#, vəʰ, nəʰ#, #səʰ, #swəʰ, ləʰ#, #jəʰb#, kəʰ, #wəʰf#,
 #ɛ, #pʰɛ, beɪ, #blek, #beʲv#, dɹɛ#, veʲɹɹ#, veʲɹɹ#, #de(2), #ne, nɛ, nɛɹ#, ɹɛz#, lɛdʷ#, #kʰɹɛ, #weʲtɪ, #weʲtɪb#,
 #ɹp, #bɹ,
 tɹɪ#, #kʰɹɹ, kʰɹ,
 #pʰlæn, #bæ, bæ, #blæs#, fæʲɹɹ, #dɹæ, #skæ, #sæ, #kʰwæ, #kʰæs, #kʰɹæ, #kʰæ, #wæv,
 pʰlæʲ, #pan#, baʲ#, #maʲp#, #tʰaʷn, #daʲ, naʲn#, #slaʲnt#, #ʃaʷn#, #laɹɹf#, #haʲ,
 #a(4), #an, #aɹ, #aɹθ#, #pʰlat#, #baz#, #bla, #ba, ban, taʰ#, tʰa, #tʰɹam, daʲ#, na, sta#, #sa, #sɹan, #san#, ʃan#, ɹan#, ɹam#, ja, #kʰa,
 #kʰaɹtɹf#, #gwaɹ, wap#, #wa, #waɹf, #wan, #ha, #haɹ

Broad:

i(2), bɹɪn, pi, bi, mi(3), mɪg, fi, vɹɪ, ti(2), di, ni(2), niɹ(2), ri, smɪtɪ, zi, fwɪst, ɹɪ(2), ɹɪz, li(3), wɪɹ,
 fɪl,
 u, uz, buf, fu, fuf, vuʰ, tɹu, duf, smuʰ, suʰ, zu, ʃu, ɹu, ju, ku(2), xu, wu, hu,
 ɪn, pɪ, blɪn, dɪf, fɪn, flɪm, vɪŋ, tɪn, ðɪk, sɪ, splɪ, swɪn, fɪs, ɹɪk(2), lɪ, lɪd, kwɪ, wɪ(3), wɪn, hɪm,
 ble(2), fe, te, sed, ɹe, ɹev, ken, kwe, wed,
 plɔ,
 ot, bo, blo, to(2) sont, ɹo, lo(3), ko, ho,
 ə(3), əs(2), pʰəŋ, plə, bʰɪ(2), bɹə, bə, mʰɪ(2), mə, ʰəŋ, fʰɪ, və, təs, tʰəŋ, tʰə, də(2), rə, rə, rʰɪ, rəs, rək, sʰəŋ, sʰəŋ, stə, sə, zə, zʰəŋ, fʰəŋ, ɹə, ɹʰɪ,
 ɹʰəŋ, ɹʰəŋ, lə, ləf, ləs, lʲə, jʰəŋ, kʰɪ, kə, gʰɪ, gʰəŋ,
 ə, bəʰ(2), fəʰ, vəʰ, nəʰ, səʰ, swəʰ, ləʰ, jəʰb, kəʰ, wəʰf,
 ɛ, pɛ, be, blek, beʲv, dɹɛ, veʲɹɹ(2), de(2), ne(2), nɛɹ, ɹɛz, lɛd, kɹɛ, weʲtɪ, weʲtɪb,
 ɹp, bɹ,
 tɹɪ, kɹɹ, kɹ,
 plæn, bæ(2), blæs, fæʲɹɹ, dɹæ, skæ, sæ, kwæ, kæs, kɹæ, kæ, wæv,
 pla, pan, ba, map, tan, da, nan, slant, ʃan, laf, ha,
 a(4), an, aɹ, aɹθ, plat, baz, bla, ba, ban, taʰ, ta, tɹam, daʲ, na, sta, sa, sɹan, san, ʃan, ɹan, ɹam, ja, ka, kɹtɹf, gwaɹ, wap, wa, waɹf, wan, ha,
 haɹ

Supra-Segments: Whole Words

Whole Word Total per Word Length

Whole Monosyllables:

yurb [jəb], shweest [ʃwiːst], shoun [ʃaʷn], pahn [pan], bahz [baz], blass [blæs], welb [wɛʔb], ooze [uːʷz], woo [wuʷ],
 plaht [pʰlat], arth [aʔθ], foosh [fuʷʃ], belv [bɛʔv], smeel [smiːʰ], slynt [slaːnt], vool [vuʷʰ], meeg [miːg], oat [oʷt], breen
 [bɹiːn], hoo [xu], sohnt [soʷnt], mipe [maːp], wursh [wəʃ], kway [kʰweː], vair [vɛː], sahn [san], lahsh [laːʃ], doof [duʷf], kahrch
 [kʰaɪʃ], smool [smuʷʰ]

Whole Bisyllables:

KRAMul ['kʰɹæ·mʰ], NEHtoe ['nɛ·toʷ], SAHlow ['sa·loʷ], PLEUsheul ['pʰlø·ʃɪ], BLEKtus ['blɛk·təs], KOOstah ['kʰuʷ·sta],
 PLANdee ['pʰlæn·diː], ZOOluf ['zuʷ·ləf], WAVrum ['wæv·ɹəm], AHboosh ['a·buʷʃ], HAHRlee ['haɹ·liː], WELLfur ['wɛʔ·fə],
 BLOshun ['bloʷ·ʃən], DEHpuhn ['dɛ·pən], KREHrunce ['kʰɹɛ·ɹəns], SHOOful ['ʃuʷ·fʰ], KOlo ['kʰoʷ·loʷ], BLAYmee ['bleː·miː], WAHvree
 ['wa·vɹiː], Aluhr ['kʰæ·lə], BLINdahr ['blɪn·daɹ], SRAHNtee ['sɹan·tiː], WASHroo ['waʃ·ɹuʷ], BLAYthik ['bleː·ðɪk], DRAbul ['dɹæ·bʰ],
 UPled ['ʌp·lɛdʷ], WINair ['wɪ·nɛɹ], SKArow ['skæ·ɹoʷ], OOLid ['uʷ·lɪdʷ], SAreez ['sæ·ɹiːz], AHkul ['a·kʰ], FLIMbee ['flɪm·biː],
 KWAgul ['kʰwæ·gʰ], SPLIHnur ['splɪ·nə], TOWNby ['tʰaʷn·baː], SWURmul ['swə·mʰ], SWINzee ['swɪn·ziː], PEEsum ['pʰiː·səm],
 TROObur ['tʰɹuʷ·bə], KOOfin ['kʰuʷ·fɪn], WINshahn ['wɪn·ʃan], SOOLrik ['suʷ·ɹɪk], HIMtuhm ['hɪm·təm], BAHRrayve
 ['ba·ɹɛv], AHRboe ['aɹ·boʷ], WIHlee ['wɪ·liː], WAHNdish ['wan·diʃ],

buhNEER [bə·'niːɹ], surREZ [sə·'ɹɛz], suhWAID [sə·'weːd], ahVAIR [a·'vɛːɹ], vuhRAHM [və·'ɹam], blahSAYD [bla·'seːdʷ]

Whole Trisyllables:

BUHbultuhn ['bʌ·bʰt·tən], TRAHMyoulus ['tʰɹam·juʷ·ləs], MEEleeyum ['miː·li·jəm], KAHluhrahɪn ['kʰa·lə·ɹan], EEvurneer
 ['iː·və·niːɹ], PEHruhtahl ['pʰɛ·ɹə·tʰ], KASKuhnine ['kʰæs·kə·naːn], WASHburdul ['waʃ·bə·ɹʰ], BAKurwahp ['bæ·kə·wap],
 DESTuhtor ['dɛ·stə·tɔɹ],

sihRAYshis [sɪ·'ɹɛː·ʃɪs], kayneFAYgun [kʰɛːn·'feː·gən], ahnTAHveeng [an·'tʰa·vɪn], haiFOOtoe [haː·'fuʷ·tʰoʷ], dyTIHNSun
 [daː·'tʰɪn·sən], uhWEERdreh [ə·'wiːɹ·dɹɛ], inFAIRdus [ɪn·'fæːɹ·rəs], eeYAHtuk [iː·'ja·rək], uhFEEleeuh [ə·'fiː·ljə], hooURrul
 [huʷ·'ə·ɹʰ]

Whole Tetrasyllables:

KORduhlizm ['kʰɔɹ·rə·lɪ·zəm],
 ehPIHkwihtee [ɛ·'pʰɪ·kwɪ·ɹiː], hoPLYneeus [hoʷ·'pʰlaː·niː·əs], duhBAHNtuhree [də·'ban·tə·ɹiː], pluhKORreeyus [plə·'kʰɔ·ɹiː·əs],

bruHBEHruhtee [brə·'bɛː·rə·tiː],

wihlowBARik [wɪ·loʷ·'bæ·ɹɪk], gwarduhMEEum [gwaɹ·də·'miː·əm], hahmuhNEEyuh [ha·mə·'niː·ə]

Whole Pentasyllables:

anahzuhNETay [a·na·zə·'nɛ·teː]



Question ID: c.

Segments

Segment Total for Stressed and Unstressed Syllables and Monosyllables according to Syllable Configuration

Monosyllable Onset: #p^h(2), #b(2), m, #f(2), #d, #s, #ʃ, #ʒ, #ɹ, ɹ(4), #k^h, #w, w

Monosyllable Nucleus: iⁱ(2), ɪ(2), #o^w, o^w, o^w#, ε, æ(2), a, a(2), ā

Monosyllable Coda: p, m, t#(2), d#, dʒ#, n#, n, s#, s, ʃ#(5), ɹ, t, k#, g#

First Syllable Segment Stressed Onset: p, #p^h(4), #b(4), #m(6), #f(4), f, #v, #t^h(2), #d(3), #tʃ, #dʒ(3), #s(7), #z(3), #ʃ, #ɹ(2), ɹ(8), #l(6), #k^h(6), #k(2), k(2), #g(4), #w(2), w

First Syllable Segment Stressed Nucleus: iⁱ(6), u^w(3), ɪ(9), eⁱ(3), o^w, ə(2), #ε, ε(6), ʌ(3), ɔ, #æ, æ(9), aⁱ(3), #a(2), a(11)

First Syllable Segment Stressed Coda: p, b, m(3), f, t, d(2), n(6), s, ʃ, ɹ(6), t, k(3), ɡ, ɲ

First Syllable Segment Unstressed Onset: #p, #b(5), #m(5), #f, #v, #dʒ, #n(2), #ɹ, ɹ(5), #j, #k^h, #k(6), #g(3)

First Syllable Segment Unstressed Nucleus: iⁱ, u(2), u^w, #ɪ, ɪ, eⁱ, o^w, #ə(2), ə(8), əŋ(2), #ə, ə, ε(4), #ɔ, #æ(2), æ(2), #a(3), a(4)

First Syllable Segment Unstressed Coda: m(2), d, n, s, z, ɹ(4), l, g

Second Syllable Segment Stressed Onset: p, b(4), m(2), f(2), t^h(6), d, dʒ, n, z(2), ɹ(6), l(2), j, k^h, g

Second Syllable Segment Stressed Nucleus: i, iⁱ(3), u^w#, u^w(2), ɪ, eⁱ(2), o^w, ə, ε(5), æ(4), aⁱ, a(3)

Second Syllable Segment Stressed Coda: b, m, d^h#, n#(2), n, s#, ɹ, t, k#(2)

Second Syllable Segment Unstressed Onset: p(5), b(3), m(4), f(6), t^h(2), d(4), tʃ, dʒ(2), n(4), r(5), θ(2), s(6), z(3), ʃ(2), ɹ(8), l(9), j(2), k, g(3), h

Second Syllable Segment Unstressed Nucleus: iⁱ#, iⁱ(4), ɪ^w, u^w(2), u^w#, ɪ(9), eⁱ#, o, o^w(2), ə(15), ə#(2), ət^h#, ət^h#, əŋ#(2), əŋ(2), ə(2), ə#(3), ɔ, æ, aⁱ(2), a^w, a(9), aⁱh

Second Syllable Segment Unstressed Coda: v#, t#(2), t^h#, d^h#, tʃ#, n#(6), n(2), s#(2), z#, ʃ#(3), ɹ#(3), t#, k#(2), x#

Third Syllable Segment Stressed Onset: f, t^h, n, ɹ, j, k^h

Third Syllable Segment Stressed Nucleus: ε, εⁱ, æ#, a, a(2)

Third Syllable Segment Stressed Coda: n, t#

Third Syllable Segment Unstressed Onset: p, b, m(3), v, t(4), t^h, d(4), dʒ, n(3), r, θ, s, z(2), ʃ(3), ʒ, ɹ(6), l(5), j, k, g

Third Syllable Segment Unstressed Nucleus: iⁱ#, iⁱ(4), ɪ(3), o^w#, ə(4), ə#(3), ət^h#, əŋ#(2), æ, aⁱ(3), a(6)

Third Syllable Segment Unstressed Coda: t^h#, t#, d#(3), n, n#(4), s#(3), z#, ɹ#, ɹ(2), k#(3), k^h#, ɲ#

Fourth Syllable Segment Stressed Onset:

Fourth Syllable Segment Stressed Nucleus:

Fourth Syllable Segment Stressed Coda:

Fourth Syllable Segment Unstressed Onset: t(4), d, n, r, ɹ, l, k, g

Fourth Syllable Segment Unstressed Nucleus: iⁱ#, ɪ, eⁱ#, o^w#, ə(2), ə#(3), əŋ#, a#

Fourth Syllable Segment Unstressed Coda: d#, k#

Fifth Syllable Segment Stressed Onset:

Fifth Syllable Segment Stressed Nucleus:

Fifth Syllable Segment Stressed Coda:

Fifth Syllable Segment Unstressed Onset: s

Fifth Syllable Segment Unstressed Nucleus: ɪ

Fifth Syllable Segment Unstressed Coda: s#

Segment Total for Stressed and Unstressed Onsets and Codas

Stressed Onset: p(2), #p^h(4), #b(4), b(4), #m(6), m(2), #f(4), f(4), #v, #t^h(2), t^h(7), #d(3), d, #tʃ, #dʒ(3), dʒ, n(2), #s(7), #z(3), z(2), #ʃ, #ɹ(2), ɹ(15), #l, l(8), j(2), #k^h(6), #k(2), k^h(2), k(2), #g(4), g, #w(2), w

Stressed Coda: p, b(2), m(4), f, t, d(2), d^ː#, n(8), n#(2), s, s#, ʃ, ɹ(7), t(2), t#, k(3), k#(2), ɡ, ɲ

Unstressed Onset: #p, p(6), #b(5), b(4), #m(5), m(7), #f, f(6), #v, v, t(17), t^h(3), d(9), tʃ, #dʒ, dʒ(3), #n(2), n(8), r(7), θ(3), s(8), z(5), ʃ(5), ʒ, #ɹ, ɹ(20), l(15), #j, j(3), #k^h, #k(6), k(3), #g(3), g(5), h

Unstressed Coda: m(2), v#, t#(3), t^ː#(2), d, d^ː#, d#(4), tʃ#, n#(10), n(4), s, s#(5), z, z#(2), ʃ#(3), ɹ#(4), ɹ(6), l t#, k#(6), k^ː#, g, ɲ#, x#

Segment Total for Onsets and Codas

Onset: #p, p(8), #p^h(6), #b(11), b(8), #m(11), m(10), #f(7), f(10), #v(2), v, #t^h(2), t^h(10), t(17), #d(4), d(10), #tʃ, tʃ, #dʒ(4), dʒ(4), #n(2), n(10), r(7), θ(3), s(8), #s(8), #z(3), z(7), #ʃ(2), ʃ(5), #ʒ, ʒ, #ɹ(4), ɹ(39), #l, l(23), #j, j(5), #k^h(8), #k(8), k^h(2), k(5), #g(7), g(6), #w(3), w(2), h

Coda: p(2), b(2), m(7), f, v#, t, t#(5), t^ː#(2), d(3), d^ː#(2), d#(5), tʃ#, dʒ#, n#(13), n(13), s(3), s#(7), z, z#(2), ʃ, ʃ#(8), ɹ#(4), ɹ(14), l, t(3), t#(2), k(3), k#(9), k^ː#, g, ɡ, ɲ, ɲ#, x#

Segment Total for Stressed and Unstressed Syllables and Monosyllables

Monosyllable Segment: p, #p^h(2), #b(2), m(2), #f(2), t#(2), #d, d#, dʒ#, n#, n, #s, s, s#, #ʃ, ʃ#(5), #ʒ, ʒ, ɹ(5), t, #k^h, k#, g#, #w, w

iⁱ(2), ɪ(2), #o^w, o^w, o^w#, ε, æ(2), a, a(2), ā

First Syllable Segment Stressed: p(2), #p^h(4), #b(4), b, #m(6), m(3), #f(4), f(2), #v, #t^h(2), t, #d(3), d(2), #tʃ, #dʒ(3), n(6), #s(7), s, #z(3), #ʃ, ʃ, #ɹ(2), ɹ(14), #l, l(6), t, #k^h(6), #k(2), k(5), #g(4), ɡ, ɲ, #w(2), w

iⁱ(6), u^w(3), ɪ(9), eⁱ(3), o^w, ə(2), #ε, ε(6), ʌ(3), ɔ, #æ, æ(9), aⁱ(3), #a(2), a(11)

First Syllable Segment Unstressed: #p, #b(5), #m(5), m(2), #f, #v, d, #dʒ, #n(2), n, əŋ(2), s, z, #ɹ, ɹ(9), l, #j, #k^h, #k(6), #g(3), g

iⁱ, u(2), u^w, #ɪ, ɪ, eⁱ, o^w, #ə(2), ə(8), #ə, ə, ε(4), #ɔ, #æ(2), æ(2), #a(3), a(4)

Second Syllable Segment Stressed: p, b(5), m(3), f(2), t^h(6), d, d^ː#, dʒ, n#(2), n(2), s#, z(2), ɹ(7), l(2), t, j, k^h, k#(2), g

i, iⁱ(3), u^w#(2), u^w(2), ɪ, eⁱ(2), o^w, ə, ε(5), æ(4), aⁱ, a(3)

Second Syllable Segment Unstressed: p(5), b(3), m(4), əŋ#(2), f(6), v#, t(9), t^h(2), t#(2), t^ː#, d(4), d^ː#, tʃ#, tʃ, dʒ(2), n#(6), n(6), əŋ(2), r(5), θ(2), s(6), s#(2), z(3), z#, ʃ(2), ʃ#(3), ɹ(8), ɹ#(3), l(9), t#, t#(2), t, j(2), k, k#(2), g(3), x#, h

iⁱ#(7), iⁱ(4), ɥ^w, u^w(2), u^w#, ɪ(9), eⁱ#, o, o^w(2), ə(15), ə#(2), ə(2), ə#(3), ɔ, æ, aⁱ(2), a^w, a(9), a:^h

Third Syllable Segment Stressed: f, t^h, n(2), ɹ, t#, j, k^h

ε, εⁱ, æ#, a, a(2)

Third Syllable Segment Unstressed: p, b, m(3), v, t(4), t^h, t^ː#, t#, d#(3), d(4), dʒ, n(4), n#(4), əŋ#(2), r, θ, s, s#(3), z#, z(2), ʃ(3), ʒ, ɹ#, ɹ(8), l(5), t#(3), j, k, k#(3), k^ː#, g, ɲ#

iⁱ#(2), iⁱ(4), ɪ(3), o^w#(3), ə(4), ə#(3), æ, aⁱ(3), a(6)

Fourth Syllable Segment Stressed:

Fourth Syllable Segment Unstressed: t(4), d, d#, n, əŋ#, r, ɹ, l, k, k#, g

iⁱ#(3), ɪ, eⁱ#, o^w#, ə(2), ə#(3), a#

Fifth Syllable Segment Stressed:

Fifth Syllable Segment Unstressed: s, s#

Segment Total by Syllable

First Syllable Segment: p(2), #p, #p^h(4), #b(9), b, #m(11), m(5), #f(5), f(2), #v(2), #t^h(2), t, #d(3), d(3), #tʃ, #dʒ(4), #n(2), n(7), ɳ(2), #s(7), s(2), z, #z(3), #ʃ, ʃ, #ɹ(3), ɹ(23), #l, l(7), ɫ, #j, #k^h(7), #k(8), k(5), #g(7), g, ɡ, ɲ, #w(2), w

i^j(7), u(2), u^w(4), #ɪ, ɪ(10), eⁱ(4), o^w(2), #ə(2), ə(8), #ə̃, ə̃(3), #ɛ, ɛ(10), ʌ(3), #ɔ, ɔ, #æ(3), æ(11), aⁱ(3), #a(5), a(15)

Second Syllable Segment: p(6), b(8), m(7), ɱ(2), f(8), v[#], t(9), t^h(8), t[#](2), t^ʰ, d(5), d^ʰ(2), ts[#], tʃ, dʒ(3), n[#](8), n(8), ɳ(2), r(5), θ(2), s(6), s[#](3), z(5), z[#], ʃ(2), ʃ[#](3), ɹ(15), ɹ[#](3), l(11), ɫ[#], ɫ, ɬ[#](2), ɬ, j(3), k^h, k, k[#](4), g(4), x[#], h

i^j#(7), i^j(7), i, ɥ^w, u^w(4), u^w#(3), ɪ(10), eⁱ#, eⁱ(2), o, o^w(3), ə(15), ə[#](2), ə̃(3), ə̃[#](3), ɛ(5), ɔ, æ(5), aⁱ(3), a^w, a(12), a^h

Third syllable Segment: p, b, m(3), f, v, t(4), t^h(2), t^ʰ, t[#], d[#](3), d(4), dʒ, n(6), n[#](4), ɳ[#](2), r, θ, s, s[#](3), z[#], z(2), ʃ(3), ʒ, ɹ[#], l(5), ɫ[#], ɬ[#](3), j(2), k, k[#](3), k^ʰ, g, ɲ[#]

i^j#(2), i^j(4), ɪ(3), o^w#(3), ə(4), ə[#](3), ɛ, ɛⁱ, æ[#], æ, a, aⁱ(3), a(8)

Fourth Syllable Segment: t(4), d, d[#], n, ɳ[#], r, ɹ, l, k, k[#], g

i^j#(3), ɪ, eⁱ#, o^w#, ə(2), ə[#](3), a[#]

Fifth Syllable Segment: s, s[#]

Segment Stressed and Unstressed Total

Stressed Segment: p(3), #p^h(4), #b(4), b(6), #m(6), m(6), #f(4), f(5), #v, #t^h(2), t^h(7), t, #d(3), d(3), d^ʰ, #tʃ, #dʒ(3), dʒ, n(10), n[#](2), #s(7), s, s[#], #z(3), z(2), #ʃ, ʃ, #ɹ(2), ɹ(22), #l, l(8), ɫ(2), ɫ[#], j(2), #k^h(6), k^h(2), #k(2), k(5), k[#](2), #g(4), g, ɡ, ɲ, #w(2), w

i^j(9), i, u^w(5), u^w#(2), ɪ(10), eⁱ(5), o^w(2), ə̃(3), #ɛ, ɛ(12), ɛⁱ, ʌ(3), ɔ, #æ, æ(13), æ[#], aⁱ(4), a, #a(2), a(16)

Unstressed Segment: #p, p(6), #b(5), b(4), #m(5), m(9), ɱ[#](2), #f, f(6), #v, v, v[#], t(17), t^h(3), t[#](3), t^ʰ(2), d(10), d^ʰ, d[#](4), ts[#], tʃ, #dʒ, dʒ(3), #n(2), n[#](10), n(12), ɳ(4), ɳ[#](3), r(7), θ(3), s(9), s[#](6), z(6), z[#](2), ʃ(2), ʃ[#](3), ʒ, #ɹ, ɹ(26), ɹ[#](4), l(16), ɫ[#], ɬ[#](5), ɬ, #j, j(3), #k^h, #k(6), k(3), k[#](6), k^ʰ, #g(3), g(6), ɲ[#], x[#], h

i^j#(12), i^j(9), ɥ^w, u(2), u^w(3), u^w#, #ɪ, ɪ(15), eⁱ#(2), eⁱ, o, o^w#(4), o^w(3), #ə(2), ə(29), ə[#](8), #ə̃, ə̃(3), ə̃[#](3), ɛ(4), #ɔ, ɔ, #æ(2), æ(4), aⁱ(5), a^w, a[#], #a(3), a(19), a^h

Segment Total (absolute)

Narrow: #p, p(10), #p^h(6), #b(11), b(10), #m(11), m(17), ɱ[#](2), #f(7), f(11), #v(2), v, v[#], t(18), #t^h(2), t^h(10), t[#](5), t^ʰ(2), #d(4), d(13), d^ʰ(2), d[#](5), ts[#], #tʃ, tʃ, #dʒ(4), dʒ(4), dʒ[#], #n(2), n[#](13), n(23), ɳ(4), ɳ[#](3), r(7), θ(3), #s(8), s(11), s[#](8), #z(3), z(8), z[#](2), #ʃ(2), ʃ(3), ʃ[#](8), #ʒ, ʒ, #ɹ(4), ɹ(53), ɹ[#](4), #l, l(24), ɫ(3), ɫ[#](2), ɬ[#](5), ɬ, #j, j(5), #k^h(8), k^h(2), #k(8), k(8), k[#](9), k^ʰ, #g(7), g(7), ɡ, g[#], ɲ[#], ɲ, x[#], #w(3), w(2), h

i^j#(12), i^j(20), i, ɥ^w, u(2), u^w(8), u^w#(3), #ɪ, ɪ(27), eⁱ#(2), eⁱ(6), o, #o^w, o^w#(5), o^w(6), #ə(2), ə(29), ə[#](8), #ə̃, ə̃(6), ə̃[#](3), #ɛ, ɛ(17), ɛⁱ, ʌ(3), #ɔ, ɔ(2), #æ(3), æ(19), æ[#], a(2), aⁱ(9), a^w, a[#], #a(5), a(37), a^h, ā

Broad: p(17), b(21), m(30), f(18), v(4), t(37), d(24), ts, tʃ(2), dʒ(9), n(45), r(7), θ(3), s(27), z(13), ʃ(13), ʒ(2), ɹ(61), l(25), ɫ(11), j(6), k(36), g(16), ɲ(2), x, w(5), h

i(33), ɥ, u(13), ɪ(28), e(8), o(13), ə(39), ə̃(10), ɛ(19), ʌ(3), ɔ(3), æ(23), a(13), a(44)

Supra-Segments: Consonant Clusters

Consonant Cluster Total for Stressed and Unstressed Syllables and Monosyllables according to Syllable Configuration

Monosyllable Consonant Cluster Onset (all entries are word initial): #bɹ(2)

Monosyllable Consonant Cluster Coda (all entries are word final): mst#, ndʒ#

First Syllable Consonant Cluster Stressed Onset (all entries are word initial): #p^hl(2), #bl, #fɹ(3), #sk, #sp, #skɹ, #zl, #kl, #k^hw, #k^hɹ, #gɹ(3), #gl
First Syllable Consonant Cluster Stressed Coda:

First Syllable Consonant Cluster Unstressed Onset (all entries are word initial): #bɹ(3), #kɹ, #k^hɹ

First Syllable Consonant Cluster Unstressed Coda:

Second Syllable Consonant Cluster Stressed Onset: bɹ(2), t^hɹ(2), tɹ, gɹ

Second Syllable Consonant Cluster Stressed Coda: ɹk#

Second Syllable Consonant Cluster Unstressed Onset: pɹ, bɹ, bl, fɹ, st

Second Syllable Consonant Cluster Unstressed Coda: nt^h#

Third Syllable Consonant Cluster Stressed Onset:

Third Syllable Consonant Cluster Stressed Coda:

Third Syllable Consonant Cluster Unstressed Onset: tɹ, st

Third Syllable Consonant Cluster Unstressed Coda: nd#, ɹd^h#, ɹt#

Fourth Syllable Consonant Cluster Stressed Onset:

Fourth Syllable Consonant Cluster Stressed Coda:

Fourth Syllable Consonant Cluster Unstressed Onset:

Fourth Syllable Consonant Cluster Unstressed Coda:

Fifth Syllable Consonant Cluster Stressed Onset:

Fifth Syllable Consonant Cluster Stressed Coda:

Fifth Syllable Consonant Cluster Unstressed Onset:

Fifth Syllable Consonant Cluster Unstressed Coda:

Consonant Cluster Total for Stressed and Unstressed Onsets and Codas

Stressed Onset: #p^hl(2), #bl, bɹ(2), #fɹ(3), t^hɹ(2), tɹ, #sk, #sp, #skɹ, #zl, #kl, #k^hw, #k^hɹ, #gɹ(3), gɹ, #gl

Stressed Coda: ɹk#

Unstressed Onset: pɹ, #bɹ(3), bɹ, bl, fɹ, tɹ, st(2), #kɹ, #k^hɹ

Unstressed Coda: nd#, nt^h#, ɹd^h#, ɹt#

Consonant Cluster Total for Onsets and Codas

Onset: #p^hl(2), pɹ, #bl, bl, bɹ(3), #bɹ(5), #fɹ(3), fɹ, t^hɹ(2), tɹ(2), #sk, #sp, #skɹ, st(2), #zl, #kl, #k^hw, #kɹ, #k^hɹ(2), #gɹ(3), gɹ, #gl

Coda: mst#, nd#, nt^h#, ndʒ#, ɹd^h#, ɹt#, ɹk#

Consonant Cluster Total for Stressed and Unstressed Syllables and Monosyllables

Monosyllable Consonant Cluster: #bɹ(2), mst#, ndʒ#

First Syllable Consonant Cluster Stressed: #p^hl(2), #bl, #fɹ(3), #sk, #sp, #skɹ, #zl, #kl, #k^hw, #k^hɹ, #gɹ(3), #gl

First Syllable Consonant Cluster Unstressed: #bɹ(3), #kɹ, #k^hɹ

Second Syllable Consonant Cluster Stressed: bɹ(2), t^hɹ(2), tɹ, ɹk#, gɹ

Second Syllable Consonant Cluster Unstressed: pɹ, bɹ, bl, fɹ, nt^h#, st

Third Syllable Consonant Cluster Stressed:

Third Syllable Consonant Cluster Unstressed: tɹ, nd#, st, ɹd^h#, ɹt#

Fourth Syllable Consonant Cluster Stressed:

Fourth Syllable Consonant Cluster Unstressed:

Fifth Syllable Consonant Cluster Stressed:

Fifth Syllable Consonant Cluster Unstressed:

Consonant Cluster Total per Syllable

First Syllable Consonant Cluster: #p^hl(2), #bl, #bɹ(3), #fɹ(3), #sk, #sp, #skɹ, #zl, #kl, #k^hw, #k^hɹ(2), #kɹ, #gɹ(3), #gl

Second Syllable Consonant Cluster: pɹ, bɹ(3), bl, fɹ, t^hɹ(2), tɹ, nt^ʔ#, st, ɹk#, gɹ

Third Syllable Consonant Cluster: tɹ, nd#, st, ɹd^ʔ#, ɹt#

Fourth Syllable Consonant Cluster:

Fifth Syllable Consonant Cluster:

Consonant Cluster Stressed and Unstressed Total

Consonant Cluster Stressed: #p^hl(2), #bl, bɹ(2), #fɹ(3), t^hɹ(2), tɹ, #sk, #sp, #skɹ, #zl, ɹk#, #kl, #k^hw, #k^hɹ, #gɹ(3), gɹ, #gl

Consonant Cluster Unstressed: pɹ, bɹ, bl, #bɹ(3), fɹ, tɹ, nt^ʔ#, nd#, st(2), ɹd^ʔ#, ɹt#, #kɹ, #k^hɹ

Consonant Cluster Total (absolute)

Narrow: #p^hl(2), pɹ, #bl, bl, #bɹ(5), bɹ(3), mst#, #fɹ(3), fɹ, t^hɹ(2), tɹ(2), nt^ʔ#, nd#, ndʒ#, #sk, #sp, #skɹ, st(2), #zl, ɹk#, ɹd^ʔ#, ɹt#, #kl, #k^hw, #kɹ, #k^hɹ(2), #gɹ(3), gɹ, #gl

Broad: pl(2), pɹ, bl(2), bɹ(8), mst, fɹ(4), tɹ(4), nt, nd, ndʒ, sk, sp, skɹ, st(2), zl, ɹk, ɹd, ɹt, kl, kw, kɹ(3), gɹ(4), gl

Supra-Segments: Whole Syllables

Whole Syllable Total for Stressed and Unstressed Syllables and Monosyllables

Monosyllable Whole Syllable:

#fmi^jf#, #ɹi^jf#,
#bɹɪndʒ#, #fɹɪt#,
#o^wf#, #p^ho^w#, #bɹo^wmst#,
#fɹɛpf#,
#dæk#, #k^hɹæs#,
#wan#,
#p^hɑɹg#, #swɑf#, #ʒɑd#

First Syllable Whole Syllable Stressed (all entries are word initial):

#fɹɪ^j, #t^hɪ^jn, #t^hɪ^j, #di^j, #spi^j, #gli^jn,
#mu^w, #dʒu^w, #skɹu^wp,
#bɪn, #mɪ, #mɪf, #dɪŋ, #dɪŋ, #dʒɪ, #sɪm, #zɪ, #k^hɪt,
#p^hle^j, #be^j, #k^hɹe^j,
#gɹo^w,
#bæ, #sæ,
#ɛk, #ble, #beɹ, #mɛ(2), #lɛ, #gɹɛf, #gɹɛ,
#vɹ, #sɹɹn, #zɹk,
#k^hɔ,
#æ, #p^hæ, #p^hlæ, #mæd, #tʃæm, #sæ, #skæn, #zlæk, #k^hæ, #gæn,
#fa^j, #k^ha^j, #wa^j,
#ɑ, #ab, #p^hɑ, #faɹ, #fɹat, #fɹɑ, #dʒɑ, #fɑ, #ɹad, #ɹas, #k^hwan, #kla, #wam

First Syllable Whole Syllable Unstressed (all entries are word initial):

#bɹɪ^j,
#ku, #kul, #gu^w,
#ɪg, #kɹɪ,
#bɹe^j,
#mo^w,
#ə(2), #pə, #mə(2), #məm, #fə, #dʒə, #ɹə, #kə, #kəⁿ(2),
#ə, #bæ,
#bɹɛ, #vɛ, #nɛ,
#ɔɹ,
#æ, #æs, #k^hɹæd, #kæz,
#ɑ, #ɑɹ(2), #maɹ, #na, #gam, #ja

Second Syllable Whole Syllable Stressed:

bɹɪ^j, mɪ^jf#, nɪ^jk#, zɪ^j,
 tʰu^ws#, tʰɹu^w, tʰu^w#, ɡɹu^w#,
 ɹɪ,
 me^j, le^j,
 lo^wnt^ː#, go^w,
 tʰə,
 bɛ, bɛn#, mɛ, zɛm, jɛt,
 pʰæn#, tʰæn, tʰæ, ɹæb,
 bɹa, tʰɹa^j, dʒa^j,
 daɹk#, kʰad^ː#

Second Syllable Whole Syllable Unstressed:

pɹɪ^j, pɪ^j##(2), nɪ^j#, rɪ^j, rɪ^j#, zɪ^j##(2), lɪ^j#, lɪ^j, lɪ,
 tʰjɥ^w,
 du^w, du^wn, hju^w#,
 bɹɪk#, mɪf#, fɹɪn#, tɪk#, dɪn#, sɪt#, sɪd^ː#, sɪv#, ʃɪn#,
 ɹe^j#,
 to, tʰo^wz#,
 pə, pə^j#, mə, fə, fə^j, fə^j#, təf#, təs#, tʃə, dʒə, nə, rə(2), ɵə^j#, ɵə, stə#, sə, lə#, lə, lə^j#, ə^j, kə^j, ɡə, ɡə^j,
 bə, fə(2), tə#(2), rə#,
 dɔɹ#,
 blæt#,
 ɹa^ws#, la^jts#,
 ma:^h# faɹ#, dʒa^j#, na, naɹ#, ran#, sta, zan#, ʃan#, lax#

Third Syllable Whole Syllable Stressed:

tʰɛ, kʰɛ^j#,
 nə, jæ#,
 na,
 fa, za, ɹan

Third Syllable Whole Syllable Unstressed:

mɪ^jɹd^ː#, dɪ^j#, dɪ^jn#, nɪ^j, ɵɪ^j, lɪ^j#,
 mɪk#, vɪŋ#, stɪk^ː#, zɪn#, ʃɪs##(2), ɹɪt^ː#, ɹɪn#,
 to^w#, lo^w##(2),
 ə, pə, bə^j, mə#, tɹə, dʒə, rək#, ʃə^j#, ʒə^j#, ɹə^j#, ɹə, lə#, ɡə^j#,
 ta^jz#, da^jk#, da^js#,
 tʰan#, naɪt#, ɹa#, land#, jad#, kaɹ#

Fourth Syllable Whole Syllable Stressed:**Fourth Syllable Whole Syllable Unstressed:**

tɪ^j##(2), nɪ^j#,
 rɪk#,
 ɹe^j#,
 go^w#,
 ə#, təd#, də#, ə^j#, lə, kə#,
 ta#

Fifth Syllable Whole Syllable Stressed:**Fifth Syllable Whole Syllable Unstressed:**

sɪs#

Whole Syllable Total per Syllable

First Syllable Whole Syllable (all entries are word initial):

#bɹɪ^j, #fɹɪ^j, #tʰɪ^jn, #tʰɪ^j, #dɪ^j, #spɪ^j, #ɡlɪ^jn,

#mu^w, #dʒu^w, #skʲu^wp, #ku, #kul, #gu^w,
 #ɪg, #bɪn, #mɪ, #mɪf, #dɪŋ, #dɪg, #dʒɪ, #sɪm, #zɪ, #kʰɪt, #kɪɪ,
 #pʰle^j, #bɪe^j, #be^j, #kʰle^j,
 #mo^w, #gɹo^w,
 #ə(2), #pə, #mə(2), #məm, #fə, #dʒə, #ɹə, #kə, #kən(2),
 #ə, #bə(2), #sə,
 #ɛk, #ble, #bɪɛ, #bɛɪ, #mɛ(2), #vɛ, #nɛ, #lɛ, #gɹɛf, #gɹɛ,
 #vʌ, #sʌn, #zʌk,
 #ɔɪ, #kʰɔɪ,
 #æ(2), #æs, #pʰæ, #pʰlæ, #mæd, #tʃæm, #sæ, #skæn, #zlæk, #kʰæ, #kʰlæd, #kæz, #gæn,
 #fa^j, #kʰa^j, #wa^j,
 #a, #aɪ(3), #ab, #pʰaɪ, #maɪ, #faɪ, #fɪat, #fɪa, #dʒaɪ, #na, #fɹaɪ, #ɹad, #ɹas, #ja, #kʰwan, #kla, #gam, #wam
 Second Syllable Whole Syllable:
 pɹɪ^j, pɪ^j#(2), bɹɪ^j, mɪ^jf#, nɪ^j#, nɪ^jk#, rɪ^j, rɪ^j#, zɪ^j#(2), zɪ^j, lɪ^j#, lɪ^j, li,
 tʰjɥ^w,
 tʰu^ws#, tʰɹu^w, tʰu^w#, du^w, du^wn, gɹu^w#, hju^w#,
 bɹɪk#, mɪf#, fɹɪn#, tɪk#, dɪn#, sɪt#, sɪdʰ#, sɪv#, fɪn#, ɹɪ,
 me^j, ɹe^j#, le^j,
 to, tʰo^wz#, lo^wntʰ#, go^w,
 pə, pəʔ#, mə, fə, fəŋ, fəʔ#, təʃ#, təs#, tʃə, dʒə, nə, rə(2), ʈəŋ#, ʈə, stə#, sə, lə#, lə, ləŋ#, ʔ, kʰ, gə, ɡəŋ,
 bə, fə(2), təʔ(2), tʰə, rə#,
 bɛ, bɛn#, mɛ, zɛm, jɛtʰ,
 dɔɪ#,
 pʰæn#, blæt#, tʰæn, tʰæ, ɹæb,
 bɹa, tʰɹa^j, dʒa^j, ɹa^ws#, la^jts#,
 ma^jʰ#, faɪ#, daɪk#, dʒa^jʰ#, na, naɪ#, ran#, sta, zan#, ʃan#, lax#, kʰadʰ#

Third Syllable Whole Syllable:
 mɪ^jdʰ#, dɪ^j#, dɪ^jn#, nɪ^j, ʈɪ^j, lɪ^j#,
 mɪk#, vɪŋ#, stɪkʰ#, zɪn#, fɪs#(2), ɹɪtʰ#, ɹɪn#,
 to^w#, lo^w#(2),
 ə, pə, bəʔ#, mə#, tɹə, dʒə, rək#, ʃəŋ#, ʒəŋ#, ɹəʔ#, ɹə, lə#, ɡəʔ#,
 tʰɛ, kʰɛʔ#,
 nə, jæ#,
 ta^jz#, da^jk#, da^js#, na,
 fa, tʰan#, naɪt#, za, ɹa#, ɹan, land#, jad#, kaɪ#

Fourth Syllable Whole Syllable:
 tɪ^j#(2), nɪ^j#,
 rɪk#,
 ɹe^j#,
 go^w#,
 ə#, təd#, də#, ʈəŋ#, lə, kə#,
 ta#

Fifth Syllable Whole Syllable:
 sɪs#

Whole Syllable Stressed and Unstressed Total

Whole Syllable Stressed:
 bɹɪ^j, mɪ^jf#, #fɹɪ^j, #tʰɪ^jn, #tʰɪ^j, #dɪ^j, nɪ^jk#, #spi^j, zɪ^j, #gli^jn,
 #mu^w, tʰu^ws#, tʰɹu^w, tʰu^w#, #dʒu^w, #skʲu^wp, gɹu^w#,
 #bɪn, #mɪ, #mɪf, #dɪŋ, #dɪg, #dʒɪ, #sɪm, #zɪ, ɹɪ, #kʰɪt,
 #pʰle^j, #be^j, me^j, le^j, #kʰle^j,
 lo^wntʰ#, go^w, #gɹo^w,
 #bə, tʰə, #sə,
 #ɛk, bɛ, bɛn#, #ble, #bɛɪ, #mɛ(2), mɛ, tʰɛ, zɛm, #lɛ, jɛtʰ, kʰɛʔ#, #gɹɛf, #gɹɛ,
 #vʌ, #sʌn, #zʌk,

#kʰɔ,
 #æ, pʰæn#, #pʰæ, #pʰlæ, #mæd, tʰæn, tʰæ, #tʃæm, næ, #sæ, #skæn, #zlæk, ɹæb, jæ#, #kʰæ, #gæn,
 bɹa, #faɪ, tʰɹaɪ, dʒaɪ, na, #kʰaɪ, #waɪ,
 #aɪ, #ab, #pʰaɪ, fa, #faɪ, #fɹat, #fɹa, daɪk#, #dʒaɪ, za, #faɪ, #ɹad, #ɹas, ɹan, #kʰwan, kʰadʰ#, #kla, #wam

Whole Syllable Unstressed:

pɹɪɪ, pɪɪ#(2), #bɹɪɪ, mɪɪɪdʰ#, tɪɪ#(2), dɪɪ#, dɪɪn#, nɪɪ, nɪɪ#(2), rɪɪ, rɪɪ#, ʊɪɪ, zɪɪ#(2), lɪɪ#(2), lɪɪ, li,
 tʰjɛʷ,
 duʷ, duʷn, #ku, #kul, #guʷ, hjuʷ#,
 #ɪg, bɹɪk#, mɪf#, mɪk#, fɹɪn#, vɪŋ#, tɪk#, dɪn#, rɪk#, stɪkʰ#, sɪt#, sɪs#, sɪdʰ#, sɪv#, zɪn#, fɪs#(2), fɪn#, ɹɪtʰ#, ɹɪn#, #kɹɪ,
 #bɹeɪ, ɹeɪ#(2),
 #moʷ, to, toʷ#, tʊoʷz#, loʷ#(2), goʷ#,
 #ə(2), ə, ə#, pə(2), #pə, pʰɛ#, bʰɛ#, mə, #mə(2), mə#, #məm, #fə, fə, fəŋ, fʰɛ#, təf#, təs#, təd#, tɹə, də#, tʃə, dʒə(2), #dʒə, nə, ʔŋ#, rə(2),
 rək#, ʊəŋ#, ʊə, stə#, sə, fəŋ#, ʒəŋ#, ɹʰɛ#, ɹə, #ɹə, lə#(2), lə(2), ləŋ#, ʔ, kʰɛ#, kə#, #kəŋ(2), gə, gəŋ, gʰɛ#,
 #ə, #bə, bə, fə(2), tə#(2), rə#,
 #bɹɛ, #vɛ, #nɛ,
 #ɔɪ, dɔɪ#,
 #æ, #æs, blæt#, #kʰɹæd, #kæz,
 ta#, taɪz#, daɪk#, daɪs#, ɹaʷs#, laɪts#,
 #a, #aɪ(2), #maɪ, maɪʰ#, faɪ#, tʰan#, dʒaɪ#, na, #na, naɪ#, naɪt#, ran#, sta, zan#, fan#, ɹa#, lax#, land#, #ja, jad#, kaɪ#, #gam

Whole Syllable Total (absolute)

Narrow:

pɹɪɪ, pɪɪ#(2), #bɹɪɪ, bɹɪɪ, mɪf#, mɪɪɪdʰ#, #fɹɪɪ, #tʰɪɪn, #tʰɪɪ, tɪɪ#(2), dɪɪ#, #dɪɪ, dɪɪn#, nɪɪk#, nɪɪ, nɪɪ#(2), rɪɪ, rɪɪ#, ʊɪɪ, #spiɪ, zɪɪ, zɪɪ#(2),
 #fɹmɪf#, #ɹɪf#, lɪɪ#(2), lɪɪ, li, #gɹɪɪn,
 tʰjɛʷ,
 #muʷ, tʰuʷs#, tʰɹuʷ, tʰuʷ#, duʷ, duʷn, #dʒuʷ, #skɹuʷp, #ku, #kul, #guʷ, gɹuʷ#, hjuʷ#,
 #ɪg, bɹɪk#, #bɪn, #bɹɪndʒ#, #mɪ, #mɪf, mɪf#, mɪk#, fɹɪn#, #fɪt#, vɪŋ#, tɪk#, dɪn#, #dɪŋ, #dɪg, #dʒɪ, rɪk#, stɪkʰ#, sɪt#, sɪs#, sɪdʰ#, sɪv#,
 #sɪm, #zɪ, zɪn#, fɪs#(2), fɪn#, ɹɪtʰ#, ɹɪn#, ɹɪ, #kɹɪ, #kʰɪtʰ,
 #pʰleɪ, #beɪ, #bɹeɪ, meɪ, ɹeɪ#(2), leɪ, #kʰɹeɪ,
 #oʷf#, #pʰoʷ#, #bɹoʷmst#, #moʷ, to, toʷ#, tʊoʷz#, loʷ#(2), loʷntʰ#, #gɹoʷ, goʷ, goʷ#,
 #ə(2), ə, ə#, pə(2), #pə, pʰɛ#, bʰɛ#, mə, #mə(2), mə#, #məm, #fə, fə, fəŋ, fʰɛ#, təf#, təs#, təd#, tɹə, də#, tʃə, dʒə(2), #dʒə, nə, ʔŋ#, rə(2),
 rək#, ʊəŋ#, ʊə, stə#, sə, fəŋ#, ʒəŋ#, ɹʰɛ#, ɹə, #ɹə, lə#(2), lə(2), ləŋ#, ʔ, kʰɛ#, kə#, #kəŋ(2), gə, gəŋ, gʰɛ#,
 #ə, #bə(2), bə, fə(2), tə#(2), tʰə, rə#, #sə,
 #ɛk, be, ben#, #ble, #beɪ, #bɹɛ, #mɛ(2), mɛ, #fɹɛpʃ#, #vɛ, tʰɛ, #nɛ, zɛm, #lɛ, jɛtʰ, kʰɛɪtʰ#, #gɹɛf, #gɹɛ,
 #vɹ, #sɹn, #zɹk,
 #ɔɪ, dɔɪ#, #kʰɔ,
 #æ(2), #æs, pʰæn#, #pʰæ, #pʰlæ, blæt#, #mæd, tʰæn, tʰæ, #dæk#, #tʃæm, næ, #sæ, #skæn, #zlæk, ɹæb, jæ#, #kʰæ, #kʰɹæd, #kæz,
 #kʰɹæs#, #gæn,
 bɹa, #faɪ, tʰɹaɪ, ta#, taɪz#, daɪk#, daɪs#, dʒaɪ, na, ɹaʷs#, laɪts#, #kʰaɪ, #waɪ, #wan#,
 #a, #aɪ(3), #ab, #pʰaɪ, #pʰaɪg#, #maɪ, maɪʰ#, fa(2), #faɪ(2), faɪ#, #fɹat, #fɹa, tʰan#, daɪk#, #dʒaɪ, dʒaɪ#, na, #na, naɪ#, naɪt#, ran#, sta,
 #swaf#, zan#, za, #faɪ, fan#, #ʒāɪd#, ɹa#, #ɹad, #ɹas, ɹan, lax#, land#, #ja, jad#, #kʰwan, kaɪ#, kʰadʰ#, #kla, #gam, #wam

Broad:

pɹɪ, pɪ(2), bɹɪ(2), mɪf, mɪɪd, fɹɪ, tɪn, tɪ(3), dɪ(2), dɪn, nɪk, nɪ(3), rɪ(2), ʊɪ, spi, zi(3), fɹmɪf, ɹɪf, li(4), glɪn,
 tʰjɛ,
 mu, tus, tɹu, tu, du, dun, dʒu, skɹup, ku, kul, gu, gɹu, hju,
 ɪg, bɹɪk, bɪn, bɹɪndʒ, mɪ, mɪf(2), mɪk, fɹɪn, fɪt, vɪŋ, tɪk, dɪn, dɪŋ, dɪg, dʒɪ, rɪk, stɪk, sɪt, sɪs, sɪd, sɪv, sɪm, zɪ, zɪn, fɪs(2), fɪn, ɹɪt, ɹɪn, ɹɪ,
 kɹɪ, kɹɪtʰ,
 ple, be, bɹe, me, ɹe(2), le, kɹe,
 oʃ, po, bɹomst, mo, to(2), tʊoz, lo(2), lont, gɹo, go(2),
 ə(4), pə(3), pʰɛ, bʰɛ, mə(4), məm, fə(2), fəŋ, fʰɛ, təf, təs, təd, tɹə, də, tʃə, dʒə(3), nə, ʔŋ, rə(2), rək, ʊəŋ, ʊə, stə, sə, fəŋ, ʒəŋ, ɹʰɛ, ɹə(2), lə(4),
 ləŋ, ʔ, kʰɛ, kə(2), kəŋ(2), gə, gəŋ, gʰɛ,
 ə, bə(3), fə(2), tə(3), rə, sə,
 ɛk, be, ben, ble, beɪ, bɹɛ, mɛ(3), fɹɛpʃ, vɛ, tɛ, nɛ, zɛm, lɛ, jɛtʰ, kɛtʰ, gɹɛf, gɹɛ,
 vɹ, sɹn, zɹk,
 ɔɪ, dɔɪ, kɔ,

æ(2), æs, pæn, pæ, plæ, blæt, mæd, tæn, tæ, dæk, tʃæm, næ, sæ, skæn, zlək, ʌb, jæ, kæ, kʌəd, kæz, kʌəs, gæn, bʌ, fa, tʌ, ta, taz, dak, das, dʒa, na, ʌs, lats, ka, wa, wan, a, aʌ(3), ab, paʌ, paʌg, maʌ, ma, fa(2), faʌ(3), fʌt, fʌ, tan, daʌk, dʒaʌ, dʒaʌt, na(2), naʌ, naʌt, ran, sta, swaʃ, zan, za, ʃaʌ, ʃan, ʒad, ʌa, ʌad, ʌas, ʌan, lax, land, ja, jad, kwan, kaʌ, kad, kla, gam, wam

Supra-Segments: Whole Words

Whole Word Total per Word Length

Whole Monosyllables:

poe [p^ho^w], schmeesh [ʃmi^jʃ], pahrg [p^haʌrg], wan [wan], frepsh [fɹɛpʃ], kras [k^hʌəs], filt [fɪʈt], oash [o^wʃ], zhahnd [ʒăd], bringe [bɹɪndʒ], dak [dæk], broamst [bɹo^wmst], swahsh [swaʃ], reesh [ɹi^jʃ]

Whole Bisyllables:

KWAHNtrowz [k^hwan · tɹo^wz], KOray [k^hɔ · ɹeʃ], FREEmah [fɹi^j · ma:^h], DEEzee [di^j · ziʃ], GREHpul [gɹɛ · p^hʃ], EKsit [ɛk · sɪt], SKANtush [skæn · təʃ], SUNfrin [sʌn · fɹɪn], MOOnee [mu^w · niʃ], PLApée [p^hlæ · piʃ], SIMbrik [sɪm · bɹɪk], GANjah [gæn · dʒaʈ], PLAYzahn [p^hleʃ · zan], FRAHlee [fɹa · liʃ], KILtuhr [k^hɪt · təʃ], KAIZee [k^haʃ · ziʃ], RAHstuhs [ʌas · təs], GROWfähr [gɹo^w · faʌ], BAYluh [beʃ · lə], ZLAKtik [zlæk · tɪk], FYhue [faʃ · hju^w], BINSid [bɪn · sɪd], BURlah [bə · ləx], SURrouse [sə · ʌa^ws], WAHMdin [wam · dɪn], PARthum [p^haʌ · θəŋ], LEDee [le · riʃ], GREFtuhr [gɹɛf · təʃ], SPEEpee [spi^j · piʃ], MIHtuhr [mi · rəʃ], AHBlites [ab · laʃtʃ], MISHmish [mɪʃ · mɪʃ], TEEful [t^hiʃ · f^hʃ], DIGnahr [dɪg · naʌ], KRAYshahn [k^hʌeʃ · ʃan], RAHDshin [ʌad · ʃɪn], FAHRdahn [faʌ · ran], MADstuh [mæd · stə], JILuhm [dʒɪ · ləŋ], FRAHTdor [fɹat · dɔʌ], CHAMblat [tʃæm · blæt], GLEENsiv [gliⁿ · sɪv],

yahGROO [ja · 'gɹu^w], kuhPAN [kə · 'p^hæn], ruhDARK [ʌə · 'daʌk], fuhNEEK [fə · 'niʃk], juhMEESH [dʒə · 'miʃʃ], mahrTOO [maʌ · 't^hu^w], gahmbEN [gam · 'bɛn], muhKHAD [mə · 'k^had], brayTOOS [bɹeʃ · 't^hu^ws], assLOWNT [æs · 'lo^wnt]

Whole Trisyllables:

nahdoonlee [na · du^w · n · liʃ],

KApreshis [k^hæ · pɹi^j · ʃɪs], Apuhmuh [æ · pə · mə], VUHguhbul [vʌ · gə · b^hʃ], AHRnuhmik [aʌ · nə · mɪk], DINGfuhrah [dɪŋ · fə · ʌa], WYuhldyke [waʃ · ʔ · daʃk], TEENtyoulow [t^hiʃn · t^hjə^w · lo^w], MEHdeeyahd [me · riʃ · jad], KLAHthuhtahn [kla · θə · t^han], MEHtuhdys [me · rə · daʃs], JOOleelahnd [dʒu^w · liʃ · land], JAHRgundeen [dʒaʌ · gəŋ · diʃn], PALuhtoe [p^hæ · lə · to^w], BLEFfunkahr [ble · fəŋ · kaʌ], SKROOPchuhmeerd, [skɹu^w · p · tʃə · miʃd] SHARKulnart [ʃaʌ · kəʃ · naʌt], SATuhtize [sæ · rə · taʃz], ZIHburit [zi · bə · ɹɪt], ZUKfurl [zʌk · fə · ʌʃ], BAREsuhluh [beɹ · sə · lə],

puhLAYshis [pə · 'leʃ · ʃɪs], uhTRYgul [ə · 't^hʌʃ · g^hʃ], arBREEzhun [aʌ · 'bɹiʃ · ʒəŋ], kunJYveeng [kəŋ · 'dʒaʃ · vɪŋ], orTANdee [ɔʌ · 't^hæn · diʃ], urTAStik [ə · 't^hæ · stɪk], breeYELzin [bɹiʃ · 'jɛt · zɪn], nehRITuk [ne · ʌɪ · rək], muhTURin [mə · 't^hə · ɹɪn], muhmBRAHloe [məm · 'bɹa · lo^w], kazMAYshun [kæz · 'meʃ · ʃəŋ],

kooleeYEAH [ku · li · 'jæ], ardooKALE [aʌ · du^w · 'k^hɛʃ]

Whole Tetrasyllables:

igZEMpuhtuhd [ɪg · 'zɛm · pə · təd], brehBEHruhtee [bɹɛ · 'be · ʌə · tiʃ], kuhnTRUuhtee [kəŋ · 't^hɹu^w · ə · tiʃ], kradGOneeuhn [k^hʌəd · 'go^w · niʃ · əŋ], uhMETruhkuh [ə · 'mɛ · tʌə · kə], moZEEtheeuh [mo^w · 'ziʃ · θiʃ · ə], burRABjuhnee [bə · 'ʌæb · dʒə · niʃ],

kultohNAHtah [kul · to · 'na · ta], ahnahTEHguh [a · na · 't^hɛ · go^w], krihmuhZAtik [kɹɪ · mə · 'za · rɪk], goostahFAHray [gu^w · sta · 'fa · ɹeʃ], afuhRAHNduh [æ · fə · 'ʌan · də]

Whole Pentasyllables:

vehjuhNALuhsis [ve · dʒə · 'næ · lə · sɪs]



Question ID: d.

Segments

Segment Total for Stressed and Unstressed Syllables and Monosyllables according to Syllable Configuration

Monosyllable Onset: p(2), m, #f, #t, #t^h, #n, #s(6), #f(2), #ɹ, ɹ(3), l(2), k(2), #g, #w, w(3)

Monosyllable Nucleus: i, i^j(2), u^w, e^j, ə, ε(3), æ^j, a, a^j, a(2), a#

Monosyllable Coda: p#, m#, m, t#(4), n, n#(2), f#(3), ɹ#(2), t(2), t#, k

First Syllable Segment Stressed Onset: #p, p(2), #b(4), #m(3), m(2), #f, #v, v, #t^h, t(2), #tʃ, #r(2), #s(27), #z, #f(2), #ɹ(3), ɹ(6), #l(6), l(3), #j, j, #k^h(12), k(2), #g(3), #w(3), w(9), #h

First Syllable Segment Stressed Nucleus: i^j(4), u^w, u^w(4), #u, u, ɪ(15), ʊ, e, e^j(6), o^w(5), #ə(2), ə(6), #ε, ε(3), ɔ, #æ, æ(6), æ^j, a^j(4), #a, a(14)

First Syllable Segment Stressed Coda: p(2), m(3), v, n(9), s(2), ɹ(3), t(4), k, ɳ(4)

First Syllable Segment Unstressed Onset: p, #p^h, #m, #d, #dʒ, #s(5), #ɹ, ɹ, #l, #k(2), k, #g, #w, w, #h

First Syllable Segment Unstressed Nucleus: i^j, ɪ(5), ʊ, #ə, ə(4), ə̃, ə(2), ɔ, #æ, #a(2), a

First Syllable Segment Unstressed Coda: d, n, s, ɹ

Second Syllable Segment Stressed Onset: p^h, b, m, v, t^h(2), s(2), f, ʒ, ɹ(4), l(2), k, k^h, w(2)

Second Syllable Segment Stressed Nucleus: i^j, ɪ(3), e^j, ə(2), ε, ɔ, ɔ^j, æ, a(5)

Second Syllable Segment Stressed Coda: f, dʒ#, n(2), f#, ɹ#(2), t#, k#

Second Syllable Segment Unstressed Onset: p(5), b(3), m(3), f, v(5), t(6), d(3), dʒ, n(4), r(3), θ, ð(2), s(2), z(7), f, ɹ(8), l(12), j(2), k(3), g(7), w(5)

Second Syllable Segment Unstressed Nucleus: i^j#(14), ɪ(8), e^j, o^w, o^w#(2), ə(15), ə#, ə̃(2), ə̃#(10), ə̃m#(2), ə̃n, ə̃n#(4), ə(3), ə#(2), ε(4), æ, a#, a^w#, a(3), a^j, a(6)

Second Syllable Segment Unstressed Coda: p#(2), t#, t^h#(2), d#(5), d^h#(2), n, n#(6), s#(2), z#, f#, ɹ#, t#(2), k#(2), g#

Third Syllable Segment Stressed Onset: m, t^h, n, l

Third Syllable Segment Stressed Nucleus: u^w#, ε, a^j, a

Third Syllable Segment Stressed Coda:

Third Syllable Segment Unstressed Onset: b, v, n(5), s(3), z, f, ɹ(4), l(5), t, j, k(2)

Third Syllable Segment Unstressed Nucleus: i^j(2), i:#, u^w#, ɪ(5), e^j, e^j#, ə, ə#(4), ə̃m#, ə̃t, ε, a(2)

Third Syllable Segment Unstressed Coda: t#, d#, n#, s, s#(4), f#, ɹ#, ɳ#(2)

Fourth Syllable Segment Stressed Onset:

Fourth Syllable Segment Stressed Nucleus:

Fourth Syllable Segment Stressed Coda:

Fourth Syllable Segment Unstressed Onset: m, s, z, f, ɹ, l

Fourth Syllable Segment Unstressed Nucleus: ɪ, e^j, ə, ə#(4), ə̃m#

Fourth Syllable Segment Unstressed Coda: s#(2), k#

Fifth Syllable Segment Stressed Onset:

Fifth Syllable Segment Stressed Nucleus:

Fifth Syllable Segment Stressed Coda:

Fifth Syllable Segment Unstressed Onset:

Fifth Syllable Segment Unstressed Nucleus:

Fifth Syllable Segment Unstressed Coda:

Segment Total for Stressed and Unstressed Onsets and Codas

Stressed Onset: #p, p(2), p^h, #b(4), b, #m(3), m(4), #f, #v, v(2), #t^h, t^h(3), t(2), #tʃ, n, #r(2), #s(27), s(2), #z, #f(2), f, ʒ, #ɹ(3), ɹ(10), #l(6), l(6), #j, j, #k^h(12), k(3), k^h, #g(3), #w(3), w(11), #h

Stressed Coda: p(2), m(3), f, v, dʒ#, n(1 1), s(2), f#, ɹ(3), ɹ#(2), t(4), t#, k, k#, ŋ(4)

Unstressed Onset: #p^h, p(6), b(4), #m, m(4), f, v(6), t(6), #d, d(3), #dʒ, dʒ, n(9), r(3), Ø, ð(2), #s(5), s(6), z(9), ʃ(3), #ɹ, ɹ(1 4), #l, l(1 8), t, j(3), #k(2), k(6), #g, g(7), #w, w(6), #h

Unstressed Coda: p#(2), t#(2), t`#(2), d, d#(6), d`#(2), n(2), n#(7), s(2), s#(8), z#, ʃ#(2), ɹ, ɹ#(2), t#(2), k#(3), g#, ŋ#(2)

Segment Total for Onsets and Codas

Onset: #p, #p^h, p(10), p^h, #b(4), b(5), #m(4), m(9), #f(2), f, #v, v(8), #t, #t^h(2), t^h(3), t(8), #d, d(3), #tʃ, #dʒ, dʒ, #n, n(10), #r(2), r(3), Ø, ð(2), #s(3 8), s(8), #z, z(9), #ʃ(4), ʃ(4), ʒ, #ɹ(5), ɹ(2 7), #l(7), l(2 6), t, #j, j(4), #k^h(1 2), #k(2), k(1 1), k^h, #g(5), g(7), #w(5), w(2 0), #h(2)

Coda: p(2), p#(3), m(4), m#, f, v, t#(6), t`#(2), d, d#(6), d`#(2), dʒ#, n(1 4), n#(9), s(4), s#(8), z#, ʃ#(6), ɹ(4), ɹ#(6), t(6), t#(4), k(2), k#(4), g#, ŋ(4), ŋ#(2)

Segment Total for Stressed and Unstressed Syllables and Monosyllables

Monosyllable Segment: p(2), p#, m(2), m#, #f, #t, #t^h, t#(4), #n, n, n#(2), #s(6), #ʃ(2), ʃ#(3), #ɹ, ɹ(3), ɹ#(2), l(2), t(2), t#, k(3), #g, #w, w(3)

i, i^j(2), u^w, e^j, ə, ε(3), æ^j, a, a^j, a(2), a#

First Syllable Segment Stressed: #p, p(4), #b(4), #m(3), m(5), #f, #v, v(2), #t^h, t(2), #tʃ, n(9), #r(2), #s(2 7), s(2), #z, #ʃ(2), #ɹ(3), ɹ(9), #l(6), l(3), t(4), #j, j, #k^h(1 2), k(3), #g(3), ŋ(4), #w(3), w(9), #h

i^j(4), ʊ^w, u^w(4), #u, u, ɪ(1 5), ʊ, e, e^j(6), o^w(5), #ə(2), ə(6), #ε, ε(3), ɔ, #æ, æ(6), æ^j, a^j(4), #a, a(1 4)

First Syllable Segment Unstressed: p, #p^h, #m, #d, d, #dʒ, n, əŋ, #s(5), s, #ɹ, ɹ(2), #l, #k(2), k, #g, #w, w, #h

i^j, ɪ(5), ʊ, #ə, ə(4), ə(2), ɔ, #æ, #a(2), a

Second Syllable Segment Stressed: p^h, b, m, f, v, t^h(2), dʒ#, n(2), s(2), ʃ, ʃ#, ɹ(4), ɹ#(2), l(2), t#, k#, k, k^h, w(2)

i^j, ɪ(3), e^j, ə(2), ε, ɔ, ɔ^j, æ, a(5)

Second Syllable Segment Unstressed: p(5), p#(2), b(3), m(3), əŋ#(2), f, v(5), t(6), t#, t`#(2), d#(5), d`#(2), d(3), dʒ, n(5), n#(6), əŋ, əŋ#(4), r(3), Ø, ð(2), s(2), s#(2), z#, z(7), ʃ, ʃ#, ɹ(8), ɹ#, l(1 2), t#(2), t(2), t(10), j(2), k(3), k#(2), g#, g(7), w(5)

i^j#(1 4), ɪ(8), e^j, o^w, o^w#(2), ə(1 5), ə#, ə(3), ə#(2), ε(4), æ, a#, a^w#, a(3), a^j, a(6)

Third Syllable Segment Stressed: m, t^h, n, l

u^w#, ε, a^j, a

Third Syllable Segment Unstressed: b, əŋ#, v, t#, d#, n(5), n#, s(4), s#(4), z, ʃ, ʃ#, ɹ(4), ɹ#, l(5), t, t, j, k(2), ŋ#(2)

i^j(2), i:#, u^w#, ɪ(5), e^j, e^j#, ə, ə#(4), ε, a(2)

Fourth Syllable Segment Stressed:

Fourth Syllable Segment Unstressed: m, əŋ#, s, s#(2), z, ʃ, ɹ, l, k#

ɪ, e^j, ə, ə#(4)

Fifth Syllable Segment Stressed:

Fifth Syllable Segment Unstressed:

Segment Total by Syllable

First Syllable Segment: #p, #p^h, p(5), #b(4), #m(4), m(5), #f, #v, v(2), #t^h, t(2), #d, d, #tʃ, #dʒ, n(1 0), əŋ, #r(2), #s(3 2), s(3), #z, #ʃ(2), #ɹ(4), ɹ(1 1), #l(7), l(3), t(4), #j, j, #k^h(1 2), #k(2), k(4), #g(4), ŋ(4), #w(4), w(1 0), #h(2)

i^j(5), ɸ^w, u^w(4), #u, u, ɪ(20), ʊ(2), e, e^j(6), o^w(5), #ə(2), ʌ(8), #ə, ə(4), #ɛ, ɛ(3), ɔ(2), #æ(2), æ(6), æ^j, a^j(4), #a(3), a(15)

Second Syllable Segment: p(5), p^h, p#(2), b(4), m(4), ɱ#(2), f(2), v(6), t(6), t^h(2), t#, t^ˈ#(2), d#(5), d^ˈ#(2), d(3), dʒ, dʒ#, n(7), n#(6), ɳ, ɳ#(4), r(3), ʈ, ʈ(2), s(4), s#(2), z#, z(7), ʃ(2), ʃ#(2), ʒ, ʒ(12), ʎ#(3), l(14), ɭ#(3), ɰ(2), ɰ#(10), j(2), k(4), k#(3), k^h, g#, g(7), w(7)

i^j#(14), i^j, ɪ(11), e^j(2), o^w, o^w#(2), ə(15), ə#, ʌ(5), ʌ#(2), ɛ(5), ɔ, ɔ^j, æ(2), a#, a^w#, a(3), ʌ^j, a(11)

Third syllable Segment: b, m, ɱ#, v, t#, t^h, d#, n(6), n#, s(4), s#(4), z, ʃ, ʃ#, ʒ(4), ʎ#, l(6), ɭ, ɭ^ˈ, j, k(2), ɳ#(2)

i^j(2), i:#, u^w#(2), ɪ(5), e^j, e^j#, ə, ə#(4), ɛ(2), a^j, a(3)

Fourth Syllable Segment: m, ɱ#s, s#(2), z, ʃ, ʒ, l, k#

ɪ, e^j, ə, ə#(4),

Fifth Syllable Segment:

Segment Stressed and Unstressed Total

Stressed Segment: #p, p(4), p^h, #b(4), b, #m(3), m(7), #f, f, #v, v(3), #t^h, t^h(3), t(2), #tʃ, dʒ#, n(12), #r(2), #s(27), s(4), #z, #ʃ(3), ʃ, ʒ, #ʎ(3), ʎ(13), ʎ#(2), #l(6), l(6), ɭ(4), ɭ#, #j, j, #k^h(12), k(4), k#, k^h, #g(3), ɳ(4), #w(3), w(11), #h

i^j(5), ɸ^w, u^w(4), u^w#, #u, u, ɪ(18), ʊ, e, e^j(7), o^w(5), #ə(2), ʌ(8), #ɛ, ɛ(5), ɔ(2), ɔ^j, #æ, æ(7), æ^j, a^j(5), #a, a(20)

Unstressed Segment: p(6), p#(2), #p^h, b(4), #m, m(4), ɱ#(4), f, v(6), t(6), t#(2), t^ˈ#(2), #d, d#(6), d^ˈ#(2), d(4), #dʒ, dʒ, n(11), n#(7), ɳ(2), ɳ#(4), r(3), ʈ, ʈ(2), #s(5), s(8), s#(8), z#, z(9), ʃ(3), ʃ#(2), #ʎ, ʎ(15), ʎ#(2), #l, l(18), ɭ, ɭ#(2), ɰ(3), ɰ#(10), j(3), #k(2), k(6), k#(3), #g, g#, g(7), ɳ#(2), #w, w(6), #h

i^j#(14), i^j(3), i:#, u^w#, ɪ(19), ʊ, e^j(3), e^j#, o^w, o^w#(2), #ə, ə(21), ə#(9), ʌ(5), ʌ#(2), ɛ(5), ɔ, #æ, æ, a#, a^w#, a(3), ʌ^j, #a(2), a(9)

Segment Total (absolute)

Narrow: #p, p(12), p#(3), #p^h, p^h, #b(4), b(5), #m(4), m(13), m#, ɱ#(4), #f(2), f(2), #v, v(9), #t, #t^h(2), t^h(3), t(8), t#(6), t^ˈ#(2), #d, d#(6), d^ˈ#(2), d(4), #tʃ, #dʒ, dʒ, dʒ#, #n, n(24), n#(9), ɳ(2), ɳ#(4), #r(2), r(3), ʈ, ʈ(2), #s(38), s(12), s#(8), #z, z#, z(9), #ʃ(5), ʃ(4), ʃ#(5), ʒ, #ʎ(5), ʎ(31), ʎ#(6), #l(7), l(26), ɭ(7), ɭ#(4), ɰ(3), ɰ#(10), #j, j(4), #k^h(12), #k(2), k^h, k(13), k#(4), #g(5), g#, g(7), ɳ(4), ɳ#(2), #w(5), w(20), #h(2)

i^j#(14), i^j(10), i, i:#, ɸ^w, #u, u, u^w(5), u^w#(2), ɪ(37), ʊ(2), e, e^j(11), e^j#, o^w(6), o^w#(2), #ə, ə(21), ə#(9), #ə(2), ʌ(14), ʌ#(2), #ɛ, ɛ(13), ɔ(3), ɔ^j, #æ(2), æ(8), æ^j(2), a a#, a^w#, a(3), ʌ^j(7), #a(3), a(31), a#

Broad: p(18), b(9), m(22), f(4), v(10), t(22), d(13), tʃ, dʒ(3), n(40), r(2), r(3), ʈ, ʈ(2), s(58), z(11), ʃ(14), ʒ, ʒ(42), l(33), ɭ(24), j(5), k(32), g(13), ɳ(6), w(25), h(2)

i(26), ɸ, u(9), ɪ(37), ʊ(2), e(13), o(8), ə(31), ʌ(18), ɛ(14), ɔ(4), æ(12), a(13), a(35)

Supra-Segments: Consonant Clusters

Consonant Cluster Total for Stressed and Unstressed Syllables and Monosyllables according to Syllable Configuration

Monosyllable Consonant Cluster Onset (all entries are word initial): #fɪ, #tɪ, #skw, #skl, #spɪ, #sp, #sw(2), #fm, #gl

Monosyllable Consonant Cluster Coda (all entries are word final): mt#, nt#, tʃ#, tɸ#, kt#

First Syllable Consonant Cluster Stressed Onset (all entries are word initial): #pr, #t^hw, #st(2), #sm(2), #skw, #skɪ, #sl(2), #sw(5), #sv, #sp, #spɪ, #fw, #k^hj, #k^hɪ(2), #k^hl, #gɪ(2)

First Syllable Consonant Cluster Stressed Coda: ɳk

First Syllable Consonant Cluster Unstressed Onset (all entries are word initial): #sp, #skw, #gɪ

First Syllable Consonant Cluster Unstressed Coda:

Second Syllable Consonant Cluster Stressed Onset: t^hɪ, skw(2), k^hl

Second Syllable Consonant Cluster Stressed Coda: ndʒ#

Second Syllable Consonant Cluster Unstressed Onset: tʲ(2), kw, gʲ

Second Syllable Consonant Cluster Unstressed Coda: nd#, ʈd#

Third Syllable Consonant Cluster Stressed Onset:

Third Syllable Consonant Cluster Stressed Coda:

Third Syllable Consonant Cluster Unstressed Onset:

Third Syllable Consonant Cluster Unstressed Coda:

Fourth Syllable Consonant Cluster Stressed Onset:

Fourth Syllable Consonant Cluster Stressed Coda:

Fourth Syllable Consonant Cluster Unstressed Onset:

Fourth Syllable Consonant Cluster Unstressed Coda:

Fifth Syllable Consonant Cluster Stressed Onset:

Fifth Syllable Consonant Cluster Stressed Coda:

Fifth Syllable Consonant Cluster Unstressed Onset:

Fifth Syllable Consonant Cluster Unstressed Coda:

Consonant Cluster Total for Stressed and Unstressed Onsets and Codas

Stressed Onset: #pr, #tʰw, tʰʲ, #st(2), #sm(2), #skw, skw(2), #skʲ, #sl(2), #sw(5), #sv, #sp, #spʲ, #fw, #kʰj, #kʰʲ(2), #kʰʲ, kʰʲ, #gʲ(2)

Stressed Coda: ndʒ#, ŋk

Unstressed Onset: tʲ(2), #sp, #skw, kw, gʲ, #gʲ

Unstressed Coda: nd#, ʈd#

Consonant Cluster Total for Onsets and Codas

Onset: #pr, #fʲ, #tʰw, #tʲ, tʲ(2), tʰʲ, #st(2), #sm(2), #skw(3), skw(2), #skʲ, #sl(2), #skʲ, #sw(7), #sv, #sp(3), #spʲ(2), #fw, #fm, #kʰj, #kʰʲ(2), #kʰʲ, kʰʲ, kw, #gl, gʲ, #gʲ(3)

Coda: mt#, nt#, nd#, ndʒ#, ʈf#, ʈp#, ʈd#, kt#, ŋk

Consonant Cluster Total for Stressed and Unstressed Syllables and Monosyllables

Monosyllable Consonant Cluster: mt#, #fʲ, #tʲ, nt#, #skw, #skʲ, #spʲ, #sp, #sw(2), #fm, ʈf#, ʈp#, kt#, #gl

First Syllable Consonant Cluster Stressed: #pr, #tʰw, #st(2), #sm(2), #skw, #skʲ, #sl(2), #sw(5), #sv, #sp, #spʲ, #fw, #kʰj, #kʰʲ(2), #kʰʲ, #gʲ(2), ŋk

First Syllable Consonant Cluster Unstressed: #sp, #skw, #gʲ

Second Syllable Consonant Cluster Stressed: tʰʲ, ndʒ#, skw(2), kʰʲ

Second Syllable Consonant Cluster Unstressed: tʲ(2), nd#, ʈd#, kw, gʲ

Third Syllable Consonant Cluster Stressed:

Third Syllable Consonant Cluster Unstressed:

Fourth Syllable Consonant Cluster Stressed:

Fourth Syllable Consonant Cluster Unstressed:

Fifth Syllable Consonant Cluster Stressed:

Fifth Syllable Consonant Cluster Unstressed:

Consonant Cluster Total per Syllable

First Syllable Consonant Cluster: #pr, #tʰw, #st(2), #sm(2), #skw(2), #skʲ, #sl(2), #sw(5), #sv, #sp(2), #spʲ, #fw, #kʰj, #kʰʲ(2), #kʰʲ, #gʲ(3), ŋk

Second Syllable Consonant Cluster: tʰʲ, tʲ(2), ndʒ#, nd#, skw(2), ʈd#, kʰʲ, kw, gʲ

Third Syllable Consonant Cluster:

Fourth Syllable Consonant Cluster:

Fifth Syllable Consonant Cluster:

Consonant Cluster Stressed and Unstressed Total

Consonant Cluster Stressed: #pr, #t^hw, t^hɹ, ndʒ#, #st(2), #sm(2), #skw, skw(2), #skɹ, #sl(2), #sw(5), #sv, #sp, #spɹ, #fw, #k^hj, #k^hɹ(2), #k^hl, k^hl, #gɹ(2), ŋk

Consonant Cluster Unstressed: tɹ(2), nd#, #sp, #skw, tɹd#, kw, #gɹ, gɹ

Consonant Cluster Total (absolute)

Narrow: #pr, mt#, #fɹ, #t^hw, #tɹ, tɹ(2), t^hɹ, ndʒ#, nt#, nd#, #st(2), #sm(2), #skw(2), skw(3), #skɹ, #skl, #sl(2), #sw(7), #sv, #sp(3), #spɹ(2), #fw, #fm, tʃ#, tɹp#, tɹd#, #k^hj, #k^hɹ(2), #k^hl, kt#, kw, #gl, #gɹ(3), gɹ, ŋk

Broad: pr, mt, fɹ, tw, tɹ(4), ndʒ, nt, nd, st(2), sm(2), skw(5), skɹ, skl, sl(2), sw(7), sv, sp(3), spɹ(2), fw, fm, tʃ, tɹp, tɹd, kj, kɹ(2), kl(2), kt, kw, gl, gɹ(4), ŋk

Supra-Segments: Whole Syllables

Whole Syllable Total for Stressed and Unstressed Syllables and Monosyllables

Monosyllable Whole Syllable:

#trin#, #fmiⁱt#, #gliⁱɹ#,
#sklu^wkt#,
#neⁱf#,
#spæɹ#,
#fɹet#, #swetp#, #ɹɛf#,
#wæⁱmt#,
#t^haⁱm#, #fan#,
#skwatʃ#, #spɹa#, #swant#,

First Syllable Whole Syllable Stressed (all entries are word initial):

#fiⁱ, #ziⁱ, #k^hiⁱ, #gɹiⁱ,
#sθ^w,
#u, #bu^w, #ru, #stu^w, #ɹu^w, #k^hju^w,
#bɹ(2), #vɹ, #spɹ, #swɹ, #sɹɹ, #svɹ, #stɹt, #skɹɹm, #sɹn, #skwɹ, #ɹɹ, #k^hɹɹ, #k^hɹɹn,
#juɹ,
#pre, #meⁱ, #seⁱ, #seⁱŋk, #spɹeⁱ, #sweⁱ, #k^heⁱn,
#so(2), #ɹo^w, #lo^w(2),
#æ, #æv, #smæ, #sæ, #fæ, #læ, #wæ, #wæt,
#ɛs, #t^hwɛn, #swet, #lɛn,
#smɔɹ,
#æ, #slæ, #swæⁱn, #fwæ, #læ, #gæs, #gæŋ, #gɹæ,
#slaⁱ, #saⁱ(2), #haⁱ,
#aŋ, #ba, #ma, #tʃap, #swam, #swap, #laɹ, #k^ham, #k^hlat, #k^han(3), #k^ha, #wa

First Syllable Whole Syllable Unstressed (all entries are word initial):

#ɹiⁱ,
#mɹ, #dɹs, #skwid, #lɹ, #gɹɹ,
#dʒu,
#ə, #sə(3), #k^əŋ, #wə,
#spæ, #hæ,
#p^hɔɹ,
#æ,
#a, #an, #ma, #ka

Second Syllable Whole Syllable Stressed:

k^hliⁱ,
t^hɹɹn, ɹɹ, ɹɹf,
veⁱ,

skwə, wək#,
 ʃɛt#,
 pʰɔɪ#, ʒɔɪ,
 ɹæ,
 bɑf#, mɑ, tʰɑ, sɑɪ#, lɑndʒ#

Second Syllable Whole Syllable Unstressed:

iɪ#, piɪ#(4), biɪ#, viɪ#, tiɪ#, ðiɪ#, ziɪ#, liɪ#(2), kiɪ#, wiɪ#,
 vɪs#, tɪɪp#, dɪn#, rɪk#, zɪg#, lɪn#, lɪn#, lɪ,
 gɹeɪn#,
 poʷ, zoʷ#, goʷ#,
 bɔɪ, bɔɪ#, mɑ, mɑn, mɑt#, vɑn#, vɑ(2), tɑm#, tɑn#, tɑdʷ#, tɹæp#, dɔɪd#, nɑ#, rɔɪt#(2), sɑdʷ#, zɔɪt#(4), ʃɑn#, ɹæs#, ɹɔɪt#, ɹə, ɹæd#, lə, lət#, jə, kɑnɪ#,
 kwə, gə, gɑn#, gɔɪt#,
 nɑ, ðɑ, ðɑ#, lɑ#, gɑ,
 ɛz#, lɛ, lɛd#, jɛtʷ#, wɛt#,
 fænd#,
 dɑ, nɑ#, sɑɪd#, ɹɑʷ#, gɑf#, wɑn#,
 ɑk#, dʒɑɪ#, nɑtʷ#, lɑn#, lɑ, wɑt#

Third Syllable Whole Syllable Stressed:

muʷ#,
 steɪ,
 tʰɛ,
 nɑɪ,
 lɑ

Third Syllable Whole Syllable Unstressed:

siɪ, ziɪ, liɪ#,
 ɹuʷ#,
 bɪn#, vɪ, nɪs#, lɪn#, lɪn#,
 keɪ#,
 nɑ#(3), sɑnɪ#(2), ʃæs#, ɹɔɪd#, ɹə#, ləs#, jə, kəs#,
 ɹɛst#,
 nɑf#, lɑɪ#

Fourth Syllable Whole Syllable Stressed:

Fourth Syllable Whole Syllable Unstressed:

ʃɪs#,
 meɪk#,
 ə#(2), zə#, ɹəs#, lə#

Fifth Syllable Whole Syllable Stressed:

Fifth Syllable Whole Syllable Unstressed:

Whole Syllable Total per Syllable

First Syllable Whole Syllable (all entries are word initial):

#fiɪ, #ziɪ, #ɹɪɪ, #kʰɪɪ, #gɹɪɪ,
 #sɹɹʷ,
 #u, #buʷ, #ru, #stuʷ, #ɹuʷ, #kʰjuʷ,
 #bɪ(2), #mɪ, #vɪ, #dɪs, #spɪ, #swɪ, #sɪn, #svɪ, #stɪɪ, #skɹɪm, #skwɪd, #sɪn, #skwɪ, #ɹɪ, #lɪ, #kʰɪɪ, #kʰɪɪ, #kʰɪɪn, #gɹɪ,
 #dʒɹ, #juɹ,
 #pre, #meɪ, #seɪ, #seɪnɪk, #spɹeɪ, #sweɪ, #kʰeɪn,
 #so(2), #ɹoʷ, #lɔʷ(2), #ə, #sə(3), #kɑn, #wə,
 #ɑ, #əv, #smɑ, #sɑ, #spɑ, #ʃɑ, #lɑ, #wɑ, #wɑɪ, #hɑ,
 #ɛs, #tʰwɛn, #swɛt, #lɛn,
 #pʰɔɪ, #smɔɪ,
 #æ(2), #slæ, #swæɪn, #fwæ, #læ, #gæs, #gæɪ, #gɹæ,
 #slɑɪ, #sɑɪ(2), #hɑɪ,

#a, #an, #aŋ, #ba, #ma(2), #tʃap, #swam, #swap, #laɪ, #ka, #kʰa, #kʰam, #kʰlaʔ, #kʰan(3), #wa

Second Syllable Whole Syllable:

iʲ#, piʲ#(4), biʲ#, viʲ#, tiʲ#, ʈiʲ#, ziʲ#, liʲ#(2), kiʲ#, kʰliʲ, wiʲ#,
vis#, tʲip#, tʰɪn, dɪn#, ɾɪk#, zɪg#, ɹɪ, ɹɪf, lɪn#, lɪn#, lɪ,
veʲ, gɹeʲn#,
poʷ, zoʷ#, goʷ#,
bɔʔ, bɔʔ#, mə, mɔŋ, mɔʔ#, vɔŋ#, və(2), tɔm#, tɔŋ#, tədʷ#, tʲəp#, dɔʔd#, nə#, ɾɔʔ#(2), sədʷ#, zɔʔ#(4), ʃɔŋ#, ɹəs#, ɹɔʔ#, ɹə, ɹəd#, lə, lət#, jə, kɔŋ#,
kwə, gə, ɡɔŋ#, ɡɔʔ#,
nə, ʈə, ʈə#, skwə, lə#, ɡə, wək#,
ɛz#, ʃɛʔ#, lɛ, lɛd#, jɛʔ#, wɛʔ#,
pʰɔɹ#, ʒɔʲ,
fænd#, ɹæ,
da, na#, saʲd#, ɹaʷ#, ɡaʃ#, wan#,
ak#, baʃ#, ma, tʰa, dʒaɹ#, natʷ#, saɹ#, lan#, landʒ#, la, waʔ#

Third Syllable Whole Syllable:

siʲ, ziʲ, li:ʃ,
muʷ#, ɹuʷ#,
bɪŋ#, vɪ, nis#, lɪŋ#, lɪn#,
steʲ, keʲ#,
nə#(3), sɔŋ#(2), ʃəs#, ɹɔʔd#, ɹə#, ləs#, jə, kəs#,
tʰɛ, ɹɛst#,
naʲ,
naʃ#, la, laɹ#

Fourth Syllable Whole Syllable:

ʃɪs#,
meʲk#,
ə#(2), zə#, ɹəs#, lə#

Fifth Syllable Whole Syllable:

Whole Syllable Stressed and Unstressed Total

Whole Syllable Stressed:

fiʲ, #ziʲ, #kʰiʲ, kʰliʲ, #ɡɹiʲ,
#sɥʷ,
#u, #buʷ, muʷ#, #ru, #ɹuʷ, #stuʷ, #kʰjuʷ,
#bɪ(2), #vɪ, tʰɪn, #spi, #swɪ, #sɪŋ, #svɪ, #stɪʔ, #skɪɪm, #sɪn, #skwɪ, #ɹɪ, ɹɪ, ɹɪf, #kʰɪɪ, #kʰɪ, #kʰɪn,
#jɹɪ,
#pre, #meʲ, veʲ, #seʲ, #seʲŋk, #spɹeʲ, #sweʲ, steʲ, #kʰeʲn,
#so(2), #ɹoʷ, #loʷ(2),
#ə, #əv, #smə, #sə, skwə, #ʃə, #lə, #wə, #wəʔ, wək#,
#ɛs, #tʰwɛn, tʰɛ, #swɛʔ, ʃɛʔ#, #lɛn,
pʰɔɹ#, #smɔɹ, ʒɔʲ,
#æ, #slæ, #swæʲn, #ʃwæ, #læ, ɹæ, #ɡæs, #ɡæŋ, #ɡɹæ,
naʲ, #slaʲ, #saʲ(2), #haʲ,
#aŋ, #ba, baʃ#, ma, #ma, tʰa, #tʃap, saɹ#, #swam, #swap, la, #laɹ, landʒ#, #kʰam, #kʰlaʔ, #kʰan(3), #kʰa, #wa

Whole Syllable Unstressed:

iʲ#, piʲ#(4), biʲ#, viʲ#, tiʲ#, ʈiʲ#, ziʲ, ɹiʲ, #ɹiʲ, li:ʃ, liʲ#(2), kiʲ#, wiʲ#,
ɹuʷ#,
bɪŋ#, #mɪ, vɪ, vis#, tʲip#, dɪn#, #dɪs, nis#, ɾɪk#, #skwɪd, zɪg#, ʃɪs#, lɪn#(3), lɪŋ#, lɪ, #lɪ, #ɡɹɪ,
#dʒɹ,
meʲk#, keʲ#, gɹeʲn#,
poʷ, zoʷ#, goʷ#,
ə#(2), #ə, bɔʔ, bɔʔ#, mə, mɔŋ, mɔʔ#, vɔŋ#, və(2), tɔm#, tɔŋ#, tədʷ#, tʲəp#, dɔʔd#, nə#(4), ɾɔʔ#(2), sədʷ#, sɔŋ#(2), #sə(3), zə#, zɔʔ#(4), ʃɔŋ#, ʃəs#,
ɹəs#(2), ɹɔʔ#, ɹɔʔd#, ɹə#, ɹə, ɹəd#, lə, lə#, lət#, ləs#, jə(2), kɔŋ#, kəs#, kwə, #kɔŋ, gə, ɡɔŋ#, ɡɔʔ#, #wə,
nə, ʈə, ʈə#, #spə, lə#, ɡə, #hə,

ɛz#, ʌɛst#, lɛ, lɛd#, jɛtʰ#, wɛtʰ#,
 #pʰɔɹ,
 #æ, fænd#,
 da, na#, saʰd#, ʌw#, gaʃ#, wan#,
 ak#, #a, #an, #ma, dʒaɹ#, natʰ#, naʃ#, lan#, la, laɹ#, #ka, waʔ#

Whole Syllable Total (absolute)

Narrow:

iʰ#, piʰ#(4), biʰ#, viʰ#, tiʰ#, #trin#, ðiʰ#, siʰ, ziʰ#, ziʰ, #ziʰ, #fmiʰ#, #ɹiʰ, liʰ#, liʰ#(2), kiʰ#, #kʰiʰ, kʰliʰ, #gliʰɹ#, #gɹiʰ, wiʰ#,
 #sʊwʰ,
 #u, #buwʰ, muwʰ, #ru, #ɹuʰ, #stuʰ, #skluʰkt#, #kʰjuʰ, ɹuʰ#,
 #bi(2), bɪŋ#, #mi, vi, #vi, viʃ#, tɪp#, tʰɪn, dɪn#, #dis, nis#, rɪk#, #skwid, #spi, #swɪ, #sɪŋ, #svɪ, #striʰ, #skɹɪm, #sɪn, #skwi, zig#, ʃɪs#,
 #ɹɪ, ɹɪ, ɹɪf, lɪn#(3), lɪŋ#, lɪ, #li, #kʰɹɪ, #kʰɪ, #kʰɹɪn, #gɹɪ,
 #dʒʊ, #jʊɹ,
 #pre, meʰk#, #meʰ, veʰ, #neʰʃ#, #seʰ, #seʰŋk, #spɹeʰ, #sweʰ, steʰ, keʰ#, #kʰeʰn, gɹeʰn#,
 poʰ, #so(2), zoʰ#, #ɹoʰ, #loʰ(2), goʰ#,
 ə#(2), bʰəʔ, bʰəʔ#, mə, mʰəŋ, mʰəʔ#, vʰəŋ#, və(2), tʰəm#, tʰəŋ#, tədʰ#, tɹəp#, dʰədʰ#, nə#(4), rʰəʔ#(2), sədʰ#, sʰəŋ#(2), #sə(3), zə#, zʰəʔ#(4), ʃʰəŋ#, ʃəs#,
 ɹəs#(2), ɹʰəʔ#, ɹʰəʔd#, ɹə#, ɹə, ɹədʰ#, lə, lə#, lətʰ#, ləs#, jə(2), kʰəŋ#, kəs#, kwə, #kʰəŋ, gə, gʰəŋ#, gʰəʔ#, #wə,
 #ə, #əv, nə, ðə#, ðə#, #spə, #spəɹ#, #smə, #sə, skwə, #ʃə, lə#, #lə, gə, #wə, #wəʔ, wək#, #hə,
 #ɛs, ɛz#, #ʃɹɛt#, #tʰwɛn, tʰɛ, #swɛʔp#, #swɛʔ, ʃɛʔ#, #ɹɛʃ#, ɹɛst#, lɛ, lɛd#, #lɛn, jɛtʰ#, wɛtʰ#,
 #pʰɔɹ, pʰɔɹ#, #smɔɹ, ʒɔʰ,
 #æ(2), fænd#, #slæ, #swæɹn, #ʃwæ, #læ, ɹæ, #gæs, #gæŋ, #gɹæ, #wæɹmt#,
 #tʰaɹm#, da, na#, naʰ, #slaʰ, #saʰ(2), saʰd#, #ʃan#, ʌw#, gaʃ#, wan#, #haʰ,
 ak#, #a, #an, #aŋ, #ba, baʃ#, ma, #ma(2), tʰa, #tʃap, dʒaɹ#, natʰ#, naʃ#, #skwaʔʃ#, #spɹa#, #swant#, saɹ#, #swam, #swap, lan#, la(2),
 laɹ#, #laɹ, landʒ#, #ka, #kʰam, #kʰlaʔ, #kʰan(3), #kʰa, #wa, waʔ#

Broad:

i, pi(4), bi, vi, ti, trin, ði, si, zi(3), fmiʔ, ɹi, li(3), ki(2), kli, gliɹ, gɹi, wi,
 sʊ,
 u, bu, mu, ru, stu, sklukt, ɹu(2), kju,
 bi(2), bɪŋ, mi, vi(2), viʃ, tɪp, tɪn, dɪn, dis, nis, rɪk, skwid, spi, swɪ, sɪŋ, svɪ, striʰ, skɹɪm, sɪn, skwi, zig, ʃɪs, ɹɪ(2), ɹɪf, lɪn(3), lɪŋ, lɪ(2), kɹɪ,
 kɪ, kɹɪn, gɹɪ,
 dʒʊ, jʊɹ,
 pre, mek, me, ve, neʃ, se, seŋk, spɹe, swe, ste, ke, ken, gɹen,
 po, so(2), zo, ɹo, lo(2), go,
 ə(3), bʰəʔ(2), mə, mʰəŋ, mʰəʔ, vʰəŋ, və(2), tʰəm, tʰəŋ, təd, tɹəp, dʰəd, nə(4), rʰəʔ(2), səd, sʰəŋ(2), sə(3), zə, zʰəʔ(4), ʃʰəŋ, ʃəs, ɹəs(2), ɹʰəʔ, ɹʰəʔd, ɹə(2), ɹəd,
 lə(2), lət, ləs, jə(2), kʰəŋ, kəs, kwə, kʰəŋ, gə, gʰəŋ, gʰəʔ, wə,
 ə, əv, nə, ðə(2), spə, spəɹ, smə, sə, skwə, #ʃə, lə(2), gə, wə, wəʔ, wək, hə,
 ɛs, ɛz, ʃɹɛt, twɛn, tɛ, swɛʔp, swɛʔ, ʃɛʔ, ɹɛʃ, ɹɛst, lɛ, lɛd, lɛn, jɛt, wɛʔ,
 pɔɹ(2), smɔɹ, ʒɔ,
 æ(2), fænd, slæ, swæn, ʃwæ, læ, ɹæ, gæs, gæŋ, gɹæ, wæmt,
 tam, da, na(2), sla, sa(2), sad, ʃan, ɹa, gaʃ, wan, ha,
 ak, a, an, aŋ, ba, baʃ, ma, ma(2), ta, tʃap, dʒaɹ, nat, naʃ, skwaʔʃ, spɹa, swant, saɹ, swam, swap, lan, la(2), laɹ(2), landʒ, ka, kam, klaʔ,
 kan(3), ka, wa, waʔ

Supra-Segments: Whole Words

Whole Word Total per Word Length

Whole Monosyllables:

treen [trin], shahn [ʃan], skloot [skluʰkt], naysh [neʰʃ], fret [fɹɛt], time [tʰaɹm], skwahlsh [skwaʔʃ], sprah [spɹa], wampt [wæɹmt],
 resh [ɹɛʃ], swahnt [swant], gleer [gliʰɹ], swelp [swɛʔp], shmeel [ʃmiʰ], spuhr [spəɹ] (schwa raised)

Whole Bisyllables:

KRIHNduld [ʰkʰɹɪn · dʰɹd], STOOpee [ʰstuʰ · piʰ], YURlee [ʰjʊɹ · liʰ], SAYvis [ʰseʰ · viʃ], WHURtul [ʰwə · rʰəʔ], WURLside [ʰwəʔ · saʰd],
 SKWIHtul [ʰskwi · rʰəʔ], ROOwahn [ʰru · wan], RIHzul [ʰɹɪ · zʰəʔ], KAHzul [ʰkʰa · zʰəʔ], SLYthee [ʰslaʰ · ðiʰ], TWENtee [ʰtʰwɛn · tiʰ],
 WAHlin [ʰwa · lɪn], SLADik [ʰslæ · rɪk], SOHfand [ʰsoʰ · fænd], KHANjahr [ʰkʰan · dʒaɹ], SWIHtrip [ʰswɪ · tɪp], KYOUzee

['k^hju^w·zi^j], LOWgrain ['lo^w·gje^jn], SURee ['sə·i^j], SHWAZul ['fwæ·zə^ʔ], LARuhd ['læ·ɹəd], GRASSuhd ['gɹæ·səd^ʔ], SYlahn ['sa^j·lan], SMORguhn ['smɔɹ·gə^ŋ], SWAYez ['swe^j·ɛz], SINGkee ['sɪŋ·ki^j], AHNGyet ['aŋ·jɛt^ʔ], ROWvuhn ['ɹo^w·və^ŋ], SWELkuhm ['swɛ^ʔ·kə^ŋ], BIHzo ['bɪ·zo^w], SVIHzul ['svɪ·zə^ʔ], SWAHMbee ['swam·bi^j], SWANTuhd ['swæ^jn·təd^ʔ], PRAYnah ['pre·na], KAHNled ['k^han·led], KAHNtruhp ['k^han·tɹəp], LAHRgow ['laɹ·go^w], STILdin ['stɪ^ʔ·dɪn], SAIyahk ['sa^j·ak], SMURthur ['smə^ə·ðə^ʔ], KRIHpee ['k^hɹɪ·pi^j], SHURwell ['ʃə·wɛ^ʔ], MAHrul ['ma·ɹə^ʔ], FEEmuhl ['fi^j·mə^ʔ], ESSwall ['ɛs·wa^ʔ], SOwee ['so·wi^j], ZEEvee ['zi^j·vi^j], KIHpee ['k^hi·pi^j], LURlee ['lə·li^j], ROObul ['ɹu^w·bə^ʔ], GASnuh ['gæs·nə], KEErow ['k^hi^j·ɹə^w], GRENaht ['gɹi^j·nat^ʔ], URVlin ['əv·lɪn], SIHNtum ['sɪn·təm], KANEpee ['k^he^jn·pi^j], SANKtun ['se^jŋk·tə^ŋ], URGul ['ə·gə^ʔ], SWAHPshun ['swap·ʃə^ŋ], SOOgahsh ['sə^w·gaʃ], VIHzig ['vi·zɪg], BIHlut ['bɪ·lət], SPRAYlur ['spɹe^j·lə], CHAHprus ['tʃap·ɹəs]

grihSAHR [gɹɪ·'saɹ], suhWURK [sə·'wə^ək], porPOR [p^hɔɹ·'p^hɔɹ], wuhSHELL [wə·'ʃɛ^ʔ], mihLAHNge [mɪ·'landʒ], ahBAHSH [ə·'baʃ]

Whole Trisyllables:

LOWthursuhm ['lo^w·ðə^ə·sə^ŋ], Anurest ['æ·nə^ə·ɹɛst], GANgurleng ['gæŋ·gə^ə·lɪŋ], MAYvuhlahr ['me^j·və^ə·laɹ], KAHMBulnahsh ['k^ham·bə^ʔ·naʃ], SKRIMyuhlus ['skɹɪm·jə^ə·ləs], HYponis ['ha^j·po^w·nɪs], KLAHLMuhlin ['k^hlɑ^ʔ·mə^ə·lɪn], BAHluhkay ['ba·lə^ə·ke^j], OOvuhn [u·və^ə·nə], SPIHlihuks ['spɪ·li·kəs], LENDahlee ['lɛn·da·li:],

kuhnSKWURuld [kə^ŋ·'skwə^ə·ɹə^ʔd], uhVAYbeeng [ə·'ve^j·bɪŋ], reeMAHruh [ɹi^j·'ma·ɹə], suhRANnuh [sə·'ɹæ·nə], skwidTAHroo [skwid·'t^hɑ·ɹu^w], huhRIHFnuh [hə^ə·'ɹɪf·nə], spurRIHshus [spə^ə·'ɹɪ·ʃəs],

kahlahMOO [ka·la·'mu^w]

Whole Tetrasyllables:

BOOguhvihluh ['bu^w·gə^ə·vɪ·lə],

ahnZHOYyuhmake [ən·'zɔ^j·jə^ə·me^jk], suhKLEEzeeuh [sə·'k^hli^j·zi^j·ə], disTRIHNseeuh [dɪs·'t^hɹɪn·si^j·ə],

aluhSTAYshus [æ·le·'ste^j·ʃɪs], likwuhNYzuh [li·kwə^ə·'na^j·zə], juruhLAHsum [dʒu·ɹə·'la·sə^ŋ], mahmunTEHrus [ma·mə^ŋ·'t^hɛ·ɹəs]

Whole Pentasyllables:



Question ID: e.

Segments

Segment Total for Stressed and Unstressed Syllables and Monosyllables according to Syllable Configuration

Monosyllable Onset: #p^h(2), p(2), #f, #t^h(2), #s(3), #ɹ, ɹ(4), #l, l(3), #k^h(3), #k, k, w, #h

Monosyllable Nucleus: iⁱ#, iⁱ(2), o^w, æ(2), aⁱ#, a^w, a(6), a#

Monosyllable Coda: p#, m#, t#, t^h#, d^h#, d#(2), dʒ, s#, ʃ#, ɹ(2), k, k#(2), g#

First Syllable Segment Stressed Onset: #p^h(7), #b(7), #m(5), #f(4), #v, #t^h(5), #d(4), #tʃ, #dʒ, r, #s(4), #ʒ, #ɹ(6), ɹ(9), #l(3), l(4), j(3), #k(3), #k^h(6), k(2), #g(4), #w(3), w(2)

First Syllable Segment Stressed Nucleus: i, iⁱ, #u^w, u^w(6), ɪ(10), ʊ, eⁱ(3), o^w(2), ə(4), #ə, ε(3), ʌ(3), ɔ, ɔⁱ, æ(5), aⁱ(3), a(2), #a, a(16), a:

First Syllable Segment Stressed Coda: m(5), t, d(2), n(6), r, ɹ(6), t(2), k(6), k^h, g, ɳ

First Syllable Segment Unstressed Onset: #p(2), #p^h, #b(2), #m(3), #f, #v(2), #t, t(2), #d(2), #n, #s, #z, #ɹ, ɹ(2), #l, #k(2), #k^h(5), #w, w(2)

First Syllable Segment Unstressed Nucleus: i, ɪ(7), o, o^w(2), #ə, ə(10), ə, ε, εⁱ, æ, aⁱ, #a, a(3)

First Syllable Segment Unstressed Coda: m(2), s, ɹ(2), t, ɳ(2),

Second Syllable Segment Stressed Onset: p^h(2), b(3), m, f, t^h(4), d(2), n, s, z, ɹ(7), l(4), j, k^h(2), g(2)

Second Syllable Segment Stressed Nucleus: iⁱ, iⁱ#, u^w, ɪ(2), eⁱ(3), o^w(2), o^w#, ε(3), εⁱ, ʌ, ɔ, æ(3), aⁱ#, a(7)

Second Syllable Segment Stressed Coda: f#, d^h#, d#, dʒ#, n(5), n#(2), s, ɹ(3), ɹ#(2), t, k(2), ɳ

Second Syllable Segment Unstressed Onset: p(2), p^h(2), b(3), m(2), f, t(10), d(6), n(6), r(5), ʃ, s(8), z(3), ʃ, ɹ(7), l(5), j, k(7), k^h, g(5), ɣ, w(4)

Second Syllable Segment Unstressed Nucleus: iⁱ(2), iⁱ#, u^w#, ɪ(9), eⁱ, o^w(2), o^w(2), o^w#, ə(11), ə#, əɳ, əɳ#(3), əɳ, əɳ#(4), əɳ#(3), ə(4), ə#(3), ε, ɔ, ɔⁱ, aⁱ#, a(10)

Second Syllable Segment Unstressed Coda: p#, f#, t^h#, t#(4), tʃ, n(2), n#(4), θ#, s#(2), ɹ#, l#, k(3), k^h#, k#(5), ɳ, ɳ#

Third Syllable Segment Stressed Onset: t^h, ɹ

Third Syllable Segment Stressed Nucleus: ɔⁱ, æ

Third Syllable Segment Stressed Coda: n

Third Syllable Segment Unstressed Onset: p, b, f(3), t(6), d(3), tʃ, n(4), r(2), s, z(3), ʃ, ɹ, l(4), k

Third Syllable Segment Unstressed Nucleus: iⁱ(2), u^w#, ɪ(6), eⁱ, eⁱ#, o^w, o^w#, ə(5), ə#(2), əɳ(2), əɳ, əɳ#, əɳ#, ə, ε(2), aⁱ(2), a, a#

Third Syllable Segment Unstressed Coda: m#, t#(2), t^h#, dʒ#, n#(4), s#(3), z#, ɹ#, k#(2)

Fourth Syllable Segment Stressed Onset:

Fourth Syllable Segment Stressed Nucleus:

Fourth Syllable Segment Stressed Coda:

Fourth Syllable Segment Unstressed Onset: f, dʒ, r(2), z, l, k

Fourth Syllable Segment Unstressed Nucleus: ɪ, ə, ə#(2), əɳ, ə#, ɔⁱ, aⁱ#,

Fourth Syllable Segment Unstressed Coda: d#, s#

Fifth Syllable Segment Stressed Onset:

Fifth Syllable Segment Stressed Nucleus:

Fifth Syllable Segment Stressed Coda:

Fifth Syllable Segment Unstressed Onset: n

Fifth Syllable Segment Unstressed Nucleus: eⁱ

Fifth Syllable Segment Unstressed Coda: t^h#,

Segment Total for Stressed and Unstressed Onsets and Codas

Stressed Onset: #p^h(7), p^h(2), #b(7), b(3), #m(5), m, #f(4), f, #v, #t^h(5), t^h(5), #d(4), d(2), #tʃ, #dʒ, n, r, #s(4), s, z, #ʒ, #ɹ(6), ɹ(17), #l(3), l(8), j(4), #k(3), #k^h(6), k^h(2), k(2), #g(4), g(2), #w(3), w(2)

Stressed Coda: m(5), f#, t, d(2), d^ː#, d#, dʒ#, n(12), n#(2), s, r, ɹ(9), ɹ#(2), t(3), k(8), k^ː, g, ŋ(2)

Unstressed Onset: #p(2), #p^h, p(3), p^h(2), #b(2), b(4), #m(3), m(2), #f, f(5), #v(2), #t, t(18), #d(2), d(9), ts, dʒ, #n, n(11), r(9), ʔ, #s, s(9), #z, z(7), ʃ(2), #ɹ, ɹ(10), #l, l(10), j, #k(2), #k^h(5), k(9), k^h, g(5), ɣ, #w, w(6)

Unstressed Coda: p#, m(2), m#, f#, t^ːh(3), t#(6), d#, ts, dʒ#, n(2), n#(8), θ#, s, s#(6), z#, ɹ(2), ɹ#(2), l#, t, k(3), k^ːh, k#(7), ŋ(3), ŋ#

Segment Total for Onsets and Codas

Onset: #p(2), #p^h(10), p^h(4), p(5), #b(9), b(7), #m(8), m(3), #f(6), f(6), #v(3), #t, #t^h(7), t^h(5), t(18), #d(6), d(11), ts, #tʃ, #dʒ, dʒ, #n, n(12), r, r(9), ʔ, #s(8), s(10), #z, z(8), #ʒ, ʃ(2), #ɹ(8), ɹ(31), #l(5), l(21), j(5), #k(6), #k^h(14), k^h(3), k(12), #g(4), g(7), ɣ, #w(4), w(9), #h

Coda: p#(2), m(7), m#(2), f#(2), t, t^ːh(4), t#(7), d(2), d^ːh(2), d#(4), ts, dʒ, dʒ#(2), n(14), n#(10), θ#, s(2), s#(7), z#, ʃ#, r, ɹ(13), ɹ#(4), l#, t(4), k(12), k^ːh, k^ː, k#(9), g, g#, ŋ(5), ŋ#

Segment Total for Stressed and Unstressed Syllables and Monosyllables

Monosyllable Segment: #p^h(2), p(2), p#, m#, #f, #t^h(2), t#, t^ːh, d^ːh, d#(2), dʒ, s#, #s(3), ʃ#, #ɹ, ɹ(6), #l, l(3), #k^h(3), #k, k(2), k#(2), g#, w, #h

i^j#, i^j(2), o^w, æ(2), a^j#, a^w, a(6), a#

First Syllable Segment Stressed: #p^h(7), #b(7), #m(5), m(5), #f(4), #v, t, #t^h(5), #d(4), d(2), #tʃ, #dʒ, n(6), r(2), #s(4), #ʒ, #ɹ(6), ɹ(15), #l(3), l(4), t(2), j(3), #k(3), #k^h(6), k(8), k^ː, #g(4), g, ŋ, #w(3), w(2)

i, i^j, #u^w, u^w(6), ɪ(10), ʊ, e^j(3), o^w(2), ʌ(4), #æ, ε(3), ʌ(3), ɔ, ɔ^j, æ(5), a^j(3), a(2), #a, a(16), a:

First Syllable Segment Unstressed: #p(2), #p^h, #b(2), #m(3), m(2), #f, #v(2), #t, t(2), #d(2), #n, #s, s, #z, #ɹ, ɹ(4), #l, t, #k(2), #k^h(5), ŋ(2), #w, w(2)

i, ɪ(7), o, o^w(2), #ə, ə(10), ʌ, ε, e^j, æ, a^j, #a, a(3)

Second Syllable Segment Stressed: p^h(2), b(3), m, f, f#, t^h(4), d(2), d^ːh, d#, dʒ#, n(6), n#(2), s(2), z, ɹ(10), ɹ#(2), l(4), t, j, k^h(2), k(2), g(2), ŋ

i^j, i^j#, u^w, ɪ(2), e^j(3), o^w(2), o^w#, ε(3), ε^j, ʌ, ɔ, æ(3), a^j#, a(7)

Second Syllable Segment Unstressed: p(2), p^h(2), p#, b(3), m(2), əŋ#(3), f, f#, t(10), t^ːh, t#(4), d(6), ts, n(8), n#(4), əŋ, əŋ#(3), r(5), θ#, ʔ, s(8), s#(2), z(3), ʃ, ɹ(7), ɹ#, l(5), l#, ʔ, ʔ#(4), j, k(10), k^h, k^ːh, k#(5), g(5), ŋ, ŋ#, ɣ, w(4)

i^j(2), i^jh(6), u^w#, ɪ(9), e^j, o#(2), o^w(2), o^wh(4), ə(11), ə#, ʌ(4), ʌ#(3), ε, ɔ, ɔ^j, a^j#, a(10)

Third Syllable Segment Stressed: t^h, n, ɹ

ɔ^j, æ

Third Syllable Segment Unstressed: p, b, m#, əŋ#, f(3), t(6), t#(2), t^ːh, d(3), ts, dʒ#, n(4), n#(4), əŋ, əŋ#, r(2), s, s#(3), z(3), z#, ʃ, ɹ, ɹ#, l(4), ʔ#(2), k, k#(2)

i^j(2), u^w#, ɪ(6), e^j, e^j#, o^w, o^wh(2), ə(5), ə#(2), ʌ, ε(2), a^j(2), a, a#

Fourth Syllable Segment Stressed:

Fourth Syllable Segment Unstressed: f, d#, dʒ, r(2), s#, z, l, ʔ#, k

ɪ, ə, ə#(2), ʌ#, ɔ^j, a^jh

Fifth Syllable Segment Stressed:

Fifth Syllable Segment Unstressed: t^ːh, n

e^j

Segment Total by Syllable

First Syllable Segment: #p(2), #p^h(8), #b(9), #m(8), m(7), #f(5), #v(3), t(3), #t^h(5), #t, #d(6), d(2), #tʃ, #dʒ, #n, n(6), r(2), #s(5), s, #z, #ʒ, #ɹ(7), ɹ(19), #l(4), l(4), t(3), j(3), #k(5), #k^h(11), k(8), k^ː, #g(4), g, ɲ(3), #w(4), w(4)

i(2), i^j, #u^w, u^w(6), ɪ(17), ʊ, e^j(3), o, o^w(4), #ə, ə(10), ə̃(5), #ə̃, ɛ(4), ɛ^j, ʌ(3), ɔ, ɔ^j, æ(6), a^j(4), a(2), #a(2), a(19), aː

Second Syllable Segment: p(2), p^h(4), p#, b(6), m(3), əm̩#(3), f(2), f#(2), t(10), t^h(4), t^ː#, t#(4), d(8), d^ː#, d#, ts, dʒ#, n(14), n#(6), əŋ, əŋ#(3), r(5), θ#, ð, s(10), s#(2), z(4), ʃ, ʒ(17), ɹ#(3), l(9), l#, t, ʈ, ʈ#(4), j(2), k(12), k^h(3), k^ː#, k#(5), g(7), ɲ(2), ɲ#, ɣ, w(4)

i^j(3), i^j#(7), u^w, u^w#, ɪ(11), e^j(4), o#(2), o^w(4), o^w#(5), ə(11), ə#, ə̃(4), ə̃#(3), ɛ(4), ɛ^j, ʌ, ɔ(2), ɔ^j, æ(3), a^j#(2), a(17)

Third syllable Segment: p, b, m#, əm̩#, f(3), t(6), t^h, t#(2), t^ː#, d(3), ts, dʒ#, n(5), n#(4), əŋ, əŋ#, r(2), s, s#(3), z(3), z#, ʃ, ʒ(2), ɹ#, l(4), ʈ#(2), k, k#(2)

i^j(2), u^w#, ɪ(6), e^j, e^j#, o^w, o^w#(2), ə(5), ə#(2), ə̃, ɛ(2), ɔ^j, æ, a^j(2), a, a#

Fourth Syllable Segment: f, d#, dʒ, r(2), s#, z, l, ʈ#, k

ɹ, ə, ə#(2), ə̃#, ɔ^j, a^j#

Fifth Syllable Segment: t^ː#, n

e^j

Segment Stressed and Unstressed Total

Stressed Segment: #p^h(7), p^h(2), #b(7), b(3), #m(5), m(6), #f(4), f, f#, #v, t, #t^h(5), t^h(5), #d(4), d(4), d^ː#, d#, #tʃ, #dʒ, dʒ#, n(13), n#(2), r(2), #s(4), s(2), z, #ʒ, #ɹ(6), ɹ(26), ɹ#(2), #l(3), l(8), t(3), j(4), #k(3), #k^h(6), k^h(2), k(10), k^ː, #g(4), g(3), ɲ(2), #w(3), w(2)

i, i^j(2), i^j#, #u^w, u^w(7), ɪ(12), ʊ, e^j(6), o^w(4), o^w#, ə̃(4), #ə̃, ɛ(6), ɛ^j, ʌ(4), ɔ(2), ɔ^j(2), æ(9), a^j(3), a^j#, a(2), #a, a(23), aː

Unstressed Segment: #p(2), #p^h, p(3), p^h(2), p#, #b(2), b(4), #m(3), m(4), m#, əm̩#(4), #f, f(5), f#, #v(2), #t, t(18), t^ː#(2), t#(6), t^ː#, #d(2), d(9), d#, ts(2), dʒ, dʒ#, #n, n(13), n#(8), əŋ(2), əŋ#(4), r(9), θ#, ð, #s, s(10), s#(6), #z, z(7), z#, ʃ(2), #ɹ, ɹ(12), ɹ#(2), #l, l(10), l#, t, ʈ, ʈ#(7), j, #k(2), #k^h(5), k(12), k^h, k^ː#, k#(7), g(5), ɲ(3), ɲ#, ɣ, #w, w(6)

i, i^j(4), i^j#(6), u^w#(2), ɪ(23), e^j(3), e^j#, o, o#(2), o^w(5), o^w#(6), #ə, ə(27), ə#(5), ə̃(6), ə̃#(4), ɛ(4), ɛ^j, ɔ, ɔ^j(2), æ, a^j(3), a^j#(2), #a, a(14), a#

Segment Total (absolute)

Narrow: #p(2), #p^h(10), p(5), p^h(4), p#(2), #b(9), b(7), #m(8), m(10), m#(2), əm̩#(4), #f(6), f(6), f#(2), #v(3), #t, #t^h(7), t^h(5), t(19), t^ː#(2), t#(7), t^ː#, #d(6), d(13), d#(4), d^ː#(2), ts(2), #tʃ, #dʒ, dʒ(2), dʒ#(2), #n, n(26), n#(10), əŋ(2), əŋ#(4), r(2), r(9), θ#, ð, #s(8), s(12), s#(7), #z, z(8), z#, #ʒ, ʃ(2), ʃ#, #ɹ(8), ɹ(44), ɹ#(4), #l(5), l(21), l#, t(4), ʈ, ʈ#(7), j(5), #k(6), #k^h(14), k(24), k^h(3), k^ː, k^ː#, k#(9), #g(4), g(8), g#, ɲ(5), ɲ#, ɣ, #w(4), w(9), #h

i(2), i^j(8), i^j#(8), #u^w, u^w(7), u^w#(2), ɪ(35), ʊ, e^j(9), e^j#, o, o#(2), o^w(10), o^w#(7), #ə, ə(27), ə#(5), #ə̃, ə̃(10), ə̃#(4), ɛ(10), ɛ^j(2), ʌ(4), ɔ(3), ɔ^j(4), æ(12), a^j(6), a^j#(4), a(2), a^w, #a(2), a(43), aː, a#(2)

Broad: p(23), b(16), m(24), f(14), v(3), t(43), d(25), ts(2), tʃ, dʒ(5), n(43), r(2), r(9), θ, ð, s(27), z(10), ʃ(3), ʒ, ɹ(56), l(27), t(12), j(5), k(58), g(13), ɲ(6), ɣ, w(13), h

i(18), u(10), ɪ(35), ʊ, e(10), o(20), ə(33), ə̃(15), ɛ(12), ʌ(4), ɔ(7), æ(12), a(13), a(48)

Supra-Segments: Consonant Clusters

Consonant Cluster Total for Stressed and Unstressed Syllables and Monosyllables according to Syllable Configuration

Monosyllable Consonant Cluster Onset (all entries are word initial): #p^hl, #p^hw, #fl, #spɹ, #spl, #sk, #k^hɹ, #kɹ

Monosyllable Consonant Cluster Coda (all entries are word final): dʒd#, ɹd^ː#, ɹs#, kt#

First Syllable Consonant Cluster Stressed Onset (all entries are word initial): #p^hɹ, #p^hl, #bl(2), #bɹ(2), #fl, #fɹ, #tɹ, #dɹ, #skw(2), #k^hj(2), #k^hɹ, #k^hw, #gr

First Syllable Consonant Cluster Stressed Coda: ɹg

First Syllable Consonant Cluster Unstressed Onset (all entries are word initial): #k^hɹ(2), #k^hw

First Syllable Consonant Cluster Unstressed Coda:

Second Syllable Consonant Cluster Stressed Onset: fɹ, t^hɹ(3)

Second Syllable Consonant Cluster Stressed Coda: ndʒ#, ɹd#

Second Syllable Consonant Cluster Unstressed Onset: p^hɹ, bl, bɹ, dɹ, ʃt, k^hw

Second Syllable Consonant Cluster Unstressed Coda: ɬsk#, nt#(2), ks#, kt#, ɲk#

Third Syllable Consonant Cluster Stressed Onset:

Third Syllable Consonant Cluster Stressed Coda:

Third Syllable Consonant Cluster Unstressed Onset: tɹ

Third Syllable Consonant Cluster Unstressed Coda: ɲz#

Fourth Syllable Consonant Cluster Stressed Onset:

Fourth Syllable Consonant Cluster Stressed Coda:

Fourth Syllable Consonant Cluster Unstressed Onset:

Fourth Syllable Consonant Cluster Unstressed Coda:

Fifth Syllable Consonant Cluster Stressed Onset:

Fifth Syllable Consonant Cluster Stressed Coda:

Fifth Syllable Consonant Cluster Unstressed Onset:

Fifth Syllable Consonant Cluster Unstressed Coda:

Consonant Cluster Total for Stressed and Unstressed Onsets and Codas

Stressed Onset: #p^hɹ, #p^hl, #bl(2), #bɹ(2), #fl, #fɹ, fɹ, #tɹ, t^hɹ(3), #dɹ, #skw(2), #k^hj(2), #k^hɹ, #k^hw, #gr

Stressed Coda: ndʒ#, ɹg, ɹd#

Unstressed Onset: p^hɹ, bl, bɹ, tɹ, dɹ, ʃt, #k^hɹ(2), #k^hw, k^hw

Unstressed Coda: ɬsk#, nt#(2), ɲz#, ks#, kt#, ɲk#

Consonant Cluster Total for Onsets and Codas

Onset: #p^hɹ, p^hɹ, #p^hl(2), #p^hw, #bl(2), bl, #bɹ(2), bɹ, #fl(2), #fɹ, fɹ, #tɹ, t^hɹ(3), tɹ, #dɹ, dɹ, #skw(2), #spɹ, #spl, #sk, ʃt, #k^hj(2), #k^hɹ(4), #kɹ, #k^hw(2), k^hw, #gr

Coda: ɬsk#, dʒd#, nt#(2), ɲz#, ndʒ#, ɹd^ˈ#, ɹs#, ɹg, ɹd#, ks#, kt#(2), ɲk#

Consonant Cluster Total for Stressed and Unstressed Syllables and Monosyllables

Monosyllable Consonant Cluster: #p^hl, #p^hw, #fl, dʒd#, #spɹ, #spl, #sk, ɹd^ˈ#, ɹs#, #k^hɹ, #kɹ, kt#

First Syllable Consonant Cluster Stressed: #p^hɹ, #p^hl, #bl(2), #bɹ(2), #fl, #fɹ, #tɹ, #dɹ, #skw(2), ɹg, #k^hj(2), #k^hɹ, #k^hw, #gr

First Syllable Consonant Cluster Unstressed: #k^hɹ(2), #k^hw

Second Syllable Consonant Cluster Stressed: fɹ, t^hɹ(3), ndʒ#, ɹd#

Second Syllable Consonant Cluster Unstressed: p^hɹ, bl, bɹ, dɹ, ɬsk#, nt#(2), ʃt, k^hw, ks#, kt#, ɲk#

Third Syllable Consonant Cluster Stressed:

Third Syllable Consonant Cluster Unstressed: tɹ, ɲz#

Fourth Syllable Consonant Cluster Stressed:

Fourth Syllable Consonant Cluster Unstressed:

Fifth Syllable Consonant Cluster Stressed:

Fifth Syllable Consonant Cluster Unstressed:

Consonant Cluster Total per Syllable

First Syllable Consonant Cluster: #p^hɹ, #p^hl, #bl(2), #bɹ(2), #fl, #fɹ, #tɹ, #dɹ, #skw(2), ɹg, #k^hj(2), #k^hɹ(3), #k^hw(2), #grSecond Syllable Consonant Cluster: p^hɹ, bl, t^hɹ(3), bɹ, dɹ, fɹ, tsk#, nt#(2), ndʒ#, ft, tɔ#, k^hw, ks#, kt#, ŋk#

Third Syllable Consonant Cluster: tɹ, ŋz#

Fourth Syllable Consonant Cluster:

Fifth Syllable Consonant Cluster:

Consonant Cluster Stressed and Unstressed Total

Consonant Cluster Stressed: #p^hɹ, #p^hl, #bl(2), #bɹ(2), #fl, #fɹ, fɹ, #tɹ, t^hɹ(3), #dɹ, ndʒ#, #skw(2), ɹg, tɔ#, #k^hj(2), #k^hɹ, #k^hw, #grConsonant Cluster Unstressed: p^hɹ, bl, bɹ, tɹ, dɹ, tsk#, nt#(2), ŋz#, ft, #k^hɹ(2), #k^hw, k^hw, ks#, kt#, ŋk#

Consonant Cluster Total (absolute)

Narrow: #p^hɹ, p^hɹ, #p^hl(2), #p^hw, #bl(2), bl, #bɹ(2), bɹ, #fl(2), #fɹ, fɹ, #tɹ, tɹ, t^hɹ(3), #dɹ, dɹ, dʒd#, tsk#, ndʒ#, nt#(2), ŋz#, #spɹ, #spl, #sk, #skw(2), ft, ɹg, ɹdʒ#, ɹs#, tɔ#, #k^hj(2), #k^hɹ(4), #kɹ, #k^hw(2), k^hw, ks#, kt#(2), #gr, ŋk#

Broad: pɹ(2), pl(2), pw, bl(3), bɹ(3), fl(2), fɹ(2), tɹ(5), dɹ(2), dʒd, tsk, ndʒ, nt(2), ŋz, spɹ, spl, sk, skw(2), ft, ɹg, ɹd, ɹs, tɔ, kj(2), kɹ(5), kw(3), ks, kt(2), gr, ŋk

Supra-Segments: Whole Syllables

Whole Syllable Total for Stressed and Unstressed Syllables and Monosyllables

Monosyllable Whole Syllable:

#spɹiⁱ#, #ɹiⁱdʒd#, #kɹik#,#p^hlo^wg#,#flæk#, #skæt^ː#,#t^haⁱ#, #la^wf#,#p^hwad#, #t^haɹd^ː#, #splakt#, #k^ham#, #k^haɹs#, #k^hɹap#, #ha#**First Syllable Whole Syllable Stressed (all entries are word initial):**#tʃiⁱ, #ɹiⁱ, #gri, #wiⁱ,#u^wm, #bu^wŋ, #flu^w, #fⁱu^w, #lu^w, #k^hju^w(2),#p^hɹk, #p^hɹi, #bɹɹk, #t^hɹi, #t^hɹn, #t^hɹl, #t^hɹm, #dʒɹ, #lɹ, #gɹm,

#wɹd,

#fɹeⁱ(2), #seⁱ,#do^w, #k^ho^w,#ə, #mə, #ʒə^k, #ɹə, #wə^d,#p^hlɛk, #mɛ, #dɹɛk,#t^hɹ, #sɹm, #gɹn,#p^hɹⁱ, #mɹl,#blæ, #dæn, #ɹæt, #k^hɹæ, #k^hæm,#baⁱ, #vaⁱ, #ɹaⁱ, #ka, #kar,#a, #p^ha, #p^haɹ, #p^hɹak, #bɹa, #baɹ, #blaɹ, #ma, #man, #daɹg, #skwaːn, #skwa, #ɹak, #ɹan, #la, #k^hɹa, #k^haɹ, #gaɹ

First Syllable Whole Syllable Unstressed (all entries are word initial):

#pi,

#dɹ, #dis, #sɹŋ, #zɹm, #k^hɹi, #kɹ, #k^hwɹ,#fo^w, #to^w, #to,#ə, #pə, #bə(2), #mə, #və, #nə, #ɹə, #lə, #k^həŋ, #k^hɹə,#p^hə,#mɛt, #k^hwɛɹ,

#tæ,

#vaⁱ,
#a, #ma, #kaɪ, #wam

Second Syllable Whole Syllable Stressed:

p^hiⁱ#, miⁱɪ#,
lu^wf#,
sɪn, lɪ,
zeⁱn#, ɹeⁱŋk, leⁱ,
ɹo^w, k^ho^wd^ː#, glo^w#,
ɛ, beɪd#, fɪɛ, t^hɛɪ#,
bʌn,
p^hɔɹndʒ#,
bæɪs, t^hɪæ, dæk,
naⁱ#,
t^hɪaɪ, t^hɪa, dan, ɹan, ja, k^han#, gaɪ

Second Syllable Whole Syllable Unstressed:

bliⁱ#, bɹɪⁱ#, dɹɪⁱ#, dɪⁱ#, rɪⁱ#, zɪⁱ##(2), liⁱ,
ku^w#,
bɹɪs#, mɪtsk#, tɪnt#, nɪk#, ðɪn#, sɪn#, lɪk, kɪŋ#,
ɹeⁱn#,
fo^w#, no^w, zo^w, jo#, ko^w##(2), go^w#, ɣo#,
pə, p^hɪə, mə, fəŋ#, təŋ##(2), təŋ, tʃə, tə#, dəŋ#, nə, nəθ#, rə^ɪ#, rət, rək#, stə^ɪ#, səŋ#, səŋ#, sə, ɹə^ɪ##(2), gə#, gə, gəŋ#, wət^ː#,
tə#, də##(2), nə#, rə#, ʃtə#, kə#,
lɛk^ː#,
dɔɹ#, kɔɹⁱl#,
gaⁱ#,
p^haɪ#, p^hap#, na, sant#, saf#, san#, lakt#, k^hwat#, kaks#, wəŋk#

Third Syllable Whole Syllable Stressed:

t^hɔɹⁱ,
ɹæn

Third Syllable Whole Syllable Unstressed:

dɪⁱ, zɪⁱn#,
nu^w#,
tɪk#, tɪs#, rɪk#, sɪk#, ʃɪn#, lɪt^ː#, kɪn#,
eⁱ, teⁱ#,
fo^wn#, zo^w##(2),
pə, fə^ɪ#, tə#, tɪə, təŋ#, dəŋz#, də#, nə, rə^ɪ#, ləs#, lədʒ#,
kə#,
nɛs#, nɛɹ#,
baⁱt#, taⁱm#,
at#, tsə#

Fourth Syllable Whole Syllable Stressed:

Fourth Syllable Whole Syllable Unstressed:

lɪs#,
ə#, dʒə, rə^ɪ#, kə#,
rə#,
zɔɹⁱd#,
faⁱl#

Fifth Syllable Whole Syllable Stressed:

Fifth Syllable Whole Syllable Unstressed:

neⁱt^ːl#

Whole Syllable Total per Syllable

First Syllable Whole Syllable (all entries are word initial):

#pi, #tʃiʲ, #ʝiʲ, #gri, #wiʲ,
 #uʷm, #buʷŋ, #fluʷ, #ʃuʷ, #luʷ, #kʰjuʷ(2),
 #pʰɪk, #pʰɪ, #bɪɪk, #tʰɪɪ, #tʰɪn, #tʰɪl, #tʰɪm, #dɪ, #dɪs, #dʒɪ, #sɪŋ, #zɪm, #ɪ, #kʰɪɪ, #kɪ, #kʰwɪ, #gɪm,
 #wud,
 #fɪeʲ(2), #seʲ,
 #foʷ, #toʷ, #to, #doʷ, #kʰoʷ,
 #ə, #pə, #bə(2), #mə, #və, #nə, #kʰəŋ, #kʰɪə, #ɪə, #lə,
 #ə, #pʰə, #mə, #ʒə, #kʰə, #wə, #d,
 #pʰɛk, #mɛ, #mɛt, #dɛk, #kʰwɛʲɪ,
 #tʰʌ, #sʌm, #gʌn,
 #pʰɔʲ, #mɔl,
 #blæ, #tæ, #dæn, #ɹæt, #kʰɹæ, #kʰæm,
 #baʲ, #vaʲ(2), #ɹaʲ, #ka, #kar,
 #a(2), #pʰa, #pʰaɪ, #pʰɪak, #bɪa, #baɪ, #blaɪ, #ma(2), #man, #daɪg, #skwaːn, #skwa, #ɪak, #ɹan, #la, #kʰɪa, #kʰaɪ, #kaɪ, #gaɪ, #wam

Second Syllable Whole Syllable:

pʰiʲ#, bliʲ#, buʲ#, miʲ#, dɹiʲ, diʲ#, riʲ#, ziʲ(2), liʲ,
 luʷf#, kuʷ#,
 bɪɪs#, mɪtsk#, tɪnt#, nɪk#, ðɪn#, sɪn, sɪn#, ɪɪ, ɪɪk, kɪŋ#,
 zeʲn#, ɹeʲn#, ɹeʲŋk, leʲ,
 foʷ#, noʷ, zoʷ, ɹoʷ, joʷ, koʷ(2), kʰoʷdʷ#, goʷ#, gloʷ#, ɣoʷ#,
 pə, pʰɪə, mə, fəŋ#, təŋ(2), təŋ, tʃə, tə#, dəŋ#, nə, nəθ#, rəʲ#, rəʲ, rək#, stəʲ#, səŋ#, səŋ#, sə, ɹəʲ(2), gə#, gə, gəŋ#, wətʷ#,
 tə#, də(2), nə#, rə, ʃtə#, kə,
 ɛ, bɛʲd#, fɪɛ, tʰɛʲɪ#, lɛkʷ#,
 bʌn,
 pʰɔɹndʒ#, dɔɹ#, kɔʲl#,
 bæɪ, tʰɹæ, dæk,
 naʲ#, gaʲ#,
 pʰaɪ#, pʰap#, tʰɹaɪ, tʰɹa, dan, na, sant#, saf#, san#, ɹan, lakt#, ja, kʰan#, kʰwat#, kaks#, gaɪ, wanjɪk#

Third Syllable Whole Syllable:

diʲ, ziʲn#,
 nuʷ#,
 tɪk#, tɪs#, rɪk#, sɪk#, ʃɪn#, ɪtʷ#, kɪn#,
 eʲ, teʲ#,
 foʷn#, zoʷ(2),
 pə, fəʲ#, tə#, tɹə, təŋ#, dəŋz#, də#, nə, rəʲ#, ləs#, ləʲz#,
 kə,
 nɛs#, nɛɹ#,
 tʰɔʲ,
 ɹæn,
 baʲt#, taʲm#,
 at#, tsə#

Fourth Syllable Whole Syllable:

ɪɪs#,
 ə#, dʒə, rəʲ#, kə#,
 rə#,
 zɔʲd#,
 faʲ#

Fifth Syllable Whole Syllable:

neʲtʷ#

Whole Syllable Stressed and Unstressed Total

Whole Syllable Stressed:

p^hiʃ, miʃ, #tʃiʃ, #ɹiʃ, #gri, #wiʃ,
 #uʷm, #buʷŋ, #fluʷ, #fluʷ, #luʷ, luʷf#, #k^hjuʷ(2),
 #p^hɪk, #p^hɪ, #bɪk, #t^hɪ, #t^hɪn, #t^hɪl, #t^hɪm, #dʒɪ, sɪn, lɪ, #lɪ, #gɪm,
 #wʊd,
 #fɹeʃ(2), #seʃ, zeʃn#, ʒeʃŋk, leʃ,
 #doʷ, ɹoʷ, k^hoʷdʷ#, #k^hoʷ, gloʷ#,
 #ə, #mə, #ʒəkʷ, #ɹə, #wəd,
 ɛ, #p^hlɛk, bɛd#, #mɛ, fɹɛ, t^hɛʃ, #dɹɛk,
 bʌn, #t^hʌ, #sʌm, #gʌn,
 #p^hɔʃ, p^hɔʃndʒ#, #mɔl, t^hɔʃ,
 #blæ, bæɪ, t^hɹæ, dæk, #dæn, #jæt, jæn, #k^hɹæ, #k^hæm,
 #baʃ, #vaʃ, naʃ#, #ɹaʃ, #ka, #kar,
 #a, #ma, #p^ha, #p^hʌ, #p^hɹak, #bɹa, #baɹ, #blaɹ, #man, t^hɹaɹ, t^hɹa, dan, #daɹg, #skwa:n, #skwa, #ɹak, ɹan, #ɹan, #la, ja, k^han#, #k^hɹa,
 #k^hʌ, #gaɹ, gaɹ

Whole Syllable Unstressed:

#pi, bliʃ, bɹiʃ, dɹiʃ, diʃ, riʃ, ziʃ(2), ziʃn#, liʃ,
 nuʷ#, kuʷ#,
 bɹɪs#, mɪtsk#, tɪnt#, tɪk#, tɪs#, #dɪ, #dɪs, nɪk#, rɪk#, ðɪn#, sɪn#, #sɪŋ, sɪk#, #zɪm, fɪn#, lɪk, lɪtʷ#, lɪs#, kɪŋ#, kɪn#, #k^hɹɪ, #kɪ, #k^hwɪ,
 eʃ, teʃ#, neʃtʷ#, ʒeʃn#,
 #foʷ, foʷ#, foʷn#, #toʷ, #to, noʷ, zoʷ, zoʷ#(2), jo#, koʷ#(2), goʷ#, ɣoʷ#,
 #ə, ə#, #pə, pə(2), p^hɹə, #bə(2), #mə, mə, fəŋ#, fəʃ#, #və, tə#(2), tɹə, təŋ#(3), təŋ, tʃə, də#, dəŋ#, dəŋz#, dʒə, nə(2), #nə, nəθ#, rəʃ#(3), rəʃ,
 rək#, stəʃ#, səŋ#, səŋ#, sə, ɹəʃ#(2), #ɹə, #lə, ləs#, lədʒ#, kə#, #k^həŋ, #k^hɹə, gə#, gə, gəŋ#, wətʷ#,
 #p^hə, tə#, də(2), nə#, rə, rə#, fəʃ#, kə(2),
 #mɛʃ, nɛs#, nɛɹ#, lɛkʷ#, #k^hwɛʃɹ,
 dɔʃ#, zɔʃd#, kɔʃl#,
 #tæ,
 baʃt#, faʃ#, #vaʃ, taʃm#, gaʃ#,
 #a, at#, p^hʌ#, p^hap#, #ma, tsə#, na, sant#, saf#, san#, lakt#, #kaɹ, k^hwat#, kaks#, wəŋk#, #wam

Whole Syllable Total (absolute)

Narrow: #pi, p^hiʃ, bliʃ, bɹiʃ, miʃ, dɹiʃ, diʃ, #tʃiʃ, riʃ#, #spɹiʃ, ziʃ(2), ziʃn#, #ɹiʃ, #ɹiʃdʒd#, liʃ, #gri, #kɹɪk#, #wiʃ,
 #uʷm, #buʷŋ, #fluʷ, #fluʷ, nuʷ#, #luʷ, luʷf#, kuʷ#, #k^hjuʷ(2),
 #p^hɪk, #p^hɪ, #bɪk, bɹɪs#, mɪtsk#, tɪnt#, tɪk#, tɪs#, #t^hɹɪ, #t^hɹɪn, #t^hɹɪl, #t^hɹɪm, #dɪ, #dɪs, #dʒɪ, nɪk#, rɪk#, ðɪn#, sɪn#, sɪn, #sɪŋ, sɪk#, #zɪm,
 fɪn#, lɪk, lɪtʷ#, lɪs#, lɪ, #lɪ, kɪŋ#, kɪn#, #k^hɹɪ, #kɪ, #k^hwɪ, #gɪm,
 #wʊd,
 eʃ, #fɹeʃ(2), teʃ#, neʃtʷ#, #seʃ, zeʃn#, ʒeʃŋk, ʒeʃn#, leʃ,
 #p^hloʷg#, #foʷ, foʷ#, foʷn#, #toʷ, #to, #doʷ, noʷ, zoʷ, zoʷ#(2), ɹoʷ, jo#, k^hoʷdʷ#, #k^hoʷ, koʷ#(2), goʷ#, gloʷ#, ɣoʷ#,
 #ə, ə#, #pə, pə(2), p^hɹə, #bə(2), #mə, mə, fəŋ#, fəʃ#, #və, tə#(2), tɹə, təŋ#(3), təŋ, tʃə, də#, dəŋ#, dəŋz#, dʒə, nə(2), #nə, nəθ#, rəʃ#(3), rəʃ,
 rək#, stəʃ#, səŋ#, səŋ#, sə, ɹəʃ#(2), #ɹə, #lə, ləs#, lədʒ#, kə#, #k^həŋ, #k^hɹə, gə#, gə, gəŋ#, wətʷ#,
 #ə, #p^hə, #mə, tə#, də(2), nə#, rə, rə#, fəʃ#, #ʒəkʷ, #ɹə, kə(2), #wəd,
 ɛ, #p^hlɛk, bɛd#, #mɛ, #mɛʃ, fɹɛ, t^hɛʃ, #dɹɛk, nɛs#, nɛɹ#, lɛkʷ#, #k^hwɛʃɹ,
 bʌn, #t^hʌ, #sʌm, #gʌn,
 #p^hɔʃ, p^hɔʃndʒ#, #mɔl, t^hɔʃ, dɔʃ#, zɔʃd#, kɔʃl#,
 #blæ, bæɪ, #flæk#, t^hɹæ, #tæ, dæk, #dæn, #skætʷ#, #jæt, jæn, #k^hɹæ, #k^hæm,
 #baʃ, baʃt#, faʃ#, #vaʃ(2), #t^həʃ#, taʃm#, naʃ#, #ɹaʃ, #laʷf#, #ka, #kar, gaʃ#,
 #a(2), at#, #p^ha, #p^hʌ, p^hʌ#, p^hap#, #p^hɹak, #p^hwad#, #bɹa, #baɹ, #blaɹ, #man, #ma(2), tsə#, t^hɹaɹ, t^hɹa, #t^hɹadʷ#, dan, #daɹg, na, sant#,
 saf#, san#, #skwa:n, #skwa, #splakt#, #ɹak, ɹan, #ɹan, #la, lakt#, ja, k^han#, #k^hɹa, #k^hʌ, #kaɹ, k^hwat#, kaks#, #k^ham#, #k^hʌs#,
 #k^hɹap#, #gaɹ, gaɹ, wəŋk#, #wam, #ha#

Broad:

pi(2), bli, bɹi, mi, dɹi, di(2), tʃi, ri, spɹi, zi(2), zin, ɹi, ɹidʒd, li, gri, kɹik, wi,
 um, buŋ, flu, fu, nu, lu, luf, ku, kju(2),
 pɪk, pɪ, bɪk, bɹɪs, mɪtsk, tɪnt, tɪk, tɪs, tɹɪ, tɪn, tɪl, tɪm, dɪ, dɪs, dʒɪ, nɪk, rɪk, ðɪn, sɪn(2), sɪŋ, sɪk, zɪm, fɪn, lɪk, lɪt, lɪs, lɪ(2), kɪŋ, kɪn, kɹɪ,
 kɪ, kwɪ, gɪm,
 wʊd,

e, fje(2), te, net, se, zen, ɲɛŋk, ɲen, le,
 plog, fo(2), fon, to(2), do, no, zo(3), ɹo, jo, kod, ko(3), go, glo, ɣo,
 ə(2) pə(3), pɹə, bə(2), mə(2), fəŋ, fəɫ, və, tə(2), tɹə, təŋ(4), tʃə, də, dəŋ, dəŋz, dʒə, nə(3), nəθ, rəɫ(4), rək, stəɫ, səŋ, səŋ, sə, ɹəɫ(2), ɹə, lə, ləs,
 ləɖʒ, kə, kəŋ, kɹə, gə(2), gəŋ, wət,
 ə, pə, mə, tə, də(2), nə, rə(2), ʃtə, ʒək, ɹə, kə(2), wəd,
 ɛ, plɛk, bɛɫd, mɛ, mɛɫ, fɹɛ, tɛɹ, dɹɛk, nɛs, nɛɹ, lɛk, kwɛɹ,
 bɒŋ, tɒ, sɒm, ɣɒŋ,
 pɔ, pɔɹndʒ, mɔɫ, tɔ, dɔɹ, zɔd, kɔɫ,
 blæ, bæs, flæk, tɹæ, tæ, dæk, dæn, skæt, ɹæt, ɹæn, kɹæ, kæm,
 ba, bat, fa, va(2), ta, tam, na, ɹa, laf, ka, kar, ga,
 a(2), at, pa, paɹ(2), pap, pɹak, pwad, bɹa, baɹ, blaɹ, man, ma(2), tsa, tɹaɹ, tɹa, taɹd, dan, daɹɣ, na, sant, saf, san, skwan, skwa, splakt,
 ɹak, ɹan(2), la, lakt, ja, kan, kɹa, kaɹ(2), kwat, kaks, kam, kaɹs, kɹap, gaɹ(2), wəŋk, wam, ha

Supra-Segments: Whole Words

Whole Word Total per Word Length

Whole Monosyllables:

tard [tʰaɹdɿ], kreek [kɹiɪk], reejd [ɹiɪdʒd], hah [hɑ], ploag [pʰloʷg], skat [skætɿ], karse [kʰaɹs], flak [flæk], krahp [kʰɹap], splashkt [splakt], spree [spɹiɪ], tie [tʰaɪ], kahm [kʰam], loush [laʷʃ], pwahd [pʰwad]

Whole Bisyllables:

seenguy [sɪŋ·gaɪ],

WORDsuhn [wəd·səŋ], BYtint [baɪ·tɪnt], RAHkshtur [ɹak·ʃtəɹ], KRAhtul [kʰɹa·rəɫ], KAHRkoil [kar·kɔɪ], GREEgo [gri·ɣo], RAHNtuh [ɹan·tə], FLOOpahp [fluʷ·pʰap], GHIMblee [gɪm·bli], BLAthin [blæ·ðɪn], FYOUNuhr [fjuʷ·nə], MOLtuhr [mɔɫ·təɹ], ZHERKnik [ʒəkʰ·nɪk], VYbris [vaɪ·bɹɪs], SKWAHrul [skwa·ɹəɫ], LOOzee [luʷ·zi], MURdik [mə·rək] (first schwa raised and fronted), TIMbree [tʰɪm·bɹi], DREKSahn [dɹɛk·san], KAHRdee [kʰaɹ·di], BRAHkeeng [bɹa·kɪŋ], WUDwahnk [wud·wəŋk], SAYsum [seɪ·səŋ], BLAHRtee [blaɹ·ri], GUNdoor [ɣɒŋ·dɔɹ], KAYoe [ka·jo], TINsahnt [tʰɪn·sant], PIKrain [pʰɪk·ɹeɪn], PRAHklek [pʰɹak·lɛkɿ], JIHguh [dʒɪ·gə], URdum [ʰə·dəŋ], FRAYzee [fɹeɪ·zi], POYNuth [pʰɔɪ·nəθ], KAMtuhn [kʰæm·təŋ], FRAYgo [fɹeɪ·goʷ], TILsin [tʰɪɫ·sɪn], PAHRkoe [pʰaɹ·koʷ], LIHmitsk [li·mɪtsk], RATsof [ɹæt·saf], PLEKstul [pʰlɛk·stəɫ], BOONGkoo [buʷŋ·kuʷ], SUMpahɹ [sɒm·pʰaɹ], CHEEKahks [tʃiɪ·kaks], DOElahkt [doʷ·lakt], KOHwuht [kʰoʷ·wətɿ], MAHNkwaht [man·kʰwat], GAHRfoe [gaɹ·foʷ], RURrul [ɹə·ɹəɫ], REEguhm [ɹiɪ·gəŋ], KRAkoe [kʰɹæ·koʷ], BRIKtun [bɹɪk·təŋ],

buhZAYN [bə·zeɪn], melGLOW [mɛɫ·gloʷ], muhKAHN [mə·kʰan], karPORNGE [kaɹ·pʰɔɹndʒ], kwairMEER [kʰweɪɹ·miɪɹ], purLOOF [pʰə·luʷf], ahPEE [a·pʰiɪ], taKODE [tæ·kʰoʷdɿ], toeTAIR [to·tʰɛɪɹ], luhBELD [lə·bɛɫd], kihNYE [kɪ·naɪ]

Whole Trisyllables:

SKWAHNduhrnes [skwa:n·də·nɛs], KYOUpuhtime [kʰjuʷ·pə·taɪm], WEEnofone [wiɪ·noʷ·foʷn], KYOUtyuhlus [kʰjuʷ·tjə·ləs], MAHdreeaht [ma·dɹiɪ·at], LAHkuhnair [la·kə·nɛɹ], TRIHtuhrbite [tʰɹɪ·rə·baɪt], BAHRtuhnzeen [baɹ·təŋ·ziɪn], DANdurful [dæn·də·fəɫ], DARGnahdul [dɹaɹɣ·na·rəɫ], TUHguhluhge [tʰɒ·gə·ləɖʒ], RYnuhkin [ɹaɪ·nə·kɪn], PAHmuhduhnz [pʰa·mə·dəŋz], OOMliktuhn [uʷm·ɫɪk·təŋ], AHpruhzoe [a·pʰɹə·zoʷ], MEHzolit [mɛ·zoʷ·ɫɪtɿ],

peeYAHTsah [pi·ja·tsa], kwihLAYshin [kʰwi·leɪ·ʃɪn], kruhDAHNZo [kʰɹə·dan·zoʷ], zimFREHTik [zɪm·fɹɛ·ɾɪk], vuhRAHNtis [və·ɹan·tɪs], mahROWtuh [ma·ɹoʷ·tə], vySINTay[vəɪ·sɪn·teɪ], ruhBUNduh [ɹə·bɒŋ·də], uhrRANKnoo [ə·ɹeɪŋk·nuʷ], toeLIHFum [toʷ·li·fəŋ], nuhDAKSik [nə·dæk·sɪk], wahmBASTik [wam·bæs·ɾɪk]

Whole Tetrasyllables:

PIHduhlaytur [pʰɪ·rəɫ·eɪ·rəɫ],

disTRANuhfɹ [dɪs·tʰɹæ·nə·faɪ], buhTRAHPuhlis [bə·tʰɹa·pə·ɫɪs], fowEHtruhkuh [foʷ·ɛ·tɹə·kə], kunGAHRdeeuH [kʰəŋ·gaɹ·diɪ·ə], puhTRARKuhrzoid [pə·tʰɹaɹ·kə·zɔɪd],

krihleeTOYdul [kʰɹɪ·liɪ·tʰɔɪ·rəɫ]

Whole Pentasyllables:

disuhRANjuhnayt [dɪ·sə·ɹæn·dʒə·neɪtɿ]



Question ID: f.

Segments

Segment Total for Stressed and Unstressed Syllables and Monosyllables according to Syllable Configuration

Monosyllable Onset: #p^h, #b(3), #m, m, #f, t(2), #d(2), #tʃ, #dʒ, #s(4), #ʃ(2), #ʒ, ʒ(6), #l, l(2), #j, #k^h(5), k(2), w(2), #h

Monosyllable Nucleus: iⁱ(2), #u^w#, o, o#, o^w#, ə#, #ε, ε(2), ʌ, æ(6), a, a^w, a(7), a#

Monosyllable Coda: f#, v#, t#(4), d#(2), n(4), n#(2), s#(4), z#(2), ʃ#, ʒ(2), t, t#, k(2), k#(3), g#, ŋ

First Syllable Segment Stressed Onset: #p^h(3), p(2), #f(4), #t^h, t(6), #d, #n(4), r, #s(17), #z(2), #ʒ(3), ʒ(5), l(4), #j(2), j, #k^h(5), k(7), #g(3), #w(2), w

First Syllable Segment Stressed Nucleus: #iⁱ, iⁱ(5), ʌ, #u^w, u^w(5), u, ɪ(2), #eⁱ, eⁱ(4), o^w(2), ə, #ε, ε(3), #ʌ, ɔ(2), #æ(2), æ(11), #aⁱ(2), #a(3), a(10)

First Syllable Segment Stressed Coda: p(2), b, m, t, n(8), s, z, ʒ(3), k(3)

First Syllable Segment Unstressed Onset: #p, #b(2), #m, m, #f(2), #t, #dʒ, #n, #s(2), l, #k(3), #g, #x, #w, #h

First Syllable Segment Unstressed Nucleus: iⁱ, #u^w, u^w(5), #ɪ(5), o^w, #ə(2), ə(4), ə, #ε, ɔ, a(3)

First Syllable Segment Unstressed Coda: m, n(2), s, k

Second Syllable Segment Stressed Onset: p^h, m(5), f, t, t^h(3), tʃ, dʒ, θ, s(2), z, ʒ(4), l(2), j, k^h(4), g, w

Second Syllable Segment Stressed Nucleus: iⁱ, u^w#, ɪ(2), eⁱ, o^w, ʌ, ɔⁱ, aⁱ#, a^w, a(9)

Second Syllable Segment Stressed Coda: f: #, t#, d#, n(5), s(2), z, ʒ(2), k#

Second Syllable Segment Unstressed Onset: p(4), f(6), v(3), t(8), d(3), dʒ(2), n(4), r(3), θ, s(7), z, ʃ(3), ʒ(2), l(8), j, k(6), g, w

Second Syllable Segment Unstressed Nucleus: iⁱ#, ʌ, u^w(2), u^w#, ɪ(8), ʊ(2), eⁱ, eⁱ#, o#, o^w(2), o^w#, ə(10), ə#, əm#(4), əŋ(3), əŋ#, ət#, ə(4), ə#(2), ε, ɔ, aⁱ#, a(3), a#, aⁱh#

Second Syllable Segment Unstressed Coda: p#, v#, t#(2), d#, d^w#, n(2), n#(3), s#, z#(2), ʃ#, ʒ#(2), t(2), k#(4), g#

Third Syllable Segment Stressed Onset: n

Third Syllable Segment Stressed Nucleus: iⁱ

Third Syllable Segment Stressed Coda:

Third Syllable Segment Unstressed Onset: b(2), m(2), f(2), v, t(4), d(2), n(4), s(2), ʒ, ʒ(4), l(5), j(2), k, h(2)

Third Syllable Segment Unstressed Nucleus: iⁱ, iⁱ#, u^w#, ɪ(3), eⁱ#, o^w, o^w#, ə(6), ə#(2), əŋ#, ət#, ə, εⁱ(2), a#, aⁱ#, a(2)

Third Syllable Segment Unstressed Coda: f#, n, n#(2), s#(3), z#, ʒ#, t#(2), ŋ#

Fourth Syllable Segment Stressed Onset:

Fourth Syllable Segment Stressed Nucleus:

Fourth Syllable Segment Stressed Coda:

Fourth Syllable Segment Unstressed Onset: ʃ, l, t, g(2)

Fourth Syllable Segment Unstressed Nucleus: iⁱ#, ɪ, ə(2), ə#, əŋ#

Fourth Syllable Segment Unstressed Coda: s#(3)

Fifth Syllable Segment Stressed Onset:

Fifth Syllable Segment Stressed Nucleus:

Fifth Syllable Segment Stressed Coda:

Fifth Syllable Segment Unstressed Onset:

Fifth Syllable Segment Unstressed Nucleus:

Fifth Syllable Segment Unstressed Coda:

Segment Total for Stressed and Unstressed Onsets and Codas

Stressed Onset: #p^h(3), p^h, p(2), m(5), #f(4), f, #t^h, t(7), t^h(3), #d, tʃ, dʒ, #n(4), n, r, #s(17), #z(2), Θ, s(2), z, #ɹ(3), ɹ(9), l(6), #j(2), j(2), #k^h(5), k(7), k^h(4), #g(3), g, #w(2), w(2)

Stressed Coda: p(2), b, m, f:ʃ, t, tʃ, dʃ, n(13), s(3), z(2), ɹ(5), k(3), kʃ

Unstressed Onset: #p, p(4), #b(2), b(2), #m, m(3), #f(2), f(8), v(4), #t, t(12), d(5), #dʒ, dʒ(2), #n, n(8), r(3), Θ, #s(2), s(9), z, ʃ(4), ʒ, ɹ(6), l(15), t, j(3), #k(3), k(7), #g, g(3), #x, #w, w, #h, h

Unstressed Coda: p#, m, f#, v#, t#(2), d#, dʰ#(2), n(5), n#(5), s, s#(7), z#(3), ʃ#, ɹ#(3), t(2), t#(2), k, k#(4), g#, ɳ#

Segment Total for Onsets and Codas

Onset: #p, #p^h(4), p^h, p(6), #b(5), b(2), #m(2), m(9), #f(7), f(9), v(4), #t, #t^h, t(21), t^h(3), #d(3), d(5), #tʃ, tʃ, #dʒ(2), dʒ(3), #n(5), n(9), r, r(3), #s(21), #z(2), Θ(2), #s(2), s(11), z(2), #ʃ(2), ʃ(4), ʒ, #ɹ(4), ɹ(21), #l, l(23), t, #j(3), j(5), #k^h(10), #k(3), k(16), k^h(4), #g(4), g(4), #x, #w(3), w(5), #h(2), h

Coda: p(2), p#, b, m(2), f#(2), f:ʃ, v#(2), t, t#(7), d#(4), dʰ#(2), n(22), n#(7), s(4), s#(11), z(2), z#(5), ʃ#(2), ɹ#(3), ɹ(7), t(3), t#(3), k(6), k#(8), g#(2), ɳ, ɳ#

Segment Total for Stressed and Unstressed Syllables and Monosyllables

Monosyllable Segment: #p^h, #b(3), #m, m, #f, f#, v#, t(2), t#(4), #d(2), d#(2), #tʃ, #dʒ, n(4), n#(2), #s(4), s#(4), z#(2), #ʃ(2), ʃ#, #ɹ, ɹ(8), #l, l(2), t, t#, #j, #k^h(5), k(4), k#(3), g#, ɳ, w(2), #h

i^j(2), #u^w#, o, o#, o^w#, ə#, #ɛ, ɛ(2), ʌ, æ(6), a, a^w, a(7), a#

First Syllable Segment Stressed: #p^h(3), p(4), b, m, #f(4), #t^h, t(7), #d, #n(4), n(8), r, #s(17), s, #z(2), z, #ɹ(3), ɹ(8), l(4), #j(2), j, #k^h(5), k(10), #g(3), #w(2), w

#i^j, i^j(5), ɪ, #u^w, u^w(5), u, ɪ(2), #e^j, e^j(4), o^w(2), ə, #ɛ, ɛ(3), #ʌ, ʊ(2), #æ(2), æ(11), #a^j(2), #a(3), a(10)

First Syllable Segment Unstressed: #p, #b(2), #m, m(2), #f(2), #t, #dʒ, #n, n(2), #s(2), s, l, #k(3), k, #g, #x, #w, #h

i^j, #u^w, u^w(5), #ɪ(5), o^w, #ə(2), ə(4), ə#, #ɛ, ʊ, a(3)

Second Syllable Segment Stressed: p^h, m(5), f, f:ʃ, t, t^h(3), t#, d#, tʃ, dʒ, n(5), Θ, s(4), z(2), ɹ(6), l(2), j, k^h(4), k#, g, w

i^j, u^w#(3), ɪ(2), e^j, o^w, ʌ, ʊ^j, a^j, a^j#, a^w, a(9)

Second Syllable Segment Unstressed: p(4), p#, əŋ#(4), f(6), v(3), v#, t(8), t#(2), d(3), d#, dʰ#(2), dʒ(2), n(6), n#(3), əŋ(3), əŋ#, r(3), Θ, s(7), s#, z, z#(2), ʃ(3), ʃ#, ɹ(2), ɹ#(2), l(8), t(2), tʃ#, j, k(6), k#(4), g, g#, w

i^j#(3), ɪ, u^w(2), u^w#, ɪ(8), ʊ(2), e^j, e^j#(3), o#, o^w(2), o^w#(3), ə(10), ə#, ə(4), ə#(2), ɛ, ʊ, a^j#, a(3), a#, a:ʰ#

Third Syllable Segment Stressed: n

i^j

Third Syllable Segment Unstressed: b(2), m(2), f(2), f#, v, t(4), d(2), n(5), n#(2), əŋ#, s(2), s#(3), z#, ʒ, ɹ(4), ɹ#, l(5), t#(2), tʃ#, j(2), k, ɳ#, h(2)

i^j, i^j#, u^w#, ɪ(3), e^j#, o^w, o^w#(4), ə(6), ə#(2), ə, ɛ^j(2), a#, a^j#, a(2)

Fourth Syllable Segment Stressed:

Fourth Syllable Segment Unstressed: əŋ#, s#(3), ʃ, l, t, g(2)

i^j#(2), ɪ, ə(2), ə#

Fifth Syllable Segment Stressed:

Fifth Syllable Segment Unstressed:

Segment Total by Syllable

First Syllable Segment: #p, #p^h(3), p(4), #b(2), b, #m, m(3), #f(6), #t, #t^h, t(7), #d, #d₃, #n(5), n(10), r, #s(19), s(2), #z(2), z, #ɹ(3), ɹ(8), l(5), #j(2), j, #k(3), #k^h(5), k(11), #g(4), #x, #w(3), w, #h

#i^j, i^j(6), ɥ, #u^w(2), u^w(10), u, #ɪ(5), ɪ(2), #e^j, e^j(4), o^w(3), #ə(2), ə(4), ʌ(2), #ɛ(2), ɛ(3), #ʌ, ɔ(3), #æ(2), æ(11), #aⁱ(2), #a(3), a(13)

Second Syllable Segment: p(4), p^h, p#, m(5), ʔm[#](4), f(7), fɹ:#, v(3), v#, t(9), t^h(3), t#(3), d(3), d#(2), d^h#(2), tʃ, dʒ(3), n(11), n#(3), ʔn(3), ʔn#, r(3), Θ(2), s(11), s#, z(3), z#(2), ʃ(3), ʃ#, ɹ(8), ɹ#(2), l(10), ɫ(2), ɬ#, j(2), k^h(4), k(6), k#(5), g(2), g#, w(2)

i^j, i^j#(3), ɥ, u^w(2), u^w#(4), ɪ(10), ʊ(2), e^j(2), e^j#(3), o#, o^w(3), o^w#(3), ə(10), ə#, ʌ(4), ʌ#(2), ɛ, ʌ, ɔ, ɔ^j, a^j, aⁱ#(2), a^w, a(12), a#, a^h#

Third syllable Segment: b(2), m(2), f(2), f#, v, t(4), d(2), n(6), n#(2), ʔn#, s(2), s#(3), z#, ʒ, ɹ(4), ɹ#, l(5), ɫ#(2), ɬ#, j(2), k, ɲ#, h(2)

i^j(2), i^j#, u^w#, ɪ(3), e^j#, o^w, o^w#(4), ə(6), ə#(2), ʌ, ɛ^j(2), a#, aⁱ#, a(2)

Fourth Syllable Segment: ʔn#, s#(3), ʃ, l, ɫ, g(2)

i^j#(2), ɪ, ə(2), ə#

Fifth Syllable Segment:

Segment Stressed and Unstressed Total

Stressed Segment: #p^h(3), p^h, p(4), b, m(6), #f(4), f, fɹ:#, #t^h, t^h(3), t(8), t#, #d, d#, tʃ, dʒ, #n(4), n(14), r, Θ, #s(17), s(5), #z(2), z(3), #ɹ(3), ɹ(14), l(6), #j(2), j(2), #k^h(5), k^h(4), k(10), k#, #g(3), g, #w(2), w(2)

#i^j, i^j(7), ɥ, #u^w, u^w(5), u^w#(3), u, ɪ(4), #e^j, e^j(5), o^w(3), ʌ, #ɛ, ɛ(3), #ʌ, ʌ, ɔ(2), ɔ^j, #æ(2), æ(11), #aⁱ(2), aⁱ, aⁱ#, a^w, #a(3), a(19)

Unstressed Segment: #p, p(4), p#, #b(2), b(2), #m, m(4), ʔm[#](4), #f(2), f(8), f#, v(4), v#, #t, t(12), t#(2), d(5), d#, d^h#(2), #dʒ, dʒ(2), #n, n(13), n#(5), ʔn(3), ʔn#(3), r(3), Θ, #s(2), s(10), s#(7), z, z#(3), ʃ(4), ʃ#, ʒ, ɹ(6), ɹ#(3), l(15), ɫ(3), ɫ#(2), ɬ#(2), j(3), #k(3), k(8), k#(4), #g, g(3), g#, ɲ#, #x, #w, w, #h, h(2)

i^j(2), i^j#(6), ɥ, #u^w, u^w(7), u^w#(2), #ɪ(5), ɪ(12), ʊ(2), e^j, e^j#(4), o#, o^w(4), o^w#(7), #ə(2), ə(22), ə#(4), ʌ(6), ʌ#(2), #ɛ, ɛ, ɛ^j(2), ɔ(2), aⁱ#(2), a#, a(8), a#, a^h#

Segment Total (absolute)

Narrow: #p, #p^h(4), p^h, p(8), p#, #b(5), b(3), #m(2), m(11), ʔm[#](4), #f(7), f(9), f#(2), fɹ:#, v(4), v#(2), #t, #t^h, t^h(3), t(22), t#(7), #d(3), d(5), d#(4), d^h#(2), #tʃ, tʃ, #dʒ(2), dʒ(3), #n(5), n(31), n#(7), ʔn(3), ʔn#(3), r, r(3), Θ(2), #s(23), s(15), s#(11), #z(2), z(4), z#(5), #ʃ(2), ʃ(4), ʃ#(2), ʒ, #ɹ(4), ɹ(28), ɹ#(3), #l, l(23), ɫ(4), ɫ#(3), ɬ#(2), #j(3), j(5), #k(3), #k^h(10), k^h(4), k(22), k#(8), #g(4), g(4), g#(2), ɲ, ɲ#, #x, #w(3), w(5), #h(2), h(2)

#i^j, i^j(11), i^j#(6), ɥ(2), #u^w(2), u^w(12), u, u^w#(5), #u^w#, #ɪ(5), ɪ(16), ʊ(2), #e^j, e^j(6), eⁱ#(4), o, o#(2), o^w(7), o^w#(8), #ə(2), ə(22), ə#(4), ʌ(7), ʌ#(3), #ɛ(3), ɛ(6), ɛ^j(2), #ʌ, ʌ(2), ɔ(4), ɔ^j, #æ(2), æ(17), #aⁱ(2), a, aⁱ, a^w(2), aⁱ#(3), a#, #a(3), a(34), a#(2), a^h#

Broad: p(15), b(8), m(17), f(19), v(6), t(34), d(14), tʃ(2), dʒ(5), n(49), r, r(3), Θ(2), s(49), z(11), ʃ(8), ʒ, ɹ(35), l(24), ɫ(9), j(8), k(47), g(10), ɲ(2), x, w(8), h(4)

i(18), ɥ(2), u(21), ɪ(21), ʊ(2), e(11), o(18), ə(28), ʌ(10), ɛ(10), ʌ(3), ɔ(5), æ(19), a(10), a(40)

Supra-Segments: Consonant Clusters

Consonant Cluster Total for Stressed and Unstressed Syllables and Monosyllables according to Syllable Configuration

Monosyllable Consonant Cluster Onset (all entries are word initial): #bl, #bɹ, #fɹ, #skɹ, #st(2), #sk, #fmɹ, #fw, #k^hɹ, #k^hw

Monosyllable Consonant Cluster Coda (all entries are word final): nd#, nt#(2), nz#, ɹt#, ɹʃ#, ɬ#, ks#(2), ɲk#

First Syllable Consonant Cluster Stressed Onset (all entries are word initial): #p^hɹ, #fl(2), #sk(5), #st(5), #sp, #stɹ, #spl, #skw, #gr, #k^hɹ, #k^hɹ, #k^hj

First Syllable Consonant Cluster Stressed Coda:

First Syllable Consonant Cluster Unstressed Onset (all entries are word initial): #sm, #kl

First Syllable Consonant Cluster Unstressed Coda: ks

Second Syllable Consonant Cluster Stressed Onset: p^hɹ, t^hɹ, k^hw, gl

Second Syllable Consonant Cluster Stressed Coda: nt#, sk#

Second Syllable Consonant Cluster Unstressed Onset: fl, sk, gɹ

Second Syllable Consonant Cluster Unstressed Coda: nd#, nt#, ɲs#

Third Syllable Consonant Cluster Stressed Onset:

Third Syllable Consonant Cluster Stressed Coda:

Third Syllable Consonant Cluster Unstressed Onset: bɹ, fɹ, st(2)

Third Syllable Consonant Cluster Unstressed Coda: ns#

Fourth Syllable Consonant Cluster Stressed Onset:

Fourth Syllable Consonant Cluster Stressed Coda:

Fourth Syllable Consonant Cluster Unstressed Onset:

Fourth Syllable Consonant Cluster Unstressed Coda:

Fifth Syllable Consonant Cluster Stressed Onset:

Fifth Syllable Consonant Cluster Stressed Coda:

Fifth Syllable Consonant Cluster Unstressed Onset:

Fifth Syllable Consonant Cluster Unstressed Coda:

Consonant Cluster Total for Stressed and Unstressed Onsets and Codas

Stressed Onset: #p^hɹ, p^hɹ, #fl(2), t^hɹ, #sk(5), #st(5), #sp, #stɹ, #spl, #skw, #gr, #k^hɹ, #k^hl, #k^hj, k^hw, gl

Stressed Coda: nt#, sk#

Unstressed Onset: bɹ, fɹ, fl, sk, st(2), #sm, #kl, gɹ

Unstressed Coda: nd#, nt#, ɲs#(2), ks

Consonant Cluster Total for Onsets and Codas

Onset: #p^hɹ, p^hɹ, #bl, #bɹ, bɹ, #fɹ, fɹ, fl, #fl(2), t^hɹ, sk, #sk(6), st(2), #st(7), #sp, #sm, #stɹ, #spl, #skw, #skɹ, #fmɹ, #fw, #gr, #k^hɹ(2), #k^hl(2), #kl, #k^hj, #k^hw, k^hw, gl, gɹ

Coda: nd#(2), nt#(4), ns#(2), nz#, sk#, ɹt#, ɹf#, ɹf#, ks, ks#(2), ɲk#

Consonant Cluster Total for Stressed and Unstressed Syllables and Monosyllables

Monosyllable Consonant Cluster: #bl, #bɹ, #fɹ, nd#, nt#(2), nz#, #skɹ, #st(2), #sk, #fmɹ, #fw, ɹt#, ɹf#, ɹf#, ks#(2), #k^hl, #k^hɹ, #k^hw, ɲk#

First Syllable Consonant Cluster Stressed: #p^hɹ, #fl(2), #sk(5), #st(5), #sp, #stɹ, #spl, #skw, #gr, #k^hɹ, #k^hl, #k^hj

First Syllable Consonant Cluster Unstressed: #sm, #kl, ks

Second Syllable Consonant Cluster Stressed: p^hɹ, t^hɹ, nt#, sk#, k^hw, gl

Second Syllable Consonant Cluster Unstressed: fl, nd#, nt#, ɲs#, sk, gɹ

Third Syllable Consonant Cluster Stressed:

Third Syllable Consonant Cluster Unstressed: bɹ, fɹ, ns#, st(2)

Fourth Syllable Consonant Cluster Stressed:

Fourth Syllable Consonant Cluster Unstressed:

Fifth Syllable Consonant Cluster Stressed:

Fifth Syllable Consonant Cluster Unstressed:

Consonant Cluster Total per Syllable

First Syllable Consonant Cluster: #p^hɹ, #fl(2), #sk(5), #st(5), #sp, #sm, #stɹ, #spl, #skw, #gr, #k^hɹ, #kl, #k^hl, #k^hj, ks

Second Syllable Consonant Cluster: p^hɹ, fl, t^hɹ, nt#(2), nd#, ɲs#, sk, sk#, k^hw, gl, gɹ

Third Syllable Consonant Cluster: bɹ, fɹ, ns#, st(2)

Fourth Syllable Consonant Cluster:

Fifth Syllable Consonant Cluster:

Consonant Cluster Stressed and Unstressed Total

Consonant Cluster Stressed: #p^hɪ, p^hɪ, #fl(2), t^hɪ, nt#, #sk(5), sk#, #st(5), #sp, #stɪ, #spl, #skw, #gr, #k^hɪ, #k^hl, #k^hj, k^hw, gl

Consonant Cluster Unstressed: bɪ, fl, fɪ, nd#, nt#, ɲs#, ns#, sk, #sm, st(2), #kl, ks, gɪ

Consonant Cluster Total (absolute)

Narrow: #p^hɪ, p^hɪ, #bl, #bɪ, bɪ, #fl(2), fl, #fɪ, fɪ, t^hɪ, nt#(4), nd#(2), ɲs#, ns#, nz#, sk, #sk(6), sk#, #st(7), #sp, #sm, st(2), #stɪ, #spl, #skw, #skɪ, #fmɪ, #fw, ɪt#, ɹf#, fɸ#, ks, ks#(2), #k^hɪ(2), #kl, #k^hl(2), #k^hj, #k^hw, k^hw, gl, gɪ, #gr, ɲk#

Broad: pɪ(2), bl, bɪ(2), fl(3), fɪ(2), tɪ, nt(4), nd(2), ns(2), nz, sk(8), st(7), sp, sm, st(2), stɪ, spl, skw, skɪ, fmɪ, fw, ɪt, ɹf, fɸ, ks(3), kɪ(2), kl(3), kj, kw(2), gl, gɪ(2), ɲk

Supra-Segments: Whole Syllables

Whole Syllable Total for Stressed and Unstressed Syllables and Monosyllables

Monosyllable Whole Syllable:

#skɪɪ^hnt#, #k^hɪɪ^hs#,
#u^w#,
#don#, #sto^w#, #ho#,
#jə#,
#eks#, #dɛv#, #dʒɛz#,
#fɪɹk#,
#blænt#, #bɪænz#, #mætf#, #skæd#, #k^hæg#, #klæɲk#,
#ban#, #tʃa^ws#,
#p^hand#, #sta^h#, #fwaks#, #fmɪak#, #ɹa#, #laɹf#, #k^haɪt#, #k^hwat#

First Syllable Whole Syllable Stressed (all entries are word initial):

#i^j, #fi^j(2), #si^j, #wi^j,
#k^hʊk,
#u^w, #stu^w, #sku^w, #ju^w, #ju^wn, #k^hju^w, #grun,
#p^hɪ, #skɪ, #splɪ,
#e^j, #ne^j, #ste^j, #se^j, #ge^j,
#flo^w, #so^w, #sko^w,
#wə#,
#ɛs, #t^hɛn, #skɛ, #k^hlɛp,
#ʌp,
#p^hɔ, #ɹɔn,
#æ, #æn, #flæ, #næ, #næk, #stæt, #skæ, #stæb, #zæ, #ɹæn, #ɹæk, #k^hæm, #gɹæp,
#a^j(2),
#a(2), #aɪ, #p^hɹa, #dan, #naz, #sta, #span, #skwa, #stɹa, #zaɪ, #k^haɪ, #k^hɹa

First Syllable Whole Syllable Unstressed (all entries are word initial):

#ni^j,
#u^w, #fu^w, #dʒu^w, #gu^w, #xu^w, #hu^w,
#ɪ(2), #ɪn, #ɪm, #fɪks,
#kle^j,
#ko^w,
#ə(2), #bə, #tə, #sə, #kə,
#bə#,
#ɛ,
#smɔ,
#pa, #ma, #wan

Second Syllable Whole Syllable Stressed:

sti^j,

tʰuʷ#, dʒuʷ#, ɹuʷ#,
tʰɹɪsk#, kʰɪn,
feʲzd#,
zoʷ,
mʌn,
Θɔʲ,
tʃæ, ɹæʲn, lænt#,
pʰɹaʲ, tʰaʲ#, jaʷfɪ:#,
ma(2) maɹ(2), sa, kʰan, kʰas, kʰwa, gla

Second Syllable Whole Syllable Unstressed:

viʲ#, skiʲ#, wiʲ#,
kʰɪ,
vuʷm#, ʃuʷt#, luʷ#,
fɪ, tɪk#(2), tɪp#, dʒɪnt#, nɪk#, lɪn#, kɪf#,
ʃʊɹ#, ʃʊt#,
feʲ#, leʲg#, leʲ#, gleʲ#,
poʷ#, foʷ#, do#, noʷz#, ɹoʷ, loʷ#,
pʰɹ#, pə#, pʰən, flədʰ#, fə, nət#, rəŋ#, rə(2), sʰm#(3), sək#, sə, zʰn, ɹə, lʰŋs#, jə, kʰm#, kə,
və, dəv#, dʒə#, nə#, Θənd#, sə,
tɛz#,
fɔɹ#,
taʲ#,
taʰ#, ta#, tan#, dan#, kadʰ#

Third Syllable Whole Syllable Stressed:

niʲ

Third Syllable Whole Syllable Unstressed:

liʲ#, liʲ,
juʷ#,
vɪŋ#, nɪs#, lɪn#,
teʲ#, leʲ, heʲ,
bɹoʷ#, noʷ#(2), stoʷn#, ɹoʷ#,
bʰɹ#, mənɪs#, fə#, fɹə, də#, stə, zə#, ɹəŋ#, ləs#, jə,
nəz#,
mɛʲɹ#, dɛʲt#,
la#, kaʲ#,
tʰat#, haf#

Fourth Syllable Whole Syllable Stressed:

Fourth Syllable Whole Syllable Unstressed:

tiʲ#,
ʃɪs#,
ə#, əs#, gəs#, gʰn#

Fifth Syllable Whole Syllable Stressed:

Fifth Syllable Whole Syllable Unstressed:

Whole Syllable Total per Syllable

First Syllable Whole Syllable (all entries are word initial):

#iʲ, #fiʲ(2), #niʲ, #siʲ, #wiʲ,
#kʰɪk,
#uʷ(2), #fuʷ, #dʒuʷ, #stuʷ, #skuʷ, #juʷ, #juʷn, #kʰjuʷ, #grun, #guʷ, #xuʷ, #huʷ,
#ɪ(2), #ɪn, #ɪm, #pʰɪ, #fɪks, #skɪ, #splɪ,
#eʲ, #neʲ, #steʲ, #seʲ, #kleʲ, #geʲ,
#floʷ, #soʷ, #skoʷ, #koʷ,
#ə(2), #bə, #tə, #sə, #kə,
#bə, #wə,

#ε, #εs, #tʰɛn, #skɛ, #kʰlɛp,
 #ʌp,
 #pʰɔ, #smɔ, #ɹɔn,
 #æ, #æn, #flæ, #næ, #næk, #stæt, #skæ, #stæb, #zæ, #ɹæn, #ɹæk, #kʰæm, #gɹæp,
 #aⁱ(2),
 #a(2), #aɪ, #pa, #pʰɪa, #ma, #dan, #naz, #sta, #span, #skwa, #stɪa, #zaɪ, #kʰaɪ, #kʰɪa, #wan

Second Syllable Whole Syllable:

viⁱ#, skiⁱ#, stiⁱ, wiⁱ#,
 kʌ,
 vu^wm#, tʰu^w#, dʒu^w#, ʃu^wt#, ɹu^w#, lu^w#,
 fɪ, tɪk#(2), tɪp#, tʰɪsk#, dʒɪnt#, nɪk#, lɪn#, kɪf#, kʰɪn,
 ʃʊɹ#, ʃʊt#,
 feⁱ#, feⁱzd#, leⁱg#, leⁱ#, gleⁱ#,
 po^w#, fo^w#, do#, no^wz#, zo^w, ɹo^w, lo^w#,
 pʰɪ#, pə#, pʰən, flədʰ#, fə, nət#, ɾəŋ#, rə(2), səŋ#(3), sək#, sə, zəŋ, ɹə, ləŋs#, jə, kəŋ#, kə,
 və, dəv#, dʒə#, nə#, θənd#, sə,
 tɛz#,
 mʌn,
 ɔɹ#, θɔ^j,
 tʃæ, ɹæəŋ, lænt#,
 pʰɪaⁱ, taⁱ#, tʰaⁱ#, ja^wfɪ:#,
 taⁱʰ#, ta#, tan#, dan#, ma(2) maɪ(2), sa, kʰan, kʰas, kʰwa, kadʰ#, gla

Third Syllable Whole Syllable:

niⁱ, liⁱ#, liⁱ,
 ju^w#,
 vɪŋ#, nɪs#, lɪn#,
 teⁱ#, leⁱ, heⁱ,
 bɹo^w#, no^w#(2), sto^wn#, ɹo^w#,
 bəɪ#, məns#, fə#, fɹə, də#, stə, ʒə#, ɹəŋ#, ləs#, jə,
 nəz#,
 mɛⁱɹ#, dɛⁱʰ#,
 la#, kaⁱ#,
 tʰaⁱ#, haf#

Fourth Syllable Whole Syllable:

tiⁱ#,
 ʃɪs#,
 ə#, əs#, gəs#, gəŋ#

Fifth Syllable Whole Syllable:

Whole Syllable Stressed and Unstressed Total

Whole Syllable Stressed:

#iⁱ, #fiⁱ(2), niⁱ, #siⁱ, stiⁱ, #wiⁱ,
 #kʰʌk,
 #u^w, tʰu^w#, dʒu^w#, #stu^w, #sku^w, ɹu^w#, #ju^w, #ju^wn, #kʰju^w, #grun,
 #pʰɪ, tʰɪsk#, #skɪ, #splɪ, kʰɪn,
 #eⁱ, feⁱzd#, #neⁱ, #steⁱ, #seⁱ, #geⁱ,
 #flo^w, #so^w, #sko^w, zo^w,
 #wə,
 #εs, #tʰɛn, #skɛ, #kʰlɛp,
 #ʌp, mʌn,
 #pʰɔ, θɔ^j, #ɹɔn,
 #æ, #æn, #flæ, tʃæ, #næ, #næk, #stæt, #skæ, #stæb, #zæ, #ɹæn, ɹæəŋ, #ɹæk, lænt#, #kʰæm, #gɹæp,
 #aⁱ(2), pʰɪaⁱ, tʰaⁱ#, ja^wfɪ:#,
 #a(2), #aɪ, #pʰɪa, ma(2) maɪ(2), #dan, #naz, sa, #sta, #span, #skwa, #stɪa, #zaɪ, #kʰaɪ, #kʰɪa, kʰan, kʰas, kʰwa, gla

Whole Syllable Unstressed:

viⁱ#, tiⁱ#, #niⁱ, skiⁱ#, liⁱ#, liⁱ, wiⁱ#,

kʌ,

#u^w, #fu^w, vu^wm#, #dʒu^w, ʃu^wt#, lu^w#, ju^w#, #gu^w, #xu^w, #hu^w,

#ɪ(2), #ɪn, #ɪm, fɪ, #fɪks, vɪŋ#, tɪk#(2), tɪp#, dʒɪnt#, nɪk#, nɪs#, ʃɪs#, lɪn#(2), kɪf#,

ʃʊɹ#, ʃʊt#,

feⁱ#, teⁱ#, leⁱg#, leⁱ#, leⁱ, #kleⁱ, gleⁱ#, heⁱ,

po^w#, bu^w#, fo^w#, do#, no^wz#, no^w#(2), sto^wn#, ɹo^w#, ɹo^w, lo^w#, #ko^w,

#ə(2), ə#, əs#, pʰt#, pə#, pʰən, bʰt#, #bə, mənʰs#, fləd^h#, fə, fə#, fɹə, #tə, də#, nət#, rʰŋ#, rə(2), sʰm̩#(3), sək#, sə, #sə, stə, zʰŋ, zə#, ɹə,

ɹʰŋ#, lʰŋs#, ləs#, jə(2), kʰŋ#, kə, #kə, gəs#, gʰŋ#,

#bə, və, dəv#, dʒə#, nə#, nəz#, Өʌnd#, sə,

#ɛ, mɛɹ#, tɛz#, dɛt#,

fɹɹ#, #smɔ,

taⁱ#, la#, kaⁱ#,

#pa, #ma, ta:^h#, ta#, tan#, tʰat#, dan#, kad^h#, #wan, haf#

Whole Syllable Total (absolute)

Narrow:

#ɪⁱ, #fiⁱ(2), viⁱ#, tiⁱ#, #niⁱ, niⁱ, #siⁱ, stiⁱ, skiⁱ#, #skɪɹɪnt#, liⁱ#, liⁱ, #kʰɪɹɪs#, wiⁱ#, #wiⁱ,

kʌ, #kʰʌk,

#u^w(2), #u^w#, #fu^w, vu^wm#, tʰu^w#, #dʒu^w, dʒu^w#, #stu^w, #sku^w, ʃu^wt#, ɹu^w#, lu^w#, ju^w#, #ju^w, #ju^wn, #kʰju^w, #gu^w, #grun, #xu^w, #hu^w,

#ɪ(2), #ɪn, #ɪm, #pʰɪ, fɪ, #fɪks, vɪŋ#, tɪk#(2), tɪp#, tʰɪsk#, dʒɪnt#, nɪk#, nɪs#, #ski, #splɪ, ʃɪs#, lɪn#(2), kɪf#, kʰɪn,

ʃʊɹ#, ʃʊt#,

#eⁱ, feⁱ#, feɹzd#, teⁱ#, #neⁱ, #steⁱ, #seⁱ, leⁱg#, leⁱ#, leⁱ, #kleⁱ, #geⁱ, gleⁱ#, heⁱ,

po^w#, bu^w#, fo^w#, #flo^w, do#, #don#, no^wz#, no^w#(2), sto^wn#, #sto^w#, #so^w, #sko^w, zo^w, ɹo^w#, ɹo^w, lo^w#, #ko^w, #ho#,

#ə(2), ə#, əs#, pʰt#, pə#, pʰən, bʰt#, #bə, mənʰs#, fləd^h#, fə, fə#, fɹə, #tə, də#, nət#, rʰŋ#, rə(2), sʰm̩#(3), sək#, sə, #sə, stə, zʰŋ, zə#, ɹə,

ɹʰŋ#, lʰŋs#, ləs#, jə(2), kʰŋ#, kə, #kə, gəs#, gʰŋ#,

#bə, və, dəv#, dʒə#, nə#, nəz#, Өʌnd#, sə, #wə, #jə#,

#ɛ, #ɛks#, #ɛs, mɛɹ#, tɛz#, #tʰɛn, dɛt#, #dɛv#, #dʒɛz#, #skɛ, #kʰlɛp,

#ɹp, mɹn, #fɹɹk#,

#pʰɔ, fɹɹ#, Өɔⁱ, #smɔ, #ɹɹn,

#æ, #æn, #blænt#, #bɹænz#, #mæf#, flæ, tʃæ, #næ, #næk, #stæt, #skæ, #stæb, #skæd#, #zæ, #ɹæn, ɹæʰŋ, #ɹæk, lænt#, #kʰɹæg#,

#klæŋk#, #kʰæm, #gɹæp,

#aⁱ(2), pʰɹaⁱ, #ban#, taⁱ#, tʰaⁱ#, #tʃa^ws#, la#, ja^wfɹɹ#, kaⁱ#,

#a(2), #aɹ, #pa, #pʰɹa, #pʰand#, #ma, ma(2) maɹ(2), ta:^h#, ta#, tan#, tʰat#, #dan, dan#, #naz, sa, #sta, #span, #skwa, #stɹa, #staɹ#, #zaɹ,

#fwaks#, #fmɹak#, #ɹa#, #laɹf#, #kʰaɹt#, #kʰwat#, #kʰaɹ, #kʰɹa, kʰan, kʰas, kʰwa, kad^h#, gla, #wan, haf#

Broad:

ɪ, fi(2), vi, ti, ni(2), si, sti, ski, skɪnt, li(2), kɹɪs, wi(2),

kʌ, kʌk,

u(3), fu, vum, tu, dʒu(2), stu, sku, ʃuɹ, ɹu, lu, ju(2), jun, kju, gu, grun, xu, hu,

ɪ(2), ɪn, ɪm, pɪ, fɪ, fɪks, vɪŋ, tɪk(2), tɪp, tɹɪsk, dʒɪnt, nɪk, nɪs, ski, splɪ, ʃɪs, lɪn(2), kɪf, kɪn,

ʃʊɹ, ʃʊt,

e, fe, fezd, te, ne, ste, se, leg, le(2), kle, ge, gle, he,

po, bu, fo, flo, do, don, noz, no(2), ston, sto, so, sko, zo, ɹo(2), lo, ko, ho,

ə(3), əs, pʰt, pə, pən, bʰt, bə, mənʰs, fləd, fə(2), fɹə, tə, də, nət, rʰŋ, rə(2), sʰm̩(3), sək, sə(2), stə, zʰŋ, zə, ɹə, ɹʰŋ, lʰŋs, ləs, jə(2), kʰŋ, kə(2),

gəs, gʰŋ,

bə, və, dəv, dʒə, nə, nəz, Өʌnd, sə, wə, jə,

ɛ, ɛks, ɛs, mɛɹ, tɛz, tɛn, dɛt, dɛv, dʒɛz, skɛ, klɛp,

ɹp, mɹn, fɹɹk,

pɔ, fɹɹ, Өɔ, smɔ, ɹɹn,

æ, æn, blænt, bɹænz, mæf, flæ, tʃæ, nə, nək, stæt, skæ, stæb, skæd, zæ, ɹæn, ɹæʰŋ, ɹæk, lænt, kɹæg, klæŋk, kæm, gɹæp,

a(2), pɹa, ban, ta(2), tʃas, la, jaf, ka,

a(2), aɹ, pa, pɹa, pand, ma(3), maɹ(2), ta(2), tan, taɹ, dan(2), naz, sa, sta, span, skwa, stɹa, staɹ, zaɹ, fwaks, fmɹak, ɹa, laɹf, kaɹt, kwat,

kaɹ, kɹa, kan, kas, kwa, kad, gla, wan, haf

Supra-Segments: Whole Words

Whole Word Total per Word Length

Whole Monosyllables:

pahnd [pʰand], dev [dɛv], dohn [don], blant [blænt], stoh [stoʷ], oo [uʷ], rah [ɹa], malf [mæɪf], shmrahk [ʃmɹak],
 fruhk [fɹʌk], skad [skæd], branz [brænz], lahrsh [laɹʃ], bahn [ban], yur [jə], kart [kʰaɹt], chouse [tʃaʷs], kreesee [kʰɹiːs],
 krag [kʰɹæg], kwaht [kʰwat], ho [ho], schwahks [ʃwaks], jez [dʒɛz], klank [klæŋk], stall [staɫ], eks [ɛks], skreent [skɹiːnt]

Whole Bisyllables:

AHskee [ʰa·skiʲ], SKWAHkum [ʰskwa·kəm], YOUfay [ʰjuʷ·feʲ], FEEtah [ʰfiː·taːʰ], GROONdoh [ʰgrun·do], EHStah [ʰɛs·ta],
 KRAHnuhr [ʰkʰɹa·nə], SKOOTip [ʰskuʷ·tɪp], NAKish [ʰnæ·kɪʃ], GAYden [ʰgeʲ·rən], GRAPshur [ʰgɹæp·ʃuɹ], AHRvee [ʰaɹ·viː],
 SPLIHnik [ʰsplɪ·nɪk], KLEPtik [ʰkʰlɛp·tɪk], NAYvroom [ʰneʲ·vuʷm], EYEsun [ʰaʲ·səm], FLOWtahn [ʰfloʷ·tan], STAYtez [ʰsteʲ·tɛz],
 RANfluhd [ʰɹæn·flədʰ], STRAHfo [ʰstɹa·foʷ], STATsum [ʰstæt·səm], OOWee [ʰuʷ·wiː], SKIHsuhk [ʰskɪ·sək], RAKtik [ʰɹæk·tɪk],
 PIHjuhr [ʰpʰɪ·dʒə], NAHZdahn [ʰnaz·dan], SKAthurnd [ʰskæ·θənd], KOOKsum [ʰkʰək·səm], SEElayg [ʰsiː·leʲg], ANdurve [ʰæn·dəv],
 KAMlin [ʰkʰæm·lɪn], KAHRtie [ʰkʰaɹ·taʲ], ZAHRglay [ʰzaɹ·gleʲ], AYlay [ʰeʲ·leʲ], PRAHjint [ʰpʰɹa·dʒɪnt], WEElunce [ʰwiː·lənʃs],
 EENohz [ʰiː·noʷz], STAHNut [ʰsta·nət], SPAHNshool [ʰspan·fuʷɫ], RAHNkahd [ʰɹɔn·kadʰ], SAYlow [ʰseʲ·loʷ], DAHNfor [ʰdan·fɔɹ],
 AHpul [ʰa·pʰɫ], ZApoe [ʰzæ·poʷ], TENloo [ʰtʰɛn·luʷ], SKOWpuh [ʰskoʷ·pə]

wahnJOO [wan·ʰdʒuʷ], ehTRISK [ɛ·ʰtʰɹɪsk], uhTYE [ə·ʰtʰaʲ], neeYOWF [niː·ʰjaʷfz], smoROO [smɔ·ʰuʷ], fooLANT [fuʷ·ʰlənt],
 koeTOO [koʷ·ʰtʰuʷ], buhFAYZD [bə·ʰfeʲzd]

Whole Trisyllables:

NAKsuhmunce [ʰnæk·sə·məns], Asuhrtahl [ʰæ·sə·tʰaɫ], YOUNyuhlus [ʰjuʷn·jə·ləs], UPshoollee [ʰʌp·ʃuɫ·liː], SKEHtuhkai [ʰske·rə·kaʲ],
 WURrowbro [ʰwə·ɹoʷ·brɔʷ], PORuhtay [ʰpʰɔ·ɹə·teʲ], FLAkuhbul [ʰflæ·kə·bʰɫ], STABvurnis [ʰstæb·və·nɪs], STOOfunurz [ʰstuʷ·fə·nəz],
 EYEzunhahf [ʰaʲ·zən·haf], FEEkoolah [ʰfiː·kʰə·la],

pahKAHSyou [pa·ʰkʰas·juʷ], kuhMAHRstone [kə·ʰmaɹ·stoʷn], imPRYveeng [ɪm·ʰpʰɹaʲ·vɪŋ], hooMAHrow [huʷ·ʰma·ɹoʷ], ooCHANoe [uʷ·ʰtʃæ·noʷ],
 uhRANduh [ə·ʰɹæən·də], burMAHRLin [bə·ʰmaɹ·lɪn], klayMAHrun [kleʲ·ʰma·ɹən], jooSTEEfuh [dʒuʷ·ʰstiː·fə], ihKINzhuh [ɪ·ʰkʰɪn·ʒə],
 fiksTHOYdale [fɪks·ʰθɔʲ·deʲɫ], ihGLAHnoe [ɪ·ʰgla·noʷ], suhKWAHmair [sə·ʰkʰwa·mɛʲɹ]

Whole Tetrasyllables:

SOPunhaygun [ʰsoʷ·pʰən·heʲ·gən], KYOUtuhlayus [ʰkʰjuʷ·rə·leʲ·əs],

tuhKHANyuhlee [tə·ʰkʰan·jə·liː], hooMUHNstuhtee [xuʷ·ʰmʌn·stə·tiː], gooSAHfruhgus [guʷ·ʰsa·fɹə·gəs], mahZOEleeuh [ma·ʰzoʷ·liː·ə],

infihNEEshis [ɪn·fɪ·ʰniː·ʃɪs]

Whole Pentasyllables:



Question ID: g.

Segments

Segment Total for Stressed and Unstressed Syllables and Monosyllables according to Syllable Configuration

Monosyllable Onset: #m(2), #f(3), #v, #t^h, t(2), #d(3), #tʃ, #n, #s(4), #ʃ(2), #ɹ, ɹ(4), l, #k^h, k, w(2)

Monosyllable Nucleus: i^j, u^w, ɪ, e^j(2), e#, o, ə(2), ε(2), ʌ, #ɔ, ɔ(2), æ, a#, a(5)

Monosyllable Coda: p#, p, m#, t#(6), n, n#, θ#, s(4), ɹ(3), ʔ(2), t#(2), k#(5), g#(2), ŋ(2), h#

First Syllable Segment Stressed Onset: p(3), #p^h, #b(2), b, #m, #f, #v, #t^h(2), t(2), #d(5), r, #s(6), #z, #ʃ(3), #ɹ(7), ɹ(13), l, #k, #k^h(8), k, #g(4), #w(4), #h(4)

First Syllable Segment Stressed Nucleus: i^j(2), u, u^w(3), #ɪ, ɪ(10), e^j, o^w(2), ə, ε(3), ʌ(4), #ɔ, #æ, æ(3), #a^j(3), a^j(2), a, #a, a(18)

First Syllable Segment Stressed Coda: b, m(3), v, n(5), r, θ, s(5), z, ɹ(5), ʔ, g, ŋ(3)

First Syllable Segment Unstressed Onset: p, #p^h, #m(5), #f(2), t(2), #d(2), #dʒ, #r, #s(4), #ɹ(5), ɹ(4), #k(3), #k^h, #g(2), #h

First Syllable Segment Unstressed Nucleus: i^j(2), #u^w, u^w(2), #ɪ, ɪ(3), e^j(2), #ə(2), ə(14), ə, ɔ, a, a^j, #a, a(2)

First Syllable Segment Unstressed Coda: b, m ɹ(2), ʔ, k, ŋ

Second Syllable Segment Stressed Onset: b(4), v(2), t, t^h(3), d(3), n(4), s, ʃ, ɹ(5), l(5), j, k^h(2), h

Second Syllable Segment Stressed Nucleus: i^j, u^w(3), ɪ(2), e^j, o^w(3), ε(2), ɔ, æ(2), a^j(6), a(7)

Second Syllable Segment Stressed Coda: b#, f, t#, d#(2), n(3), n#, s#, z#, l#, k, k#

Second Syllable Segment Unstressed Onset: p^h, p(3), b(3), m(4), f(2), v(2), t(9), d(5), dʒ, n(6), r(3), s(6), z, ʃ, ɹ(9), l(6), j(2), k(4), g(3)

Second Syllable Segment Unstressed Nucleus: i^j, i^j#(6), u^w, ɪ(8), ʊ, e#, o^w, o^w#(3), ə(13), ə#, ʔ(2), ʔ#(5), ʔŋ(2), ʔŋ#(2), ʔm#(2), ə(2), ə#(2), ε, æ, a^j(2), a^j#, a^w#, a(5)

Second Syllable Segment Unstressed Coda: p#, t#, t^h#, d#(3), dʒ#, n(2), n#(2), s, s#(3), ʃ#, ɹ#, t#(2), ŋ#

Third Syllable Segment Stressed Onset: f, t^h, ɹ, l, k^h

Third Syllable Segment Stressed Nucleus: i^j, æ, a

Third Syllable Segment Stressed Coda: k

Third Syllable Segment Unstressed Onset: m, f, v(2), t(5), d(4), dʒ, n(2), r(2), s(3), z(4), ʃ, ɹ(5), l(2), j, k(5)

Third Syllable Segment Unstressed Nucleus: i^j, i^j#(2), i#, u^w(3), ɪ(6), e^j(3), ə(7), ə#(2), ʔ#(4), ʔŋ#, ʔŋ#, ə#(2), æ(2), a^j, a

Third Syllable Segment Unstressed Coda: p#, t#(2), n#, s(2), s#(3), ɹ#, t#(2), k#(4), g^h#, ŋ#

Fourth Syllable Segment Stressed Onset:

Fourth Syllable Segment Stressed Nucleus:

Fourth Syllable Segment Stressed Coda:

Fourth Syllable Segment Unstressed Onset: m, v, r, s, l, k(2)

Fourth Syllable Segment Unstressed Nucleus: i^j#, u^w#, o^w#, ə(2), ə#(2), ʔ#(2), ə#

Fourth Syllable Segment Unstressed Coda: d#

Fifth Syllable Segment Stressed Onset:

Fifth Syllable Segment Stressed Nucleus:

Fifth Syllable Segment Stressed Coda:

Fifth Syllable Segment Unstressed Onset:

Fifth Syllable Segment Unstressed Nucleus:

Fifth Syllable Segment Unstressed Coda:

Segment Total for Stressed and Unstressed Onsets and Codas

Stressed Onset: p(3), #p^h, #b(2), b(5), #m, #f, f, #v, v(2), #t^h(2), t(3), t^h(4), #d(5), d(3), n(4), r, #s(6), s, #z, #f(3), ʃ, #ɹ(7), ɹ(19), l(7), j, #k, #k^h(8), k^h(3), k, #g(4), #w(4), #h(4), h

Stressed Coda: b, b#, m(3), f, v, t#, d#(2), n(8), r, ʈ, s(5), s#, z, z#, ɹ(5), l#, t, k(2), k#, g, ŋ(3)

Unstressed Onset: #p^h, p^h, p(4), b(3), #m(5), m(6), #f(2), f(3), v(5), t(16), #d(2), d(9), #dʒ, dʒ(2), n(8), #r, r(6), #s(4), s(10), z(5), ʃ(2), #ɹ(5), ɹ(18), l(9), j(3), #k(3), #k^h, k(11), #g(2), g(3), #h

Unstressed Coda: p#(2), b, m, t#(3), t̥#, dʒ#, n(2), n#(3), s(3), s#(6), ʃ#, ɹ(2), ɹ#(2), t, t#(4), k, k#(4), g̃#, ŋ, ŋ#(2)

Segment Total for Onsets and Codas

Onset: #p^h(2), p^h, p(7), #b(2), b(8), #m(8), m(6), #f(6), f(4), #v(2), v(7), #t^h(3), t(21), t^h(4), #d(10), d(12), #tʃ, #dʒ, dʒ(2), #n, n(12), #r, r, r(6), #s(14), s(11), #z, z(5), #f(5), ʃ(3), #ɹ(13), ɹ(41), l(17), j(4), #k(4), #k^h(10), k^h(3), k(13), #g(6), g(3), #w(4), w(2), #h(5), h

Coda: p, p#(3), b(2), b#, m(4), m#, f, v, t#(10), t̥#, d#(6), dʒ#, n(11), n#(4), r, ʈ, ʈ#, s(12), s#(7), z, z#, ʃ#, ɹ(10), ɹ#(2), l#, t(4), t#(6), k(3), k#(10), g, g̃#, g#(2), ŋ(6), ŋ#(2), h#

Segment Total for Stressed and Unstressed Syllables and Monosyllables

Monosyllable Segment: p#, p, #m(2), m#, #f(3), #v, #t^h, t(2), t#(6), #d(3), #tʃ, #n, n, n#, ʈ#, #s(4), s(4), #f(2), #ɹ, ɹ(7), l, t(2), t#(2), #k^h, k, k#(5), g#(2), ŋ(2), w(2), h#

i^j, u^w, ɪ, e^j(2), e#, o, ʌ(2), ε(2), ʌ, #ɔ, ɔ(2), æ, a#, a(5)

First Syllable Segment Stressed: p(3), #p^h, #b(2), b(2), #m, m(3), #f, #v, v, #t^h(2), t(2), #d(5), n(5), r(2), ʈ, #s(6), s(5), #z, z, #f(3), #ɹ(7), ɹ(18), l, t, #k, #k^h(8), k, #g(4), g, ŋ(3), #w(4), #h(4)

i^j(2), u, u^w(3), #ɪ, ɪ(10), e^j, o^w(2), ʌ, ε(3), ʌ(4), #ɔ, #æ, æ(3), #a^j(3), a^j(2), a, #a, a(18)

First Syllable Segment Unstressed: p, #p^h, b, #m(5), m, #f(2), t(2), #d(2), #dʒ, #r, #s(4), #ɹ(5), ɹ(6), t, #k(3), #k^h, k, #g(2), ŋ, #h

i^j(2), #u^w, u^w(2), #ɪ, ɪ(3), e^j(2), #ə(2), ə(14), ʌ, ɔ, a, a^j, #a, a(2)

Second Syllable Segment Stressed: b(4), b#, f, v(2), t, t^h(3), t#, d(3), d#(2), n(7), n#, s, s#, z#, ʃ, ɹ(5), l(5), l#, j, k^h(2), k, k#, h

i^j, u^w(3), ɪ(2), e^j, o^w(3), ε(2), ɔ, æ(2), a^j(6), a(7)

Second Syllable Segment Unstressed: p^h, p(3), p#, b(3), m(4), ʌm#(2), f(2), v(2), t(9), t#, t̥#, d#(3), d(5), dʒ, dʒ#, n(8), n#(2), ʌŋ(2), ʌŋ#(2), r(3), s(7), s#(3), z, ʃ, ʃ#, ɹ(9), ɹ#, l(6), t#(2), ʌt̥(2), ʌt̥#(5), j(2), k(4), g(3), ŋ#

i^j, i^j#(6), u^w, ɪ(8), ʊ, e#, o^w, o^w#(3), ə(13), ə#, ʌ(2), ʌ#(2), ε, æ, a^j(2), a^j#, a^w#, a(5)

Third Syllable Segment Stressed: f, t^h, ɹ, l, k^h, k

i^j, æ, a

Third Syllable Segment Unstressed: p#, m, ʌm#, f, v(2), t(5), t#(2), d(4), dʒ, n(2), n#, ʌŋ#, r(2), s(5), s#(3), z(4), ʃ, ɹ(5), ɹ#, l(2), t#(2), ʌt̥#(4), j, k(5), k#(4), g̃#, ŋ#

i^j, i^j#(2), i#, u^w(3), ɪ(6), e^j(3), e^j#, ə(7), ə#(2), ʌ#(2), æ(2), a^j, a

Fourth Syllable Segment Stressed:

Fourth Syllable Segment Unstressed: m, v, d#, r, s, l, ʌt̥#(2), k(2)

i^j#, u^w#, o^w#, ə(2), ə#(2), ʌ#

Fifth Syllable Segment Stressed:

Fifth Syllable Segment Unstressed:

Segment Total by Syllable

First Syllable Segment: p(4), #p^h(2), #b(2), b(3), #m(6), m(4), #f(3), #v, v, #t^h(2), t(4), #d(7), #dʒ, n(5), #r, r(2), Ø, #s(10), s(5), #z, z, #ʃ(3), #ʒ(2), ʒ(24), l, t(2), #k(4), #k^h(9), k(2), #g(6), g, ŋ(4), #w(4), #h(5)

i^j(4), #u^w, u, u^w(5), #ɪ(2), ɪ(13), eⁱ(3), o^w(2), #ə(2), ə(14), ʌ(2), ε(3), ʌ(4), #ɔ, ɔ, #æ, æ(3), #aⁱ(3), aⁱ(3), a(2), #a(2), a(20)

Second Syllable Segment: p^h, p(3), p#, b(7), b#, m(4), ʌm(2), f(3), v(4), t(10), t^h(3), t#(2), t^h#, d#(3), d(8), d#(2), dʒ, dʒ#, n(15), n#(2), ʌn(2), ʌn#(2), r(3), s(8), s#(4), z, z#, ʃ(2), ʃ#, ʒ(14), ʒ#, l(11), l#, t#(2), t^h(2), t^h#(5), j(3), k(5), k^h(2), k#, g(3), ŋ#, h

i^j(2), i^j#(6), u^w(4), ɪ(10), ʊ, e#, eⁱ, o^w(4), o^w#(3), ə(13), ə#, ʌ(2), ʌ#(2), ε(3), ɔ, æ(3), aⁱ(8), aⁱ#, a^w#, a(12)

Third syllable Segment: p#, m, ʌm#, f(2), v(2), t(5), t^h, t#(2), d(4), dʒ, n(2), n#, ʌn#, r(2), s(5), s#(3), z(4), ʃ, ʒ(6), ʒ#, l(3), t#(2), t^h#(4), j, k(6), k^h, k#(4), g^h#, ŋ#

i^j(2), i^j#(2), i#, u^w(3), ɪ(6), eⁱ(3), eⁱ#, ə(7), ə#(2), ʌ#(2), æ(3), aⁱ, a(2)

Fourth Syllable Segment: m, v, d#, r, s, l, t^h#(2), k(2)

i^j#, u^w#, o^w#, ə(2), ə#(2), ʌ#

Fifth Syllable Segment:

Segment Stressed and Unstressed Total

Stressed Segment: p(3), #p^h, #b(2), b(6), b#, #m, m(3), #f, f(2), #v, v(3), #t^h(2), t^h(4), t(3), t#, #d(5), d(3), d#(2), n(12), n#, r(2), Ø, #s(6), s(6), s#, #z, z, z#, #ʃ(3), ʃ, #ʒ(7), ʒ(24), l(7), l#, t, j, #k, #k^h(8), k^h(3), k(3), k#, #g(4), g, ŋ(3), #w(4), #h(4), h

i^j(4), u, u^w(6), #ɪ, ɪ(12), eⁱ(2), o^w(5), ʌ, ε(5), ʌ(4), #ɔ, ɔ, #æ, æ(6), #aⁱ(3), aⁱ(8), a, #a, a(26)

Unstressed Segment: #p^h, p^h, p(4), p#(2), b(4), #m(5), m(7), ʌm#(3), #f(2), f(3), v(5), t(16), t#(3), t^h#, #d(2), d#(4), d(9), #dʒ, dʒ(2), dʒ#, n(10), n#(3), ʌn(2), ʌn#(3), #r, r(6), #s(4), s(13), s#(6), z(5), ʃ(2), ʃ#, #ʒ(5), ʒ(20), ʒ#(2), l(9), t, t#(4), t^h(2), t^h#(11), j(3), #k(3), #k^h, k(12), k#(4), #g(2), g(3), g^h#, ŋ, ŋ#(2), #h

i^j(4), i^j#(9), i#, #u^w, u^w(6), u^w#, #ɪ, ɪ(17), ʊ, eⁱ(5), eⁱ#, e#, o^w, o^w#(4), #ə(2), ə(36), ə#(5), ʌ(3), ʌ#(5), ε, ɔ, æ(3), a, aⁱ(4), aⁱ#, a^w#, #a, a(8)

Segment Total (absolute)

Narrow: #p^h(2), p^h, p(8), p#(3), #b(2), b(10), b#, #m(8), m(10), m#, ʌm#(3), #f(6), f(5), #v(2), v(8), #t^h(3), t^h(4), t(21), t#(10), t^h#, #d(10), d(12), d#(6), #tʃ, #dʒ, dʒ(2), dʒ#, #n, n(23), n#(5), ʌn(2), ʌn#(3), r(2), #r, r(6), Ø, Ø#, #s(14), s(23), s#(7), #z, z(6), z#, #ʃ(5), ʃ(3), ʃ#, #ʒ(13), ʒ(51), ʒ#(2), l(17), l#, t(4), t#(6), t^h(2), t^h#(11), j(4), #k(4), #k^h(10), k^h(3), k(16), k#(10), #g(6), g(4), g^h#, g#(2), ŋ(6), ŋ#(2), #w(4), w(2), #h(5), h, h#

i^j(9), i^j#(9), i#, #u^w, u, u^w(13), u^w#, #ɪ(2), ɪ(30), ʊ, eⁱ(9), eⁱ#, e#(2), o, o^w(6), o^w#(4), #ə(2), ə(36), ə#(5), ʌ(6), ʌ#(5), ε(8), ʌ(5), #ɔ(2), ɔ(4), #æ, æ(10), #aⁱ(3), a(2), aⁱ(12), aⁱ#, a^w#, a#, #a(2), a(39)

Broad: p(14), b(13), m(22), f(11), v(10), t(39), d(28), tʃ, dʒ(4), n(34), r(3), r(6), Ø(2), s(44), z(8), ʃ(9), ʒ(66), l(18), t(23), j(4), k(44), g(13), ŋ(8), w(6), h(7)

i(19), u(16), ɪ(32), ʊ, e(12), o(11), ə(43), ʌ(11), ε(8), ʌ(5), ɔ(6), æ(11), a(20), a(41)

Supra-Segments: Consonant Clusters

Consonant Cluster Total for Stressed and Unstressed Syllables and Monosyllables according to Syllable Configuration

Monosyllable Consonant Cluster Onset (all entries are word initial): #fl, #dʒ, #sw, #st(2), #skw, #ʃʒ, #k^hʒ(2)

Monosyllable Consonant Cluster Coda (all entries are word final): nt#, st#(2), ʒk#, ʒst#(2), tʃθ#, tʃm#, ŋk#(2)

First Syllable Consonant Cluster Stressed Onset (all entries are word initial): #p^hʒ, #bl, #vr, #t^hw, #dʒ, #sp, #spʒ(2), #st, #stʒ, #skʒ, #ʃb, #k^hʒ(5), #gʒ(2)

First Syllable Consonant Cluster Stressed Coda:

First Syllable Consonant Cluster Unstressed Onset (all entries are word initial): #dɹ, #st(2), #sp, #kʰj
First Syllable Consonant Cluster Unstressed Coda:

Second Syllable Consonant Cluster Stressed Onset: pɹ, bj, bl, st(2), kʰɹ, kʰl
Second Syllable Consonant Cluster Stressed Coda: nz#, nd#

Second Syllable Consonant Cluster Unstressed Onset: bj, fɹ, tɹ, dɹ, st
Second Syllable Consonant Cluster Unstressed Coda: nd#, st#

Third Syllable Consonant Cluster Stressed Onset: fl, tʰɹ, kɹ
Third Syllable Consonant Cluster Stressed Coda:

Third Syllable Consonant Cluster Unstressed Onset: st
Third Syllable Consonant Cluster Unstressed Coda: st#(2)

Fourth Syllable Consonant Cluster Stressed Onset:
Fourth Syllable Consonant Cluster Stressed Coda:
Fourth Syllable Consonant Cluster Unstressed Onset:
Fourth Syllable Consonant Cluster Unstressed Coda:

Fifth Syllable Consonant Cluster Stressed Onset:
Fifth Syllable Consonant Cluster Stressed Coda:
Fifth Syllable Consonant Cluster Unstressed Onset:
Fifth Syllable Consonant Cluster Unstressed Coda:

Consonant Cluster Total for Stressed and Unstressed Onsets and Codas

Stressed Onset: #pʰɹ, pɹ, bj, bl, #bl, fl, #vr, #tʰw, tʰɹ, #dɹ, #sp, #spɹ(2), #st, st(2), #stɹ, #skɹ, #fb, #kʰɹ(5), kʰɹ, kɹ, kʰl, #gɹ(2)

Stressed Coda: nz#, nd#

Unstressed Onset: bj, fɹ, tɹ, dɹ, #dɹ, #st(2), st(2), #sp, #kʰj

Unstressed Coda: nd#, st#(3)

Consonant Cluster Total for Onsets and Codas

Onset: #pʰɹ, pɹ, bj(2), bl, #bl, #fl, fl, fɹ, #vr, #tʰw, tʰɹ, tɹ, dɹ, #dɹ(3), #sp(2), #spɹ(2), #st(5), st(4), #stɹ, #skɹ, #sw, #skw, #fb, #fɹ, #kʰɹ(7), kʰɹ, kɹ, kʰl, #kʰj, #gɹ(2)

Coda: nt#, nd#(2), nz#, st#(5), ɹk#, ɹst#(2), tɹθ#, tɹm#, ŋk#(2)

Consonant Cluster Total for Stressed and Unstressed Syllables and Monosyllables

Monosyllable Consonant Cluster: #fl, #dɹ, nt#, #sw, #st(2), st#(2), #skw, #fɹ, ɹk#, ɹst#(2), tɹθ#, tɹm#, #kʰɹ(2), ŋk#(2)

First Syllable Consonant Cluster Stressed: #pʰɹ, #bl, #vr, #tʰw, #dɹ, #sp, #spɹ(2), #st, #stɹ, #skɹ, #fb, #kʰɹ(5), #gɹ(2)

First Syllable Consonant Cluster Unstressed: #dɹ, #st(2), #sp, #kʰj

Second Syllable Consonant Cluster Stressed: pɹ, bj, bl, nz#, nd#, st(2), kʰɹ, kʰl
Second Syllable Consonant Cluster Unstressed: bj, fɹ, tɹ, dɹ, nd#, st, st#

Third Syllable Consonant Cluster Stressed: fl, tʰɹ, kɹ

Third Syllable Consonant Cluster Unstressed: st, st#(2)

Fourth Syllable Consonant Cluster Stressed:
Fourth Syllable Consonant Cluster Unstressed:

Fifth Syllable Consonant Cluster Stressed:
Fifth Syllable Consonant Cluster Unstressed:

Consonant Cluster Total per Syllable

First Syllable Consonant Cluster: #pʰɹ, #bl, #vr, #tʰw, #dɹ(2), #sp(2), #spɹ(2), #st(3), #stɹ, #skɹ, #fb, #kʰɹ(5), #kʰj, #gɹ(2)

Second Syllable Consonant Cluster: pɹ, bj(2), bl, fɹ, tɹ, dɹ, nz#, nd#(2), st(3), st#, kʰɹ, kʰl

Third Syllable Consonant Cluster: fl, tʰɹ, st, st#(2), kɹ

Fourth Syllable Consonant Cluster:

Fifth Syllable Consonant Cluster:

Consonant Cluster Stressed and Unstressed Total

Consonant Cluster Stressed: #pʰɹ, pɹ, #bl, bl, bj, fl, #vr, #tʰw, tʰɹ, #dɹ, nz#, nd#, #sp, #spɹ(2), #st, st(2), #stɹ, #skɹ, #fb, #kʰɹ(5), kʰɹ, kɹ, kʰl, #gɹ(2)

Consonant Cluster Unstressed: bj, fɹ, tɹ, #dɹ, dɹ, nd#, #sp, #st(2), st(2), st#(3), #kʰj

Consonant Cluster Total (absolute)

Narrow: #pʰɹ, pɹ, #bl, bl, bj(2), #fl, fl, fɹ, #vr, #tʰw, tʰɹ, tɹ, #dɹ(3), dɹ, nz#, nt#, nd#(2), #sp(2), #spɹ(2), #st(5), st(4), st#(5), #stɹ, #skɹ, #skw, #sw, #fb, #fɹ, ɹk#, ɹst#(2), ɹpθ#, ɹm#, #kʰɹ(7), kʰɹ, kɹ, kʰl, #kʰj, #gɹ(2), ɹk#(2)

Broad: pɹ(2), bl(2), bj(2), fl(2), fɹ, vr, tw, tɹ(2), dɹ(4), nz, nt, nd(2), sp(2), spɹ(2), st(14), stɹ, skɹ, skw, sw, fb, fɹ, ɹk, ɹst(2), ɹpθ, ɹm, kɹ(9), kl, kj, gɹ(2), ɹk(2)

Supra-Segments: Whole Syllables

Whole Syllable Total for Stressed and Unstressed Syllables and Monosyllables

Monosyllable Whole Syllable:

#tʰiɹn#,
#kʰɹuʷg#,
#nɹk#,
#meɹɹk#, #ve#, #tfeɹɹ#,
#ɹoɹm#,
#dæɹk#, #fæst#,
#skweɹɹ#, #fɹeg#,
#swɹst#,
#ɹɹpθ#, #fɹɹst#(2),
#dænt#,
#fla#,
#maɹk#, #dɹap#, #staɹ#, #stah#, #kʰɹaɹk#

First Syllable Whole Syllable Stressed (all entries are word initial):

#stiɹ, #kʰɹiɹ, #hiɹm,
#vrɹn, #kʰuʷn, #wuʷ, #huʷ,
#ɹ, #tʰwɹn, #tʰɹɹ, #dɹɹ, #spɹ, #fɹ, #kʰɹɹ, #kʰɹɹs(2), #wɹn, #hiɹ,
#spɹeɹ,
#ɹoʷ, #hoʷ,
#fæɹ,
#dɹ, #dɹv, #zɹ,
#dɹɹɹ, #dɹs, #ɹɹs, #wɹɹɹ,
#ɹɹ,
#æ, #spɹæɹs, #ɹæɹn, #kʰɹæɹ,
#aɹ(3), #faɹ, #skɹaɹ, #kar,
#ag, #pʰɹɹ, #baθ, #blaz, #maɹ, #stɹa, #fbɹɹ, #ɹa(4), #ɹam, #kʰa, #kʰam, #gɹab, #gɹa, #gaɹ, #ga

First Syllable Whole Syllable Unstressed (all entries are word initial):

#miɹ, #fiɹ,
#uʷ, #pʰɹuʷ, #ɹuʷm,
#ɹ, #fɹɹ, #dɹɹb, #spɹɹ,
#ɹeɹ(2),
#æ(2), #mə, #mæɹ, #dæ, #dɹɹ, #sə, #stə(2), #ɹə(3), #kə(2), #kʰɹə, #gə,

#mə,
#kɔɪ,
#ra, #haⁱ,
#ak, #ma, #gaɪ

Second Syllable Whole Syllable Stressed:

fɪⁱ,
bju^wn#, ɹu^wd#,
dɪb#, nɪ,
steⁱ,
blo^w, t^ho^w, ɹo^w,
t^hɛk, nɛs#,
bɔ,
dæ, jæn, k^hæk#,
baⁱt#, vaⁱnz#, vaⁱnd#, daⁱ, laⁱ, hal#,
t^ha, dan, na, ɹa(2), ɹan, laf, k^hla

Second Syllable Whole Syllable Unstressed:

pɪⁱ#, pɹɪⁱ#, bɪⁱ#, sɪⁱ, stɪⁱ#, zɪⁱ#, kɪⁱ#,
bju^w, lu^w#,
mɪs#, fɹɪn#, vɪs#, nɪ, nɪf#, nɪs, lɪn#, lɪŋ#,
ɹʊp#,
te#,
to^w#, sto^w, lo^w#, go^w#,
bɛⁱ, mə#, məs#, vɛⁱ, tɪə, tə, dəⁱm#, dɪə, dɛⁱ#, dəⁱm#, nə(2), rɛⁱ##(2), rəⁱ#, sə(2), stəⁱ#, fəⁱnd#, ɹə(2), lən, lə, ɛⁱ#, kətⁱ#, kɛⁱ#, gəst#,
təⁱ#, dʒəⁱd#, nəⁱ, gəⁱ#,
pɛd#,
p^ha^w#, faⁱ#, ɹaⁱ#, kaⁱ,
maɪ#, taⁱ#, lɑdʒ#

Third Syllable Whole Syllable Stressed:

t^hɹɪⁱ,
k^hæ,
flak

Third Syllable Whole Syllable Unstressed:

dɪ#, rɪⁱ#, zɪⁱ, zɪⁱ#,
nu^w, ɹu^wp#, ju^w#,
mɪk#, vɪŋ#, tɪg^ˈ#, dʒɪst#, rɪk#, ɹɪⁱ#,
veⁱ#, teⁱ#, ɹeⁱ, keⁱ,
tə, də#, nəⁱ#, sə, stə, səⁱm#, zɛⁱ#, zə#, fəs#, ɹəst#, ləs#(2), kɛⁱ##(3),
ə#, fəⁱ#,
dæk#, kɹæk#,
daⁱn#,
taɪ#

Fourth Syllable Whole Syllable Stressed:

Fourth Syllable Whole Syllable Unstressed:

sɪⁱ#,
ku^w#,
o^w#,
ə#, mə#, rəd#, lə#, ɛⁱ#, kɛⁱ#,
vəⁱ##

Fifth Syllable Whole Syllable Stressed:

Fifth Syllable Whole Syllable Unstressed:

Whole Syllable Total per Syllable

First Syllable Whole Syllable (all entries are word initial):

#mɪʲ, #fɪʲ, #stɪʲ, #kʰɪʲ, #hɪʲm,
#uʷ, #pʰɪuʷ, #vrɪn, #ɪuʷm, #kʰuʷn, #wuʷ, #huʷ,
#ɪ(2), #fɪŋ, #tʰwɪn, #tʰɪt, #dɪŋ, #dɪɪb, #spɪ(2), #fɪ, #kʰɪɪ, #kʰɪɪs(2), #wɪn, #hɪ,
#spɪeʲ, #ɪeʲ(2),
#ɪoʷ, #hoʷ,
#ə(2), #mə, #mət, #də, #dʒə, #sə, #stə(2), #ɪə(3), #kə(2), #kʰɪə, #gə,
#mə, #fə,
#dɛ, #dɛv, #zɛ,
#dɪɪŋ, #dɪs, #ɪɪs, #wɪŋ,
#ɔɪ, #kɔɪ,
#æ, #spɪæs, #ɪæn, #kʰɪæ,
#aʲ(3), #faʲ, #ra, #skɪaʲ, #kar, #haʲ,
#ag, #ak, #ma, #pʰaɪ, #baθ, #blaz, #maɪ, #stɪa, #fbaɪ, #ɪa(4), #ɪam, #kʰa, #kʰam, #gɪab, #gɪa, #gaɪ(2), #ga

Second Syllable Whole Syllable:

pɪʲ#, pɪʲ#, bɪʲ#, sɪʲ, stɪʲ#, zɪʲ#, fɪʲ, kɪʲ#,
bɪuʷ, bɪuʷn#, ɪuʷd#, luʷ#,
mɪs#, fɪɪn#, vɪs#, dɪb#, nɪ(2), nɪf#, nɪs, lɪn#, lɪŋ#,
ɪʊp#,
te#, steʲ,
toʷ#, stoʷ, bloʷ, tʰoʷ, ɪoʷ, loʷ#, goʷ#,
bɪʲ, mə#, məs#, vɪʲ, tɪə, tə, dʰmɪ#, dɪə, dʰɪ#, dʰmɪ, nə(2), rɪʲ(2), rɪʲ#, sə(2), stɪʲ#, fɪʲnd#, ɪə(2), lən, lə, ɪʲ#, kətʰ#, kɪʲ#, gəst#,
təʲ#, dʒəʲd#, nə, gəʲ#,
pɛd#, tʰɛk, nɛs#,
bɔ,
dæ, jæn, kʰɪæk#,
pʰaʷ#, baʲt#, faʲt#, vaʲnz#, vaʲnd#, daʲ, naʲ, ɪaʲ#, laʲ, kaʲ, hal#,
maɪ#, taʲt#, tʰa, dan, na, ɪa(2), ɪan, laf, laɖʒ#, kʰla

Third Syllable Whole Syllable:

tʰɪɪʲ, dɪ#, rɪʲ#, zɪʲ, zɪʲ#,
nuʷ, ɪuʷp#, juʷ#,
mɪk#, vɪŋ#, tɪgʷ#, dʒɪst#, rɪk#, ɪtʰ#,
veʲt#, teʲ#, ɪeʲ, keʲ,
tə, də#, nɪʲ#, sə, stə, sɪʲm#, zɪʲ#, zə#, fəs#, ɪəst#, ləs(2), kɪʲ(3),
ə#, fəʲ#,
dæk#, kʰæ, kɪæk#,
daʲn#,
flak, taɪ#

Fourth Syllable Whole Syllable:

sɪʲ#,
kuʷ#,
oʷ#,
ə#,
mə#, rəd#, lə#, ɪʲ#, kɪʲ#,
vəʲ#

Fifth Syllable Whole Syllable:

Whole Syllable Stressed and Unstressed Total

Whole Syllable Stressed:

tʰɪɪʲ, #stɪʲ, fɪʲ, #kʰɪɪʲ, #hɪʲm,
bɪuʷn#, #vrɪn, ɪuʷd#, #kʰuʷn, #wuʷ, #huʷ,
#ɪ, #tʰwɪn, #tʰɪt, #dɪŋ, dɪb#, nɪ, #spɪ, #fɪ, #kʰɪɪ, #kʰɪɪs(2), #wɪn, #hɪ,
#spɪeʲ, steʲ,
bloʷ, tʰoʷ, ɪoʷ, #ɪoʷ, #hoʷ,
#fəʲ,

æ, dæ, dæk, dænt, spɹæs, ɹæn, jæn, kæ, kɹæ, kɹæk(2),
a(3), pa, bat, fa, faʔ, fla, vanz, vand, da, dan, na, ra,skɹa, ɹa, la, ka, kar, ha, hal,
ak, ag, paɹ, baθ, blaz, ma, maɹ(2), maɹk, flak, taʔ, taɹ, ta, dan, dɹap, na, staʔ, stah, stɹa, ʃbaɹ, ɹa(6), ɹam, ɹan, ladʒ, laf, kla, ka, kam,
kɹaŋk, gaɹ(2), gɹab, gɹa, ga

Supra-Segments: Whole Words

Whole Word Total per Word Length

Whole Monosyllables:

vay [ve], swust [swast], durk [dæk], stah [stah], maynk [meɹŋk], nik [nɪk], mark [maɹk], teen [tʰiɹn],
krahnk [kʰɹaŋk], skwehl [skwɛʔ], dant [dænt], chait [tʃeɹt], stall [staʔ], shurst [ʃæst], forst [fɔɹst](2), drahp [dɹap], olpth [ɔʔpθ],
shreg [ʃɹɛg], rolm [ɹoʔm], flah [fla], kroog [kʰɹuʷg]

Whole Bisyllables:

GAHRshuhnd [ˈgaɹ·ʃəŋd], DINkee [ˈdɪŋ·kiɹ], SHIHmuh [ˈʃɪ·mə], SHURloo [ˈʃæ·luʷ], KRIHkul [ˈkʰɹɪ·kəʔ], KARTay [ˈkar·teɹ],
RAHpee [ˈɹa·piɹ], SPRAYgoh [ˈspɹeɹ·goʷ], MARmis [ˈmaɹ·mɪs], RANjurd [ˈɹæn·dʒəɹd], WUHNgur [ˈwʌŋ·gəʔ], STRAHvis
[ˈstɹa·vɪs], BLAHZleeng [ˈblaz·lɪŋ], DEHfrin [ˈdɛ·fɹɪn], KRISTuhm [ˈkʰɹɪs·dəʔm], KAHToe [ˈkʰa·toʷ], STEEkut [ˈstiɹ·kət], TILLmar
[ˈtʰɪɹ·maɹ], ORfile [ˈɔɹ·faɹʔ], HISStee [ˈhɪ·stiɹ], EYErup [ˈaɹ·ɹʊp], RAHNish [ˈɹa·nɪʃ], KAHMpaw [ˈkʰam·pʰaʷ], GRAHblo [ˈgɹab·loʷ],
FAIduhn [ˈfaɹ·ɹəŋ], RAHMmus [ˈɹa·məs], KREEdul [ˈkʰɹɹɪ·ɹəʔ], HEEMlin [ˈhiɹm·lɪn], KRISlodge [ˈkʰɹɪs·ladʒ], BATHHrye [ˈbaθ·ɹaɹ],
PAHRtul [ˈpʰaɹ·ɹəʔ], KOONtahl [ˈkʰuʷn·taʔ], TWINdul [ˈtʰwɪn·dəʔ], EYEBee [ˈaɹ·biɹ], SKRYuhl [ˈskɹaɹ·ʔ], RUSpree [ˈɹʌs·pɹiɹ],
SHBAHRgust [ˈʃbaɹ·gəst], DUSTur [ˈdʌs·təʔ], AHGduhm [ˈag·dəʔm], DRUNGstuhn [ˈdɹʌŋ·stəʔ], SPIHzee [ˈspɪ·ziɹ], ROHPed [ˈɹoʷ·pɛd],

dribDIB [dɹɪb·ˈdɪb], uhVYNZ [ə·ˈvaɹnz], murNESS [mæ·ˈnɛs], rayBYOUNE [ɹeɹ·ˈbjuʷn], korVYND [kɔɹ·ˈvaɹnd], juhBITE [dʒə·ˈbaɹt],
ruhKRAK [ɹə·ˈkʰɹæk], hyROOD [haɹ·ˈɹuʷd], rahHAL [ra·ˈhal]

Whole Trisyllables:

finkeyeyou [fɪŋ·kaɹ·juʷ],

KRAnuhdyne [ˈkʰɹæ·nə·daɹn], GRAHvuhlvail [ˈgɹa·vəʔ·veɹʔ], RAHMbyoulus [ˈɹam·bjuʷ·ləs], VROONsuhdee [ˈvrun·sə·diɹ], EYEstorust
[ˈaɹ·stoʷ·ɹəst], Anihkul [ˈæ·nɪ·kəʔ], SPRASuhkul [ˈspɹæs·tə·kəʔ], IHruhtahr [ˈɪ·ɹə·taɹ], ZEHtruhfur [ˈzɛ·tɹə·fəʔ], WOObuhlroop
[ˈwuʷ·bəʔ·ɹuʷp], RAHluhkul [ˈɹa·lə·kəʔ], WINDruhlu [ˈwɪn·dɹə·ləs], HOLunzee [ˈhoʷ·lən·ziɹ], GAHNuril [ˈga·nə·ɹɪʔ],
ooNAIdee [uʷ·ˈnaɹ·riɹ], muhLYEur [mə·ˈlaɹ·əʔ], guhRAHjist [gə·ˈɹa·dʒɪst], duhSHEEveeng [də·ˈʃiɹ·vɪŋ], mulTAHsum [məʔ·ˈtʰa·səʔm],
meeYANDak [miɹ·ˈjæn·dæk], uhRAHtiŋ [ə·ˈɹa·tɪŋ], kuhDYzul [kə·ˈdaɹ·zəʔ], feeDAHnzuh [fiɹ·ˈdan·zə], rayKLAHtay [ɹeɹ·ˈkʰla·teɹ],
stuhLAHFnun [stə·ˈlaf·nəŋ], kruhSTAYshus [kʰɹə·ˈsteɹ·ʃəs], ruhTOMik [ɹə·ˈtʰoʷ·mɪk], suhBLOWkrak [sə·ˈbloʷ·kɹæk], stuhRAHNduh
[stə·ˈɹan·də], spihNAHtik [spɪ·ˈna·ɹɪk]

Whole Tetrasyllables:

DEVruhkaytud [ˈdɛv·ɹə·keɹ·rəd], HOOsuhnoovur [ˈhuʷ·sə·nuʷ·vəʔ],
kuhROWSuhmuh [kə·ˈɹoʷ·sə·mə], prooNIHstuhkoo [pʰɹuʷ·ˈnɪ·stə·kuʷ], roomTEKtuhkul [ɹuʷm·ˈtʰɛk·tə·kəʔ], ruhDAzeeo [ɹə·ˈdæ·ziɹ·oʷ],

garBORrayul [gaɹ·ˈbɔ·ɹeɹ·ʔ],

mahnuhKALuh [ma·nə·ˈkʰæ·lə], ahkseeFLAHKsee [ak·siɹ·ˈflak·siɹ], inisTREEuh [ɪ·nɪs·ˈtʰɹɹɪ·ə]

Whole Pentasyllables:

APPENDIX E

COMPLETE SEGMENTAL AND SUPRA-SEGMENTAL RANKING DATA SHEETS

Segments

Segment Total for Stressed and Unstressed Syllables and Monosyllables according to Syllable Configuration

Monosyllable Onset: **ɹ(9), #s(5), #g(5), l(4), #f(3), #d(3), #p^h(2), k(2)**, p, #b, #m, m, #t^h, #n, n, r, θ, #f, #ɹ, j, #k^h (46)

Monosyllable Nucleus: **ʌ(8), a(5), ε(3), i^l(2), u^w(2), æ(2), æ^j(2)**, u, ɔ^j (26)

Monosyllable Coda: **ʈf#(4), p#(3), k#(3), t#(2), d#(2), ts#(2), z#(2), ʃ#(2)**, b#, b, f#, dʒ#, s#, ɹ#, t, k, g# (29)

First Syllable Segment Stressed Onset: #g(11), ɹ(8), #w(8), #s(6), l(5), #k^h(5), #n(4), #l(4), k(4), #b(3), #f(3), #d(3), #f(3), #p^h(2), #t^h(2), #p, p, #b, m, #v, #ʈf, #dʒ, #z, #j, #h (81)

First Syllable Segment Stressed Nucleus: a(14), æ(11), ɪ(9), ʌ(6), i^l(5), ε(4), u^w(3), #u^w(2), o^w(2), ʌ(2), ɔ(2), a^j(2), #a(2), i^l, #i^j, #u, #ɪ, ʊ, #ʌ, #ɔ, #æ (72)

First Syllable Segment Stressed Coda: k(9), m(5), n(3), s(3), t(3), p(2), ɹ(2), ŋ(2), v, dʒ, ʃ, ɡ, ɡ (34)

First Syllable Segment Unstressed Onset: **#s(3)**, #b, #f, #t^h, #f, ɹ, #l, #j, k, #g, #h (13)

First Syllable Segment Unstressed Nucleus: **ə(6), u^w(3), #ε(3), #ɪ, æ, #a, a** (16)

First Syllable Segment Unstressed Coda: **n(2), k(2)**, g, ŋ (6)

Second Syllable Segment Stressed Onset: s(3), b(2), t(2), w(2), p^h, p, m, d, θ, z, ʒ, l (17)

Second Syllable Segment Stressed Nucleus: æ(3), a(3) ʌ(2), u^w, ə, ε, æ^j, a^w, a (14)

Second Syllable Segment Stressed Coda: ɹ(2), n#, ɹ#, k#, ŋ (6)

Second Syllable Segment Unstressed Onset: **s(11), b(7), ɹ(7), t(6), d(6), l(5), g(5), f(4), k(4), w(4), p(3), m(3), θ(3), z(3), ʃ(3), n(2), r(2)**, ʒ, j, k^h, h (82)

Second Syllable Segment Unstressed Nucleus: **ə(16), ʌ(10), a(10), ɪ(9), i^l(6), ə(4), ʌ(3), o^w(2), ə(2), ʌ(2)**, i^j, u^w, e^j, o^w, ə, ɔ, æ, æ#, a#, a# (74)

Second Syllable Segment Unstressed Coda: **n#(4), b#(2), f#(2), s#(2), ɹ#(2)**, b̥#, t̥#, t#, ʈf#, dʒ#, n, z#, ʃ#, ɹ, t#, k#, g# (24)

Third Syllable Segment Stressed Onset: b, t, s (3)

Third Syllable Segment Stressed Nucleus: u^w#, æ (2)

Third Syllable Segment Stressed Coda:

Third Syllable Segment Unstressed Onset: **l(8), ɹ(5), s(4), ʃ(3), k(3), t(2)**, p, b, m, f, v, d, dʒ, n, z, j, h (36)

Third Syllable Segment Unstressed Nucleus: **ə#(4), a(4), ɪ(3), ə(3), i^l(2)#, u^w(2), u^w#, ʌ(2), o^w#, ə, ə, ə, ə, a^j, a#** (29)

Third Syllable Segment Unstressed Coda: **s#(3), n#(2), z#(2)**, p#, m, f#, t#, d#, n, ʃ#, k#, ŋ# (16)

Fourth Syllable Segment Stressed Onset:

Fourth Syllable Segment Stressed Nucleus:

Fourth Syllable Segment Stressed Coda:

Fourth Syllable Segment Unstressed Onset: **ɹ, ɹ, l** (3)

Fourth Syllable Segment Unstressed Nucleus: **i^j, ə, o^w** (3)

Fourth Syllable Segment Unstressed Coda: **p# s#** (2)

Fifth Syllable Segment Stressed Onset:

Fifth Syllable Segment Stressed Nucleus:

Fifth Syllable Segment Stressed Coda:

Fifth Syllable Segment Unstressed Onset:

Fifth Syllable Segment Unstressed Nucleus: **o^w#** (1)

Fifth Syllable Segment Unstressed Coda:

Segment Total for Stressed and Unstressed Onsets and Codas

Stressed Onset: #g(11), ɹ(8), #w(8), #s(6), l(6), #k^h(5), #n(4), s(4), #l(4), k(4), #b(3), b(3), #f(3), t(3), #d(3), #f(3), p(2), #p^h(2), m(2), #t^h(2), w(2), #p, p^h, #b, #v, d, #ʈf, #dʒ, θ, #z, z, ʒ, #j, #h (101)

Stressed Coda: k(9), m(5), ɹ(4), n(3), s(3), t(3), ŋ(3) p(2), v, dʒ, n#, ʃ, ɹ#, k#, ɡ, ɡ (40)

Unstressed Onset: **s(15), ʃ(14), l(14), b(8), t(8), k(8), d(7), f(7), f(5), g(5), p(4), m(4), z(4), w(4), n(3), θ(3), #s(3), r(2), j(2), h(2)** #b, #f, v, #t^h, dʒ, #f, ʒ, #l, #j, k^h, #g, #h (134)

Unstressed Coda: **n#(6), s#(6), n(4), f#(3), z#(3), b#(2), t#(2), f#(2), ʃ#(2), k(2), k#(2), p#, p̃#, b̃#, m, t̃#, d#, tʃ#, dʒ#, ʃ, t̃#, g, g#, η,** η# (48)

Segment Total for Onsets and Codas

Onset: **ʃ(31), l(24), s(19), #g(17), #s(14), k(14), b(11), t(11), d(8), #w(8), p(7), m(7), #f(7), f(7), #d(6), #k^h(6), w(6), #b(5), f(5), #n(5), θ(5), z(5), #f(5), #l(5), g(5), #p^h(4), #t^h(4), n(4), j(3), r(2), #j(2), #h(2), h(2), #p, p^h, #b, #m, #v, v, #tʃ, #dʒ, dʒ, r, #z, ʒ, ʒ, #ʃ, k^h** (281)

Coda: **k(12), n#(7), n(7), s#(7), m(6), k#(6), tʃ#(5), z#(5), ʃ(5), p#(4), f#(4), t#(4), f#(4), ʃ#(4), t̃(4), η(4), b#(3), d#(3), s(3), p(2), t̃#(2), dʒ#(2), g(2), g#(2), p̃#, b, b̃#, v, t̃#, dʒ, ʃ, t̃#, ǧ, η#** (117)

Segment Total for Stressed and Unstressed Syllables and Monosyllables

Monosyllable Segment: **ʃ(9), #s(5), #g(5), tʃ#(4), l(4), p#(3), #f(3), #d(3), k(3), k#(3), #p^h(2), t#(2), d#(2), t̃#(2), z#(2), f#(2), p, #b, b#, b, #m, m, f#, #t^h, dʒ#, #n, n, r, θ, s#, #f, #ʃ, ʃ, j, #k^h, g#** (75)

ʌ(8), a(5), ε(3), i^j(2), u^w(2), æ(2), æ^j(2), u, ɔ^j (26)

First Syllable Segment Stressed: **k(13), #g(11), ʃ(10), #w(8), m(6), #s(6), l(5), #k^h(5), #n(4), #l(4), p(3), #b(3), #f(3), #d(3), n(3), s(3), #f(3), t̃(3), #p^h(2), #t^h(2), η(2), #p, #b, #v, v, #tʃ, #dʒ, #z, ʃ, #j, ǧ, g, #h** (115)

a(14), æ(11), ɪ(9), ʌ(6), i^j(5), ε(4), u^w(3), #u^w(2), o^w(2), æ(2), ɔ(2), a^j(2), #a(2), i^jː, #i^j, #æ, #ɪ, u, #ʌ, #ɔ, #æ (72)

First Syllable Segment Unstressed: **#s(3), k(3), n(2), #b, #f, #t^h, #f, ʃ, #l, #j, #g, g, η, #h** (19)

ə(6), u^w(3), #ε(3), #ɪ, æ, #a, a (16)

Second Syllable Segment Stressed: **s(3), b(2), t(2), ʃ(2), w(2), p^h, p, m, d, n#, θ, z, ʒ, ʃ, l, k#, η** (23)

æ(3), a(3), ʌ(2), u^w, æ, ε, æ^j, a^w#, a (14)

Second Syllable Segment Unstressed: **s(11), ʃ#(10), ʃ(8), b(7), t(6), d(6), l(5), g(5), f(4), n#(4), k(4), w(4), p(3), m(3), n(3), θ(3), z(3), f(3), ʃ#(3), b#(2), f#(2), ʌ#(2), r(2), s#(2), ʃ#(2), b̃#, t̃#, t#, tʃ#, dʒ#, ʌ̃#, z#, ʃ#, ʒ, t̃#, j, k^h, k#, g#, h** (122)

ə(16), a(10), ɪ(9), i^j#(6), æ#(4), o^w#(2), æ(2), i^j, u^w#, e^j#, o^w, ɔ, æ, æ#, a#, a# (58)

Third Syllable Segment Stressed: **b, t, s** (3)

u^w#, æ (2)

Third Syllable Segment Unstressed: **l(8), ʃ(5), s(4), s#(3), f(3), k(3), m(2), t(2), n(2), n#(2), z#(2), ʃ#(2), p, p#, b, f, f#, v, t#, d, d#, dʒ, ʌ̃#, ʌ̃#, z, ʃ#, j, k#, η#, h** (56)

ə#(4), a(4), ɪ(3), ə(3), i^j(2)#, u^w(2), u^w#(2), o^w#, æ, æ, a^j, a# (25)

Fourth Syllable Segment Stressed:

Fourth Syllable Segment Unstressed: **p̃# s#, ʃ, ʃ, l** (5)

i^j, ə, o^w (3)

Fifth Syllable Segment Stressed:

Fifth Syllable Segment Unstressed: **o^w#** (1)

Segment Total by Syllable

First Syllable Segment: **k(16), #g(12), ɹ(11), #s(9), #w(8), m(6), n(5), #l(5), l(5), #k^h(5), #b(4), #f(4), #n(4), #f(4), p(3), #t^h(3), #d(3), s(3), t(3), ɲ(3), #p^h(2), g(2), #j(2), #h(2), #p, #b, #v, v, #tʃ, #dʒ, #z, ʃ, ǧ** (134)

a(14), æ(11), ɪ(9), ʌ(6), i^j(5), ε(4), u^w(3), #u^w(2), o^w(2), ə(2), ɔ(2), a^j(2), #a(2), iⁱː, #i^j, #ʊ, #ɪ, ʊ, #ʌ, #ɔ, #æ (72)

Second Syllable Segment: **s(14), ɹ(10), ʔ^h(10), b(9), t(8), d(7), l(6), w(6), n[#](5), g(5), p(4), m(4), f(4), θ(4), z(4), k(4), n(3), ʃ(3), ɹ[#](3), ʔ^h(3), b[#](2), f[#](2), ʔ^hɲ[#](2), r(2), s[#](2), k[#](2), p^h, b[#], t^h, t[#], tʃ[#], dʒ[#], ʔ^h, z[#], ʃ[#], ʒ, ʒ, t[#], j, k^h, g[#], ɲ, h** (145)

ə(16), a(13), ɪ(9), i^j#(6), ə[#](4), æ(4), ə(3), o^w#(2), ʌ(2), i^j, u^w#, u^w, e^j#, o^w, ε, ɔ, æ#, æ^j, a#, a^w#, a, a[#] (72)

Third syllable Segment: **l(8), s(5), ɹ(5), t(3), s[#](3), ʃ(3), k(3), b(2), m(2), n(2), n[#](2), z[#](2), ʔ^h#(2), p, p[#], f, f[#], v, t[#], d, d[#], dʒ, ʔ^h, ʔ^hɲ[#], z, ʃ[#], j, k[#], ɲ[#], h** (59)

ə[#](4), a(4), u^w#(3), ɪ(3), ə(3), i^j(2)#, u^w(2), æ(2), o^w#, ə, a^j, a[#] (27)

Fourth Syllable Segment: **p̃[#] s[#], ʃ, ɹ, l** (5)

i^j, ə, o^w (3)

Fifth Syllable Segment: **o^w#** (1)

Segment Stressed and Unstressed Total

Stressed Segment: **k(13), ɹ(12), #g(11), #w(8), m(7), s(7), #s(6), l(6), #n(5), #k^h(5), p(4), #b(4), #l(4), b(3), #f(3), t(3), #d(3), n(3), #f(3), t(3), ɲ(3), #p^h(2), #t^h(2), w(2), #p, p^h, #v, v, d, #tʃ, #dʒ, θ, #z, z, ʃ, ʒ, ɹ[#], #j, k[#], ǧ, g, #h** (140)

a(17), æ(15), ɪ(9), ʌ(8), i^j(5), ε(5), u^w(4), ə(3), #u^w(2), o^w(2), ɔ(2), a^j(2), #a(2), iⁱː, #i^j, #ʊ, u^w#, #ɪ, ʊ, #ʌ, #ɔ, #æ, æ^j, a^w#, a (88)

Unstressed Segment: **s(15), ɹ(15), l(14), ʔ^h#(12), k(10), b(8), t(8), d(7), n(7), ʃ(7), n[#](6), s[#](6), g(6), m(5), f(5), p(4), z(4), w(4), b[#](3), f[#](3), ʔ^hɲ[#](3), θ(3), #s(3), z[#](3), ʔ^h(3), t[#](2), ʔ^hɲ(2), r(2), ʃ[#](2), ɹ[#](2), j(2), k[#](2), h(2), p[#], p̃[#], b[#], #f, v, t^h, #t^h, d[#], tʃ[#], dʒ[#], dʒ, #ʃ, ʒ, #l, t[#], #j, k^h, #g, g[#], ɲ, ɲ[#], #h** (202)

ə(26), a(15), ɪ(12), i^j#(8), u^w#(6), o^w#(4), ə[#](4), ə[#](4), ə(3), #ε(3), æ(3), i^j(2), u^w(2), o^w(2), a[#](2), #ɪ, e^j#, ɔ, æ#, a#, #a, a^j (103)

Segment Total (absolute)

Narrow: **ɹ(36), k(26), l(24), s(22), #g(17), #s(14), m(13), b(12), ʔ^h#(12), t(11), n(11), p(9), d(8), ʃ(8), #w(8), #f(7), s[#](7), g(7), #d(6), #n(6), n[#](6), k[#](6), w(6), #b(5), f(5), tʃ[#](5), θ(5), z(5), z[#](5), #f(5), #l(5), #k^h(5), p[#](4), #p^h(4), b[#](4), f[#](4), #t^h(4), t[#](4), ʃ[#](4), t(4), ɲ(4), d[#](3), ʔ^hɲ[#](3), ɹ[#](3), ʔ^h(3), j(3), v(2), t[#](2), dʒ[#](2), ʔ^hɲ(2), r(2), #j(2), k^h(2), g[#](2), #h(2), h(2), #p, p̃[#], p^h, b[#], #m, #v, t^h, #tʃ, #dʒ, dʒ, r, #z, ʒ, ʒ, t[#], ǧ, ɲ[#]** (411)

a(37), ə(26), ɪ(21), æ(20), ʌ(16), i^j(9), i^j#(8), u^w(8), ε(8), u^w#(7), ə(6), o^w(4), o^w#(4), ə[#](4), ə[#](4), #ε(3), ɔ(3), a^j(3), #u^w(2), #ɪ(2), æ^j(2), a[#](2), #a(2), iⁱː, #i^j, #ʊ, u, ʊ, e^j#, #ʌ, ɔ^j, #ɔ, æ#, #æ, a#, #a, a^w#, a (216)

Broad: **s(43), ɹ(39), k(39), n(28), g(27), l(25), b(22), p(20), t(20), t(20), d(17), ʃ(17), f(16), m(14), w(14), z(11), tʃ(6), θ(5), j(5), ɲ(5), dʒ(4), h(4), v(3), t[#](2), r(2), r, ʒ, ʒ** (411)

a(41), ə(30), æ(24), ɪ(23), i(19), u(18), ʌ(17), ε(11), ə(10), o(8), a(7), ɔ(5), ʊ, ʊ, e (216)

627 total segments

Supra-Segments: Consonant Clusters

Consonant Cluster Total for Stressed and Unstressed Syllables and Monosyllables according to Syllable Configuration

Monosyllable Consonant Cluster Onset (all entries are word initial): **#gl(3), #dɹ(2), #sk(2), #p^hɹ, #br, #fɹ, #fl, #t^hɹ, #ɲj, #θɹ, #sn, #sm, #spl, #k^hɹ, #gɹ** (19)

Monosyllable Consonant Cluster Coda (all entries are word final): **bz#, ntʃ#, nd#, ɹg#, tʃ#, kt#** (6)

First Syllable Consonant Cluster Stressed Onset (all entries are word initial): **#sk(4), #gl(3), #gɹ(3), #k^hɹ(2), #bl, #fɹ, #t^hɹ, #spɹ, #fm, #k^hl** (18)

First Syllable Consonant Cluster Stressed Coda: ks, ŋk, (2)

First Syllable Consonant Cluster Unstressed Onset (all entries are word initial): #skɹ (1)

First Syllable Consonant Cluster Unstressed Coda:

Second Syllable Consonant Cluster Stressed Onset: st, sw, sp, tʃ (4)

Second Syllable Consonant Cluster Stressed Coda: ŋk# (1)

Second Syllable Consonant Cluster Unstressed Onset: **st(2)**, pɹ, bɹ, θɹ, ɡɹ (6)

Second Syllable Consonant Cluster Unstressed Coda: ɹt#, ɹz# (2)

Third Syllable Consonant Cluster Stressed Onset: st, sk (2)

Third Syllable Consonant Cluster Stressed Coda:

Third Syllable Consonant Cluster Unstressed Onset: sp, st, ʃm, kʰɹ (4)

Third Syllable Consonant Cluster Unstressed Coda: mp#, ŋs#, nz# (3)

Fourth Syllable Consonant Cluster Stressed Onset:

Fourth Syllable Consonant Cluster Stressed Coda:

Fourth Syllable Consonant Cluster Unstressed Onset:

Fourth Syllable Consonant Cluster Unstressed Coda:

Fifth Syllable Consonant Cluster Stressed Onset:

Fifth Syllable Consonant Cluster Stressed Coda:

Fifth Syllable Consonant Cluster Unstressed Onset:

Fifth Syllable Consonant Cluster Unstressed Coda:

Consonant Cluster Total for Stressed and Unstressed Onsets and Codas

Stressed Onset: #sk(4), #ɡɹ(3), #ɡl(3), st(2), #kʰɹ(2), #bl, #fɹ, #tʰɹ, tʃ, sk, sw, sp, #spɹ, #ʃm, #kʰl (24)

Stressed Coda: ks, ŋk, ŋk# (3)

Unstressed Onset: **st(3)**, pɹ, bɹ, θɹ, sp, #skɹ, ʃm, kʰɹ, ɡɹ (11)

Unstressed Coda: mp#, ŋs#, nz#, ɹt#, ɹz# (5)

Consonant Cluster Total for Onsets and Codas

Onset: **#sk(6), #ɡl(6), st(5), #ɡɹ(4), #kʰɹ(3), #fɹ(2), #tʰɹ(2), #dɹ(2), sp(2)**, pɹ, #pʰɹ, bɹ, #br, #bl, #fl, tʃ, #nj, #θɹ, θɹ, #sn, #sm, sk, sw, #spɹ, #spl, #skɹ, #ʃm, ʃm, #kʰl, kʰɹ, ɡɹ (54)

Coda: bz#, mp#, ŋs#, nz#, ntʃ#, nd#, ɹɡ#, ɹt#, ɹz#, tʃ#, kt#, ks, ŋk, ŋk# (14)

Consonant Cluster Total for Stressed and Unstressed Syllables and Monosyllables

Monosyllable Consonant Cluster: **#ɡl(3), #dɹ(2), #sk(2), #pʰɹ, #br, bz#, #fɹ, #fl, #tʰɹ, #nj, ntʃ#, nd#, #θɹ, #sn, #sm, #spl, tʃ#, ɹɡ#, #kʰɹ, kt#, #ɡɹ (25)**

First Syllable Consonant Cluster Stressed: #sk(4), #ɡl(3), #ɡɹ(3), #kʰɹ(2), #bl, #fɹ, #tʰɹ, #spɹ, #ʃm, #kʰl, ks, ŋk (20)

First Syllable Consonant Cluster Unstressed: #skɹ (1)

Second Syllable Consonant Cluster Stressed: st, sw, sp, tʃ, ŋk# (5)

Second Syllable Consonant Cluster Unstressed: **st(2)**, pɹ, bɹ, θɹ, ɹt#, ɹz#, ɡɹ (8)

Third Syllable Consonant Cluster Stressed: st, sk (2)

Third Syllable Consonant Cluster Unstressed: mp#, ŋs#, nz#, sp, st, ʃm, kʰɹ (7)

Fourth Syllable Consonant Cluster Stressed:

Fourth Syllable Consonant Cluster Unstressed:

Fifth Syllable Consonant Cluster Stressed:

Fifth Syllable Consonant Cluster Unstressed:

Consonant Cluster Total per Syllable

First Syllable Consonant Cluster: **#sk(4), #ɡl(3), #ɡɹ(3), #kʰɹ(2), #bl, #fɹ, #tʰɹ, #spɹ, #skɹ, #ʃm, #kʰl, ks, ŋk (21)**

Second Syllable Consonant Cluster: **st(3)**, pɹ, bɹ, θɹ, sw, sp, tʃ, ɹtʃ, ʒ, ɹkʃ (13)

Third Syllable Consonant Cluster: **st(2)**, mpʃ, ɳsʃ, nzʃ, sp, sk, ʃm, kʰɹ (9)

Fourth Syllable Consonant Cluster:

Fifth Syllable Consonant Cluster:

Consonant Cluster Stressed and Unstressed Total

Consonant Cluster Stressed: #sk(4), #gl(3), #gɹ(3), st(2), #kʰɹ(2), #bl, #fɹ, #tʰɹ, #spɹ, sw, sk, sp, #ʃm, tʃ, #kʰl, ks, ɹk, ɹkʃ (27)

Consonant Cluster Unstressed: **st(3)**, pɹ, bɹ, mpʃ, ɳsʃ, nzʃ, θɹ, sp, #skɹ, ʃm, ɹtʃ, ʒ, kʰɹ, gɹ (16)

Consonant Cluster Total (absolute)

Narrow: **#sk(6), #gl(6), st(5), #gɹ(4), #kʰɹ(3), #fɹ(2), #tʰɹ(2), #dɹ(2), sp(2)**, pɹ, #pʰɹ, #bl, bɹ, #br, bzʃ, mpʃ, #fl, #nj, ntʃʃ, ɳsʃ, nzʃ, ndʃ, θɹ, #θɹ, #sm, #sn, #spɹ, #spl, sw, sk, #skɹ, #ʃm, ʃm, tʃ, ɹtʃ, ɹgʃ, ʒʃ, ʒ, #kʰl, kʰɹ, ks, ktʃ, gɹ, ɹk, ɹkʃ (68)

Broad: **sk(7), gl(6), st(5), gɹ(5), kɹ(4), pɹ(2), fɹ(2), tɹ(2), dɹ(2), sp(2), ʃm(2), ɹk(2)**, bl, bɹ, br, bz, mp, fl, nj, ntʃ, ns, nz, nd, θɹ, θɹ, sm, sn, spɹ, spl, sw, skɹ, tʃ, ɹt, ɹg, ʒʃ, ʒ, kl, ks, kt (68)

68 total consonant clusters

Supra-Segments: Whole Syllables

Whole Syllable Total for Stressed and Unstressed Syllables and Monosyllables

Monosyllable Whole Syllable:

#pʰɹɪʃtsʃ, #tʰɹɪʃtsʃ,
#brupʃ, #skɹuʷtʃʃ, #ʃuʷpʃ,
#flektʃ, #dɹɛkʃ, #dɹɛbʃ,
#fɹɹsʃ, #dɹʃʃ, #smɹtʃʃ, #θɹɹdʒʃ, #ɹɹfʃ, #kʰɹɹʃʃ, #gɹɹntʃʃ, #glɹtʃʃ,
#fɹɹndʃ,
#mæɹɹʃ, #ɳjækʃ, #skæɹɹʒʃ, #snæbzʃ,
#pʰɹɹdʃ, #splɹɹgʃ, #glɹtʃ, #gɹkʃ, #glɹpʃ (26)

First Syllable Whole Syllable Stressed (all entries are word initial):

#ɹɹ, #dɹɹ, #tʃɹɹ, #ɳɹɹ, #kʰɹɹ, #wiɹʃ,
#ɹ,
#uʷv, #uʷ, #skuʷ, #luʷ, #guʷ,
#ɹɹɹ, #blɹk, #tʰɹɹ, #tʰɹɹ, #dʒɹ, #spɹɹɹ, #ʃɹ, #gɹɹ, #wɹk, #wɹ,
#wu,
#pʰoʷp, #fɹoʷ,
#næ, #gæ,
#nɛs, #ʃmɛ, #lɛ, #gɹɛ,
#ɹn, #fɹm, #skɹ, #jɹk, #gɹɹk, #glɹ, #glɹm,
#ɹt, #fɹt, #wɹ,
#æ, #bæɹ, #dæɹ, #næ, #skæp, #læm, #læs, #kʰɹæɹ, #kʰɹæ, #gɹæ, #gæɳ, #hæɹ,
#paɹ, #zaɹ,
#aɹ, #ag, #pʰa, #bak, #van, #da, #skam, #sa, #ʃaɹ, #kʰla, #kʰa, #ga, #glam, #wa, #wa, #waks (71)

First Syllable Whole Syllable Unstressed (all entries are word initial):

#biɹ,
#luʷ, #juʷ, #guʷ,
#ɹɹ,
#bæ, #fæ, #sæn, #skɹæ, #sæ, #ʃæ,
#ɛ, #ɛg, #ɛk,
#tʰæn,
#ak,
#ha (17)

Second Syllable Whole Syllable Stressed:

bæ(2),
swu^w,
p^hæ,
zɛ,
mʌ, dʌŋk#,
θæ, læⁱɪ#,
tɪʒan#, wə^w#,
aɪ, spaɪ, sta (14)

Second Syllable Whole Syllable Unstressed:

bʌt#(3), gə(3), ko^w#(2), sʌt#(2), zʌt#(2),
pɪⁱɪ#, fɪⁱɪ#, dɪⁱɪ#, sɪⁱɪ#, lɪⁱɪ#, k^hɪⁱɪ#, gɪⁱɪ#,
ʃu^w#,
bɪɪ, blɪn#, mɪf#, nɪs#, sɪk#, sɪb#, sɪs#, ʃɪn#, gɪɪn#,
neⁱɪ#,
ɹo^w,
pʌt#, pə, bʌt, mən, mə, fət#, də, rə, θʌbʌb[˜]#, θʌt#, sə, stə#, stən#, zʌt, ʃʌt#, ʒə, ɹə, ɹəf#, lə, kən#, kət[˜]#, wə,
fə#, t^hədʒ#, də, rə#, stə#, wə#,
fʊt#,
θæ#, læn,
ja#,
baɪ#, ta, taf#, dag#, da#, dət#, san#, la#, wab#, watʃ#, haɪ# (74)

Third Syllable Whole Syllable Stressed:

bu^w#,
stæ (2)

Third Syllable Whole Syllable Unstressed:

lə#(2),
vɪⁱɪ#, zɪⁱɪ#,
skju^w#, ʃmu^wz#, ʃu^w#, lu^wd#,
fɪf#, lɪs#, lɪŋ#,
lo^w#,
tə#, dʌt#, stənɪs#, sə, ʃən#, ɹə#, ləs#, kʌt#, k^hʌmp#,
spə#,
læk#,
dʒaⁱn#,
baɪ#, nat#, ɹan#, ɹanz#, haf# (29)

Fourth Syllable Whole Syllable Stressed:

Fourth Syllable Whole Syllable Unstressed:

ʃɪⁱ,
ɹəs#,
lo^wp[˜]# (3)

Fifth Syllable Whole Syllable Stressed:

Fifth Syllable Whole Syllable Unstressed:

o^w# (1)

Whole Syllable Total per Syllable

First Syllable Whole Syllable (all entries are word initial):

#lu^w(2), #gu^w(2),
#ɪⁱ, #bɪⁱ, #dɪⁱ, #tʃɪⁱː, #nɪⁱ, #k^hɪⁱ, #wɪⁱʃ,
#ʌ,
#u^wv, #u^w, #sku^w, #ju^w,

#ɪŋ, #ɪɡ̊, #bɪk, #tʰɪ, #tʰɪɪ, #dʒɪ, #spɪŋ, #ʃɪ, #ɡɪɪ, #wɪk, #wɪ,
 #wʊ,
 #pʰoʊp, #fɪoʊ,
 #bə, #fə, #tʰæn, #sən, #skɪə, #sə, #ʃə,
 #nə, #gə,
 #ɛ, #ɛɡ, #ɛk, #nɛs, #ʃmɛ, #lɛ, #ɡɪɛ,
 #ʌn, #fʌm, #skʌ, #jʌk, #ɡʌŋk, #ɡlʌ, #ɡlʌm,
 #ɔʔ, #fɔʔ, #wɔ,
 #æ, #bæʔ, #dæk, #næ, #skæp, #læm, #læs, #kʰɪæk, #kʰɪæ, #ɡɪæ, #ɡæn, #hæk,
 #ak, #paʲ, #zaʲ,
 #aɪ, #ag, #pʰa, #bak, #van, #da, #skam, #sa, #ʃaɪ, #kʰla, #kʰa, #ga, #ɡlam, #wa, #wa, #waks, #ha (88)

Second Syllable Whole Syllable:

bəʔ#(3), ɡə(3), koʊ#(2), səʔ#(2), zəʔ#(2), bæ(2),
 pɪʲ#, fɪʲ#, dɪʲ#, sɪʲ#, lɪʲ#, kʰɪʲ, ɡɪʲ#,
 swuʊ, ʃuʊ#,
 bɪɪ, blɪn#, mɪʃ#, nɪs#, sɪk#, sɪb#, sɪs#, ʃɪn#, ɡɪɪn#,
 neʲ#,
 ɔoʊ,
 pəʔ#, pə, bəʔ, mən, mə, fəʔ#, də, rə, ʊəbʊʔ#, ʊəʔ#, sə, stə#, stən#, zəʔ, ʃəʔz#, ʒə, ɹə, ɹəf#, lə, kən#, kətʰ#, wə,
 pʰə, fəʔ#, tʰəʔdʒ#, də, rəʔ#, stəʔ#, wəʔ#,
 zɛ,
 mʌ, dʌŋk#,
 fɔɪt#,
 ʊæ, ʊæ#, læɪɪ#, læn,
 tʃʌn#, ja#, waʊ#,
 aɪ, baɪ#, ta, tʌf#, dʌɡ#, da#, dʌʔ#, san#, spaɪ, sta, la#, wab#, wʌʔf#, haɪ# (88)

Third Syllable Whole Syllable:

lə#(2),
 vɪʲ#, zɪʲ#,
 buʊ#, skjuʊ#, ʃmuʊz#, ʃuʊ#, luʊd#,
 fɪʃ#, lɪs#, lɪŋ#,
 loʊ#,
 təʔ#, dəʔ#, stənʃs#, sə, ʃən#, ɹə#, ləs#, kəʔ#, kʰɪəmp#,
 spə,
 stæ, læk#,
 dʒaɪn#,
 bɪa#, nat#, ɹan#, ɹanz#, haf# (31)

Fourth Syllable Whole Syllable:

ʃɪʲ,
 ɹəs#,
 loʊpʊ# (3)

Fifth Syllable Whole Syllable:

oʊ# (1)

Whole Syllable Stressed and Unstressed Total

Whole Syllable Stressed:

bæ(2),
 #ɪʲ, #dɪʲ, #tʃɪʲ, #nɪʲ, #kʰɪʲ, #wɪʲʃ,
 #ɒ,
 #uʊv, #uʊ, buʊ#, #skuʊ, swuʊ, #luʊ, #ɡuʊ,
 #ɪɡ̊, #bɪk, #tʰɪ, #tʰɪɪ, #dʒɪ, #spɪŋ, #ʃɪ, #ɡɪɪ, #wɪk, #wɪ,
 #wʊ,
 #pʰoʊp, #fɪoʊ,
 pʰə, #nə, #gə,

#nɛs, zɛ, #fme, #lɛ, #gɹɛ,
 #ʌn, mʌ, #fʌm, dʌŋk#, #skʌ, #jʌk, #gʌŋk, #glʌ, #glʌm,
 #ɔʔ, #fɔʔ, #wɔ,
 #æ, #bæʔ, #dæk, #næ, ʌæ, #skæp, stæ, #læm, #læs, læʔʌ#, #kʰʌæk, #kʰʌæ, #gʌæ, #gæn, #hæk,
 #paʔ, tʃʌn#, #zaʔ, waʰ#,
 #aʊ, aʊ, #ag, #pʰa, #bak, #van, #da, #skam, spaʊ, #sa, sta, #faʊ, #kʰla, #kʰa, #ga, #glam, #wa, #wa, #waks (87)

Whole Syllable Unstressed:

bʰʔ(3), gə(3), fuʰ(2), koʰ(2), sʰʔ(2), sə(2), zʰʔ(2), lə(2),
 pʌʔ#, #biʔ, fiʔ#, viʔ#, diʔ#, siʔ#, ziʔ#, fiʔ, liʔ#, kʰiʔ, giʔ#,
 skjuʰ#, fmuʰz#, #luʰ, luʰd#, #juʰ, #guʰ,
 #ɪŋ, bʌʔ, blɪn#, mɪf#, fɪf#, nɪs#, sɪk#, sɪb#, sɪs#, fɪn#, lɪs#, lɪŋ#, gʌɪn#,
 neʔ#,
 oʰ#, ʊoʰ, loʰ#, loʰpʰ#,
 pʰʔ#, pə, #bə, bʰʔ, mʰn, mə, #fə, fʰʔ#, tə#, dʰʔ#, də, rə, ʌʌbʰ#, ʌʰʔ#, #skʌə, #sə, #sən, stə#, stʰŋ#, stʰns#, zʰʔ, #fə, fʰŋ#, fʰz#, zə, ʌə, ʌə#,
 ʌf#, ʌs#, lə, ləs#, kʰn#, kətʰ#, kʰʔ#, kʰʌmp#, wə,
 fə#, tʰəʔ#, də, rə#, spə, stə#, wə#,
 #ɛ, #ɛg, #ɛk,
 fʌʔt#,
 #tʰæn, ʌæ#, læk#, læn,
 #ak, dʒaʔn#, ja#,
 baʊ#, bʌʊ#, ta, taf#, dag#, da#, datʰ#, nat#, san#, ʌan#, ʌanz#, la#, wab#, watf#, haʊ#, haf#, #ha (124)

Whole Syllable Total (absolute)

Narrow:

bʰʔ(3), gə(3), fuʰ(2), #luʰ(2), #guʰ(2), koʰ(2), sʰʔ(2), sə(2), zʰʔ(2), lə(2), bæ(2), #wa(2),
 #iʔ, pʌʔ#, #pʰʌʔs#, #biʔ, fiʔ#, viʔ#, #tʰʌʔs#, diʔ#, #diʔ, #tʃiʔ, #niʔ, siʔ#, ziʔ#, fiʔ, liʔ#, kʰiʔ, #kʰiʔ, giʔ#, #wiʔf,
 #ɹ,
 #uʰv, #uʰ, buʰ#, #brup#, #skʌʰʔf#, skjuʰ#, #skuʰ, swuʰ, fmuʰz#, #fuʰp#, luʰd#, #juʰ,
 #ɪŋ, #ɪg, bʌʔ, blɪn#, #blɪk, mɪf#, fɪf#, #tʰɪ, #tʰɪʌ, #dʒɪ, nɪs#, sɪk#, sɪb#, sɪs#, #spɪŋ, fɪn#, #fɪ, lɪs#, lɪŋ#, gʌɪn#, #gʌɪ, #wɪk, #wɪ,
 #wʊ,
 neʔ#,
 oʰ#, #pʰoʰp, #fʌoʰ, ʊoʰ, loʰ#, loʰpʰ#,
 pʰʔ#, pə, #bə, bʰʔ, mʰn, mə, #fə, fʰʔ#, tə#, dʰʔ#, də, rə, ʌʌbʰ#, ʌʰʔ#, #skʌə, #sə, #sən, stə#, stʰŋ#, stʰns#, zʰʔ, #fə, fʰŋ#, fʰz#, zə, ʌə, ʌə#,
 ʌf#, ʌs#, lə, ləs#, kʰn#, kətʰ#, kʰʔ#, kʰʌmp#, wə,
 pʰə, fə#, tʰəʔ#, də, #nə, rə#, spə, stə#, #gə, wə#,
 #ɛ, #ɛg, #ɛk, #flekt#, #dʌek#, #dʌeb#, #nɛs, zɛ, #fme, #lɛ, #gɹɛ,
 #ʌn, mʌ, #fʌm, #fʌs#, dʌŋk#, #dʌf#, #skʌ, #smʌʔf#, #ʌʌʔ#, #jʌk, #kʰʌʔf#, #gʌŋk, #glʌ, #glʌm, #gʌʌʔf#, #glʌʔf#,
 #ɔʔ, #fɔʔ, fʌʔt#, #fʌʔnd#, #wɔ,
 #æ, #bæʔ, #mæʔʌ#, #dæk, #tʰæn, #næ, #njæk#, ʌæ, ʌæ#, #skæp, stæ, #skæʔz#, #snæbz#, #læm, #læs, læʔʌ#, læk#, læn, #kʰʌæk, #kʰʌæ,
 #gʌæ, #gæn, #hæk,
 #ak, #paʔ, tʃʌn#, dʒaʔn#, #zaʔ, ja#, waʰ#,
 #aʊ, aʊ, #ag, #pʰa, #pʰad#, #bak, baʊ#, bʌʊ#, #van, ta, taf#, #da, dag#, da#, datʰ#, nat#, san#, #skam, spaʊ, #sa, sta, #splaɪg#, #faʊ,
 ʌan#, ʌanz#, la#, #kʰla, #kʰa, #ga, #glam, #glat#, #gak#, #glap#, #waks, wab#, watf#, haʊ#, haf#, #ha (237)

Broad:

bʰʔ(4), sə(3), zʰʔ(3), lə(3), gə(3), di(2), ki(2), fu(2), lu(2), gu(2), ko(2), sʰʔ(2), ʌə(2), bæ(2), ʌæ(2), aʊ(2), da(2),
 i, pʌʔ, pʌʔs, bi, fi, vi, tʌʔs, tʃi, ni, si, zi, fi, li, gi, wiʔf,
 ɹ,
 uv, u, bu, brup, skʌʔt, skju, sku, swu, fmuʔz, fup, lud, ju,
 ɪŋ, ɪg, bʌʔ, blɪn, blɪk, mɪf, fɪf, tɪ, tʌʔ, dʒɪ, nɪs, sɪk, sɪb, sɪs, spɪŋ, fɪn, fɪ, lɪs, lɪŋ, gʌɪn, gʌɪ, wɪk, wɪ,
 wʊ,
 ne,
 o, pop, fʌo, ʌo, lo, lop,
 pʰʔ, pə, bə, mʰn, mə, fə, fʰʔ, tə, dʰʔ, də, rə, ʌʌb, ʌʰʔ, skʌə, sən, stə, stʰŋ, stʰns, fə, fʰŋ, fʰz, zə, ʌf, ʌs, ləs, kʰn, kət, kʰʔ, kʰʌmp, wə,
 pə, fə, təʔ, də, nə, rə, spə, stə, gə, wə,
 ɛ, ɛg, ɛk, flekt, dʌek, dʌeb, nɛs, zɛ, fme, lɛ, gɹɛ,

ʌn, mʌ, fʌm, fʌs, dʌŋk, dʌf, skʌ, smʌtʃ, ʊʌdʒ, ʌf, jʌk, kʌf, gʌŋk, glʌ, glʌm, gʌntʃ, glʌtʃ,
 ɔʔ, fɔʔ, fɔʔt, fɔnd, wɔ,
 æ, bæʔ, mæʊ, dæk, tæn, næ, njæk, skæp, stæ, skæz, snæbz, læm, læs, læʊ, læk, læn, kʌæk, kʌæ, gʌæ, gæn, hæk,
 ak, pa, tʃʌn, dʒʌn, za, ja, wa,
 ag, pa, pʌd, bak, baʊ, bʊʌ, van, ta, taf, dag, daʔ, nat, san, skam, spaʊ, sa, sta, splaʊg, faʊ, ʌan, ʌanz, la, kla, ka, ga, glam, glat, gak, glap,
 wa, wa, waks, wab, watʃ, haʊ, haf, ha (237)

237 total whole syllables

Supra-Segments: Whole Words

Whole Word Total per Word Length

	Syllable Receiving Stress					
	None	First	Second	Third	Fourth	Fifth
Word Length Total						
Monosyllabic: 26						
Bisyllabic: 57	0	54	3			
Trisyllabic: 28	1	18	8	1		
Tetrasyllabic: 2	0	0	2	0	0	
Pentasyllabic: 1	0	0	0	1	0	0
Total: 114	1	72	13	2	0	0

Whole Monosyllables:

treats [tʰɪʔts], nyak [njæk], skrooch [skɹuʔtʃ], broop [brup], ruff [ʌf], mair [mæʔɪ], glaht [glat], grunch [gɹʌntʃ], smuch [smʌtʃ], drek [dɹæk],
 fruss [fɹʌs], gahk [gak], krush [kʰʌʃ], glahp [glap], thrudge [θɹʌdʒ], skaz [skæʔz], pahd [pʰad], shoop [ʃuʔp], preets [pʰɪʔts], glulch
 [glʌtʃ], dreb [dɹɛb], snabz [snæbz], dush [dʌʃ], flehkt [flɛkt], splashrg [splʌʃg], foind [fɔʔnd]

Whole Bisyllables:

WIKsul ['wɪk·sʰ], KHAbul ['kʰa·bʰ], LOObul ['luʔ·bʰ], BOKshoo ['bak·ʃuʔ], PIEyah ['paʔ·ja], BLIKsee ['blɪk·siʔ], GLUHMpul
 ['glʌm·pʰ], NESTahf ['nɛs·taf], SKAHMfʌl ['skam·fʰ], WUHgee ['wʊ·giʔ], NURdee ['nʌ·diʔ], SKOObul ['skuʔ·bʰ], FOLkuhn ['fɔʔ·kʰ],
 GANgrin ['gæn·gɹɪn], TIHzul ['tʰɪ·zʰ], AHRhahr ['aʊ·haʊ], WIHzuhl ['wi·zʰ], TRIHkuht ['tʰɪɹ·kətʰ], NATuhr ['næ·rəʔ], UNthrub ['ʌn·θɹʌbʰ],
 Awur ['æ·wəʔ], GRIHshuhlz ['gɹɪ·ʃʰz], GUNKsis ['gʌŋk·sɪs], GLAHMshin ['glam·ʃɪn], SHIHfur ['ʃɪ·fəʔ], KRAstur ['kʰɹæ·stəʔ], DAKsik
 ['dæk·sɪk], CHEEnis ['tʃiʔ·nis], HAKlee ['hæk·liʔ], SKUHfee ['ska·fiʔ], OOVlah ['uʔv·la], WAHthul ['wɔʔ·θʰ], FUMBahr ['fʌm·baʊ],
 DAHsul ['da·sʰ], GAHko ['ga·koʔ], LASpree ['læs·pɹiʔ], AHKtlahn [ak·tʃʌn], SAHruhf ['sa·rəʔ], GOOwabb ['guʔ·wab], OLMish
 ['ɔʔ·miʃ], GRAsib ['gɹæ·sɪb], GLUHblin ['glʌ·blɪn], EEwatch ['iʔ·watʃ], SKAPtha ['skæp·θæ], SHARstuh ['ʃaʊ·stəʔ], WAHkoe
 ['wa·koʔ], WAHKsnay ['waks·neʔ], DEEturge ['diʔ·tʰɛdʒ], AHGdahg ['ag·dag], YUKstun ['jʌk·stʰ], WEESHdah ['wiʃ·da], POAPdahl
 ['pʰɔʔp·daʔ], LAMfort ['læm·fɔʔt], KRAKsahn ['kʰɹæk·san],

buhDUNK [bə·dʌŋk], skruhWOW [skɹə·waʔ], fuhLAIR [fə·læʔɪ]

Whole Trisyllables:

inkeeshmooz [ɪŋ·kʰiʔ·ʃmuʔz],

FROMunjine ['froʔ·mʰ·dʒaʔn], WAHduhlood ['wa·rə·luʔd], KLAHbulhahf ['kʰla·bʰ·haf], SPRINGuhluh ['spɹɪŋ·gə·lə], SHMEguhluh
 ['ʃmɛ·gə·lə], POPuhluhs [pʰa·pə·ləs], IGmuhloe ['ɪg·mə·loʔ], GURZuhrahn ['gʌ·zə·ʌan], ZYlandul ['zaʔ·læn·dʰ], JIHbrihnaht
 ['dʒɪ·bɹɪ·nat], KEERuhshoo ['kʰiʔ·rə·ʃuʔ], OOwuhlak ['ʊ·wə·læk], OOguhfish ['uʔ·gə·fɪʃ], LEHsuhkul ['lɛ·sə·kʰ], GREHluhsyou
 ['gɹɛ·lə·skjuʔ], VAHNdurleeng ['van·dʌ·lɪŋ], NEEzulkrimp ['niʔ·zʰ·kʰɹəmp], BALduhrahnz ['bæʔ·dʌ·ʌanz],

youMUHtuh [juʔ·'mʌ·tə], sunBALis [sən·'bæ·lɪs], gooSTAHbrah [guʔ·'sta·bra], shuhSWOOzee [ʃə·'swuʔ·ziʔ], suhPURruh [sə·'pʰə·rə],
 egZESTunce [ɛg·'ze·stʰns], ekSPARshun [ɛk·'spaʊ·ʃəŋ], beeARvee [biʔ·'aʊ·viʔ],

hahtahBOO [ha·ta·'buʔ]

Whole Tetrasyllables:

looBASpurus [luʔ·'bæ·spə·rəs], tanTHAsuhlope [tʰæn·'θæ·sə·loʔp]

Whole Pentasyllables:

ehroSTAsheeo [ɛ · ɹoʷ · 'stæ · ʃi^j · oʷ]

Unstressed Onset: **f(12), ɹ(11), l(11), t(9), g(9), s(8), k(7), ɟ(5), n(5), j(5), w(5), b(4), m(4), r(4), d(3), #s(3), p(2), #ɟ(2), θ(2), p^h, #m, #f, v, #tʃ, z, ʃ, #l, #k^h, #g, h** (122)

Unstressed Coda: **s#(5), d#(4), k#(4), n#(3), t#(3), f#(2), s(2), ɹ(2), m, t#, t^h#, z#, ɹ#, k, x#** (32)

Segment Total for Onsets and Codas

Onset: **l(36), #s(34), ɹ(23), f(12), k(11), #g(11), t(9), n(9), s(9), g(9), w(9), m(8), #k^h(8), #p^h(7), j(7), p(6), #b(5), b(5), d(5), ɟ(5), #n(5), #l(5), r(4), #m(3), #f(3), #d(3), #ɹ(3), #h(3), #tʃ(2), #ɟ(2), θ(2), ʃ(2), k^h(2), #w(2), #p, p^h, v, t, #t^h, #s:, #z, z, #l, #j, kⁱ, h** (281)

Coda: **k#(11), s(7), s#(7), m(6), ɹ(6), t(6), k(5), f#(4), t#(4), d#(4), n(4), z#(4), ʃ#(4), t#(4), n#(3), m#(2), t(2), tʃ#(2), ɹ#(2), g#(2), ɳ(2), p, p#, b#, t^h#, z, k^h#, x#** (99)

Segment Total for Stressed and Unstressed Syllables and Monosyllables

Monosyllable Segment: **#s(14), l(14), k#(7), m(4), ʃ#(4), ɹ(4), p(3), t#(3), z#(3), #l(3), #p^h(2), #b(2), m#(2), f#(2), s(2), s#(2), #g(2), g#(2), #p, p#, b#, #m, tʃ#, #n, n, #z, ʃ, #ɹ, ɹ#, #j, #k^h, k, kⁱ, k^h#, ɳ, w** (89)

ɹ(6), æ(4), iⁱ(3), eⁱ(3), ε(2), ʌ(2), a(2), #iⁱ, u^w, o^w, æ, æ#, εⁱ, ʒ#, æⁱ, a, a^w (32)

First Syllable Segment Stressed: **#s(17), ɹ(10), #g(8), l(7), t(6), k(6), #k^h(6), #p^h(5), m(4), #n(4), n(4), #b(3), #d(3), w(3), #h(3), p(2), #f(2), t(2), s(2), #ɹ(2), #l(2), j(2), #w(2), #m, #t^h, #tʃ, #s:, z** (110)

ɹ(11), u^w(8), æ(8), a(8), ʌ(5), iⁱ(4), eⁱ(3), ε(3), aⁱ(3), u^w(2), #iⁱ, #u, #u^w, #ɹ, u, #o^w, o^w, ɔⁱ, #æ, a, #a (67)

First Syllable Segment Unstressed: **ɹ(4), #s(3), m(2), #ɟ(2), b, #m, #f, #tʃ, s, #l, #k^h, #g** (19)

ə(6), æ(2), a(2), iⁱ, #u^w, ε (13)

Second Syllable Segment Stressed: **l(4), d(2), n(2), s(2), b, m, t, tʃ#, k^h, ɳ** (16)

eⁱ(2), iⁱ#, u^w#, u^w, o^w, æ, ε, ʌ, aⁱ, a (11)

Second Syllable Segment Unstressed: **ɹ#(11), f(7), l(7), t(6), s(6), ɹ(6), g(6), ɟ(5), s#(5), k(5), n(4), w(4), m(3), d#(3), r(3), j(3), p(2), b(2), f#(2), d(2), n#(2), ɳ#(2), θ(2), t#(2), k#(2), p^h, ɳ#, v, t^h#, z, z#, ɹⁱ, x#, h** (111)

ə(10), a(8), iⁱ(7), u^w(5), u^w#, ɹ(4), æ#(3), iⁱ#, eⁱ(2), o^w#, o^w(2), ə#, ə, ε, æ, a#, aⁱ (55)

Third Syllable Segment Stressed: **ɹ(2), n, t#, k, k^h** (6)

a(3), u^w (4)

Third Syllable Segment Unstressed: **f(4), s#(4), t(3), s(3), l(3), g(3), k(3), ɹ(2), j(2), k#(2), b, t#, d#, n, n#, ɹ#, ɹⁱ#, t#, w** (38)

ɹ(4), ə(4), iⁱ(2), iⁱ#, u^w, u^w#, eⁱ, o^w#, æ, aⁱ, aⁱ#, a, a# (20)

Fourth Syllable Segment Stressed:

Fourth Syllable Segment Unstressed: **ɳ#, #f, d, r, ʃ, ɹ, l** (7)

o^w#, iⁱ#, eⁱ#, ə# (5)

Fifth Syllable Segment Stressed:

Fifth Syllable Segment Unstressed:

Segment Total by Syllable

First Syllable Segment: **#s(20), ɹ(14), #g(9), l(7), #k^h(7), m(6), t(6), k(6), #p^h(5), #n(4), n(4), #b(3), #f(3), #d(3), s(3), #l(3), w(3), #h(3), p(2), #m(2), t(2), #tʃ(2), #ɟ(2), #ɹ(2), j(2), #w(2), b, #t^h, #s:, z** (129)

ɪ(11), æ(10), a(10), u^w(8), ə(6), i^j(5), ʌ(5), ε(4), e^j(3), a^j(3), #u^w(2), u^w(2), #i^j, #ʊ, #u, #ɪ, ʊ, #o^w, o^w, ɔ^j, #æ, a, #a (80)

Second Syllable Segment: **l(11), ɬ[#](11), s(8), f(7), t(6), n(6), ɹ(6), g(6), dʒ(5), s[#](5), k(5), m(4), d(4), w(4), b(3), d[#](3), r(3), j(3), p(2), f[#](2), n[#](2), ʔ[#](2), θ(2), t[#](2), k[#](2), p^h, ʔ[#], v, t^h, t, tʃ, z, z[#], ɬ, k^h, ŋ, x[#], h** (127)

ə(10), a(9), i^j(7), u^w(6), u^w[#](5), ɪ(4), e^j(4), i^j[#](3), o^w(3), ʌ[#](3), o^w[#](2), ʌ(2), ε(2), a^j(2), ə[#], ʌ, æ, a[#] (66)

Third syllable Segment: **f(4), s[#](4), ɹ(4), k(4), t(3), s(3), l(3), g(3), n(2), t[#](2), j(2), k[#](2), b, t[#], d[#], n[#], ɹ[#], ɬ[#], k^h, w** (44)

ɪ(4), ə(4), a(4), i^j(2), u^w(2), i^j[#], u^w[#], e^j, o^w[#], æ, a^j, a^j[#], a[#] (24)

Fourth Syllable Segment: **ʔ[#], f, d, r, ʃ, ɹ, l** (7)

o^w(2)[#], i^j[#], e^j[#], ʌ[#] (5)

Fifth Syllable Segment:

Segment Stressed and Unstressed Total

Stressed Segment: #s(17), ɹ(12), l(11), #g(8), n(7), k(7), t(6), #k^h(6), #p^h(5), m(5), #n(4), s(4), #b(3), t(3), #d(3), w(3), #h(3), p(2), #f(2), d(2), #tʃ(2), #ɹ(2), #l(2), j(2), k^h(2), #w(2), b, #m, #t^h, #sɹ, z, t[#], ŋ (132)

a(12), ɪ(11), u^w(9), æ(8), ʌ(6), e^j(5), i^j(4), ε(4), a^j(4), u^w(3), o^w(2), i^j[#], #i^j, #ʊ, #u, #u^w, u^w[#], #ɪ, ʊ, #o^w, ʌ, ɔ^j, #æ, a, #a (82)

Unstressed Segment: **ɹ(13), f(12), ɬ[#](12), l(11), s(10), t(9), s[#](9), g(9), k(8), m(5), dʒ(5), n(5), w(5), b(4), d[#](4), r(4), k[#](4), d(3), n[#](3), #s(3), t[#](3), p(2), ʔ[#](2), f[#](2), #dʒ(2), ʔ[#](2), θ(2), j(2), p^h, #m, #f, v, t^h, t[#], #tʃ, z, z[#], ʃ, ɹ[#], #l, ɬ, #k^h, #g x[#], h** (172)

ə(20), a(11), i^j(10), ɪ(8), u^w(6), u^w[#](5), o^w[#](5), i^j[#](4), æ(4), e^j(3), ʌ[#](3), o^w(2), ə[#](2), ε(2), a^j(2), #u^w, e^j[#], ʌ, a[#], a^j[#], a[#] (93)

Segment Total (absolute)

Narrow: **l(36), #s(34), ɹ(29), s(16), k(16), m(14), n(13), f(12), t(12), ɬ[#](12), s[#](11), k[#](11), #g(11), g(9), w(9), #k^h(8), #p^h(7), p(7), #l(6), t(6), #b(5), b(5), d(5), dʒ(5), #n(5), f[#](4), t[#](4), d[#](4), r(4), z[#](4), ʃ[#](4), t[#](4), j(4), #m(3), #f(3), #d(3), #tʃ(3), n[#](3), #ɹ(3), #h(3), m[#](2), ʔ[#](2), #dʒ(2), ʔ[#](2), θ(2), z(2), ʃ(2), ɹ[#](2), k^h(2), g[#](2), ŋ(2), #w(2), p^h, #p, p[#], b[#], v, t^h, #t^h, tʃ[#], #sɹ, #z, ɬ, #j, k^h, k^j, x[#], h** (397)

ɪ(25), a(25), ə(20), u^w(19), i^j(17), æ(16), e^j(11), ε(8), ʌ(8), u^w[#](6), a^j(6), i^j[#](5), o^w[#](5), o^w(5), ʌ[#](4), ʌ(3), #i^j(2), #u^w(2), ə[#](2), a(2), #ʊ, #u, #ɪ, ʊ, e^j[#], #o^w, ε^j, ɔ^j, ʌ^j, #æ, a[#], a^j[#], a^w, a[#], #a (207)

Broad: **s(62), l(42), k(39), ɹ(34), n(23), t(23), g(22), m(21), f(19), t(18), p(17), d(12), b(11), w(11), dʒ(7), z(7), ʃ(6), j(5), tʃ(4), r(4), h(4), θ(2), ŋ(2), v, x** (397)

u(28), a(27), ɪ(26), i(24), ə(22), æ(18), e(12), o(11), a(11), ε(9), ʌ(8), ʌ(7), ʊ, ʌ, ɔ, ɔ^j (207)

604 total segments

Supra-Segments: Consonant Clusters

Consonant Cluster Total for Stressed and Unstressed Syllables and Monosyllables according to Syllable Configuration

Monosyllable Consonant Cluster Onset (all entries are word initial): **#sl(8), #bl(2), #spl(2), #p^hɹ, #sml, #skɹ, #sk, #sm, #sn, #k^hw** (19)

Monosyllable Consonant Cluster Coda (all entries are word final): **st[#](2), mps[#], mp[#], ns[#], ɹt[#], ɹf[#], ŋk[#]** (8)

First Syllable Consonant Cluster Stressed Onset (all entries are word initial): #p^hɹ(2), #fl(2), #sp(2), #dɹ(2), #k^hɹ(2), #gɹ(2), #p^hj, #bɹ, #bl, #mj, #st, #sl, #sk, #sw, #skw, #skɹ, #sm, #gw, #gl (25)

First Syllable Consonant Cluster Stressed Coda: ks (1)

First Syllable Consonant Cluster Unstressed Onset (all entries are word initial): #sm, #k^hɹ, #gɹ (3)

First Syllable Consonant Cluster Unstressed Coda:

Second Syllable Consonant Cluster Stressed Onset: sm (1)

Second Syllable Consonant Cluster Stressed Coda:

Second Syllable Consonant Cluster Unstressed Onset: **st(2)**, fɹ, sk, kʰl, kɹ, gɹ (8)

Second Syllable Consonant Cluster Unstressed Coda:

Third Syllable Consonant Cluster Stressed Onset:

Third Syllable Consonant Cluster Stressed Coda:

Third Syllable Consonant Cluster Unstressed Onset: **st(2)**, kl, gl, gɹ (5)

Third Syllable Consonant Cluster Unstressed Coda: **st#**, ks# (2)

Fourth Syllable Consonant Cluster Stressed Onset:

Fourth Syllable Consonant Cluster Stressed Coda:

Fourth Syllable Consonant Cluster Unstressed Onset: fl (1)

Fourth Syllable Consonant Cluster Unstressed Coda:

Fifth Syllable Consonant Cluster Stressed Onset:

Fifth Syllable Consonant Cluster Stressed Coda:

Fifth Syllable Consonant Cluster Unstressed Onset:

Fifth Syllable Consonant Cluster Unstressed Coda:

Consonant Cluster Total for Stressed and Unstressed Onsets and Codas

Stressed Onset: #pʰl(2), #fl(2), #dɹ(2), #sp(2), #kʰɹ(2), #gɹ(2), #pʰj, #bɹ, #bl, #mj, #st, #sl, #sk, #sw, #skw, #skɹ, #sm, sm, #gw, #gl (26)

Stressed Coda: ks (1)

Unstressed Onset: **st(4), gl(2)**, fɹ, sk, #sm, fl, #kʰɹ, kʰl, kɹ, kl, #gɹ, gɹ(2) (17)

Unstressed Coda: **st#, ks# (3)**

Consonant Cluster Total for Onsets and Codas

Onset: **#sl(9), st(4), #bl(3), #sm(3), #kʰɹ(3), #gɹ(3), #pʰl(2), #fl(2), #dɹ(2), #sp(2), #sk(2), #spl(2), gl(2), #pʰj, #pʰɹ, #bɹ, #mj, fɹ, #st, sk, #sw, #skw, #skɹ, sm, #sn, #sml, #skɹ, fl, #kʰw, kʰl, kɹ, kl, gɹ(2), #gw, #gl (62)**

Coda: **st#(3)**, mps#, mp#, ns#, ɹt#, ɹf#, ks, ks#, ŋk# (11)

Consonant Cluster Total for Stressed and Unstressed Syllables and Monosyllables

Monosyllable Consonant Cluster: **#sl(8), #bl(2), st#(2), #spl(2), #pʰɹ, mps#, mp#, ns#, #sml, #skɹ, #sk, #sm, #sn, ɹt#, ɹf#, #kʰw, ŋk# (27)**

First Syllable Consonant Cluster Stressed: #pʰl(2), #fl(2), #dɹ(2), #sp(2), #kʰɹ(2), #gɹ(2), #pʰj, #bɹ, #bl, #mj, #st, #sl, #sk, #sw, #skw, #skɹ, #sm, ks, #gw, #gl (26)

First Syllable Consonant Cluster Unstressed: **#sm, #kʰɹ, #gɹ (3)**

Second Syllable Consonant Cluster Stressed: sm (1)

Second Syllable Consonant Cluster Unstressed: **st(2)**, fɹ, sk, kʰl, kɹ, gɹ, gl (8)

Third Syllable Consonant Cluster Stressed:

Third Syllable Consonant Cluster Unstressed: **st(2)**, st#, kl, ks#, gl, gɹ (7)

Fourth Syllable Consonant Cluster Stressed:

Fourth Syllable Consonant Cluster Unstressed: fl (1)

Fifth Syllable Consonant Cluster Stressed:

Fifth Syllable Consonant Cluster Unstressed:

Consonant Cluster Total per Syllable

First Syllable Consonant Cluster: **#kʰɹ(3), #gɹ(3), #pʰl(2), #fl(2), #dɹ(2), #sp(2), #sm(2), #pʰj, #bɹ, #bl, #mj, #st, #sl, #sk, #sw, #skw, #skɹ, ks, #gw, #gl (29)**

Second Syllable Consonant Cluster: **st(2)**, fɹ, sk, sm, kʰl, kɹ, gɹ, gl (9)

Third Syllable Consonant Cluster: **st(2)**, st#, kl, ks#, gl, gɹ (7)

Fourth Syllable Consonant Cluster: fl (1)

Fifth Syllable Consonant Cluster:

Consonant Cluster Stressed and Unstressed Total

Consonant Cluster Stressed: #p^hl(2), #fl(2), #dɹ(2), #sp(2), #k^hɹ(2), #gɹ(2), #p^hj, #bɹ, #bl, #mj, #st, #sl, #sk, #sw, #skw, #skɹ, #sm, sm, ks, #gw, #gl (27)

Consonant Cluster Unstressed: **st(4), gɹ(2), gl(2)**, fɹ, st#, #sm, sk, fl, k^hl, kɹ, kl, #k^hɹ, ks#, #gɹ (19)

Consonant Cluster Total (absolute)

Narrow: **#sl(9), st(4), #bl(3), st#(3), #sm(3), #k^hɹ(3), #gɹ(3), #p^hl(2), #fl(2), #dɹ(2), #sp(2), #spl(2), #sk(2), #skɹ(2), gɹ(2), gl(2)**, #p^hj, #p^hɹ, #bɹ, #mj, mps#, mp#, fɹ, ns#, #st, sk, #sw, #skw, sm, #sml, #sn, fl, ɹt#, ɹf#, k^hl, kl, #k^hw, ks, ks#, kɹ, #gw, #gl, ŋk# (73)

Broad: **sl(9), st(8), gɹ(5), bl(3), sm(3), kɹ(3), gl(3), pl(2), fl(2), dɹ(2), sp(2), spl(2), sk(2), skɹ(2), kl(2), ks(2)**, pj, pɹ, bɹ, mj, mps, mp, fɹ, ns, sk, sw, skw, sm, sml, sn, fl, ɹt, ɹf, kw, kɹ, gw, ŋk (73)

73 total consonant clusters

Supra-Segments: Whole Syllables

Whole Syllable Total for Stressed and Unstressed Syllables and Monosyllables

Monosyllable Whole Syllable:

#i^htʃ#, #p^hi^hz#, #bli^hk#, #ni^hz#,
#gu^wf#,
#slɪz#, #slɪmps#, #zɪk#, #fɪmp#, #lɪns#, #jɪf#,
#p^hɹe^hst#, #ble^hk#, #splɹɪŋk#,
#mo^wb#,
#slə^wm#, #sk^hə^w#,
#slɛk#, #slɛf#, #smɛɹɪt#,
#ɹlɜz#,
#skɹɹɹm#, #slɹk#,
#smlæ^hɹ#, #slæf#, #splæŋ^w#, #læk#, #k^hwæg#,
#la^wst#, #paf#,
#slɹɹf#, #gæk# (34)

First Syllable Whole Syllable Stressed (all entries are word initial):

#sæ(2),
#ɹ^h, #tʃɹ^h, #sti^h, #sni^ht, #k^hɹɹ^h, #gli^h, #hi^h,
#ʌ^w,
#u, #u^w, #p^hu^w, #p^hju^w, #blu^w, #mju^w, #du^wt, #slu^w, #sp^hu^wk, #su^w, #gu^w, #gu^wm,
#ɪz, #fli, #dɹɹ, #dɹɹt, #skwɹt, #sɹl, #sɹ, #swɹ, #ɹɹ, #k^hɹs, #gi,
#wʊt,
#p^hle^h, #ble^h, #he^h,
#o^w, #ɹo^w,
#p^hɛk, #nɛ, #gɹɛ,
#bɹm, #sɹt, #skɹ, #skɹɹm, #k^hɹɹ,
#nɔ^h,
#æks, #p^hlæ, #flæ, #næn, #sæn, #spæ,
#la^h, #k^hə, #ha^h,
#na, #sɹə, #sma, #la, #k^hə, #k^hɹɹ, #gɹə, #ga, #gwaɹ, #wan (67)

First Syllable Whole Syllable Unstressed (all entries are word initial):

#sə(2),
#gɹɹ^h,
#u^w,

#bə, #dʒə, #smə, #kʰɪə,
 #fɛs,
 #tʃæ, #læm,
 #tʰaʲ,
 #a, #maɪ, #dʒaɪ (15)

Second Syllable Whole Syllable Stressed:

kʰiʲ#,
 duʷ, nuʷ#,
 beʲ, leʲ,
 loʷ,
 smætʃ,
 lɛs,
 dʌŋ,
 naʲtʰ#,
 la (11)

Second Syllable Whole Syllable Unstressed:

rʲʲ#(2), lə(2), ʲʲ#(2), fə#(2),
 tiʲ#, diʲ, niʲ, dʒiʲ, dʒiʲ#, siʲ#, liʲ, kʷiʲs#, wiʲ,
 muʷ#, fʷuʷ#, fuʷ#, tuʷ#, dʒuʷ, ʊuʷ#, luʷf#, juʷ,
 pɪd#, fɪt#, nɪf#, glɪn#,
 teʲ#, steʲ,
 voʷ#, doʷ#, soʷ, hoʷ#,
 pʰʲʲ#, bə#, mʲʲ#, fə, dʒəs#, dʒəŋ#, nək#, rə, stə, zʲʲ#, ʈʲʲ#, jəʲ#, kʲʲŋ#, kʲʲʲ#, gə, gʲʲ, gʷəŋ#, gʲʲʲ#, wəs#,
 #bə, mə#, wə#,
 nɛs#,
 klæ,
 paʲtʰ#,
 faʲtʰ#, tad#, ska#, san#, ɪax#, la#, jaz#, gas#, wad# (71)

Third Syllable Whole Syllable Stressed:

kʰuʷk,
 na, ɪatʰ#, ɪa (4)

Third Syllable Whole Syllable Unstressed:

fiʲn#, niʲ, giʲʲ#,
 guʷk#, gluʷ#,
 fɪtʰ#, stɪk#, ɪs#, wɪks#,
 jeʲ,
 stoʷ#,
 əs#, ə#, tə, jəs#, kʲʲʲ#,
 klæstʰ#,
 faʲdʰ#, laʲʲ#,
 ba#, faɪ# (21)

Fourth Syllable Whole Syllable Stressed:

Fourth Syllable Whole Syllable Unstressed:

fiʲʲ#,
 deʲʲ#,
 ʃloʷ#, ɪoʷ#,
 ʷŋ#,
 rə# (6)

Fifth Syllable Whole Syllable Stressed:

Fifth Syllable Whole Syllable Unstressed:

Whole Syllable Total per Syllable

First Syllable Whole Syllable (all entries are word initial):

#u^w(2), #sə(2), #sæ(2),

#i^j, #tʃi^j, #sti^j, #sni^t, #k^hɹi^j, #gli^j, #gɹi^j, #hi^j,

#ʊ^w,

#u, #p^hu^w, #p^hju^w, #blu^w, #mju^w, #du^wt, #slu^w, #sp^hu^wk, #su^w, #gu^w, #gu^wm,

#ɪz, #fli, #dɹɪ, #dɹɪt, #skwɪt, #sɪl, #sɪ, #swɪ, #ɹɪ, #k^hɪs, #gɪ,

#wʊt,

#p^hle^j, #bɹe^j, #he^j,

#o^w, #ɹo^w,

#bə, #dʒə, #smə, #k^hɹə,

#p^hɛk, #fɛs, #nɛ, #gɹɛ,

#bɹɪm, #sɹɪt, #skɹɪt, #skɹɪm, #k^hɹɪt,

#nɔ^j,

#æks, #p^hlæ, #flæ, #tʃæ, #næn, #sæn, #spæ, #læm,

#t^ha^j, #la^j, #k^ha, #ha^j,

#a, #maɹ, #dʒaɹ, #na, #sɹɪa, #sma, #la, #k^ha, #k^haɹ, #gɹa, #ga, #gwaɹ, #wan (82)

Second Syllable Whole Syllable:

ɹɹ^t#(2), lə(2), ɹ^t#(2), fə^t#(2),

ti^j#, di^j, ni^j, dʒi^j, dʒi^j#, si^j#, li^j, kɹi^js#, k^hi^j#, wi^j,

mu^w#, fɹu^w#, fu^w#, tu^w#, du^w, dʒu^w, nu^w#, θu^w#, ɹu^w#, lu^wf#, ju^w,

pɪd#, fɪt#, nɪf#, glɪn#,

be^j, te^j#, ste^j, le^j,

vo^w#, do^w#, so^w, lo^w, ho^w#,

p^ha^h#, bə#, mɹa^h#, fə, dʒəs#, dʒəɹ#, nək#, rə, stə, zɹa^h#, θɹa^h#, ɹək#, jɹa^h#, kəɹa^h#, gə, gɹa^h#, gɹa^h#, wəs#,

#bə, mə#, sməɹtʃ, wə#,

nɛs#, lɛs,

dɹɪt,

klæ,

paɹt^h#, naɹt^h#,

fəɹt#, tad#, ska#, san#, ɹax#, la, la#, jaz#, gas#, wad# (82)

Third Syllable Whole Syllable:

fi^jn#, ni^j, gɹi^j#,

k^hu^wk, gu^wk#, glu^w#,

fɪt#, stɪk#, ɹɪs#, wɪks#,

je^j,

sto^w#,

əs#, ə#, tə, jəs#, kɹa^h#,

klæst#,

fəɹd#, laɹi^j#,

ba#, faɹ#, na, ɹaɹt#, ɹa (25)

Fourth Syllable Whole Syllable:

fi^j#,

de^j#,

ɹlo^w#, ɹo^w#,

ɹmɹ#,

ɹə# (6)

Fifth Syllable Whole Syllable:

Whole Syllable Stressed and Unstressed Total

Whole Syllable Stressed:

#sæ(2),

#i^j, #tʃi^j, #sti^j, #sni^t, #k^hɹi^j, k^hi^j#, #gli^j, #hi^j,

#ʊ^w,

#u, #u^w, #p^hu^w, #p^hju^w, #blu^w, #mju^w, #du^wt, du^w, nu^w#, #slu^w, #sp^hu^wk, #su^w, k^hu^wk, #gu^w, #gu^wm,

#ɪz, #fli, #dɪɪ, #dɪɪt, #skwɪt, #sɪl, #sɪ, #swɪ, #ɪɪ, #kʰɪs, #gɪ,
 #wuɪ,
 #pʰleɪ, #bɪeɪ, beɪ, leɪ, #heɪ,
 #oʷ, #ɔʷ, loʷ,
 smætʃ,
 #pʰɛk, #nɛ, lɛs, #gɹɛ,
 #bɒm, dɒŋ, #sɒt, #skɒ, #skɒɒm, #kʰɒɒ,
 #nɔɪ,
 #æks, #pʰlæ, #flæ, #næn, #sæn, #spæ,
 naɪt#, #laɪ, #kʰa, #haɪ,
 #na, na, #s:a, #sma, ɪat#, ɪa, #la, la, #kʰa, #kʰaɪ, #gɪa, #ga, #gwaɪ, #wan (82)

Whole Syllable Unstressed:

niɪ(2), fɪt(2), rɔt(2), #sə(2), lə(2), ɔt(2), kɔt(2), fə(2),
 fiɪn#, fiɪ#, tiɪ#, diɪ, dʒiɪ, dʒiɪ#, siɪ#, liɪ, kɪɪs#, gɪɪ#, #gɪɪ, wiɪ,
 #uʷ, muʷ#, fɪuʷ#, fuʷ#, tuʷ#, dʒuʷ, ʊuʷ#, luʷf#, juʷ, guʷk#, gluʷ#,
 pɪd#, nɪf#, stɪk#, ɪs#, glɪn#, wɪks#,
 teɪ#, deɪ#, steɪ, jeɪ,
 voʷ#, doʷ#, soʷ, stoʷ#, floʷ#, ɔʷ#, hoʷ#,
 əs#, ə#, pʰɔt#, #bə, bə#, ɐm#, mɔt#, fə, tə, dʒəs#, #dʒə, dʒəŋ#, nək#, rə, stə, #smə, zɔt#, ʊt#, ɪək#, jɔt#, jəs#, kəŋ#, #kʰɪə, gə, gɔt, gɪəŋ#,
 gɔt#, wəs#,
 #bə, mə#, rə#, wə#,
 #fɛs, nɛs#,
 #tʃæ, #læm, klæ, klæst#,
 paɪtʰ#, faɪd#, #tʰaɪ, ska#, laɪ#,
 #a, ba#, #maɪ, faɪ#, fat#, tad#, #dʒaɪ, san#, ɪax#, la#, jaz#, gas#, wad# (113)

Whole Syllable Total (absolute)

Narrow:

niɪ(2), #uʷ(2), fɪt(2), rɔt(2), #sə(2), lə(2), ɔt(2), kɔt(2), fə(2), #sæ(2),
 #ɪ, #ɪtʃ#, #pʰɪz#, #bliɪk#, fiɪn#, fiɪ#, tiɪ#, diɪ, #tʃɪ, dʒɪ, dʒɪ#, #niɪz#, siɪ#, #stiɪ, #sniɪ, liɪ, kɪɪs#, #kʰɪɪ, kʰɪɪ#, #gliɪ, gɪɪ#, #gɪɪ, wiɪ, #hiɪ,
 #uʷ,
 #u, #pʰuʷ, #pʰjuʷ, #bluʷ, #mjuʷ, muʷ#, fɪuʷ#, fuʷ#, tuʷ#, #duʷt, duʷ, dʒuʷ, nuʷ#, ʊuʷ#, #sluʷ, #spʰuʷk, #suʷ, ɪuʷ#, luʷf#, juʷ, kʰuʷk,
 #guʷf#, guʷk#, #guʷ, #guʷm, gluʷ#,
 #ɪz, pɪd#, #fli, #dɪɪ, #dɪɪt, nɪf#, stɪk#, #skwɪt, #sɪl, #sɪ, #swɪ, #slɪz#, #slɪmps#, #zɪk#, #ɪmp#, ɪs#, #ɪɪ, #lɪns#, #ɪɪf#, #kʰɪs, #gɪ, glɪn#,
 wɪks#,
 #wuɪ,
 #pʰleɪ, #pʰleɪst#, #bɪeɪ, beɪ, #bleɪk#, teɪ#, deɪ#, steɪ, #spleɪŋk#, leɪ, jeɪ, #heɪ,
 #oʷ, #moʷb#, voʷ#, doʷ#, soʷ, stoʷ#, floʷ#, ɔʷ#, #ɔʷ, loʷ, hoʷ#,
 əs#, ə#, pʰɔt#, #bə, bə#, ɐm#, mɔt#, fə, tə, dʒəs#, #dʒə, dʒəŋ#, nək#, rə, stə, #smə, zɔt#, ʊt#, ɪək#, jɔt#, jəs#, kəŋ#, #kʰɪə, gə, gɔt, gɪəŋ#,
 gɔt#, wəs#,
 #bə, mə#, rə#, smætʃ, #slæm#, #skɪə#, wə#,
 #pʰɛk, #fɛs, #nɛ, nɛs#, #slɛk#, #slɛf#, #smɛɪt#, lɛs, #gɹɛ,
 #ɪɪz#,
 #bɒm, dɒŋ, #sɒt, #skɒ, #skɒɒm, #skɒɒm#, #slɒk#, #kʰɒɒ,
 #nɔɪ,
 #æks, #pʰlæ, #flæ, #tʃæ, #næn, #sæn, #spæ, #smlæɪɪ#, #slæf#, #splæŋ#, #læk#, #læm, #kʰwæŋ#, klæ, klæst#,
 #paf#, paɪtʰ#, faɪd#, #tʰaɪ, naɪt#, ska#, #laɪ, laɪ#, #laʷst#, #kʰa, #haɪ,
 #a, ba#, #maɪ, faɪ#, fat#, tad#, #dʒaɪ, #na, na, #s:a, #sma, san#, #slɪɪf#, ɪax#, ɪat#, ɪa, #la, la, la#, jaz#, #kʰa, #kʰaɪ, #gɪa, #ga, #gwaɪ,
 gas#, #gak#, wad#, #wan (227)

Broad:

u(3), la(3), dʒi(2), ni(2), gɪi(2), fɪt(2), ɔ(2) bə(2), rɔt(2), sə(2), lə(2), ɔt(2), kɔt(2), fə(2), skɒɒm(2), sæ(2), la(2), na(2),
 i, itʃ, pɪz, blik, fin, fi, ti, di, tʃi, niz, si, sti, sniɪ, li, kɪɪs, kɪɪ, ki#, gli, wi, hi,
 ʊ,
 pu, pju, blu, mju, mu, fɪu, fu, tu, duɪ, du, dʒu, nu#, ʊu, slu, spuk, su, ɪu, luf, ju, kuk, guɪ, guk, gu, gum, glu,
 ɪz, pɪd, flɪ, dɪɪ, dɪɪt, nɪf, stɪk, skwɪt, sɪl, sɪ, swɪ, slɪz, slɪmps, zɪk, ɪmp, ɪs, ɪɪ, lɪns, ɪɪf, kɪs, gɪ, glɪn, wɪks,

wʊt,
 ple, pɹɛst, bɹɛ, be, blɛk, tɛ, dɛ, stɛ, splɛŋk, lɛ, jɛ, hɛ,
 o, mob, vo, do, so, stɔ, flɔ, lo, ho,
 əs, ə, pʰɹ̥, ʰm̥, mʰ, fə, tə, dʒəs, dʒə, dʒʰn̥, nək, rə, stə, smə, zʰ, ʰ, ɹək, jʰ, jəs, kʰn̥, kɹə, gə, gʰ, gɹʰm̥, gʰ, wəs,
 bə, mə, rə, sməɹf, sləɹm, skə, wə,
 pɛk, fɛs, nɛ, nɛs, slɛk, slɛf, smɛɹt, lɛs, gɹɛ,
 ɹɹɹ,
 bɹm, dɹŋ, sɹt, skɹ, slɹk, kɹɹ,
 nɹ,
 æks, plæ, flæ, tʃæ, næn, sæn, spæ, smlæɹ, slæf, splæg, læk, læm, kwæg, klæ, klæst,
 paf, pat, fad, ta, nat#, ska, last, ka, ha,
 a, ba, maɹ, faɹ, faɹ, tad, dʒaɹ, sa, sma, san, slaɹf, ɹax, ɹat, ɹa, jaz, ka, kaɹ, gɹa, ga, gwaɹ, gas, gak, wad, wan (227)

227 total whole syllables

Supra-Segments: Whole Words

Whole Word Total per Word Length

114 total words

Whole Monosyllables:

bleek [bliˈk], prayst [pʰɹɛˈst], rluh [ɹɹɹ], pahf [paf], slek [slɛk], splaynk [splɛˈŋk], slurm [sləɹm], yish [jɹɹ] slesh [slɛf], zihk [zɹk], skrum [skɹɹm], lak [læk], slimps [slɹmps], neez [niˈz], blake [bleˈk], splag [splæg], kwag [kʰwæg], slash [slæf], slihz [slɹz], smlair [smlæˈɹ], skyur [skʰə], slahrɹ [slɑɹf], goosh [guˈʃ], smairt [smɛˈɹt], linse [lɹns], mowb [moˈb], peez [pʰiˈz], loust [laˈst], shimp [ʃɹmp], gahk [gak], sluk [slɹk], eech [iˈtʃ]

Whole Bisyllables:

GRAHpul [ˈgɹa·pʰɹ̥], NOYuhl [ˈnɹɹ·ɹ̥], POOrɔo [ˈpʰuˈɹuˈɹ], FLIHkuhl [ˈflɹɹ·kʰ], KAHskah [ˈkʰa·ska], PLAsɛɛ [ˈpʰlæ·siˈ], BUMfɹoo [ˈbɹm·fɹuˈ], SPOOKnɛs [ˈspʰuˈk·nɛs], OOghas [ˈuˈgas], STEErɹk [ˈstiˈɹək], PEHKmoo [ˈpʰɛk·muˈ], ROWjuhn [ˈɹoˈdʒʰn̥], FLAjeɛ [ˈflæ·dʒiˈ], SWIHgul [ˈswɹɹ·gʰ], OOgruhtm̥ [ˈuˈgɹʰm̥], SOOwus [ˈsuˈwəs], BRAYho [ˈbɹɛˈhoˈ], GIHmuhl [ˈgɹɹ·mʰ], LAHtoo [ˈla·tuˈ], PLAYtul [ˈpʰlɛˈɹ̥], OOwur [ˈɹ̥ˈwəˈ], GLEEsahn [ˈgliˈsan], GREHtul [ˈgɹɛ·ɹ̥], BLOOuhl [ˈbluˈɹ̥], SKRUMjuhs [ˈskɹɹm·dʒəs], AKSfɹil [ˈæks·fɹɹ], IZwəhd [ˈɹz·wad], CHEEyahz [ˈtʃiˈjaz], HAIɹlah [ˈhaˈla], SNILtee [ˈsniˈtiˈ], SATHul [ˈsæ·ʰ], RIHZul [ˈɹɹ·zʰ], GOOMBuh [ˈguˈm·bə], LYkreese [ˈlaˈkɹiˈs], KREEtəhd [ˈkʰɹiˈtad], SMAHGlin [ˈsma·gɹɹ], SPANuk [ˈspæ·nək], WAHNtay [ˈwan·tɛˈ], MYOULOof [ˈmjuˈluˈf], DRIHpɹte [ˈdɹɹ·paɹt], SAHpɹd [ˈsɹa·pɹd], SILfuhr [ˈsɹɹ·fə], KISSmur [ˈkʰɹs·mə], HAYrah [ˈheˈɹax], GAHfoo [ˈga·fuˈ], SUHLkuhn [ˈsɹt·kʰn̥], SKWILnɹf [ˈskwɹt·nɹf], DOOLthoo [ˈduˈt·ʰuˈ], PYOUfur [ˈpʰjuˈfə], NAHvɔɛ [ˈna·voˈ], DRITfahl [ˈdɹɹt·faɹ], WULdoe [ˈwʊt·doˈ], EEyul [ˈiˈɹ̥],

suhNITE [sə·ˈnaˈt], mahrKEE [maɹ·ˈkʰiˈ], kruhNOO [kʰɹə·ˈnuˈ], smuhSMURCH [smə·ˈsməɹtʃ]

Whole Trisyllables:

GOOGulwɹks [ˈguˈgʰ·wɹks], SALuhgɹɛɛ [ˈsæ·lə·gɹiˈ], KRUHstuhgook [ˈkʰɹɹ·stə·guˈk], NANdeefahr [ˈnæn·diˈ·faɹ], OHleeyus [ˈoˈliˈjəs], HEEjeegloo [ˈhiˈ·dʒiˈ·gluˈ], GWAHRguhɹɹɹɹ [ˈgwaɹ·gə·faˈd], NEHsofɹl [ˈnɛ·soˈ·fɹt], KAHRduhkɹst [ˈkʰaɹ·rə·klæst], SLOOburɹs [ˈsluˈ·bə·ɹɹs], SKUDyɔɹlyɛ [ˈska·dʒuˈ·laˈ], KAHluhfɛɛn [ˈkʰa·lə·fiˈn̥], SANyɔɹwus [ˈsæn·juˈ·əs],

lamBAYstɔɛ [læm·ˈbeˈ·stɔˈ], buhLAHstɹk [bə·ˈla·stɹk], gɹɛLAYbah [gɹiˈ·leˈ·ba], fɛsDUNKul [fɛs·ˈdɹŋ·kʰ], chaDOOwuh [tʃæ·ˈduˈ·ə],

tyklairAHL [tʰaˈi·klæ·ˈɹat]

Whole Tetrasyllables:

SIHnɛɛɹɹtɹ [ˈsɹɹ·niˈ·jeˈ·rəˈ],

suhLONɛɛɹm [sə·ˈloˈ·niˈ·ɹ̥], juhLEHstuhfɛɛ [dʒə·ˈlɛs·tə·fiˈ],

jarfuhRAHɹɹ [dʒaɹ·fə·ˈɹa·ɹoˈ], əhstəɹNAHɹɹ [a·stɛˈ·na·dɛˈ], ooɹɛɛKOOKshlow [uˈ·wiˈ·ˈkʰuˈk·fɹoˈ]

Whole Pentasyllables:

		Syllable Receiving Stress					
		None	First	Second	Third	Fourth	Fifth
Word Length Total							
Monosyllabic: 32							
Bisyllabic: 57		0	53	4			
Trisyllabic: 19		0	13	5	1		
Tetrasyllabic: 6		0	1	2	3	0	
Pentasyllabic: 0		0	0	0	0	0	0
Total: 114		0	67	11	4	0	0

Question ID: U. an unexpected cool breeze on a sultry day

Segments

Segment Total for Stressed and Unstressed Syllables and Monosyllables according to Syllable Configuration

Monosyllable Onset: #s(6), l(6), w(5), #b(4), #f(4), ɹ(3), #z(2), k(2), #w(2), p, #p^h, #m, #fⁱ, #t, #t^h, #ɹ, #w^h (42)Monosyllable Nucleus: u^w(6), ɪ(6), i^j(3), #u^w(2), o^w(2), a^j(2), a(2), u, ʊ, o^w#, ε (27)

Monosyllable Coda: ʃ#(8), s#(4), m#(3), t#(3), p#(2), m(2), f#(2), v#(2), d#, t, k (29)

First Syllable Segment Stressed Onset: #w(12), #s(10), #l(7), #k^h(6), ɹ(5), #f(4), l(4), #v(3), #t^h(3), #g(3), #p^h(2), p, #m, t, #t, #tʃ, #dʒ, n, #r, #ɹ, j, w, #h (71)First Syllable Segment Stressed Nucleus: u^w(11), ɪ(9), æ(9), i^j(8), a(5), e^j(4), ʌ(3), ʊ(2), ε(2), a^j(2), i, #ɹ, #o^w, #ε, ɔ, #a^j, a, #a (63)

First Syllable Segment Stressed Coda: n(3), s(3), p(2), m(2), f(2), ɹ(2), t(2), z (17)

First Syllable Segment Unstressed Onset: #k(3), #h(3), #b(2), #m(2), #f(2), l(2), #k^h(2), #p, #t^h, ɹ, #ɹ, #l, #j, k, #w, w (25)First Syllable Segment Unstressed Nucleus: ə(7), a(4), o^w(2), ε(2), i^j, u^w, #ɹ, #o, ʌ, #ə, ə, ɔ, a^j, #a (25)

First Syllable Segment Unstressed Coda: m, n, ɹ (3)

Second Syllable Segment Stressed Onset: l(4), t^h(3), f(2), d(2), n(2), ʃ(2), m, v, z, g, w (20)Second Syllable Segment Stressed Nucleus: a(4), æ(3), i^j(2), u^w(2), ɪ(2), ε(2), ɔ(2), e^j, o^w, a^j (20)

Second Syllable Segment Stressed Coda: n#(3), t#, s#, ɹ, t, k (8)

Second Syllable Segment Unstressed Onset: t(9), ɹ(6), l(6), v(5), z(5), r(4), p(3), m(3), f(3), n(3), s(3), k(3), b(2), tʃ(2), ʒ(2), g(2), w(2), t^h, d, ʌ, ʃ, j, h (69)Second Syllable Segment Unstressed Nucleus: i^j#(8), ɪ(8), a(7), i^j(5), ə#(5), ə#(4), ə(4), ʌ#(4), ə(3), ə#(3), u^w#(2), ə#(2), æ(2), a^j#(2), a#(2), o, o#, o^w#, ə#, a#, a^w# (67)

Second Syllable Segment Unstressed Coda: n#(5), ʃ#(3), ɹ#(2), k#(2), p#, s, z#, t#, ɹ# (17)

Third Syllable Segment Stressed Onset: d, l (2)

Third Syllable Segment Stressed Nucleus: i^j#, u^w#, ɹ, ε (4)

Third Syllable Segment Stressed Coda: s#, s (2)

Third Syllable Segment Unstressed Onset: ɹ(8), p^h(3), f(3), s(3), l(3), w(2), m, v, t, n, r, ʌ, ʃ, j, h (31)Third Syllable Segment Unstressed Nucleus: i^j(4), i^j#(4), ɪ(4), ə#(3), ɔ(3), ə(2), ə#(2), a#(2), u^w, e^j, a^j#, a^j (28)Third Syllable Segment Unstressed Coda: ʃ#(2), ɹ#(2), t^h#, t#, n#, s#, z#, ɹ, k#, ɹ# (12)

Fourth Syllable Segment Stressed Onset:

Fourth Syllable Segment Stressed Nucleus:

Fourth Syllable Segment Stressed Coda:

Fourth Syllable Segment Unstressed Onset: m, t^h, r, j, k (5)Fourth Syllable Segment Unstressed Nucleus: ə(3), u^wɹ, ɹ, a^j (6)

Fourth Syllable Segment Unstressed Coda: s#(2), d#, ɹ# (4)

Fifth Syllable Segment Stressed Onset:

Fifth Syllable Segment Stressed Nucleus:

Fifth Syllable Segment Stressed Coda:

Fifth Syllable Segment Unstressed Onset: n, z (2)

Fifth Syllable Segment Unstressed Nucleus: i^j#, ɹ (2)

Fifth Syllable Segment Unstressed Coda: ɹ# (1)

Segment Total for Stressed and Unstressed Onsets and Codas

Stressed Onset: #w(12), #s(10), l(9), #l(7), #k^h(6), ɹ(5), #f(4), #v(3), #t^h(3), t^h(3), d(3), n(3), #g(3), #p^h(2), f(2), ʃ(2), w(2), p, #m, m, v, t, #t, #tʃ, #dʒ, #r, z, #ɹ, j, g, #h (93)

Stressed Coda: s(4), n(3), n#(3), ɹ(3), t(3), p(2), m(2), f(2), s#(2), t#, z, k (27)

Unstressed Onset: ɹ(15), l(11), t(10), f(6), v(6), r(6), (6), z(6), m(5), n(5), k(5), w(5), p(3), p^h(3), j(3), #k(3), #h(3), #b(2), b(2), #m(2), #f(2), t^h(2), tʃ(2), θ(2), ʒ(2), ʃ(2), #k^h(2), g(2), h(2), #p, #t^h, d, s, #ɹ, #l, #j, #w (133)

Unstressed Coda: n#(6), ʃ#(5), ɹ#(4), ŋ#(4) s#(3), k#(3), z#(2), ɹ(2), p#, m, t^ʃ#, t#, d#, n, s, t# (37)

Segment Total for Onsets and Codas

Onset: l(26), ɹ(23), #s(16), #w(15), w(12), t(11), #f(10), f(8), n(8), #l(8), #k^h(8), v(7), z(7), k(7), #b(6), m(6), r(6), s(6), p(5), #t^h(5), t^h(5), #m(4), d(4), ʃ(4), j(4), #h(4), #p^h(3), p^h(3), #v(3), #ɹ(3), #k(3), #g(3), g(3), b(2), #t(2), tʃ(2), θ(2), #z(2), ʒ(2), h(2), #p, #f^j, #tʃ, #dʒ, #r, #j, #w^h (267)

Coda: ʃ#(13), n#(9), s#(9), m(5), s(5), ɹ(5), n(4), ɹ#(4), t(4), t#(4), ŋ#(4) p#(3), m#(3), k#(3), p(2), f(2), f#(2), v#(2), t#(2), d#(2), z#(2), k(2), t^ʃ#, z (93)

Segment Total for Stressed and Unstressed Syllables and Monosyllables

Monosyllable Segment: ʃ#(8), #s(6), l(6), w(5), #b(4), #f(4), s#(4), m#(3), ɹ(3), t#(3), k(3), p#(2), m(2), f#(2), v#(2), #z(2), #w(2), p, #p^h, #m, #f^j, #t, #t^h, d#, #ɹ, t, #w^h (71)

u^w(6), ɪ(6), i^j(3), #u^w(2), o^w(2), a^j(2), a(2), u, ʊ, o^w#, ε (27)

First Syllable Segment Stressed: #w(12), #s(10), ɹ(7), #l(7), #k^h(6), #f(4), n(4), l(4), p(3), #v(3), #t^h(3), s(3), #g(3), #p^h(2), m(2), f(2), t(2), #m, t, #t, #tʃ, #dʒ, #r, z, #ɹ, j, w, #h (88)

u^w(11), ɪ(9), æ(9), i^j(8), a(5), e^j(4), ʌ(3), ʊ(2), ε(2), a^j(2), i, #ɪ, #o^w, #ε, ɔ, #a^j, a, #a (63)

First Syllable Segment Unstressed: #k(3), #h(3), #b(2), #m(2), #f(2), ɹ(2), l(2), #k^h(2), #p, m, #t^h, n, #ɹ, #l, ʌ, #j, k, #w, w (29)

ə(7), a(4), o^w(2), ε(2), i^j, u^w, #ɪ, #o, #ə, ə, ɔ, a^j, #a (24)

Second Syllable Segment Stressed: l(4), t^h(3), n#(3), f(2), d(2), n(2), ʃ(2), m, v, t#, s#, z, ɹ, t, k, g, w (28)

a(4), æ(3), i^j(2), u^w(2), ɪ(2), ε(2), ɔ(2), e^j, o^w, a^j (20)

Second Syllable Segment Unstressed: t(9), ɹ(6), l(6), v(5), n#(5), ʌ#(5), z(5), r(4), s(4), ʌ#(4), p(3), m(3), f(3), n(3), ʌ#(3), ʃ#(3), k(3), b(2), tʃ(2), ʒ(2), ɹ#(2), k#(2), g(2), w(2), p#, ʌ#t, t^h, d, θ, z#, ʃ, t#, j, ŋ#, h (99)

i^j#(8), ɪ(8), a(7), i^j(5), ə#(4), ə(4), ə(3), u^w#(2), ə#(2), æ(2), a^j#(2), a#(2), o, o#, o^w#, a#, a^w# (54)

Third Syllable Segment Stressed: d, s#, s, l (4)

i^j#, u^w#, ɪ, ε (4)

Third Syllable Segment Unstressed: ɹ(9), p^h(3), f(3), s(3), l(3), ʃ#(2), ɹ#(2), w(2), m, v, t, t^ʃ#, t#, n, n#, r, θ, s#, z#, ʃ, j, k#, ŋ#, h (43)

i^j(4), i^j#(4), ɪ(4), ə#(3), ɔ(3), ə(2), ə#(2), a#(2), u^w, e^j, a^j#, a^j (28)

Fourth Syllable Segment Stressed:

Fourth Syllable Segment Unstressed: s#(2), m, t^h, d#, r, j, k, ŋ# (9)

ə(3), u^wɹ, ɪ, a^j (6)

Fifth Syllable Segment Stressed:

Fifth Syllable Segment Unstressed: n, z, ŋ# (3)

i^j#, ɪ (2)

Segment Total by Syllable

First Syllable Segment: #w(13), #s(10), ɹ(9), #l(8), #k^h(8), #f(6), l(6), n(5), #t^h(4), #h(4), p(3), #m(3), m(3), #v(3), s(3), #k(3), #g(3), #p^h(2), #b(2), f(2), #ɹ(2), t(2), w(2), #p, t, #t, #tʃ, #dʒ, #r, z, ʔ, j, #j, k (117)

u^w(12), i^j(9), ɪ(9), æ(9), a(9), ə(7), e^j(4), ʌ(3), #ɪ(2), ʊ(2), o^w(2), ε(2), ε(2), ɔ(2), a^j(2), #a(2), i, #o^w, #o, #ε, #ə, ʌ, #a^j, a^j, a (87)

Second Syllable Segment: l(10), t(9), n#(8), ɹ(7), v(6), z(6), f(5), n(5), ʔη#(5), m(4), t^h(4), r(4), s(4), ʔ#(4), k(4), p(3), d(3), ʔη(3), ʃ(3), ʃ#(3), g(3), w(3), b(2), tʃ(2), ʒ(2), ɹ#(2), k#(2), p#, ʔm, t#, Θ, s#, z#, t#, t, j, η#, h (127)

a(11), ɪ(10), i^j#(8), i^j(7), æ(5), ə#(4), ə(4), ʌ(3), u^w#(2), u^w(2), ʌ#(2), ε(2), ɔ(2), a^j#(2), a#(2), e^j, o, o^w, o#, o^w#, a#, a^j, a^w# (74)

Third syllable Segment: ɹ(9), s(4), l(4), p^h(3), f(3), s#(2), ʃ#(2), ɹ#(2), w(2), m, v, t, t^h#, t#, d, n, n#, r, Θ, z#, ʃ, j, k#, η#, h (47)

i^j#(5), ɪ(5), i^j(4), ə#(3), ɔ(3), ə(2), ʌ#(2), a#(2), u^w, u^w#, e^j, ε, a^j#, a^j (32)

Fourth Syllable Segment: s#(2), m, t^h, d#, r, j, k, η# (9)

ə(3), u^wɹ, ɪ, a^j (6)

Fifth Syllable Segment: n, z, η# (3)

i^j#, ɪ (2)

Segment Stressed and Unstressed Total

Stressed Segment: #w(12), #s(10), l(9), ɹ(8), #l(7), n(6), #k^h(6), #f(4), f(4), s(4), p(3), m(3), #v(3), #t^h(3), t^h(3), d(3), n#(3), t(3), #g(3), #p^h(2), s#(2), z(2), ʃ(2), w(2), #m, v, t, #t, t#, #tʃ, #dʒ, #r, #ɹ, j, k, g, #h (120)

u^w(13), ɪ(12), æ(12), i^j(10), a(9), e^j(5), ε(5), ʌ(3), ɔ(3), a^j(3), ʊ(2), i^j#, i, u^w#, #ɹ, #o^w, o^w, #ε, #a^j, a, #a (87)

Unstressed Segment: ɹ(17), l(11), t(10), s(7), m(6), f(6), v(6), n(6), n#(6), r(6), z(6), ʔη#(5), ʃ#(5), k(5), w(5), ɹ#(4), ʔ#(4), η#(4), p(3), p^h(3), ʔη(3), s#(3), j(3), #k(3), k#(3), #h(3), #p(2), b(2), #b(2), #m(2), #f(2), t^h(2), tʃ(2), Θ(2), z#(2), ʒ(2), ʃ(2), #k^h(2), g(2), h(2), p#, ʔm, #t^h, t^h#, t#, d, d#, #ɹ, #l, ʔ, t#, #j, #w (184)

ə(16), ɪ(14), i^j#(13), a(11), i^j(10), ə#(7), ʌ(4), ʌ#(4), ɔ(4), a#(4), a^j#(3), a^j(3), u^w#(2), u^w(2), o^w(2), ε(2), æ(2), u^wɹ, #ɪ, e^j, o, o#, #o, o^w#, #ə, a#, a^w#, #a (114)

Segment Total (absolute)

Narrow: ɹ(28), l(26), #s(16), #w(15), ʃ#(13), n(12), w(12), m(11), t(11), s(11), #f(10), f(10), n#(9), s#(9), k(9), z(8), #l(8), #k^h(8), p(7), v(7), #b(6), r(6), #t^h(5), t^h(5), ʔη#(5), #m(4), d(4), ʃ(4), ɹ#(4), ʔ#(4), t(4), t#(4), j(4), η#(4), #h(4), p#(3), #p^h(3), p^h(3), m#(3), #v(3), ʔη(3), #ɹ(3), #k(3), k#(3), #g(3), g(3), #p(2), b(2), f#(2), v#(2), t#(2), #t(2), d#(2), tʃ(2), Θ(2), #z(2), z#(2), ʒ(2), h(2), ʔm, #f^j, t^h#, #tʃ, #dʒ, #r, ʔ, #j, #w^h (375)

ɪ(32), i^j(23), a(22), u^w(21), ə(16), i^j#(14), æ(14), ε(8), a^j(8), ə#(7), ɔ(7), e^j(6), o^w(5), ʌ(4), ʌ#(4), a#(4), u^w#(3), ʊ(3), ʌ(3), a^j#(3), #u^w(2), #ɪ(2), o^w#(2), #a(2), i, u, u^wɹ, o, o#, #o^w, #o, #ə, #ε, a, a#, #a^j, a^w# (228)

Broad: s(36), ɹ(35), l(34), n(29), w(28), t(26), f(23), k(23), m(19), p(18), ʃ(17), t(13), v(12), z(12), b(8), d(6), r(6), g(6), h(6), j(5), η(4), tʃ(3), Θ(2), ʒ(2), dʒ, r (375)

i(38), ɪ(34), u(28), a(28), ə(24), a(15), æ(14), o(11), ε(9), ʌ(8), ɔ(7), e(6), ʊ(3), ʌ(3) (228)

603 total segments

Supra-Segments: Consonant Clusters

Consonant Cluster Total for Stressed and Unstressed Syllables and Monosyllables according to Syllable Configuration

Monosyllable Consonant Cluster Onset (all entries are word initial): #fl(3), #sw(3), #sk(2), #bl, #bɹ, mɹ, #fɹ, #t^hw, #t^hɹ, #spl, #zw (16)

Monosyllable Consonant Cluster Coda (all entries are word final): mf#, mp#, td#, ks# (4)

First Syllable Consonant Cluster Stressed Onset (all entries are word initial): #p^hj, #fɹ, #fl, #stɹ, #spɹ, #sl, #sn, #sw, #k^hl, #kl, #gɹ (11)

First Syllable Consonant Cluster Stressed Coda:

First Syllable Consonant Cluster Unstressed Onset (all entries are word initial): **#bl(2)**, #p^hɹ, #kw (4)

First Syllable Consonant Cluster Unstressed Coda:

Second Syllable Consonant Cluster Stressed Onset:

Second Syllable Consonant Cluster Stressed Coda: ɹn#, tɹ# (2)

Second Syllable Consonant Cluster Unstressed Onset: **tɹ(2)**, vɹ, kl (4)

Second Syllable Consonant Cluster Unstressed Coda: ɳz#, sp# (2)

Third Syllable Consonant Cluster Stressed Onset:

Third Syllable Consonant Cluster Stressed Coda:

Third Syllable Consonant Cluster Unstressed Onset: **p^hɹ(2)**, st (3)

Third Syllable Consonant Cluster Unstressed Coda: ɹt# (1)

Fourth Syllable Consonant Cluster Stressed Onset:

Fourth Syllable Consonant Cluster Stressed Coda:

Fourth Syllable Consonant Cluster Unstressed Onset: t^hj (1)

Fourth Syllable Consonant Cluster Unstressed Coda:

Fifth Syllable Consonant Cluster Stressed Onset:

Fifth Syllable Consonant Cluster Stressed Coda:

Fifth Syllable Consonant Cluster Unstressed Onset:

Fifth Syllable Consonant Cluster Unstressed Coda:

Consonant Cluster Total for Stressed and Unstressed Onsets and Codas

Stressed Onset: #p^hj, #fɹ, #fl, #stɹ, #spɹ, #sl, #sn, #sw, #k^hl, #kl, #gɹ (11)

Stressed Coda: ɹn#, tɹ# (2)

Unstressed Onset: **p^hɹ(2)**, **#bl(2)**, **tɹ(2)**, #p^hɹ, vɹ, t^hj, st, kl, #kw (12)

Unstressed Coda: ɳz#, sp#, ɹt# (3)

Consonant Cluster Total for Onsets and Codas

Onset: **#fl(4)**, **#sw(4)**, **#bl(3)**, **p^hɹ(2)**, **#fɹ(2)**, **tɹ(2)**, **#sk(2)**, #p^hj, #p^hɹ, #bɹ, mɹ, vɹ, #t^hw, #t^hɹ, t^hj, st, #spl, #stɹ, #spɹ, #sl, #sn, #zw, #k^hl, #kl, kl, #kw, #gɹ (39)

Coda: mf#, mp#, ɳz#, sp#, ɹt#, ɹn#, tɹ#, td#, ks# (9)

Consonant Cluster Total for Stressed and Unstressed Syllables and Monosyllables

Monosyllable Consonant Cluster: **#fl(3)**, **#sw(3)**, **#sk(2)**, #bl, #bɹ, mɹ, mf#, mp#, #fɹ, #t^hw, #t^hɹ, #spl, #zw, td#, ks# (20)

First Syllable Consonant Cluster Stressed: #p^hj, #fɹ, #fl, #stɹ, #spɹ, #sl, #sn, #sw, #k^hl, #kl, #gɹ (11)

First Syllable Consonant Cluster Unstressed: **#bl(2)**, #p^hɹ, #kw (4)

Second Syllable Consonant Cluster Stressed: ɹn#, tɹ# (2)

Second Syllable Consonant Cluster Unstressed: **tɹ(2)**, vɹ, ɳz#, sp#, kl (6)

Third Syllable Consonant Cluster Stressed:

Third Syllable Consonant Cluster Unstressed: **p^hɹ(2)**, st, ɹt# (4)

Fourth Syllable Consonant Cluster Stressed:

Fourth Syllable Consonant Cluster Unstressed: t^hj (1)

Fifth Syllable Consonant Cluster Stressed:

Fifth Syllable Consonant Cluster Unstressed:

Consonant Cluster Total per Syllable

First Syllable Consonant Cluster: **#bl(2), #p^hj, #p^hɹ, #fɹ, #fl, #stɹ, #spɹ, #sl, #sn, #sw, #k^hl, #kl, #kw, #gɹ** (15)

Second Syllable Consonant Cluster: **ɹɹ(2), vɹ, ɳz#, sp#, ɹn#, tɹ#, kl** (8)

Third Syllable Consonant Cluster: **p^hɹ(2), st, ɹt#** (4)

Fourth Syllable Consonant Cluster: **t^hj** (1)

Fifth Syllable Consonant Cluster:

Consonant Cluster Stressed and Unstressed Total

Consonant Cluster Stressed: #p^hj, #fɹ, #fl, #stɹ, #spɹ, #sl, #sn, #sw, ɹn#, tɹ#, #k^hl, #kl, #gɹ (13)

Consonant Cluster Unstressed: **p^hɹ(2), #bl(2), ɹɹ(2), #p^hɹ, vɹ, t^hj, ɳz#, sp#, st, ɹt#, #kw, kl** (15)

Consonant Cluster Total (absolute)

Narrow: **#fl(4), #sw(4), #bl(3), p^hɹ(2), #fɹ(2), ɹɹ(2), #sk(2), #p^hj, #p^hɹ, #bɹ, mɹ, mf#, mp#, vɹ, #t^hw, #t^hɹ, t^hj, ɳz#, #spɹ, #sl, #sn, #spl, st, sp#, #stɹ, #zw, ɹt#, ɹn#, tɹ#, tɹd#, ks#, #k^hl, kl, #kw, #kl, #gɹ** (48)

Broad: **fl(4), sw(4), pɹ(3), bl(3), ɹɹ(3), kl(3), fɹ(2), sk(2), pj, bɹ, mɹ, mf, mp, vɹ, tw, tj, nz, spɹ, sl, sn, spl, st, sp, stɹ, zw, ɹt, ɹn, tɹ, tɹd, ks, kw, gɹ** (48)

48 total consonant clusters

Supra-Segments: Whole Syllables

Whole Syllable Total for Stressed and Unstressed Syllables and Monosyllables

Monosyllable Whole Syllable:

**#biɹf#, #spliɹt#, #ɹiɹs#,
#u^wm#, #buv#, #fɹu^wt#, #fɹu^wf#, #flu^w#, #sku^wf#, #lu^wmf#, #wu^wf#, #w^hu^wm#,
#p^hɹp#, #flɹf#, #t^hɹm#, #swiɹt#, #zwɹf#, #zɹks#,
#fluɹf#,
#mɹo^w#, #swo^wv#, #wo^wtɹd#,
#bleɹf#,
#bɹaɹs#, #t^hwaɹs#,
#swaɹf#, #skamp#** (27)

First Syllable Whole Syllable Stressed (all entries are word initial):

**#wu^w(4), #wɹ(3), #siɹ^l(2), #wa(2),
#vi, #t^hɹiɹt, #tɹiɹ, #stɹiɹ, #ɹi, #k^hɹiɹ,
#p^hu^w, #flu^w, #vu^w, #su^w, #lu^w, #gu^wp,
#ɹs, #t^hɹp, #swɹf, #spɹɹn, #klin, #k^hɹ, #wɹs,
#p^hɹɹɹ, #hɹ,
#feɹ, #dɹeɹ, #leɹ, #k^hleɹ,
#o^w,
#ɛ, #fe, #weɹ,
#fɹɹm, #lɹm, #gɹɹ,
#t^hɹ,
#mæ, #snæ, #sæɹs, #slæ, #læɹn, #læ, #k^hæ, #gæ,
#aɹ, #ta, #saɹ, #waɹ,
#az, #vaɹ, #laf, #la, #k^ha** (62)

First Syllable Whole Syllable Unstressed (all entries are word initial):

**#kə(4),
#t^hɹiɹ,
#blu^w,
#ɹm,**

#o, #p^hio^w, #ho^w,
 #ə, #blə, #lə, #k^hə, #hə,
 #mə,
 #fɛ, #hɛ,
 #fɔɹ,
 #maⁱ,
 #a, #ɹa, #jan, #kwa, #wa (25)

Second Syllable Whole Syllable Stressed:

diⁱ, niⁱs#,
 fu^wn#, lu^w,
 fɪ, dɪ,
 leⁱ,
 fo^w,
 t^hɛ, nɛ,
 vɔ, ɡɔ^wɹn#,
 bæ, mæ, fæ, zæn#,
 laⁱ,
 t^ha, t^hak, laɪt#, wa (21)

Second Syllable Whole Syllable Unstressed:

ziⁱ#(2), p^əɪ#(2), t^əŋ#(2),
 piⁱ#, viⁱ, vɹiⁱ#, tiⁱk#, tɹiⁱ#, tʃiⁱ#, riⁱ, θiⁱ#, ɹiⁱ, liⁱ#, wiⁱʃ#,
 tu^w#, lu^w#,
 ɪn#, miⁱt#, niŋ#, rɪk#, zɪ, ɹɪf#, lɪsp#, ɡɪf#,
 to^w#, tʃo#, ʒo,
 bə#, mə#, fəɪ#, vəŋz#, vəŋ, t^həŋ#, tə#, nə, rəɪ#, rəm, sə, səŋ#, zəŋ, ʒə, lə, kəŋ#, ɡə#,
 və, tə#, sə, ʃə#, wə,
 tɹæn#,
 a^w#, rəⁱ#, laⁱ#, ka#,
 maɹ#, fan#, fa#, daɹ#, nan#, zan#, ja#, kla, ha# (66)

Third Syllable Whole Syllable Stressed:

li#,
 u^w#,
 dis,
 ɛs# (4)

Third Syllable Whole Syllable Unstressed:

p^hɹiⁱɪ#(2),
 fiⁱɹ#, viⁱ, siⁱ#, ɹiⁱz#, ɹiⁱ, ɹiⁱ#,
 mu^wʃ#,
 fɪf#, stɪk#, ʃɪs#, ɹɪn#,
 leⁱ,
 nə#, rə, θə, ɹə#, wə#,
 sə#, ʃə#,
 lɔɹ#, lɔŋ#, wɔɹt#,
 faⁱ#, ɹaⁱt^h#,
 p^ha#, ha# (28)

Fourth Syllable Whole Syllable Stressed:

Fourth Syllable Whole Syllable Unstressed:

əs#(2),
 t^hju^w:d#,
 rɪŋ#,
 kə,
 maⁱ (6)

Fifth Syllable Whole Syllable Stressed:

Fifth Syllable Whole Syllable Unstressed:

niⁱ#,
ziŋ# (2)

Whole Syllable Total per Syllable

First Syllable Whole Syllable (all entries are word initial):

#wu^w(4), #kə(4), #wi(3), #wa(3)#siⁱ(2), #fɛ(2),
#vi, #t^hɪiⁱ, #t^hiⁱ, #tʃiⁱ, #ri, #stɪiⁱ, #ɪi, #k^hiⁱ,
#p^hu^w, #blu^w, #flu^w, #vu^w, #su^w, #lu^w, #gu^wp,
#ɪs, #ɪm, #t^hɪp, #swɪf, #spɪɪn, #kɪɪn, #k^hɪ, #wɪs,
#p^hɔɪ, #hu,
#feⁱ, #dʒeⁱ, #leⁱ, #k^hleⁱ,
#o^w, #o, #p^hɔ^w, #ho^w,
#ə, #blə, #lə, #k^hə, #hə,
#mə,
#ɛ, #wɛt, #hɛ,
#fɪɪm, #lɪm, #gɪɪ,
#fɔɪ, #t^hɔ,
#mæ, #snæ, #sæɪ, #slæ, #læn, #læ, #k^hæ, #gæ,
#aⁱ, #maⁱ, #ta, #saⁱ, #waⁱ,
#a, #az, #vaɪ, #ɪa, #laf, #la, #jan, #kwa, #k^ha (87)

Second Syllable Whole Syllable:

ziⁱl#(2), t^əŋ#(2),
piⁱ#, viⁱ, viiⁱ#, tiⁱk#, tiⁱ#, diⁱ, tʃiⁱ, niⁱs#, riⁱ, θiⁱ#, ɪiⁱ, liⁱ#, wiⁱf#,
tu^w#, fu^wn#, lu^w#,
ɪn#, miⁱt#, fi, di, niŋ#, riⁱk#, zi, ɪf#, lɪsp#, gɪf#,
leⁱ,
to^w#, tʃo#, ʃo^w, ʒo,
p^hɪ(2), bə#, mə#, f^əɪ, v^əŋz#, v^əŋ, t^həŋ#, tə#, nə, r^əɪ#, r^əm, sə, s^əŋ#, z^əŋ, ʒə, lə, k^əŋ#, gə#,
və, tə#, sə, ʃə#, wə,
t^hɛ, nɛ,
vɔ, ɡɔ^wɪn#,
bæ, mæ, fæ, tɹæn#, zæn#,
a^w#, raⁱ#, laⁱ#, laⁱ, ka#,
maɪ#, fan#, fa#, t^ha, t^hak, daɪ#, nan#, zan#, ja#, laɪt#, kla, wa, ha# (87)

Third Syllable Whole Syllable:

p^hɪiⁱl#(2),
fiⁱl#, viⁱ, siⁱl#, ɪiⁱz#, ɪiⁱ, ɪiⁱ#, li#,
u^w#, mu^wf#,
fiⁱf#, diⁱs, stɪk#, ʃɪs#, ɪɪn#,
leⁱ,
nə#, rə, θə, ɪə#, wə#,
sə#, ʃə#,
ɛs#,
lɔɪ#, lɔŋ#, wɔɪt#,
faⁱ#, ɪaⁱt^h#,
p^ha#, ha# (32)

Fourth Syllable Whole Syllable:

əs#(2),
t^hju^w:d#,
riŋ#,

kə,
ma^j (6)

Fifth Syllable Whole Syllable:

ni^j#,
ziŋ# (2)

Whole Syllable Stressed and Unstressed Total

Whole Syllable Stressed:

#wu^w(4), #wɪ(3), #si^j(2), #wa(2),
#vi, #tʰiɪ^t, di^j, #tʃi^j, ni^js#, #ri, #stɪi^j, #ɹi, li#, #kʰi^j,
u^w#, #pʰu^w, #flu^w, #vu^w, #su^w, ʃu^wn#, #lu^w, lu^w, #gu^wp,
#ɪs, fɪ, #tʰɪp, di, diɪs, #swɪf, #spɪɪn, #klin, #kʰɪ, #wɪs,
#pʰjuɪ, #hu,
#fe^j, #dʒe^j, #le^j, le^j, #kʰle^j,
#o^w, ʃo^w,
#ɛ, ɛs#, #fe, tʰɛ, nɛ, #wɛt,
#fɪɹɹm, #lɹm, #gɹɹɹ,
vɔ, #tʰɔ, ɡɔ^wɹn#,
bæ, mæ, #mæ, fæ, #snæ, #sæɪs, #slæ, zæn#, #læn, #læ, #kʰæ, #gæ,
#a^j, #ta, #sa^j, la^j, #wa^j,
#az, #vaɪ, tʰa, tʰak, #laf, #la, laɪt#, #kʰa, wa (87)

Whole Syllable Unstressed:

#kə(4), pʰɪɪ^j#, vi^j(2), zi^j#, ɹi^j(2), əs#(2), pʰɪ^j#, tʰɪ^j#, ha#(2),
pi^j#, fiɪɹ#, vɹiɹ#, ti^jk#, #tʰi^j, tɪi^j#, tʃi#, ni^j#, ri^j, ʊi^j#, si^j#, ɹiɹz#, ɹi^j#, li^j#, wiɹf#,
#blu^w, mu^wf#, tu^w#, tʰju^w:d#, lu^w#,
ɪn#, #ɪm, mɪt#, fiɹ#, nɪŋ#, ɹiŋ#, ɹik#, stɪk#, zi, ziŋ#, ʃɪs#, ɹɪf#, ɹɪn#, lɪsp#, ɡɪf#,
le^j,
#o, #pʰɹo^w, to^w#, tʃo#, ʒo, #ho^w,
#ə, bə#, #blə, mə#, fɪt#, vʰɹɹz#, vʰɹ, tʰɪŋ#, tə#, nə, nə#, ɹə, ɹɪt#, ɹɹm, ʊə, sə, sʰɹɹ#, zʰɹ, ʒə, ɹə#, lə, #lə, kʰɹɹ#, kə, #kʰɹɹ, ɡə#, wə#, #hə,
#mə, və, tə#, sə, sə#, ʃə#, jə#, wə,
#fe, #he,
#fɔɹ, lɔɹ#, lɔŋ#, wɔɹt#,
tɹæn#,
a^w#, #ma^j, ma^j, fa^j#, ɹa^j#, ɹa^jtʰ#, la^j#, ka#,
#a, pʰa#, maɹ#, fan#, fa#, daɹ#, nan#, zan#, #ɹa, ja#, #jan, kla, #kwa, #wa (127)

Whole Syllable Total (absolute)

Narrow:

#wu^w(4), #kə(4), #si^j(3), #wɪ(3), #wa(3), pʰɪɪ^j#, vi^j(2), zi^j#, ɹi^j(2), le^j(2), əs#(2), pʰɪ^j#, tʰɪ^j#, #fe(2), ha#(2),
pi^j#, #biɹf#, fiɹɹ#, #vi, vɹiɹ#, ti^jk#, #tʰi^j, #tʰiɪ^t, tɪi^j#, di^j, tʃi#, #tʃi^j, ni^j#, ni^js#, #ri, ri^j, ʊi^j#, #stɪi^j, #splɪi^t#, ɹiɹz#, ɹi^j#, #ɹi, #ɹiɹs#, li#, li^j#, #kʰi^j,
wiɹf#,
u^w#, #u^wm#, #pʰu^w, #blu^w, #buɹ#, mu^wf#, #flu^w, #fɹu^wf#, #flu^w#, #fɹu^wt#, #vu^w, tu^w#, tʰju^w:d#, #su^w, #sku^wf#, ʃu^wn#, lu^w#, #lu^w, lu^w,
#lu^wmf#, #gu^wp, #wu^wf#, #wʰu^wm#,
ɪn#, #ɪm, #ɪs, #pʰɪp#, mɪt#, #fiɹf#, fiɹ#, fɪ, #tʰɪp, #tʰɪm#, di, diɪs, nɪŋ#, ɹiŋ#, ɹik#, stɪk#, #swɪf, #spɪɹn, #swɪt#, #zwɪf#, #ziɹks#, zi, ziŋ#,
ʃɪs#, ɹɪf#, ɹɪn#, lɪsp#, #klin, #kʰɪ, ɡɪf#, #wɪs,
#pʰjuɪ, #fluɹ#, #hu,
#fe^j, #dʒe^j, #le^j, #kʰle^j,
#o, #o^w, #pʰɹo^w, #mɹo^w#, to^w#, tʃo#, #swo^wv#, ʃo^w, ʒo, #wo^wɹd#, #ho^w,
#ə, bə#, #blə, mə#, fɪt#, vʰɹɹz#, vʰɹ, tʰɪŋ#, tə#, nə, nə#, ɹə, ɹɪt#, ɹɹm, ʊə, sə, sʰɹɹ#, zʰɹ, ʒə, ɹə#, lə, #lə, kʰɹɹ#, kə, #kʰɹɹ, ɡə#, wə#, #hə,
#mə, və, tə#, sə, sə#, ʃə#, jə#, wə,
#ɛ, ɛs#, #bleɹf#, tʰɛ, nɛ, #wɛt, #he,
#fɪɹɹm, #lɹm, #gɹɹɹ,
#fɔɹ, vɔ, #tʰɔ, lɔɹ#, lɔŋ#, ɡɔ^wɹn#, wɔɹt#,
bæ, mæ, #mæ, fæ, tɹæn#, #snæ, #sæɪs, #slæ, zæn#, #læn, #læ, #kʰæ, #gæ,
a^w#, #a^j, #bɹa^js#, #ma^j, ma^j, fa^j#, #ta, #tʰwa^js#, ɹa^j#, #sa^j, ɹa^jtʰ#, la^j#, la^j, ka#, #wa^j,

#a, #az, p^ha#, maɪ#, fan#, fa#, #vaɪ, t^ha, t^hak, daɪ#, nan#, #swaf#, #skamp#, zan#, #ja, #laf, #la, laɪt#, ja#, #jan, kla, #k^ha, #kwa, wa (241)

Broad:
kə(5), ɹi(4), wu(4), wa(4), vi(3), si(3), lu(3), wɪ(3), le(3), pɹi(2), zi(2), li(2), o(2), əs(2), pʔ(2), nə(2), lə(2), sə(2), fɛ(2), mæ(2), a(2) ma(2), la(2), ha(2),

pi, biʃ, fɪ, vɹi, tik, ti, tɹiʔ, tɹi, di, tʃi, tʃi, ni, nis, ri, ri, ʔi, stɹi, split, ɹiz, ɹis, ki, wiʃ,
u#, um, pu, blu, buv, muʃ, flu, fɹuʃ, flu, fuʔ, vu, tu, tjud, su, skuf, fun, lumf, gup, wuf, wum,
ɪn, ɪm, ɪs, pɪp, mɪʔ, flɪʃ, fɪʃ, fɪ, tɪp, tɪm, dɪ, dɪs, nɪŋ, rɪŋ, rɪk, stɪk, swɪʃ, spɹɪn, swɪʔ, zwɪʃ, zɪks, zɪ, zɪŋ, ʃɪs, ɹɪʃ, ɹɪn, lɪsp, klɪn, kɪ, ɡɪʃ, wɪs,
pʃu, fluʃ, hu,
fe, dʒe, kle,
pɹo, mɹo, to, tʃo, swov, ʃo, zo, woʔd, ho,
ə, bə, blə, mə, fəʔ, v^əŋz, v^əŋ, t^əŋ, t^əŋ(2), tə, rə, rəʔ#, rəŋ, ʔə, sə, s^əŋ, z^əŋ, zə, ɹə, k^əŋ, kəʔ, gə, wə, hə,
mə, və, tə, ʃə, jə, wə,
ɛ, ɛs, blɛʃ, tɛ, nɛ, wɛʔ, hɛ,
fɹɹm, lɹm, ɡɹɹ,
fɹɹ, vɹ, tɹ, lɹɹ, lɹŋ, ɡɹɹn, wɹɹt,
bə, fə, tɹæn, snæ, sæs, slæ, zæn, læn, læ, kə, gə,
bɹas, fa, ta, twas, ra, sa, ɹat, ka, wa,
a, az, pa, maɪ, fan, fa, vaɪ, ta, tak, daɪ, nan, swaf, skamp, zan, ja, laf, la, laɪt, ja, jan, kla, ka, kwa (241)

241 total whole syllables

Supra-Segments: Whole Words

Whole Word Total per Word Length

Whole Monosyllables:

fyoul [f^hu^wʔ], boov [buʋ], froosh [fɹu^wʃ], swahsh [swaʃ], flihsh [fliʃ], woosh [wu^wʃ], zwihsh [zwiʃ], oom [u^wm], twyce [t^hwa^sɪs], tim [t^hɪm], flush [fluʃ], beesh [biʃ], floo [flu^w], spleel [spli^h], blesh [blɛʃ], pip [p^hɪp], loomf [lu^wmf], wowld [wo^wʔd], swill [swɪʔ], ziks [zɪks], bryce [bɹa^sɪs], reese [ɹi^sɪs], swove [swo^wv], mrow [mɹo^w], skahmp [skamp], skoof [sku^wf], whoom [w^hu^wm]

Whole Bisyllables:

KEEzee [k^hi^j·ziʃ], STREEzee [stɹi^j·ziʃ], LAYlye [le^j·laʃ], SYtun [sa^j·t^həŋ], TAHcho [ta·tʃo], WAHbuh [wa·bə], FRUHMpul [fɹɹm·pʔ], REEchee [ɹi·tʃi], KATik [k^hæ·rɪk], Evunz [ɛ·v^əŋz], POOteek [p^hu^w·ti^k], OHkuhn [o^w·k^əŋ], LAHFtoo [laf·tu^w], GRUHsuhp [ɡɹɹ·s^əŋ], WIHshur [wɪ·ʃə], KLAYzahn [k^hle^j·zan], FAYlee [fe^j·liʃ], PYURin [p^hɹɹ·ɪn], AYvree [a^j·vɹiʃ], WOOyah [wu^w·ja], WAHpee [wa·piʃ], SWIFTur [swɪʃ·tə], GAThee [gæ·ʔi], MARish [mæ·ɹɪʃ], LUMdahr [lɹm·daɹ], WIStran [wɪs·tɹæn], REEKah [ri·ka], GOOPTuhn [ɡu^w·p·təŋ], VOOhah [vu^w·ha], TREELful [t^hɹiʔ·fəʃ], WOOLoo [wu^w·lu^w], SOOWeesh [su^w·wiʃ], SEEmuh [si^j·mə], LANmahr [læn·maɹ], SASSmill [sæs·mɪʔ], AHZfah [az·fa], VEERYe [vi·raʃ], SEETuh [si^j·tə], FEHpul [fɛ·pʔ], KILLisp [k^hɪ·lɪsp], LOOtun [lu^w·təŋ], CHEEow [tʃi^j·a^w], WHYneeng [wa^j·nɪŋ], ISSfahn [ɪs·fan], FLOOgish [flu^w·ɡɪʃ], WOOdul [wu^w·rəʃ], VAHRguh [vaɹ·gə], WELtoe [wɛʔ·to^w], WInahn [wɪ·nan], SPRINTree [spɹɪn·tɹiʃ],

forGORN [fɹɹ·'ɡɹɹn], wahSHOON [wa·'ʃu^wn], huhZAN [hə·'zæn], fehNEESE [fɛ·'ni^sɪs], hoeLAHLT [ho^w·'laɪt]

Whole Trisyllables:

TORreelore [t^hɹɹ·ɹi^j·lɹɹ], SNAvuhrpaw [snæ·və·p^ha], SLAZihfy [slæ·zɪ·faʃ], LAWureez [læ·wə·ɹi^jz], JAYdumpree [dʒe^j·rəŋ·p^hɹiʃ], LAHZuhnfeer [la·z^əŋ·fiʃ], KLINSurrite [klɪn·sə·ɹaʔt], WOOzhuhree [wu^w·zə·ɹiʃ], WIHnuhlong [wɪ·nə·lɹŋ], KAHluhpree [k^ha·lə·p^hɹiʃ], HUDeewort [hɹ·ri^j·wɹɹt],

kuhIDIHfish [k^hə·'dɪ·fɪʃ], yahnBEARin [jan·'bə·ɹɪn], kuhMAstik [kə·'mæ·stɪk], kuhNESSur [kə·'nɛ·sə], ahWAHha [a·'wa·ha], kuhLOOuh [kə·'lu^w·wə], teeTAIRuh [t^hi^j·'t^hɛ·ɹə], murDEEenuh [mə·'di^j·nə], kuhTAHmoosh [kə·'t^ha·mu^wʃ], kwahLAYshis [kwa·'le^j·ʃɪs], uhLYEYur [ə·'la^j·jə], bluhTAHKsee [blə·'t^hak·siʃ],

ozhoLEE [o·zo·'li], blooveeYES [blu^w·vi^j·'ɛs], myklahOO [ma^j·kla·'u^w]

Whole Tetrasyllables:

TIPsuhlayteeng [tʰɪp · sə · leʲ · rɪŋ],

proFIHthitooode [pʰɔʷ · fɪ · ʊə · tʰjuʷ : d], rahSHOWveeus [ɹa · ʰɔʷ · viʲ · əs], luhVOreeus [lə · vɔ · ɹiʲ · əs]

Whole Pentasyllables:

imFATuhmyzeeng [ɪm · ʰæ · rə · maʲ · zɪŋ],

hevuhnDISkuhnee [hɛ · vʷŋ · ʰdis · kə · niʲ]

	Syllable Receiving Stress					
	None	First	Second	Third	Fourth	Fifth
Word Length Total						
Monosyllabic: 27						
Bisyllabic: 55	0	50	5			
Trisyllabic: 26	0	11	12	3		
Tetrasyllabic: 4	0	1	3	0	0	
Pentasyllabic: 2	0	0	1	1	0	0
Total: 114	0	62	21	4	0	0

Question ID: V. the feeling experienced by a death-row inmate after being pardoned or exonerated

Segments

Segment Total for Stressed and Unstressed Syllables and Monosyllables according to Syllable Configuration

Monosyllable Onset: **#w(5), #f(2), ʃ(2), #g(2), #b, #t^h, #dʒ, #z, #f, #j, #h** (18)Monosyllable Nucleus: **i^j(3), ʌ(3), ɪ(2), u, u^w, ɪ^j, ʊ, ə, ɛ^j, a^w, a, a:** (17)Monosyllable Coda: **m#(3), t#(3), f#(2), s#(2), ʔ(2), t#(2), h#(2), p, b, m, f, tʃ, z#, f#, ʃ, k** (25)First Syllable Segment Stressed Onset: **ʃ(7), l(6), #g(6), #w(4), #p^h(3), p(3), #b(3), #m(3), #f(3), #t^h(3), #s(3), #j(3), #k^h(3), #v(2), #d(2), #n(2), #z(2), #ʃ(2), #l(2), #h(2), m, #θ, #f, w** (68)First Syllable Segment Stressed Nucleus: **ɪ(14), æ(11), a(10), #a(7), i^j(6), a^w(3), ɛ(2), #æ(2), u^w, e^j, o^w, #ə, #ɛ, ʌ, #a^j, a^j** (63)First Syllable Segment Stressed Coda: **n(8), ʔ(4), k(4) m(2), s(2), ʃ(2), f, d^ɹ, ʃ** (25)First Syllable Segment Unstressed Onset: **#f(3), #k(3), #p^h(2), #d(2), #dʒ(2), #ʃ(2), l(2), #p, #m, #v, #t, #r, #s, #z, ʃ, #k^h, #w** (26)First Syllable Segment Unstressed Nucleus: **ə(6), æ(5), ɪ(3), #ɛ(3), i^j(2), ə(2), #a(2), #i^j, u^w, #u^w, #ɪ, e, #ə, ɛ, ʊ, #æ, #a^j, a** (34)First Syllable Segment Unstressed Coda: **k(4), m(2), s(2), n, ʃ, t, g** (12)Second Syllable Segment Stressed Onset: **s(6), t(4), l(4), b(3), n(3), p^h(2), z(2), ʃ(2), j(2), k^h(2), g(2), p, f, v, t^h, d, h** (38)Second Syllable Segment Stressed Nucleus: **æ(8), ɛ(5), u^w(3), ɪ(3), ʊ(2), i^j, i, u^w#, ʊ, o^w, ʌ, a:^h** (28)Second Syllable Segment Stressed Coda: **n#(2), n(2), ʃ(2), ʔ(2), t#(2), m, t#, t^h#, s#, z, k#, k, ɲ** (18)Second Syllable Segment Unstressed Onset: **s(13), f(7), t(7), l(7), b(6), n(5), ʃ(5), w(4) m(3), d(3), k(3), g(3), p(2), r(2), z(2), dʒ, θ, ð, ʃ, j** (77)Second Syllable Segment Unstressed Nucleus: **ə(13), ɪ(9), i^j#(7), ə(7), əɲ#(5), a(5), əɲ(4), əʔ(3), ɛ(3), i^j(2), o^w#(2), a#(2), i#, u^w, o^w, əʔ#, əɲ#, ə#, a^j#** (69)Second Syllable Segment Unstressed Coda: **d#(5), s#(4), n#(3), t#(2), n(2), ʃ#(2), p, f#, ʃ, g#** (22)Third Syllable Segment Stressed Onset: **f(2), n, ʃ, l, k^h, w** (7)Third Syllable Segment Stressed Nucleus: **i^j(2), u^w, ʊ, e^j, a** (6)Third Syllable Segment Stressed Coda: **ʃ, t#** (2)Third Syllable Segment Unstressed Onset: **t(8), ʃ(6), m(4), s(4), n(3), g(3), b(2), ʃ(2), p, f, d, tʃ, dʒ, θ, l, j, w** (41)Third Syllable Segment Unstressed Nucleus: **ɪ(8), ə(5), əɲ#(4), i^j(2), e^j#(2), əʔ#(2), i^j#, u^w, u^w#, o^w#, əɲ, ə#, ə#, ə#, ɛ, ʊ, ɔ^j, æ#, a, a^j, a^w#, a, a#** (40)Third Syllable Segment Unstressed Coda: **s#(4), t#(3), k#(2), d#, d^h#, n#, n, z#, ʃ, t#, k, k^h#** (18)Fourth Syllable Segment Stressed Onset: **n, l** (2)Fourth Syllable Segment Stressed Nucleus: **e^j(2)** (2)

Fourth Syllable Segment Stressed Coda:

Fourth Syllable Segment Unstressed Onset: **m(2), ʃ(2), ʃ(2), t, l, g** (9)Fourth Syllable Segment Unstressed Nucleus: **ə(3), a^j(2), i^j#, ɪ, ə#, əɲ#, a#** (10)Fourth Syllable Segment Unstressed Coda: **s#(3), t#(2), n#, n** (7)

Fifth Syllable Segment Stressed Onset:

Fifth Syllable Segment Stressed Nucleus:

Fifth Syllable Segment Stressed Coda:

Fifth Syllable Segment Unstressed Onset: **ʃ(2)** (2)Fifth Syllable Segment Unstressed Nucleus: **əɲ#(2)** (2)

Fifth Syllable Segment Unstressed Coda:

Segment Total for Stressed and Unstressed Onsets and Codas

Stressed Onset: **l(12), ʃ(10), #g(6), s(6), n(5), p(4), t(4), #w(4), #p^h(3), b(3), #b(3), #m(3), #f(3), f(3), #t^h(3), #s(3), #j(3), #k^h(3), k^h(3), p^h(2), #v(2), #d(2), #n(2), #z(2), z(2), #ʃ(2), #l(2), j(2), g(2), w(2), #h(2), m, v, d, #θ, #f, h** (114)Stressed Coda: **n(10), ʔ(6), k(5), ʃ(4), m(3), t#(3), n#(2), s(2), ʃ(2), f, t#, t^h#, d^ɹ, s#, z, k#, ɲ** (45)

Unstressed Onset: **s(17), t(16), ʃ(14), l(11), m(9), b(8), f(8), n(8), ʃ(7), g(7), w(5) d(4), p(3), #f(3), #k(3), k(3), #p^h(2), #d(2), #dʒ(2), dʒ(2), r(2), θ(2), z(2), #ʃ(2), j(2), #p, #m, #v, #t, tʃ, #r, ð, #s, #z, #k^h, #w** (155)

Unstressed Coda: **#s(11), #t(7), #d(6), #n(5), #k(5), #n(3), #m(2), #n(2), #s(2), #ʃ(2), ʃ(2), #k(2), p, f, d^h, z, ʃ, t, tʃ, k^h, g, g#** (59)

Segment Total for Onsets and Codas

Onset: **ʃ(26), s(23), l(23), t(20), n(13), b(11), f(11), m(10), #w(10), g(9), #f(8), #g(8), p(7), ʃ(7), w(7), #p^h(5), d(5), #b(4), #m(4), #t^h(4), #d(4), #s(4), #z(4), z(4), #ʃ(4), #j(4), j(4), #k^h(4), #v(3), #dʒ(3), #k(3), k(3), k^h(3), #h(3), p^h(2), dʒ(2), #n(2), r(2), θ(2), #ʃ(2), #l(2), #p, v, #t, tʃ, #r, #θ, ð, h** (287)

Coda: **#s(14), #n(12), #t(11), #k(11), t(9), #n(7), #m(6), #d(6), t(6), ʃ(5), ʃ(5), s(4), #m(3), #f(3), #n(3), #ʃ(3), #k(3), p(2), f(2), z(2), h(2) b, t^h, d^h, d^h, tʃ, z, k^h, g, g#, ɳ** (129)

Segment Total for Stressed and Unstressed Syllables and Monosyllables

Monosyllable Segment: **#w(5), #m(3), #t(3), ʃ(3), #f(2), #f(2), #s(2), t(2), #t(2), #g(2), h(2), p, b, #b, m, f, #t^h, tʃ, #dʒ, #z, z#, ʃ#, #ʃ, #j, k, #h** (43)

i^j(3), ʌ(3), ɪ(2), u, u^w, i^j, ʊ, e, ε^j, a^w, a, a: (17)

First Syllable Segment Stressed: **ʃ(9), n(8), l(6), #g(6), t(4), k(4), #w(4), #p^h(3), p(3), #b(3), #m(3), m(3), #f(3), #t^h(3), #s(3), #j(3), #k^h(3), #v(2), #d(2), #n(2), s(2), #z(2), #ʃ(2), #l(2), #h(2), f, d^h, #θ, #ʃ, ʃ, w** (93)

ɪ(14), æ(11), a(10), #a(7), i^j(6), a^w(3), ε(2), #æ(2), u^w, e^j, o^w, #æ, #ε, ʌ, #a^j, a^j 9 (63)

First Syllable Segment Unstressed: **k(4), #f(3), #k(3), #p^h(2), m(2), #d(2), #dʒ(2), s(2), #ʃ(2), ʃ(2), l(2), #p, #m, #v, #t, n, #r, #s, #z, t, #k^h, g, #w** (38)

ə(6), æ(5), ɪ(3), #ε(3), i^j(2), ʌ(2), #a(2), #i^j, u^w, #u^w, #ɪ, e, #ə, ε, ɔ, #æ, #a^j, a (34)

Second Syllable Segment Stressed: **s(6), n(5), t(4), l(4), b(3), z(3), p^h(2), #n(2), ʃ(2), ʃ(2), t(2), t(2), j(2), k^h(2), g(2), p, m, f, v, t^h, t^h, t^h, d, s#, k#, k, ɳ, h** (56)

æ(8), ε(5), u^w(3), ɪ(3), ɔ(2), i^j, i, u^w, ʊ, o^w, ʌ, a:^h (28)

Second Syllable Segment Unstressed: **s(13), f(7), t(7), n(7), l(7), b(6), ʃ(6), #d(5), ə(5), ə(4), s(4), w(4), p(3), m(3), d(3), #n(3), ʃ(3), k(3), g(3), #t(2), r(2), z(2), #ʃ(2), ə(2), f#, dʒ, θ, ð, ʃ, tʃ, j, g#** (113)

ə(13), ɪ(9), i^j(7), ʌ(7), a(5), ε(3), i^j(2), o^w(2), a(2), i#, u^w, o^w, ə#, a^j (55)

Third Syllable Segment Stressed: **f(2), n, ʃ, ʃ, l, t#, k^h, w** (9)

i^j(2), u^w, ʊ, e^j, a (6)

Third Syllable Segment Unstressed: **t(8), ʃ(6), m(4), n(4), ə(4), s(4), s(4), #t(3), ʃ(3), g(3), b(2), ʃ(2), k(2), p, f, d#, d^h, d, tʃ, dʒ, n#, ə, θ, z#, l, t#, j, k, k^h, w** (66)

ɪ(8), ə(5), i^j(2), e^j(2), i^j, u^w, u^w, o^w, ə#, ə, ə#, ε, ɔ, ɔ^j, æ#, a, a^j, a^w, a, a# (33)

Fourth Syllable Segment Stressed: **n, l** (2)

e^j(2) (2)

Fourth Syllable Segment Unstressed: **#s(3), #m(2), #t(2), ʃ(2), ʃ(2), t, n#, n, l, g** (16)

ə(3), a^j(2), i^j, ɪ, ə#, ə(2), a# (10)

Fifth Syllable Segment Stressed:

Fifth Syllable Segment Unstressed: **ə(2), ʃ(2)** (4)

Segment Total by Syllable

First Syllable Segment: **ɹ(11), n(9), l(8), k(8), #f(6), #g(6), #p^h(5), m(5), t(5), #w(5), #m(4), #d(4), #s(4), s(4), #ɹ(4), #k^h(4), p(3), #b(3), #v(3), #t^h(3), #z(3), #j(3), #k(3), #ɔ̃(2), #n(2), #l(2), #h(2), #p, f, #t, d^ː, #r, #θ, #f, j, g, w** (131)

ɹ(17), æ(16), a(11), #a(9), i^j(8), ə(6), #ε(4), ε(3), #æ(3), a^w(3), u^w(2), ʌ(2), #a^j(2), #i^j, #u^w, #ɪ, e^j, e, o^w, #ə, #ə, ʌ, ɔ, a^j (97)

Second Syllable Segment: **s(19), n(12), t(11), l(11), b(9), f(8), ɹ(8), d[#](5), n[#](5), ʔ[#](5), s[#](5), z(5), g(5), p(4), m(4), d(4), ʔ[#](4), k(4), w(4), t[#](3), f(3), ʔ^ː(3), j(3), p^h(2), r(2), f[#](2), t(2), t[#](2), k^h(2), ʔ[#]m[#], f[#], v, t^h, t^ː[#], ɔ̃, θ, ð, ʔ[#], k[#], g[#], ɲ, h** (169)

ə(13), ɹ(12), ε(8), æ(8), i^j[#](7), ʌ(7), a(5), u^w(4), i^j(3), o^w[#](2), o^w(2), ɔ(2), a[#](2), i[#], i, u^w[#], ʊ, ə[#], ʌ, a^j[#], a^ː^h (83)

Third syllable Segment: **t(8), ɹ(7), n(5), m(4), ʔ[#]m[#](4), s(4), s[#](4), f(4), f(3), t[#](3), g(3), b(2), l(2), ʔ^ː[#](2), k[#](2), w(2), p, d[#], d^ː[#], d, t^j, ɔ̃, n[#], ʔ[#], θ, z[#], t[#], t[#], j, k, k^ː[#], k^h** (75)

ɹ(8), ə(5), i^j(4), u^w(2), e^j[#](2), a(2), i^j[#], u^w[#], ʊ, e^j, o^w[#], ə[#], ʌ, ə[#], ε, ɔ, ɔ^j, æ[#], a, a^j, a^w[#], a[#] (39)

Fourth Syllable Segment: **s[#](3), m(2), t[#](2), n(2), f(2), ɹ(2), l(2), t, n[#], ʔ[#]m[#], g** (19)

ə(3), e^j(2), a^j(2), i^j[#], ɪ, ə[#], a[#] (11)

Fifth Syllable Segment: **ʔ[#]m[#](2), f(2)** (4)

Segment Stressed and Unstressed Total

Stressed Segment: n(15), ɹ(12), l(12), s(8), t(6), #g(6), k(5), p(4), m(4), f(4), t(4), f(4), #w(4), #p^h(3), b(3), #b(3), #m(3), #f(3), #t^h(3), #s(3), z(3), #j(3), #k^h(3), k^h(3), p^h(2), #v(2), #d(2), #n(2), n[#](2), #z(2), #ɹ(2), #l(2), j(2), g(2), w(2), #h(2), v, t^h, t[#], t^ː[#], d, d^ː, #θ, s[#], #f, t[#], k[#], ɲ, h (158)

æ(19), ɹ(17), a(11), i^j(9), ε(7), #a(7), u^w(5), e^j(4), a^w(3), ʊ(2), o^w(2), ʌ(2), ɔ(2), #æ(2), i, u^w[#], #ə, #ε, #a^j, a^j, a^ː^h (99)

Unstressed Segment: s(19), t(16), ɹ(16), n(13), ʔ[#]m[#](12), m(11), s[#](11), l(11), b(8), f(8), f(8), k(8), g(8), t[#](7), d[#](6), n[#](5), ʔ[#]m[#], w(5), p(4), d(4), #f(3), ʔ^ː(3), ʔ^ː[#](3), #k(3), #p^h(2), #d(2), ɔ̃(2), #ɔ̃(2), r(2), θ(2), z(2), f[#](2), #ɹ(2), j(2), k[#](2), #p, #m, ʔ[#]m[#], f[#], #v, #t, d^ː[#], t^j, #r, ð, #s, #z, z[#], t[#], t, #k^h, k^ː[#], g[#], #w (238)

ə(27), ɹ(21), ʌ(10), i^j[#](9), a(7), i^j(6), ε(5), æ(5), a[#](4), u^w(3), o^w[#](3), #ε(3), a^j(3), e^j[#](2), ʌ[#](2), ɔ(2), #a(2), i[#], #i^j, #u^w, u^w[#], #ɪ, e, o^w, ə[#], #ə, ə[#], ɔ^j, #æ, æ[#], a, a^j[#], #a^j, a^w[#] (130)

Segment Total (absolute)

Narrow: ɹ(31), n(28), s(27), l(23), t(20), m(16), s[#](14), k(14), f(13), b(12), f(12), t[#](11), ʔ[#]m[#](12), g(10), #w(10), p(9), t(9), #f(8), #g(8), n[#](7), w(7), d[#](6), #p^h(5), d(5), ʔ[#]m[#](5), z(5), #b(4), #m(4), #t^h(4), #d(4), #s(4), #z(4), #ɹ(4), t[#](4), j(4), #j(4), #k^h(4), m[#](3), f[#](3), #v(3), #ɔ̃(3), f[#](3), ʔ^ː(3), ʔ^ː[#](3), k^h(3), #k(3), k[#](3), #h(3), p^h(2), t^j(2), ɔ̃(2), #n(2), r(2), θ(2), z[#](2), #f(2), #l(2), h[#](2), #p, ʔ[#]m[#], v, #t, t[#], t^h, d^ː[#], d^ː, #r, #θ, ð, k^ː[#], g[#], ɲ, h (439)

ɹ(40), ə(27), æ(24), a(19), i^j(18), ε(12), ʌ(10), i^j[#](9), u^w(9), #a(9), ʌ(5), e^j(4), #ε(4), ɔ(4), a^w(4), a^j(4), a[#](4), ʊ(3), o^w[#](3), o^w(3), #æ(3), u^w[#](2), e^j[#](2), ə[#](2), ʌ[#](2), #a^j(2), i[#], i, #i^j, #u^w, u, ɪ^j, #ɪ, e, ə, , #ə, #ə, ε^j, ɔ^j, æ[#], a, a^j[#], a^w[#], a^ː, a^ː^h (246)

Broad: n(54), s(45), t(38), ɹ(35), k(28), l(25), m(24), f(24), t(19), g(19), p(17), d(17), f(17), w(17), b(16), z(11), j(8), h(6), ɔ̃(5), v(4), θ(3), t^j(2), r(2), r, ð, ɲ (439)

ɹ(42), a(34), i(30), ə(30), æ(28), ε(17), u(13), ʌ(13), a(13), e(7), o(6), ʌ(5), ɔ(5), ʊ(3), ə (246)

685 total segments

Supra-Segments: Consonant Clusters

Consonant Cluster Total for Stressed and Unstressed Syllables and Monosyllables according to Syllable Configuration

Monosyllable Consonant Cluster Onset (all entries are word initial): **#gɹ(3)** (3)

Monosyllable Consonant Cluster Coda (all entries are word final): **pt[#], bz[#], mf[#], fs[#], t^jt[#], ɹf[#], t[#], t^m[#], ks[#]** (9)

First Syllable Consonant Cluster Stressed Onset (all entries are word initial): #gɹ(2), #bw, #bl, #ml, #fɹ, #fl, #vl, #tʰɹ, #spl, #sp, #fm, #kʰɹ (13)

First Syllable Consonant Cluster Stressed Coda:

First Syllable Consonant Cluster Unstressed Onset (all entries are word initial): #pɹ, #fɹ, #fl, #vl (4)

First Syllable Consonant Cluster Unstressed Coda: ks (1)

Second Syllable Consonant Cluster Stressed Onset: st(2), pʰl, fl, sn, sp, stɹ, gɹ, kʰj (9)

Second Syllable Consonant Cluster Stressed Coda: ft# (1)

Second Syllable Consonant Cluster Unstressed Onset: **st(2)**, bɹ, fl, ʊɹ, sn, kɹ (7)

Second Syllable Consonant Cluster Unstressed Coda: nt#, ɳd#, ɭd# (3)

Third Syllable Consonant Cluster Stressed Onset: fl, kʰɹ (2)

Third Syllable Consonant Cluster Stressed Coda:

Third Syllable Consonant Cluster Unstressed Onset: **st(3)**, gw (4)

Third Syllable Consonant Cluster Unstressed Coda: ɳt#, ft#, ks# (3)

Fourth Syllable Consonant Cluster Stressed Onset:

Fourth Syllable Consonant Cluster Stressed Coda:

Fourth Syllable Consonant Cluster Unstressed Onset:

Fourth Syllable Consonant Cluster Unstressed Coda: nt# (1)

Fifth Syllable Consonant Cluster Stressed Onset:

Fifth Syllable Consonant Cluster Stressed Coda:

Fifth Syllable Consonant Cluster Unstressed Onset:

Fifth Syllable Consonant Cluster Unstressed Coda:

Consonant Cluster Total for Stressed and Unstressed Onsets and Codas

Stressed Onset: fl(2), st(2), #gɹ(2), pʰl, #bw, #bl, #ml, #fɹ, #fl, #vl, #tʰɹ, #spl, stɹ, #sp, sp, sn, #fm, #kʰɹ, kʰɹ, kʰj, gɹ (24)

Stressed Coda: ft# (1)

Unstressed Onset: **st(5)**, #pɹ, bɹ, #fɹ, #fl, fl, #vl, ʊɹ, sn, kɹ, gw (15)

Unstressed Coda: **nt#(3)**, ɳd#, ft#, ɭd#, ks, ks# (8)

Consonant Cluster Total for Onsets and Codas

Onset: **st(7), #gɹ(5), fl(3), #fɹ(2), #fl(2), #vl(2), sn(2)**, pʰl, #pɹ, bɹ, #bw, #bl, #ml, #tʰɹ, ʊɹ, #spl, stɹ, #sp, sp, #fm, #kʰɹ, kʰɹ, kɹ, kʰj, gɹ, gw (42)

Coda: **nt#(3), ft#(2), ks#(2)**, pt#, bz#, mf#, fs#, ɧft#, ɳd#, ɹf#, ɭt#, ɭm#, ɭd#, ks (18)

Consonant Cluster Total for Stressed and Unstressed Syllables and Monosyllables

Monosyllable Consonant Cluster: **#gɹ(3)**, pt#, bz#, mf#, fs#, ɧft#, ɹf#, ɭt#, ɭm#, ks# (12)

First Syllable Consonant Cluster Stressed: #gɹ(2), #bw, #bl, #ml, #fɹ, #fl, #vl, #tʰɹ, #spl, #sp, #fm, #kʰɹ (13)

First Syllable Consonant Cluster Unstressed: #pɹ, #fɹ, #fl, #vl, ks (5)

Second Syllable Consonant Cluster Stressed: st(2), pʰl, fl, sn, sp, stɹ, ft#, gɹ, kʰj (10)

Second Syllable Consonant Cluster Unstressed: **st(2)**, bɹ, fl, ɳt#, nd#, ʊɹ, sn, ɭd#, kɹ (10)

Third Syllable Consonant Cluster Stressed: fl, kʰɹ (2)

Third Syllable Consonant Cluster Unstressed: **st(3)**, ɳt#, ft#, ks#, gw (7)

Fourth Syllable Consonant Cluster Stressed:

Fourth Syllable Consonant Cluster Unstressed: nt# (1)

Fifth Syllable Consonant Cluster Stressed:

Fifth Syllable Consonant Cluster Unstressed:

Consonant Cluster Total per Syllable

First Syllable Consonant Cluster: **#fɹ(2), #fl(2), #vl(2), #gɹ(2), #pɹ, #bw, #bl, #ml, #tʰɹ, #spl, #sp, #fm, #kʰɹ, ks** (18)

Second Syllable Consonant Cluster: **fl(2), st(2), sn(2), st(2), pʰl, bɹ, ntʰ, ndʰ, θɹ, sp, stɹ, ftʰ, tɔʰ, kɹ, kʰj, gɹ** (20)

Third Syllable Consonant Cluster: **st(3), fl, ntʰ, ftʰ, ksʰ, kʰɹ, gw** (9)

Fourth Syllable Consonant Cluster: **ntʰ** (1)

Fifth Syllable Consonant Cluster:

Consonant Cluster Stressed and Unstressed Total

Consonant Cluster Stressed: fl(2), st(2), #gɹ(2), pʰl, #bw, #bl, #ml, #fɹ, #fl, #vl, #tʰɹ, #spl, #sp, sn, sp, stɹ, ftʰ, #fm, #kʰɹ, kʰj, gɹ (25)

Consonant Cluster Unstressed: st(5), ntʰ(2), #pɹ, bɹ, #fɹ, #fl, fl, #vl, ntʰ, ndʰ, θɹ, sn, ftʰ, tɔʰ, ks, ksʰ, kɹ, gw (23)

Consonant Cluster Total (absolute)

Narrow: **st(7), #gɹ(5), fl(3), #fɹ(2), #fl(2), #vl(2), ntʰ(2), sn(2), ftʰ(2), ksʰ(2), pʰl, #pɹ, ptʰ, #bw, #bl, bɹ, bzʰ, mfʰ, #ml, fsʰ, #tʰɹ, tʃtʰ, ntʰ, ndʰ, θɹ, #spl, #sp, sp, stɹ, #fm, ɹfʰ, tʰ, tɔʰ, #kʰɹ, kʰɹ, kʰj, ks, kɹ, gw, gɹ** (60)

Broad: **st(7), gɹ(6), fl(5), nt(3), ks(3), kɹ(3), fɹ(2), vl(2), sp(2), sn(2), ft(2), pl, pɹ, pt, bw, bl, bɹ, bz, mf, ml, fs, tɹ, tʃt, nd, θɹ, spl, stɹ, fm, ɹf, tɔ, tɔʰ, tɔʰ, kj, gw** (60)

60 total consonant clusters

Supra-Segments: Whole Syllables

Whole Syllable Total for Stressed and Unstressed Syllables and Monosyllables

Monosyllable Whole Syllable:

#jiʰfsʰ, #wiʰmʰ, #wiʰtʰ,
#tʰuʰtʰ, #humʰ,
#fɹtʰmʰ, #dʒɹʰbzʰ, #gɹɹʰfʰ,
#wuʰfʰ,
#fɛmfʰ,
#gɹɛʰtʰ,
#bʌksʰ, #fʌptʰ, #wʌhʰ,
#zaʰtʃtʰ,
#wa:hʰ, #haɹʰfʰ (17)

First Syllable Whole Syllable Stressed (all entries are word initial):

#a(3), #dɪn(2), #æ(2), #aʰ(2),
#pʰɹɹʰdʰ, #miʰ, #tʰɹɹʰ, #ɹɹʰ, #jiʰtʰ, #kʰɹɹʰ,
#wuʰ,
#bwɹɹn, #mɹ, #fɹɹɹm, #splɹn, #ɹɹ, #lɹ, #lɹm, #jɹ, #kʰɹɹɹs, #gɹɹɹk, #gɹɹ,
#bleʰ,
#noʰ,
#æ,
#ɛk, #ve, #gɹɹɹk,
#flʌ,
#flæ, #vlæʰs, #tʰɹɹɹn, #tʰæ, #θæɹɹ, #spæɹn, #sæ, #zæ, #fmæʰk, #kʰæ, #gæ,
#aʰ, #mlaʰ, #zaʰ, #jaʰ, #waʰ,
#aʰf, #pʰaɹ, #pʰa, #baʰtʰ, #na, #gɹa, #ga, #waf, #wan, #haɹ, #ha (61)

First Syllable Whole Syllable Unstressed (all entries are word initial):

#ɹɹɹʰ(2), #ɛk(2),
#iʰ,
#uʰm, #tuʰ,
#ɹɹ, #pɹɹ, #fɹ, #dɹs, #wɹ,
#re,

#ə, #pə, #fɪə, #dʒə, #zə, #kʰə, #kə,
 #pʰə, #sə,
 #eks, #dek,
 #kɔ,
 #æ, #pʰæn, #mæ, #flæ, #dʒæm, #kæ,
 #aʲ,
 #aʲ, #a, #aɪ, #vɪa (36)

Second Syllable Whole Syllable Stressed:

viʲn, li,
 buʷ#, suʷn#, zuʷs#, kʰjuʷn#,
 pʰɪ, tɪn, stɪŋ,
 spuʲ,
 stuoʷk#,
 flɛf, nɛʰ#, jɛtʰ#, ɟɛ, zɛʰ#,
 hʌʲ,
 stɔ, ɟɔ,
 pʰlæz, bæ, tʰæm, dæ, næft#, snæ, læ,
 bək, kʰa:ʰ# (28)

Second Syllable Whole Syllable Unstressed:

liʲ#(2), də(2), nə(2), sʰŋ#(2), fə(2),
 biʲ#, miʲ, fiʲ#, fliʲ#, ni#, stiʲ#, liʲ, kɪʲ#,
 wuʷf#,
 biʲ#, bɪ, mɪnt#, fɪs#, sɪn#, stɪg#, lɪn#, kɪs#, wind#,
 ʈɔʷ#, ɟoʷ, woʷ#,
 pə, pʰə, bəʲ, mə#, fəŋ#, tʰəʲ#, dʰəŋ#, dʒə, ʈʰəŋd#, sʰəʲd#, sʰəŋ#, sʰə, sə, stə, zʰəŋ#, zə, ʃəs#, ɹəʲ#, lə, kʰəŋ, ɟəŋ,
 bæ, tæ, rə, rəʲd#, sə, wəʲ#,
 bɹɛt#, nɛs#, snɛdʰ#,
 taʲ#,
 fa, tam#, sa, ɹap, laf#, ja#, ga# (69)

Third Syllable Whole Syllable Stressed:

fiʲ#, kʰɪʲ,
 fluʷ,
 wuʲf#,
 eʲ,
 na (6)

Third Syllable Whole Syllable Unstressed:

miʲ, ɹiʲ#, ɹiʲz#,
 tʃuʷ, ɟuʷ#,
 mɪnt#, tɪ, nɪk#, stɪd#, ʃɪs#, ɹɪk#, lɪʰ#, ɟwɪft#,
 eʲ#, jeʲ#,
 doʷ#,
 əs#, pə, bəʲ#, məŋ#, tʰəŋt#, tʰəŋ#, dʒəŋ#, nə#, ʈə, stəkʰ#, ʃəŋ#, ɹə, ʈəʲ#,
 mə, fəʲ#,
 ɹɛks#,
 bɔʲs#, tɔ,
 ɹæ#,
 staʲn#, sa#, ɟaʷ#,
 ta#, nadʰ# (40)

Fourth Syllable Whole Syllable Stressed:

neʲ, leʲ (2)

Fourth Syllable Whole Syllable Unstressed:

ɹiʲ#,
 mɪnt#,

ə#, ʃəs#, ʃən#, ʌs#, ɡəs#,
maɪn#, laɪt#,
ta# (10)

Fifth Syllable Whole Syllable Stressed:

Fifth Syllable Whole Syllable Unstressed:

ʃən#(2) (2)

Whole Syllable Total per Syllable

First Syllable Whole Syllable (all entries are word initial):

#ɪɪ(3), #ɛk(3), #æ(3), #a(3), #aɪ(3), #dɪn(2), #flæ(2), #aɪ(2),
#ɪ, #pʰɪdʹ, #miɪ, #tʰɪ, #jiɪ, #kʰɪ,
#uʷm, #tuʷ, #wuʷ,
#ɪɡ, #pɪɪ, #bwin, #mi, #fi, #fɪm, #dis, #splɪn, #ɪɪ, #li, #lim, #ji, #kʰɪs, #ɡɪk, #ɡɪ, #wi,
#bleɪ, #re,
#noʷ,
#ə, #pə, #fɪə, #dʒə, #zə, #kʰə, #kə,
#ə, #pʰə, #sə,
#ɛks, #vɛ, #dɛk, #ɡɪɛk,
#flʌ,
#kɔ,
#pʰæn, #mæ, #vlæs, #tʰɪæn, #tʰæ, #dʒæm, #θæn, #spæn, #sæ, #zæ, #fɪmæk, #kʰæ, #kæ, #ɡæ,
#mlaʷ, #zaɪ, #jaʷ, #waʷ,
#a, #aɪ, #aɪ, #pʰaɪ, #pʰa, #baɪ, #vɪa, #na, #ɡɪa, #ɡa, #waf, #wan, #haɪ, #ha (97)

Second Syllable Whole Syllable:

liɪ#(2), də(2), nə(2), sən#(2), fə(2),
biɪ#, miɪ, fiɪ#, fliɪ#, viɪn, ni#, stiɪ#, liɪ, li, kɪɪ#,
buʷ#, suʷn#, zuʷs#, kʰjuʷn#, wuʷf#,
pʰɪ, biɪ#, bi, mint#, fɪs#, tɪn, sɪn#, stɪɡ#, stɪɪ, lɪn#, kɪs#, wind#,
spuɪ,
stɪoʷk#, θɪoʷ#, ɡoʷ, woʷ#,
pə, pən, bə, mə#, fən#, tən#, dən#, dʒə, ðən#, sɪd#, sən#, sɪ, sə, stə, zən#, zə, ʃəs#, ɪə#, lə, kən, ɡən,
bə, tə, rə, rəd#, sə, wə#,
bɪɛt#, flɛf, nɛs#, nɛt#, snɛdʹ#, zɛt#, jɛtʹ#, ɡɪɛ,
hɪtʹ,
stɔ, ɡɔ,
pʰlæz, bæ, tʰæm, dæ, nəft#, snæ, læ,
taɪ#,
bak, fa, tam#, sa, ɪap, laf#, ja#, kʰaɪʰ#, ɡa# (97)

Third Syllable Whole Syllable:

miɪ, fiɪ#, ɪɪ#, ɪɪz#, kʰɪɪ,
fluʷ, tʃuʷ, ɡuʷ#,
mint#, tɪ, nɪk#, stɪd#, fɪs#, ɪk#, lɪt#, ɡwɪftʹ#,
wɒf#,
eɪ#, eɪ, jeɪ#,
doʷ#,
əs#, pə, bə#, mə#, tən#, tən#, dʒən#, nə#, θə, stəkʹ#, ʃən#, ɪə, ɛtʹ#,
mə, fə#,
ɪɛks#,
bɔɪs#, tɔ,
ɪæ#,
staɪn#, sa#, ɡaʷ#,
ta#, na, nadʹ# (46)

Fourth Syllable Whole Syllable:

ɪɪ#,

mint#,
 neⁱ, leⁱ,
 ə#, fəs#, fən#, ʌs#, gəs#,
 maⁱn#, laⁱt#,
 ta# (12)

Fifth Syllable Whole Syllable:

fən#(2) (2)

Whole Syllable Stressed and Unstressed Total

Whole Syllable Stressed:

#a(3), #dɪn(2), #æ(2), #aɪ(2),

#p^hɪd^ɪ, #mɪⁱ, fɪⁱ#, vɪⁱn, #t^hɪⁱ, #ɹɪⁱ, li, #jɪⁱ, #k^hɪⁱ, k^hɪⁱɪ,

bu^w#, flu^w, su^wn#, zu^ws#, k^hju^wn#, #wu^w,

p^hɪ, #bwaɪn, #mɪ, #fɹɪm, tɪn, #splɪn, stɪŋ, #ɹɪ, #lɪ, #lɪm, #jɪ, #k^hɪs, #gɹɪk, #gɪ,

spuɪ, wuɪf#,

eⁱ, #bleⁱ, neⁱ, leⁱ,

#no^w, stuo^wk#,

#ə,

#ɛk, flɛf, #vɛ, nɛt#, zɛt#, jɛt^ɪ#, gɹɛ, #gɹɛk,

#flʌ, hʌt,

stɔ, ɡɔ,

p^hlæz, bæ, #flæ, #vlæs, t^hæm, #t^hɹæn, #t^hæ, dæ, næft#, #θæŋ, #spæn, snæ, #sæ, #zæ, #fɹmæk, læ, #k^hæ, #gæ,

#aⁱ, #mla^w, #zaⁱ, #ja^w, #wa^w,

#aɪ, #p^haɪ, #p^ha, #baɪ, bak, #na, na, k^haⁱh#, #gɹa, #ga, #waf, #wan, #haɪ, #ha (97)

Whole Syllable Unstressed:

fən#(4), mint#(3), mɪⁱ(2), #ɹɪⁱ(2), ɹɪⁱ#, liⁱ#, pə(2), də(2), nə(2), sən#(2), fəs#(2), fə(2), #ɛk(2), ta#(2),

#ɪⁱ, bɪⁱ#, fɪⁱ#, flɪⁱ#, nɪ#, stɪⁱ#, ɹɪⁱz#, liⁱ, kɹɪⁱ#,

#u^wm, #tu^w, tɹu^w, gu^w#, wu^wf#,

#ɪɡ, #pɹɪ, bɪf#, bɪ, #fɪ, fɪs#, tɪ, #dɪs, nɪk#, sɪn#, stɪɡ#, stɪd#, fɪs#, ɹɪk#, lɪt#, lɪn#, kɪs#, ɡwɪft#, wind#, #wɪ,

eⁱ#, #re, jeⁱ#,

do^w#, θɹo^w#, go^w, wo^w#,

#ə, ə#, əs#, #pə, pən, bət, bət#, mə#, mən#, fən#, #fɹə, tət#, tənt#, tən#, dən#, dʒə, #dʒə, dʒən#, nə#, θə, θənɪd#, sətɪd#, sənɪ#, sət, sə, stə,

stək^ɪ#, zənɪ#, zə, #zə, ɹə#, ɹə, ɹəs#, lə, ɹt#, kən, #k^hə, #kə, ɡən, gəs#,

#p^hə, bə, mə, fə#, tə, rə, rəd#, sə, #sə, wə#,

#ɛks, bɪɛt#, #dɛk, nɛs#, snɛd^ɪ#, ɹɛks#,

bɔɪs#, tɔ, #kɔ,

#æ, #p^hæn, #mæ, #flæ, #dʒæm, ɹæ#, #kæ,

#aⁱ, maⁱn#, taⁱ#, sa#, staⁱn#, laⁱt#, ga^w#,

#aɪ, #a, #aɪ, fa, #vɹa, tam#, nad^ɪ#, sa, ɹap, laf#, ja#, ga# (157)

Whole Syllable Total (absolute)

Narrow:

fən#(4), #a(4), #ɹɪⁱ(3), mint#(3), #ɛk(3), #æ(3), #aɪ(3), mɪⁱ(2), ɹɪⁱ#, liⁱ#, #dɪn(2), pə(2), də(2), nə(2), sən#(2),

fəs#(2), fə(2), #flæ(2),

#aⁱ(2), ta#(2),

#ɪⁱ, #p^hɪd^ɪ, bɪⁱ#, #mɪⁱ, fɪⁱ#, fɪt#, flɪⁱ#, vɪⁱn, #t^hɪⁱ, nɪ#, stɪⁱ#, ɹɪⁱz#, liⁱ, li, #jɪⁱfs#, #jɪⁱt, #k^hɪⁱ, k^hɪⁱɪ, kɹɪⁱ#, #wɪm#, #wɪt#,

#u^wm, bu^w#, flu^w, #t^hu^wt#, #tu^w, tɹu^w, su^wn#, zu^ws#, k^hju^wn#, gu^w#, wu^wf#, #wu^w, #hum#,

#ɪɡ, #pɹɪ, p^hɪ, #bwaɪn, bɪf#, bɪ, #mɪ, #fɹɪm, #fɹɪm#, #fɪ, fɪs#, tɪ, tɪn, #dɪs, #dʒɪbz#, nɪk#, sɪn#, stɪɡ#, stɪd#, #splɪn, stɪŋ, fɪs#, ɹɪk#, #ɹɪ,

#lɪ, #lɪm, lɪt#, lɪn#, #jɪ, #k^hɪs, kɪs#, ɡwɪft#, #gɹɪk, #gɹɪ, #gɹɪf#, wind#, #wɪ,

spuɪ, #wuɪf#, wuɪf#,

eⁱ, eⁱ#, #bleⁱ, neⁱ, #re, leⁱ, jeⁱ#,

#fəm#,

do^w#, #no^w, θɹo^w#, stuo^wk#, go^w, wo^w#,

#ə, ə#, əs#, #pə, pən, bət, bət#, mə#, mən#, fən#, #fɹə, tət#, tənt#, tən#, dən#, dʒə, #dʒə, dʒən#, nə#, θə, θənɪd#, sətɪd#, sənɪ#, sət, sə, stə,

stək^ɪ#, zənɪ#, zə, #zə, ɹə#, ɹə, ɹəs#, lə, ɹt#, kən, #k^hə, #kə, ɡən, gəs#,

#ə, #pʰə, bə, mə, fə#, tə, rə, rəd#, sə, #sə, wə#,
 #eks, bɛt#, flɛf, #vɛ, #dɛk, nɛs#, nɛt#, snɛdʰ#, zɛt#, ɹɛks#, jɛtʰ#, gɹɛ, #gɹɛk, #gɹɛʰtʰ#,
 #baks#, #flʌ, #ʃʌpt#, #wʌh#, hʌt,
 bɔʰs#, tɔ, stɔ, #kɔ, gɔ,
 #pʰæn, pʰlæz, bæ, #mæ, #vlæs, tʰæm, #tʰjæn, #tʰæ, dæ, #dʒæm, næft#, #θæŋ, #spæn, snæ, #sæ, #zæ, #fmæk, jæ#, læ, #kæ, #kʰæ, #gæ,
 #mlaʷ, maʰn#, taʰ#, sa#, staʰn#, #zaʷtʰtʰ#, #zaʰ, laʰtʰ#, #jaʷ, gaʷ#, #waʷ,
 #aʃ, #aɹ, #pʰaɹ, #pʰa, #baʃ, bak, fa, #vla, tam#, nadʰ#, #na, na, sa, jap, laf#, ja#, kʰa:hʰ#, #gɹa, #ga, ga#, #waf, #wan, #wa:hʰ#, #haɹ,
 #haɹf#, #ha (270)

Broad:
 ɹɪ(5), li(4), ʃəŋ(4), a(4), mi(3), mɪnt(3), pə(3), nə(3), fə(3), ɛk(3), æ(3), aʃ(3), kɹɪ(2), dɪn(2), wʊf(2), e(2), ə(2), bʰt(2),
 də(2), dʒə(2), səŋ(2), zə(2)

ʃəs(2), jə(2), kə(2), sə(2), flæ(2), kæ(2), a(2), ta(2), na(2), ga(2),
 i, pid, bi, fi, fiʃ, fli, vin, ti, ni, sti, jɪz, jɪfs, jɪt, ki, wɪm, wɪt,
 um, bu, flu, tuʃt, tu, tʃu, sun, zus, kjun, gu, wʊf, wu, hum,
 ɪg, pɹɪ, pɪ, bʊɪn, bɪf, bɪ, mɪ, fɹɪm, fɹɪm, fi, fis, tɪ, tɪn, dɪs, dʒɪbz, nɪk, sɪn, stɪg, stɪd, splɪn, stɪŋ, ʃɪs, ɹɪk, ɹɪ, lɪ, lɪm, lɪt, lɪn, jɪ, kɹɪs, kɪs,
 gwɪft, gɹɪk, gɪ, gɹɪf, wind, wɪ,
 spuʃ,
 ble, ne, re, le, je,
 fɛmf,
 do, no, θɹo, stuok, go, wo,
 əs, pəŋ, mə, məŋ, fəŋ, fɹə, təʃ, təŋt, təŋ, dəŋ, dʒəŋ, θə, θəŋd, səʃd, səŋ, səʃ, sə, stə, stək, zəŋ, jəs, lə, ʃt, kəŋ, gəŋ, gəs,
 ə, pə, bə, mə, tə, rə, rəd, wə,
 ɛks, bɛt, flɛf, vɛ, dɛk, nɛs, nɛt, snɛd, zɛt, ɹɛks, jɛt, gɹɛ, gɹɛk, gɹɛt,
 baks, flʌ, ʃʌpt, wʌh, hʌt,
 bɔs, tɔ, stɔ, kɔ, gɔ,
 pæn, plæz, bæ, mə, vlæs, tæm, tɹæn, tæ, dæ, dʒæm, næft, θæŋ, spæn, snæ, sə, zæ, fmæk, jæ, læ, gæ,
 mla, man, ta, sa, stan, zatʃt, za, lat, ja, ga, wa,
 aʃ, aɹ, paɹ, pa, baʃ, bak, fa, vla, tam, nad, sa, jap, laf, ja, ka, gɹa, waf, wan, wah, haɹ, haɹf,
 ha (270)

270 total whole syllables

Supra-Segments: Whole Words

Whole Word Total per Word Length

Whole Monosyllables:

jɪbz [dʒɪʰbz], hoom [hum], wush [wʊʃ], hahrf [haɹf], yeefs [jɪʰfs], wuh [wʌh], weem [wiʰm], waah [wa:h], weel [wiʰt], shupt [ʃʌpt],
 zoucht [zaʷtʰt], buhks [baks], grish [gɹɪʃ], film [fɹɪm], grail [gɹɛʰt], foomf [fɛmf], toolt [tʰuʷt]

Whole Bisyllables:

GREksned [gɹɛk · snɛdʰ], GAStee [gæ · stiʰ], FRIMdun [fɹɪm · dəŋ], SPLINshus [splɪn · ʃəs], WAHFnes [waf · nɛs], VLASkis [vlæs · kɪs], NAHnee [na · ni], AHya [aʰ · ja], RIBish [ɹɪ · bɪʃ], TEETurd [tʰɪ · rəd], THANKree [θæŋ · kɹɪʰ], ALLfuhn [aʃ · fəŋ], URGah [ə · gə], TRANsin [tʰjæn · sɪn], AHSun [a · səŋ], ZYElee [zaʰ · liʰ], TAlée [tʰæ · liʰ], SATHund [sæ · θəŋd], Awur [æ · wəʃ],
 GRIKsuhld [gɹɪk · səʃd], MLOUstɪg [mlaʷ · stɪg], DENTul [dɪn · təʃ], PEEDmint [pʰɪdʰ · mɪnt], HAHfee [ha · fiʰ], NOWo [noʷ · woʷ], AHthrow [a · θɹoʷ], MEEbret [miʰ · bɛt], DINTahrn [dɪn · tam], YOWlin [jaʷ · lɪn], BWINzuhn [bʊɪn · zəŋ], AHBultah [a · bʰt · ta], WAHNtie [wan · taʰ],
 WOOflee [wuʷ · fliʰ], KRISmuh [kʰɹɪs · mə], LIMfis [lɪm · frɪs], ASHlahf [aʃ · laf], KEERuh [kʰɪ · jə], BAHLwind [baʃ · wind], GIHbee [gɪ · biʰ], SHMAKsum [fmæk · səŋ], YEELsuhn [jiʰ · səŋ], GAHwoosh [ga · wuʷʃ],

purSOON [pʰə · suʷn], aZOOS [æ · zuʷs], fiHNELL [fi · nɛtʰ], surNASHT [sə · næftʰ], priKYOUNE [pɹɪ · kʰjuʷn], ekSTROKE [ɛk · stʊoʷk],
 eeKAH [iʰ · kʰaʰ], flABOO [flæ · buʷ], wiHZEL [wi · zɛtʰ], aiYET [aʰ · jɛtʰ]

Whole Trisyllables:

PAHRsuhljuhn [pʰaɹ · səʃ · dʒəŋ], GRAHturuhl [gɹa · rə · ʃtʰ], Azuhnuh [æ · zə · nə], YIMmeeyay [jɪ · miʰ · jeʰ], LIHgunstɹyne [lɪ · gəŋ · staʰn],
 REESuhreks [ɹɪʰ · sə · ɹɛks], ALTuhray [aʃ · tə · eʰ], PAHjuhnahd [pʰa · dʒə · nadʰ], VEduhlil [vɛ · də · lɪʰ], FLASuhree [flæ · sə · ɹɪʰ], EKstuhboyce [ɛk · stə · bɔʰs], KAPungow [kʰæ · pəŋ · gaʷ], ZAFuhrus [zaʰ · fə · əs], FLUHburbul [flʌ · bə · bʰt], WOWkuhnfur [waʷ · kəŋ · fə], HARnuhgoo [haɹ · nə · guʷ], MIHNuhmun [mi · nə · məŋ], BLAYfurmint [bleʰ · fə · mɪnt],

dekSTEENgwisht [dɛk·'stɪŋ·gwɪʃt], reeHULLtuhnt [ɹiː·'hʌl·tənt], puhDAnik [pə·'dæ·nɪk], igSNAstid [ɪg·'snæ·stɪd], reeVEENdoe [ɹiː·'viːn·doʊ], ekSPUHLshis [ɛk·'spʊl·ʃɪs], rayLEEsah [re·'li·sə], disTINshun [dɪs·'tɪn·ʃən], tooBASStuhk [tuː·'bæ·stək], panGORik [pʰæn·'ɡɔ·ɹɪk], eksFLESHtun [ɛks·'flɛʃ·tən], uhSTOReez [ə·'stɔ·ɹiːz], oomBAHkra [uːm·'bək·ɹæ],

jampuhFEEL [dʒæm·pə·'fiːl], ahsahWUSH [ə·sə·'wʊʃ]

Whole Tetrasyllables:

SPANduhtoree ['spæn·də·tɔ·ɹiː],

zuhGREthuhrus [zə·'ɡɹɛ·θə·ɹəs], kuhLAMurrmine [kʰə·'læ·mæ·maːn], fruhTAMpuhlite [frə·'tʰæm·pə·laɪt], juhPIHruhmint [dʒə·'pʰɪ·ɹə·mɪnt], kuhPLAZmeeuh [kə·'pʰlæz·miːə],

vlahfahNAHtah [vɫə·fə·'na·tə], argoFLOOgus [ɑ·goʊ·'fluː·ɡəs], maluhKREEshus [mæ·lə·'kʰɹiː·ʃəs], kaleeAYshun [kæ·liː·'eɪ·ʃən]

Whole Pentasyllables:

ahlbichooLAYshun [əɫ·bɪ·tʃuː·'leɪ·ʃən], korahptihNAYshun [kɔ·ɹəp·tɪ·'neɪ·ʃən]

	Syllable Receiving Stress					
	None	First	Second	Third	Fourth	Fifth
Word Length Total						
Monosyllabic: 17						
Bisyllabic: 52	0	42	10			
Trisyllabic: 33	0	18	13	2		
Tetrasyllabic: 10	0	1	5	4	0	
Pentasyllabic: 2	0	0	0	0	2	0
Total: 114	0	61	28	6	2	0

Segments

Segment Total for Stressed and Unstressed Syllables and Monosyllables according to Syllable Configuration

Monosyllable Onset: **#b(4), ɹ(4), #f(3), l(3), #z(2), #l(2), #k^h(2), #g(2), #t^h, #d, #n, #s, #f, #ɹ, #w** (29)Monosyllable Nucleus: **o^w(3), ʌ(3), a(3), ɔ(2), #a(2), i^j, u^w, ɪ, ø, œ#, #ʌ, æ** (20)Monosyllable Coda: **d#(4), ɹ(3), m#(2), f#(2), t#(2), n(2), k#(2), h#(2), b, m, tʃ#, dʒ#, n#, s#, z#, f#, ɹ#, ɳ#, x#** (31)First Syllable Segment Stressed Onset: **#d(10), #s(9), #b(5), #m(5), ɹ(5), #f(4), #k^h(4), #t^h(3), #ɹ(3), #l(3), #g(3), #w(3), #p^h(2), #f(2), p, m, dʒ, #dʒ, #dʒ^j, #n, rɹ, #z, l** (70)First Syllable Segment Stressed Nucleus: **æ(13), a(10), u^w(7), ɪ(7), i^j(6), ε(4), o^w(3), ʌ(3), u(2), ʌ(2), ɔ(2), γ, e^j, #ʌ, a^w** (63)First Syllable Segment Stressed Coda: **m(6), n(4), ɹ(4), p(2), t(2), g(2), f, d, d^ɹ, tʃ, s, ɳ** (26)First Syllable Segment Unstressed Onset: **#d(3), #p^h(2), #m(2), #f(2), #s(2), #h(2), #b, l, #k^h, #k** (17)First Syllable Segment Unstressed Nucleus: **ə(6), #a(3), i^j(2), ɪ(2), #ə(2), æ(2), u^w, #u^w, #e, o^w, #o^w, #ə, ə, a** (25)First Syllable Segment Unstressed Coda: **n(2), s** (3)Second Syllable Segment Stressed Onset: **ɹ(5), l(3), t^h(2), d(2), s(2), k^h(2), b, m, t, x, w, h** (22)Second Syllable Segment Stressed Nucleus: **æ(5), e^j(2), o^w(2), ε(2), a(2), u^w, ɪ, ε^j, ɐ, ɔ, a^j, a^w#** (20)Second Syllable Segment Stressed Coda: **d#(3), n(2), m, n#, r#, s, ɹ#, t, x#** (12)Second Syllable Segment Unstressed Onset: **n(9), t(7), k(7), b(6), s(6), g(6), d(5), ɹ(5), l(5), m(3), f(3), r(3), p(2), z(2), v, θ, w** (72)Second Syllable Segment Unstressed Nucleus: **ɪ(13), ə(10), a(7), o^w#(6), ʌ(5), ʌ(3), ʌ^j(3), ʌ^w#(3), i^j#(2), ʌ^w#(2), i^j, i^j, u^w, ʊ, e^j#, e^j, ø#, o^w, ʌ^j, ʌ, ɔ, æ, a^j#, a#** (68)Second Syllable Segment Unstressed Coda: **s#(7), n#(5), t#(4), d#(2), s(2), t(2), t#(2), k(2), m#, f#, n, z, z#, ɹ#, k#, ɳ#** (34)Third Syllable Segment Stressed Onset: **t^h, t, s, k^h** (4)Third Syllable Segment Stressed Nucleus: **i^j#, u^w, a^j** (3)

Third Syllable Segment Stressed Coda:

Third Syllable Segment Unstressed Onset: **ɹ(4), f(3), n(3), s(3), θ(2), k(2), b, v, t, d, r, z, f, l, j, g, w** (28)Third Syllable Segment Unstressed Nucleus: **a(4), i^j#(3), o^w#(3), ə(3), e^j(2), e^j#(2), ʌ(2), ʌ^w#, ʌ^j#, ʌ, ə#, ε, a^j** (25)Third Syllable Segment Unstressed Coda: **d#, d^ɹ#, n#, f#** (4)

Fourth Syllable Segment Stressed Onset:

Fourth Syllable Segment Stressed Nucleus:

Fourth Syllable Segment Stressed Coda:

Fourth Syllable Segment Unstressed Onset: **m(2), f(2), r(2), n, ɹ, l** (9)Fourth Syllable Segment Unstressed Nucleus: **ɪ(3), ə#(3), u^w#, ʌ^w#, ə, ʌ** (10)Fourth Syllable Segment Unstressed Coda: **n#(2), s#** (3)Fifth Syllable Segment Stressed Onset: **k^h** (1)Fifth Syllable Segment Stressed Nucleus: **e^j** (1)

Fifth Syllable Segment Stressed Coda:

Fifth Syllable Segment Unstressed Onset: **m** (1)Fifth Syllable Segment Unstressed Nucleus: **ɪ** (1)Fifth Syllable Segment Unstressed Coda: **n#** (1)Sixth Syllable Segment Unstressed Onset: **f** (1)Sixth Syllable Segment Unstressed Nucleus: **ɪ** (1)Sixth Syllable Segment Unstressed Coda: **n#** (1)

Segment Total for Stressed and Unstressed Onsets and Codas

Stressed Onset: **#d(10), ɹ(10), #s(9), #b(5), #m(5), #f(4), l(4), #k^h(4), k^h(4), #t^h(3), t^h(3), s(3), #ɹ(3), #l(3), #g(3), #w(3), #p^h(2), m(2), t(2), d(2), #f(2), p, b, dʒ, #dʒ^j, #n, rɹ, #z, x, w, h** (97)

Stressed Coda: m(7), n(6), ɹ(4), d#(3), t(3), p(2), s(2), g(2), f, d, d̥, tʃ, n#, r#, ɹ#, ɹ, x# (38)

Unstressed Onset: n(13), ɹ(10), s(9), k(9), f(8), t(8), l(8), b(7), g(7), m(6), d(6), r(6), #d(3), θ(3), z(3), #p^h(2), p(2), #m(2), #f(2), v(2), #s(2), ʃ(2), w(2), #h(2), #b, j, #k^h, #k (128)

Unstressed Coda: n#(10), s#(8), t#(4), d#(3), n(3), s(3), t(2), t#(2), k(2), m#, f#, d̥#, z, z#, ʃ#, ɹ#, k#, ɹ# (46)

Segment Total for Onsets and Codas

Onset: ɹ(24), l(15), #d(14), n(13), #s(12), s(12), #b(10), t(10), #f(9), k(9), b(8), m(8), f(8), d(8), #m(7), #k^h(7), g(7), r(6), #l(5), #g(5), #p^h(4), #t^h(4), #ɹ(4), k^h(4), #w(4), p(3), t^h(3), θ(3), #z(3), z(3), #ʃ(3), w(3), v(2), #n(2), ʃ(2), #h(2), dʒ, #dʒ, #dʒ^j, r:, j, #k, x, h (254)

Coda: n#(12), n(11), d#(10), s#(9), m(8), ɹ(7), t#(6), s(5), t(5), m#(3), f#(3), k#(3), p(2), z#(2), ʃ#(2), ɹ#(2), t#(2), k(2), g(2), ɹ#(2), x#(2), h#(2) b, f, d, d̥, d̥#, tʃ#, tʃ#, dʒ#, r#, z, ɹ#, ɹ (115)

Segment Total for Stressed and Unstressed Syllables and Monosyllables

Monosyllable Segment: ɹ(7), #b(4), d#(4), #f(3), l(3), m#(2), f#(2), t#(2), n(2), #z(2), #l(2), k#(2), #k^h(2), #g(2), h#(2), b, m, #t^h, #d, tʃ#, dʒ#, n#, #n, #s, s#, z#, #ʃ, ʃ#, #ɹ, ɹ#, ɹ#, x#, #w (60)

o^w(3), ʌ(3), a(3), ɔ(2), #a(2), i^j, u^w, ɪ, ø, æ#, #ʌ, æ (20)

First Syllable Segment Stressed: #d(10), #s(9), ɹ(9), m(7), #b(5), #m(5), #f(4), n(4), #k^h(4), p(3), #t^h(3), #ɹ(3), #l(3), #g(3), #w(3), #p^h(2), #ʃ(2), t(2), g(2), f, d, d̥, tʃ, dʒ, #dʒ, #dʒ^j, #n, r:, s, #z, l, ɹ (96)

æ(13), a(10), u^w(7), ɪ(7), i^j(6), ε(4), o^w(3), ə(3), ʊ(2), ʌ(2), ɔ(2), γ, e^j, #ʌ, a^w (63)

First Syllable Segment Unstressed: #d(3), #p^h(2), #m(2), #f(2), n(2), #s(2), #h(2), #b, s, l, #k^h, #k (20)

ə(6), #a(3), i^j(2), ɪ(2), #ə(2), æ(2), u^w, #u^w, #e, o^w, #o^w, #ə, ə, a (25)

Second Syllable Segment Stressed: ɹ(5), d#(3), s(3), l(3), m(2), t^h(2), d(2), n(2), k^h(2), b, t, n#, r#, ɹ#, t, x, x#, w, h (34)

æ(5), e^j(2), o^w(2), ε(2), a(2), u^w, ɪ, ε^j, ø, ɔ, a^j, a^w# (20)

Second Syllable Segment Unstressed: n(10), k(9), s(8), t(7), s#(7), b(6), g(6), d(5), n#(5), ɹ(5), l(5), t#(4), əm#(3), m(3), f(3), əŋ(3), r(3), z(3), ɹ#(3), p(2), d#(2), əŋ#(2), t(2), t#(2), m#, f#, v, θ, z#, ɹ#, ɹ#, k#, ɹ#, w (118)

ɪ(13), ə(10), a(7), o^w#(6), ə#(5), i^j#(2), i:^j, i^j, u^w, ʊ, e^j#, e^j, ø#, o^w, ə, ɔ, æ, a^j#, a# (56)

Third Syllable Segment Stressed: t^h, t, s, k^h (4)

i^j#, u^w, a^j (3)

Third Syllable Segment Unstressed: #ɹ(4), f(3), n(3), s(3), θ(2), k(2), b, v, t, d, d#, d̥#, əŋ#, n#, r, z, ʃ, ʃ#, l, ɹ#, j, g, w (34)

a(4), i^j#(3), o^w#(3), ə(3), e^j(2), e^j#(2), ə#(2), ə, ə#, ε, a^j (23)

Fourth Syllable Segment Stressed:

Fourth Syllable Segment Unstressed: m(2), f(2), n#(2), r(2), əm#, n, s#, ɹ, l (13)

ɪ(3), ə#(3), u^w#, ə, ə (9)

Fifth Syllable Segment Stressed: k^h (1)

e^j (1)

Fifth Syllable Segment Unstressed: m, n# (2)

ɪ (1)

Sixth Syllable Segment Unstressed: n#, ʃ (2)

ɪ (1)

Segment Total by Syllable

First Syllable Segment: #d(13), #s(11), ɹ(9), #m(7), m(7), #b(6), #f(6), n(6), #k^h(5), #p^h(4), p(3), #t^h(3), #ɹ(3), #l(3), #g(3), #w(3), s(2), #ʃ(2), l(2), t(2), g(2), #h(2), f, d, d^ː, tʃ, dʒ, #dʒ, #dʒ^j, #n, r:, #z, #k, ŋ (116)

æ(15), a(10), ɪ(9), i^j(8), u^w(8), ə(6), o^w(4), ʌ(4), ε(4), #a(3), ʊ(2), #ə(2), ʌ(2), ɔ(2), γ, #u^w, #e, e^j, #o^w, #ə, #ʌ, a, a^w (88)

Second Syllable Segment: n(12), s(11), ɹ(10), k(9), t(8), l(8), b(7), d(7), s#(7), n#(6), g(6), m(5), d#(5), t#(4), ʌ#(3), f(3), ʌ#(3), r(3), z(3), ʔ#(3), t(3), p(2), t^h(2), ʌ#(2), t#(2), k^h(2), w(2), m#, f#, v, r#, θ, z#, ʔ, k#, ŋ#, x, x#, h (152)

ɪ(14), ə(10), a(9), o^w#(6), æ(6), ʌ#(5), e^j(3), o^w(3), i^j#(2), u^w(2), ε(2), ɔ(2), i:^j, i^j, ʊ, e^j#, ø#, ə, ε^j, ə, a^j#, a^j, a^w#, a# (76)

Third syllable Segment: s(4), #ɹ(4), f(3), n(3), t(2), θ(2), k(2), b, v, t^h, d, d#, d^ː#, ʌ#(2), n#, r, z, ʃ, ʃ#, l, ʔ#, j, k^h, g, w (38)

i^j#(4), a(4), o^w#(3), ə(3), e^j(2), e^j#(2), ʌ#(2), a^j(2), u^w, ə, ə#, ε (26)

Fourth Syllable Segment: m(2), f(2), n#(2), r(2), ʌ#(2), n, s#, ɹ, l (13)

ɪ(3), ə#(3), u^w#, ə, ʌ (9)

Fifth Syllable Segment: m, n#, k^h (3)

ɪ, e^j (2)

Sixth Syllable Segment: n#, ʃ (2)

ɪ (1)

Segment Stressed and Unstressed Total

Stressed Segment: ɹ(14), #d(10), m(9), #s(9), n(6), #b(5), #m(5), s(5), #f(4), l(4), #k^h(4), k^h(4), p(3), t^h(3), #t^h(3), d#(3), d(3), #ɹ(3), #l(3), t(3), #g(3), #w(3), #p^h(2), t(2), #ʃ(2), g(2), b, f, d^ː, tʃ, dʒ, #dʒ, #dʒ^j, #n, n#, r:, r#, #z, ɹ#, ŋ, x, x#, w, h (135)

æ(18), a(12), u^w(9), ɪ(8), i^j(6), ε(6), o^w(5), e^j(4), ʌ(3), ɔ(3), ʊ(2), ʌ(2), a^j(2), i:^j, γ, ε^j, ə, #ʌ, a^w#, a^w (87)

Unstressed Segment: n(16), s(12), k(11), n#(10), f(8), t(8), s#(8), l(8), b(7), g(7), m(6), d(6), r(6), ɹ(6), ʌ(6), ʌ#(4), t#(4), z(4), #ɹ(4), ʔ#(4), #d(3), d#(3), ʌ#(3), ʌ#(3), θ(3), p(2), #p^h(2), #m(2), #f(2), v(2), #s(2), ʃ(2), t(2), t#(2), w(2), #h(2), #b, m#, f#, d^ː#, z#, ʃ#, ɹ#, ʔ, j, k#, #k^h, #k, ŋ# (189)

ɪ(20), ə(20), a(11), o^w#(9), ʌ#(7), i^j#(5), ə#(4), ʌ(4), i^j(3), e^j#(3), e^j(3), æ(3), #a(3), u^w(2), o^w(2), #ə(2), i:^j, u^w#, #u^w, ʊ, #e, ø#, #o^w, #ə, ε, ɔ, a, a^j#, a^j, a# (115)

Segment Total (absolute)

Narrow: ɹ(27), n(24), s(17), b(16), m(16), l(15), #d(14), n#(12), #s(12), k(11), #b(10), t(10), d#(10), #f(9), f(9), d(9), s#(9), g(9), #ɹ(8), #m(7), #k^h(7), t#(6), r(6), p(5), #l(5), t(5), #g(5), #p^h(4), ʌ#(4), #t^h(4), z(4), ʔ#(4), k^h(4), #w(4), m#(3), f#(3), t^h(3), ʌ#(3), ʌ#(3), θ(3), #z(3), #ʃ(3), k#(3), w(3), v(2), #n(2), z#(2), ʃ(2), ʃ#(2), ɹ#(2), t#(2), ŋ#(2), x#(2), #h(2), h#(2), d^ː, d^ː#, tʃ#, tʃ, dʒ#, dʒ, #dʒ, #dʒ^j, r:, r#, ɹ#, ʔ#, j, #k, ŋ, x, h (384)

ɪ(29), a(26), æ(22), ə(20), u^w(12), i^j(10), o^w(10), o^w#(9), e^j(7), ʌ(7), ʌ#(7), ε(7), i^j#(6), ɔ(6), ʌ(5), #a(5), ə#(4), ʊ(3), e^j#(3), a^j(3), #ə(2), #ʌ(2), i:^j, γ, u^w#, #u^w, #e, ø, ø#, #o^w, #ə, ε^j, æ#, ə, a^w#, a^w, a, a^j#, a# (222)

Broad: n(44), s(38), ɹ(37), d(35), m(30), b(26), k(26), t(23), f(21), l(21), g(14), t(12), p(9), z(9), ʃ(7), w(7), r(6), h(5), dʒ(4), θ(3), ŋ(3), x(3), v(2), tʃ(2), r(2), tʃ, j (384)

a(32), ɪ(29), ə(26), æ(22), o(20), i(17), ʌ(15), u(14), e(11), ε(8), ʌ(7), a(7), ɔ(6), ʊ(3), ø(2), γ, æ, ə (222)

606 total segments

Supra-Segments: Consonant Clusters

Consonant Cluster Total for Stressed and Unstressed Syllables and Monosyllables according to Syllable Configuration

Monosyllable Consonant Cluster Onset (all entries are word initial): **#bl(2), #gɹ(2)**, #bɹ, #fl, #dɹ, #k^hɹ (8)

Monosyllable Consonant Cluster Coda (all entries are word final): bɹ#, mf#, nts#, ndʒ#, ɹt#, ɹd#, ɹtʃ# (7)

First Syllable Consonant Cluster Stressed Onset (all entries are word initial): #fl, #dɹ, #spɹ, #fm, #k^hɹ, #gɹ (6)

First Syllable Consonant Cluster Stressed Coda: mp (1)

First Syllable Consonant Cluster Unstressed Onset (all entries are word initial): #fl, #gɹ (2)

First Syllable Consonant Cluster Unstressed Coda:

Second Syllable Consonant Cluster Stressed Onset: t^hl, st, stɹ, k^hɹ (4)

Second Syllable Consonant Cluster Stressed Coda: nd# (1)

Second Syllable Consonant Cluster Unstressed Onset: fɹ, tɹ, st, kw, gɹ (5)

Second Syllable Consonant Cluster Unstressed Coda: **ɳt#(2), st#(2)**, zm#, ɹd#, ɹz#, ks# (8)

Third Syllable Consonant Cluster Stressed Onset:

Third Syllable Consonant Cluster Stressed Coda:

Third Syllable Consonant Cluster Unstressed Onset: **st(2)**, dɹ, kɹ (4)

Third Syllable Consonant Cluster Unstressed Coda:

Fourth Syllable Consonant Cluster Stressed Onset:

Fourth Syllable Consonant Cluster Stressed Coda:

Fourth Syllable Consonant Cluster Unstressed Onset:

Fourth Syllable Consonant Cluster Unstressed Coda:

Fifth Syllable Consonant Cluster Stressed Onset:

Fifth Syllable Consonant Cluster Stressed Coda:

Fifth Syllable Consonant Cluster Unstressed Onset:

Fifth Syllable Consonant Cluster Unstressed Coda:

Consonant Cluster Total for Stressed and Unstressed Onsets and Codas

Stressed Onset: #fl, t^hl, #dɹ, st, stɹ, #spɹ, #fm, #k^hɹ, k^hɹ, #gɹ (10)

Stressed Coda: mp, nd# (2)

Unstressed Onset: **st(3)**, fɹ, #fl, tɹ, dɹ, kw, kɹ, #gɹ, gɹ (11)

Unstressed Coda: **ɳt#(2), st#(2)**, zm#, ɹd#, ɹz#, ks# (8)

Consonant Cluster Total for Onsets and Codas

Onset: **st(4), #gɹ(4), #fl(3), #bl(2), #dɹ(2), #k^hɹ(2)**, #bɹ, fɹ, t^hl, tɹ, dɹ, stɹ, #spɹ, #fm, k^hɹ, kɹ, kw, gɹ (29)

Coda: **ɳt#(2), st#(2)**, bɹ#, mf#, mp, nts#, ndʒ#, nd#, zm#, ɹt#, ɹd#, ɹtʃ#, ɹd#, ɹz#, ks# (17)

Consonant Cluster Total for Stressed and Unstressed Syllables and Monosyllables

Monosyllable Consonant Cluster: **#bl(2), #gɹ(2)**, bɹ#, #bɹ, mf#, #fl, #dɹ, nts#, ndʒ#, ɹt#, ɹd#, ɹtʃ#, #k^hɹ (15)

First Syllable Consonant Cluster Stressed: mp, #fl, #dɹ, #spɹ, #fm, #k^hɹ, #gɹ (7)

First Syllable Consonant Cluster Unstressed: #fl, #gɹ (2)

Second Syllable Consonant Cluster Stressed: t^hl, nd#, st, stɹ, k^hɹ (5)

Second Syllable Consonant Cluster Unstressed: **ɳt#(2), st#(2)**, fɹ, tɹ, st, zm#, ɹd#, ɹz#, ks#, kw, gɹ (13)

Third Syllable Consonant Cluster Stressed:

Third Syllable Consonant Cluster Unstressed: **st(2)**, dɹ, kɹ (4)

Fourth Syllable Consonant Cluster Stressed:

Fourth Syllable Consonant Cluster Unstressed:

Fifth Syllable Consonant Cluster Stressed:

Fifth Syllable Consonant Cluster Unstressed:

Consonant Cluster Total per Syllable

First Syllable Consonant Cluster: **#fl(2), #gɹ(2)**, mp, #dɹ, #spɹ, #fm, #kʰɹ (9)Second Syllable Consonant Cluster: **ɳt#(2), st#(2), st(2)**, fɹ, tɹ, tʰl, nd#, stɹ, zm#, ɫd#, ɫz#, ks#, kw, kʰɹ, gɹ (18)Third Syllable Consonant Cluster: **st(2)**, dɹ, kɹ (4)

Fourth Syllable Consonant Cluster:

Fifth Syllable Consonant Cluster:

Consonant Cluster Stressed and Unstressed Total

Consonant Cluster Stressed: mp, #fl, tʰl, #dɹ, nd#, #spɹ, st, stɹ, #fm, #kʰɹ, kʰɹ, #gɹ (12)Consonant Cluster Unstressed: **st(3), ɳt#(2), st#(2)**, fɹ, #fl, tɹ, dɹ, zm#, ɫd#, ɫz#, ks#, kɹ, kw, gɹ, #gɹ (19)

Consonant Cluster Total (absolute)

Narrow: **st(4), #gɹ(4), #fl(3), #bl(2), #dɹ(2), ɳt#(2), st#(2), #kʰɹ(2)**, bl_#, #bɹ, mf#, mp, fɹ, tʰl, tɹ, dɹ, nts#, ndʒ#, nd#, #spɹ, stɹ, zm#, #fm, ɹt#, ɹd#, ɹtʃ#, ɫd#, ɫz#, kʰɹ, ks#, kɹ, kw, gɹ (46)Broad: **st(6), gɹ(5), kɹ(4), fl(3), dɹ(3), bl(2), nt(2)**, bl_#, bɹ, mf, mp, fɹ, tl, tɹ, nts, ndʒ, nd, spɹ, stɹ, zm, fm, ɹt, ɹd, ɹtʃ, ɫd, ɫz, ks, kw (46)

46 total consonant clusters

Supra-Segments: Whole Syllables

Whole Syllable Total for Stressed and Unstressed Syllables and Monosyllables

Monosyllable Whole Syllable:

#fiɹn#,
 #ɹuʷs#,
 #fm#,
 #bløf#,
 #bɹoʷd#, #soʷm#, #gɹoʷd#,
 #flæ#,
 #ʌbl_#, #zʌmf#, #kʰɹʌnts#, #gɹʌh#,
 #blɔɹt#, #nɔk#,
 #læd#,
 #ax#, #af#, #bah#, #faɹtʃ#, #tʰaɹd#, #dak#, #zan#, #lat#, #kʰandʒ#, #waz# (25)

First Syllable Whole Syllable Stressed (all entries are word initial):

#diɹ(2), #siɹ(2), #buʷ(2), #dɛ(2), #sæ(2), #maɹ(2), #kʰa(2),
 #fliɹ, #fiɹ, #ɹiɹ,
 #fmy,
 #uʷ, #duʷ, #dʒuʷ, #dʒuʷm, #luʷ, #wuʷ,
 #bɹɪɹ, #tʰɹ, #dɪs, #dɪf, #dɪɹ, #dɪn, #sɪm,
 #buɹ, #fʊɹ,
 #seɹ,
 #dʒɹoʷ, #ɹoʷtʃ, #woʷ,
 #pʰə, #kʰə, #grɹə,
 #ɛg, #nɛ,
 #ʌn, #sʌm, #kʰɹʌmp,
 #fɔɹ, #tʰɔɹ,
 #pʰæ, #mæ, #mæn, #dɹæ, #spɹæ, #zæp, #ɹæɡ, #læd, #læ, #gɹæ, #gæ,

#da^w,
#baɪ, #ma, #t^ham, #san, #ʃa, #wam (65)

First Syllable Whole Syllable Unstressed (all entries are word initial):

#ə(2), #sə(2), #a(2),
#p^hi,
#flu^w,
#di, #dis,
#e,
#o^w, #bo^w,
#mə, #kə, #k^hə, #hə,
#ə, #hə,
#p^hæn, #fæ,
#ma,
#an (23)

Second Syllable Whole Syllable Stressed:

lu^w,
k^hɪm,
leⁱ, heⁱ,
so^w, stɒ^wn#,
ɛ, t^hɛⁱd#, wɛr#,
xəx#,
dɔɪ#,
æn, mæd#, dæt, ʌænd#, ʌəs,
t^haⁱ, ʒa^w#,
ba, k^ha (20)

Second Syllable Whole Syllable Unstressed:

no^w#, lo^w#, ɹŋ#, ɹəŋ#, ɡəŋ#,
bi:ŋ#, diⁱ#, liⁱ#, kiⁱ,
ku^ws#,
mɪn#, fɪn, fɪst#, vɪk#, nɪk, nɪs#, nɪks#, stɪ, sɪs#, zɪs#, ɪn#, lɪn#, kɪzm#,
pʊst#,
neⁱd#, kweⁱ#,
dø#,
bo^w#, so^w#, ʒo^w,
pɹ̩, bɹ̩#, mə, məs#, fə, tʌf#, tɒŋt#, nə, ʊə, sɒŋt#, sə, lə, kəŋ#, kə, ɡəŋ, ɡɹəs#,
bə#, də#, nə#, ɹə#, kə, ɡə#,
tɔtɜz#,
zæ,
baⁱ#,
ban#, taɪ#, ta#, dæt#, dæd#, nat#, stan#, ga# (68)

Third Syllable Whole Syllable Stressed:

k^hiⁱ#,
t^hu^w,
aⁱ (3)

Third Syllable Whole Syllable Unstressed:

ɹiⁱ#, nə(2),
fiⁱ#,
feⁱ#, seⁱ, steⁱ#, leⁱ,
no^w#, sɹ̩o^w#, ɡo^w#,
vəŋ#, ʊə, ʃə#, kɹ̩tɹ̩#,
ɹə#, stə, kə#,
dɪɛd^h#,
faⁱd#,

ba, ʊa, zan#, waf# (25)

Fourth Syllable Whole Syllable Stressed:

Fourth Syllable Whole Syllable Unstressed:

nu^w#,
mɪn#, mɪs#, fɪn#,
ə#, fə, r^əm̩#, rə#, ɹə#,
lə (10)

Fifth Syllable Whole Syllable Stressed:

k^he^j (1)

Fifth Syllable Whole Syllable Unstressed:

mɪn# (1)

Sixth Syllable Whole syllable Unstressed:

fɪn# (1)

Whole Syllable Total per Syllable

First Syllable Whole Syllable (all entries are word initial):

#dɪ^j(2), #sɪ^j(2), #bu^w(2), #dɪs(2), #ə(2), #sə(2), #sæ(2), #a(2), #ma(2), #maɪ(2), #k^ha(2),
#p^hɪ, #fli^j, #fi^j, #ɹɪ^j,
#fmy,
#u^w, #flu^w, #du^w, #dʒu^w, #dʒu^wm, #lu^w, #wu^w,
#bɪd^ɹ, #t^hɪ, #dɪ, #dɪf, #dɪɪ, #dɪn, #sɪm,
#bʊt, #fʊt,
#e, #seⁱ,
#o^w, #bo^w, #dʒⁱo^w, #ɹo^wtʃ, #wo^w,
#mə, #kə, #k^hə, #hə,
#ə, #p^hə, #k^hə, #grɪə, #hə,
#ɛg, #dɛ, #dɛ, #nɛ,
#ʌn, #sʌm, #k^hʌmp,
#fɔŋ, #t^hɔɹ,
#p^hæ, #p^hæn, #mæ, #mæn, #fæ, #dɪæ, #spɪæ, #zæp, #ɹæg, #læd, #læ, #gɪæ, #gæ,
#an, #baɪ, #t^ham, #da^w, #san, #ʃa, #wam (88)

Second Syllable Whole Syllable:

no^w#(2), lo^w#(2), ʔm̩#(2), r^əm̩#(2), gʔ#(2),
bɪɹ^jŋ#, dɪ^j#, lɪ^j#, kɪ^j,
ku^ws#, lu^w,
mɪn#, fɪn, fɪst#, vɪk#, nɪk, nɪs#, nɪks#, stɪ, sɪs#, zɪs#, ɹɪn#, lɪn#, k^hɪm, kɪzm#,
pʊst#,
neⁱd#, le^j, kweⁱ#, he^j,
dø#,
bo^w#, so^w#, so^w, stɹo^wn#, ɹo^w,
pʔ, bʔ#, mə, məs#, fə, tʌf#, t^əŋt#, nə, ʊə, s^əŋt#, sə, lə, k^əm̩#, kə, g^əŋ, gɹəs#,
bə#, də#, nə#, rə#, kə, gə#,
ɛ, t^hɪɛⁱd#, wɛr#,
xəx#,
tɔtʒ#, dɔɹ#,
æn, mæd#, dæf, zæ, ɹænd#, ɹæs,
baⁱ#, t^haⁱ, ɹa^w#,
ba, ban#, taɹ#, ta#, daf#, dafɪd#, naɪ#, stan#, k^ha, ga# (88)

Third Syllable Whole Syllable:

ɹɪ^j#(2), nə(2),
fi^j#, k^hɪ^j#,
t^hu^w,
feⁱ#, seⁱ, steⁱ#, le^j,

noʷ#, sʲoʷ#, goʷ#,
 vʌŋ#, Өә, ʃә#, kʲɘʃ#,
 rə#, stə, kə#,
 dʲɛdʲ#,
 aʲ, faʲdʲ#,
 ba, Өa, zan#, waf# (28)

Fourth Syllable Whole Syllable:

nuʷ#,
 mɪn#, mɪs#, fɪn#,
 ә#, fә, rʌŋ#, rә#, ɹә#,
 lə (10)

Fifth Syllable Whole Syllable:

mɪn#,
 kʰeʲ (2)

Sixth Syllable Whole Syllable:

ʃɪn# (1)

Whole Syllable Stressed and Unstressed Total

Whole Syllable Stressed:

#dɪʲ(2), #sɪʲ(2), #buʷ(2), #dɛ(2), #sæ(2), #maɪ(2), #kʰa(2),
 #fliʲ, #fiʲ, #ɹiʲ, kʰiʲ#,
 #ʃmy,
 #uʷ, tʰuʷ, #duʷ, #dʒuʷ, #dʒuʷm, #luʷ, luʷ, #wuʷ,
 #bɪdʲ, #tʰɪ, #dɪs, #dɪf, #dɪɹ, #dɪn, #sɪm, kʰɪm,
 #buʃ, #fuʃ,
 #seʲ, leʲ, kʰeʲ, heʲ,
 #dʒʲoʷ, soʷ, stʲoʷn#, #ɹoʷtʃ, #woʷ,
 #pʰə, #kʰə, #grɪə,
 ɛ, #ɛg, tʰlɛʲdʲ#, #nɛ, wɛr#,
 xəx#,
 #ʌn, #sʌm, #kʰʌmp,
 #fɔŋ, #tʰɔɹ, dɔɹ#,
 æn, #pʰæ, #mæ, #mæn, mæd#, #dɪæ, dæʃ, #spɪæ, #zæp, #ɹæg, ɹænd#, ɹæs, #læd, #læ, #gɹæ, #gæ,
 aʲ, tʰaʲ, #daʷ, ɹaʷ#,
 #baɪ, ba, #ma, #tʰam, #san, #ʃa, kʰa, #wam (89)

Whole Syllable Unstressed:

mɪn#(3), noʷ#(3), nә(3), ɹɪʲ#(2), loʷ#(2), #ә(2), ʌŋ#(2), fә(2), rʌŋ#(2), Өә(2), #sә(2), gʲɘʃ#(2), rə#(2), #a(2),
 #pʰɪʲ, bi:ʲŋ#, fiʲ#, diʲ#, liʲ#, kiʲ,
 #fluʷ, nuʷ#, kuʷs#,
 mɪs#, #dɪ, #dɪs, fɪn, fɪn#, ʃɪst#, vɪk#, nɪk, nɪs#, nɪks#, stɪ, sɪs#, zɪs#, ʃɪn#, ɹɪn#, lɪn#, kɪzm#,
 pʊst#,
 #e, feʲ#, neʲdʲ#, seʲ, steʲ#, leʲ, kweʲ#,
 dø#,
 #oʷ, #boʷ, boʷ#, soʷ#, sʲoʷ#, ɹoʷ, goʷ#,
 ә#, pʲɘʃ, bʲɘʃ, mә, #mә, mәs#, vʌŋ#, tʲɘʃ#, tʲɘŋ#, rʌŋ#, rә#, sʌŋ#, sә, ʃә#, ɹә#, lә, kʌŋ#, kә, kʲɘʃ#, #kә, #kʰә, gʌŋ, gɹəs#, #hә,
 #ә, bә#, dә#, nә#, stә, lә, kә#, kә, gә#, #hә,
 dʲɛdʲ#,
 tɔɹz#,
 #pʰæn, #fæ, zæ,
 baʲ#, #ma, faʲdʲ#,
 #an, ba, ban#, taɹ#, ta#, daʃ#, daʃdʲ#, naʃ#, Өa, stan#, zan#, ga#, waf# (128)

Whole Syllable Total (absolute)

Narrow:

min(3), noʷ(3), nə(3), #diː(2), #siː(2), ɹiː(2), #buʷ(2), #dis(2), leː(2), loʷ(2), #ə(2), ʔm̩(2), fə(2), rəŋ(2),
Θə(2), #sə(2), gʔ(2), rə(2),
#dɛ(2), #sæ(2), #a(2), ba(2), #maɪ(2), #kʰa(2),
 #pʰiː, biːŋ#, #fliː, #fiː, fiː#, #fiːn#, diː#, #ɹiː, liː#, kiː, kʰiː#,
 #fmy,
 #uʷ, #fluʷ, tʰuʷ, #duʷ, #dʒuʷ, #dʒuʷm, nuʷ#, #ɹuʷs#, #luʷ, luʷ, kuʷs#, #wuʷ,
 #bɪd˩, mɪs#, #tɪ, dɪ, dɪf, dɪɹ, dɪn, fɪn, fɪn#, fɪst#, vɪk#, nɪk, nɪs#, nɪks#, stɪ, sɪs#, sɪm, zɪs#, fɪn, fɪm#, ɹɪn#, lɪn#, kɪzm#,
 kʰɪm,
 pʊst#, #bʊt, #fʊt,
 #e, feː#, neːd#, seː, #seː, steː#, kweː#, kʰeː, heː,
 #blɒf#, dɒ#,
 #oʷ, #boʷ, boʷ#, #bɹoʷd#, #dʒoʷ, soʷ#, sɹoʷ#, soʷ, stɹoʷn#, #soʷm#, ɹoʷ, #ɹoʷtʃ, goʷ#, #gɹoʷd#, #woʷ,
 ə#, pʔ, bʔ#, mə, #mə, məs#, vəŋ#, tʌf#, təŋt#, rəŋ#, rə#, səŋt#, sə, fə#, ɹə#, lə, kəŋ#, kə, kɹə#, #kə, #kʰə, gəŋ, gɹəs#, #hə,
 #ə, #pʰə, bə#, də#, nə#, stə, lə, kə#, kə, #kʰə, #grːə, gə#, #hə,
 ɛ, #ɛg, tʰlɛːd#, dɪɛd˩#, #nɛ, wɛr#,
 #flœ#,
 xəx#,
 #ʌn, #ʌbl˩#, #sʌm, #zʌmf#, #kʰʌnts#, #kʰʌmp, #gʌh#,
 #blɔɪt#, #fɔŋ, tɔtʒ#, #tʰɔɪ, dɔɪ#, #nɔk#,
 æn, #pʰæn, #pʰæ, #mæ, #mæn, mæd#, #fæ, #dɹæ, dæʔ, #spɹæ, #zæp, zæ, #ɹæɡ, ɹænd#, ɹæs, #læd, #læd#, #læ, #gɹæ, #gæ,
 aː, baː#, #ma, faːd#, tʰaː, #daʷ, ɹaʷ#,
 #ax#, #aɹ#, #an, #bah#, ban#, #baɪ, #ma, #faɪtʃ#, taɪ#, ta#, #tʰam, #tʰaɪd#, daʔ#, daːd#, #dak#, naʔ#, Θa, stan#, #san, zan#, #zan#,
 #ʃa, #lat#, kʰa, #kʰandʒ#, ga#, #wam, waf#, #waz# (242)

Broad:

di(3), ɹi(3), min(3), no(3), so(3), ə(3), nə(3), sə(3), kə(3), kə(3), ka(3), fi(2), si(2), ki(2), bu(2), lu(2), dis(2), fin(2),
se(2), le(2), bo(2), lo(2),
ʔm̩(2), mə(2), fə(2), rəŋ(2), Θə(2), gʔ(2), rə(2), dɛ(2), sæ(2), læd(2), a(2), ba(2), maɪ(2),
 pi, biŋ, fli, fin, li,
 fmy,
 u, flu, tu, du, dʒu, dʒum, nu, ɹus, kus, wu,
 bɪd, mɪs, tɪ, dɪ, dɪf, dɪɹ, dɪn, fɪst, vɪk, nɪk, nɪs, nɪks, stɪ, sɪs, sɪm, zɪs, fɪn, fɪm, ɹɪn, lɪn, kɪzm, kɪm,
 pʊst, bʊt, fʊt,
 e, fe, ned, ste, kwe, ke, he,
 blɒf, dɒ,
 o, bɹod, dʒo, stɹon, som, ɹo, ɹotʃ, go, gɹod, wo,
 pʔ, bʔ, məs, vəŋ, tʌf, təŋt, rəŋ, rə, səŋt, fə, ɹə, lə, kəŋ, kɹə, gəŋ, gɹəs, hə,
 ə, pə, bə, də, nə, stə, lə, grə, gə, hə,
 ɛ, ɛg, tɪɛd, dɪɛd, nɛ, wɛr,
 flœ,
 xəx,
 ʌn, ʌbl˩, sʌm, zʌmf, kʌnts, kʌmp, gʌh,
 blɔɪt, fɔŋ, tɔtʒ, tɔɪ, dɔɪ, nɔk,
 æn, pæn, pæ, mæ, mæn, mæd, fæ, dɹæ, dæʔ, spɹæ, zæp, zæ, ɹæɡ, ɹænd, ɹæs, læ, gɹæ, gæ,
 a, ba, ma, faɪd, ta, da, ɹa,
 ax, aɹ, an, bah, ban, baɪ, ma, faɪtʃ, taɪ, ta, tam, taɪd, daʔ, daːd, dak, naʔ, Θa, stan, san, zan, zan, ʃa, lat, kandʒ, ga, wam, waf, waz (242)

242 total whole syllables

Supra-Segments: Whole Words

Whole Word Total per Word Length

Whole Monosyllables:

roose [ɹuʷs], fleu [flœ], nok [nɔk], ahh [ax], zumf [zʌmf], wahz [waz], laht [lat], ahsh [aɹ], gruh [gʌh], bleuf [blɒf], dahk [dak],
 bah [bah], blort [blɔɪt], shim [ʃɪm], uhbl [ʌbl˩], feen [fiːn], lad [læd], zahng [zan], sohm [soʷm], browd [bɹoʷd], krunts [kʰʌnts],
 tahrɪd [tʰaɪd], kahngɛ [kʰandʒ], fahrɪh [faɪtʃ], growd [gɹoʷd]

Whole Bisyllables:

KAHlow ['kʰa·loʷ], PASunt ['pʰæ·sənt], FULLso ['fuɫ·soʷ], EGzis ['eg·zɪs], TORdur ['tʰɔɯ·rə], DINtruf ['dɪn·tʲəf], GRURbeeng ['grɪə·biːŋ], BOOGah ['buʷ·ga], WOEbahn ['woʷ·ban], SEEKuhm ['siː·kəŋ], DRAduhn ['dʲæ·rəŋ], ROWCHnis ['ɹoʷtʃ·nɪs], DEHfrist ['dɛ·fɹɪst], GRAnuhr ['gɹæ·nə], REEvik ['ɹiː·vɪk], TAHMbur ['tʰam·bə], DISlow ['dɪs·loʷ], FLEEkizm ['fliː·kɪzm], LOOUm ['luʷ·əŋ], UNdahld ['ʌn·dətɫ], SPRAsis ['spɹæ·sɪs], WAHPust ['wam·pust], MAHRtahr ['maɹ·taɹ], MAHRlee ['maɹ·liː], LADtunt ['læd·tənt], BIDno ['bɪd·noʷ], LAduhn ['læ·rəŋ], JOno ['dʒiʊ·noʷ], JOOMbye ['dʒuʷm·baɹ], PURniks ['pʰə·nɪks], BAHRmin ['baɹ·mɪn], FEEgul ['fiː·gʲɪ], KRUMPlin ['kʰɹʌmp·lɪn], MANDee ['mæn·diː], DIFnahl ['dɪf·nəɫ], ZAPtolz ['zæp·tɔɫz], BULLdahl ['bʊɫ·dətɫ], SAYgruhs ['seː·gɹəs], SAHNduhr ['san·də], DRIHbul ['dɹɪ·bʲɪ], DOWgur ['daʷ·gə], FONGkway ['fɔŋ·kweɪ], OOmʊs ['uʷ·məs], KURgul ['kʰə·gʲɪ], BOOnayde ['buʷ·neɪd], DEEum ['diː·əŋ], SHMOOdeu ['ʃmʊ·dø], DARrin ['dɛ·ɹɪn], SUMboe ['sʌm·boʷ], DOOtah ['duʷ·taɹ], NEHstahn ['nɛ·stan], KAHkoose ['kʰa·kuʷs],

huhMAD [hə·'mæd], kuhRAND [kʰə·'ɹænd], maHOH [ma·'xəx], hurRAW [hə·'ɹaʷ], panWAIR [pʰæn·'wer], ahntLED [an·'tʰlɛd], boeDOOR [boʷ·'dɔɹ], muhSTRONE [mə·'stɹoʷn]

Whole Trisyllables:

SAPulwahsh ['sæ·pʲ·waɫ], MAHNnuhree ['ma·nə·ɹiː], JOOstihfyd ['dʒuʷ·stɪ·faɪd], MALuhfay ['mæ·lə·feɪ], GATHuhkur ['gæ·θə·kə], SASuhtur ['sæ·sə·rə], SIMfuhno ['sɪm·fə·noʷ], WOOkuhree ['wuʷ·kə·ɹiː],

flooHAYvun [fluʷ·'heː·vəŋ], ayEHSyo [e·'ɛ·sɪoʷ], suhLAYzahn [sə·'leː·zan], deeANDred [diː·'æn·dɪɛd], disTYEgoe [dɪs·'tʰaː·goʷ], ahBAHstay [a·'ba·steɪ], uhKRIMshuh [ə·'kʰɹɪm·ʃə], ahDALfee [a·'dæɫ·fiː], ohLOOKruhl [oʷ·'luʷ·kɹəɫ],

uhrowKEE [ə·'ɹoʷ·'kʰɪ]

Whole Tetrasyllables:

TIHfinbahtum ['tʰɪ·fɪn·ba·rəŋ], SHAHniksaymin ['ʃa·nɪk·seː·mɪn], RAGmuhlayduh ['ɹæg·mə·leː·rə],

suhSOWnuhmis [sə·'soʷ·nə·mɪs], uhRASthuhnnoo [ə·'ɹæs·θə·nuʷ], kuhKAHnuhruh [kə·'kʰa·nə·ɹə],

fakuhTOOUh [fæ·kə·'tʰuʷ·ə], peekeeAlfin [pʰiː·kiː·'aː·fɪn]

Whole Pentasyllables:

SEEGunthahlurmin ['siː·gəŋ·θa·lə·mɪn]

Whole Hexasyllables:

dihzastuhrfihKAYshin [dɪ·zæ·stə·fə·'kʰeː·fɪn]

	Syllable Receiving Stress						
	None	First	Second	Third	Fourth	Fifth	Sixth
Word Length Total							
Monosyllabic: 25							
Bisyllabic: 60	0	52	8				
Trisyllabic: 18	0	8	9	1			
Tetrasyllabic: 8	0	3	3	2	0		
Pentasyllabic: 1	0	1	0	0	0	0	
Hexasyllabic: 1	0	0	0	0	0	1	0
Total: 113	0	64	20	3	0	1	0

Question ID: X. the feeling of being woken in the middle of the night by a strange noise

Segments

Segment Total for Stressed and Unstressed Syllables and Monosyllables according to Syllable Configuration

Monosyllable Onset: **ɹ(5), l(4), #p^h(3), #ɹ(3), #f(2), #s(2), #j(2), #k^h(2), #g(2), #w(2), t, #d, #h** (30)Monosyllable Nucleus: **ɪ(4), æ(3), i^j(2), u^w(2), a^j(2), #a(2), #i^j, u^w#, ε^j, #æ, ʌ, a, a#** (24)Monosyllable Coda: **t#(5), k(4), k#(4), s#(3), d#(2), m, m#, f, tʃ#, dʒ#, n, ʃ#, ɹ#, ɹ, ʔ, ʔ#, g#, χ#** (31)**First Syllable Segment Stressed Onset: ɹ(9), #s(8), #b(5), #f(4), l(4), k(4), #k^h(4), #w(4), #t^h(3), #h(3), #v(2), t(2), #ɹ(2), #l(2), #p^h, #m, #dʒ, #n, #z, #f, #j, #g** (47)**First Syllable Segment Stressed Nucleus: a(11), æ(8), ɪ(6), ε(6), ʌ(5), #æ(4), #a(3), u^w(2), e^j(2), o^w(2), #æ(2), #a^j(2), #i^j, i^j, #ɪ, æ, #ε, ɔ, #ʌ, a^j** (61)**First Syllable Segment Stressed Coda: k(7), ɹ(9), n(5), m(3), s(2), ʔ(2), t, ʊ, z, ɳ** (32)First Syllable Segment Unstressed Onset: **#s(3), l(3), #m(2), #f(2), #d(2), #k(2), #p^h, #v, #dʒ, #n, #z, #f, #ɹ, #g, #h** (23)First Syllable Segment Unstressed Nucleus: **ɪ(7), ə(6), #ə(3), #ε(3), i^j(2), a(2), #i^j, ε, œ, æ, #a, #a** (29)First Syllable Segment Unstressed Coda: **k(4), s(3), ɹ(2), n, z** (11)**Second Syllable Segment Stressed Onset: ɹ(9), s(6), t(4), l(3), t^h(2), k(2), k^h(2), g(2), p, b, m, f, d** (35)**Second Syllable Segment Stressed Nucleus: æ(6), ɪ(4), i^j(3), a(3), u^w(2), e^j(2), ε(2), i#, o^w, ʌ, a^w, a#** (27)**Second Syllable Segment Stressed Coda: d#(5), n(5), t#(2), ɹ(2), ɳ(2), m#, f:#, s, k** (20)Second Syllable Segment Unstressed Onset: **ɹ(8), t(7), g(5), p(4), b(4), f(4), s(4), ʃ(4), d(3), n(3), r(3), j(3), k(3), l(2), h(2), p^h, v, t^h, dʒ, tʃ, dʒ, ʊ, z** (67)Second Syllable Segment Unstressed Nucleus: **ɪ(9), ə(9), ʔ#(7), u^w(6), æ(6), a(4), i^j#(3), o^w#(3), ʔ(2), ʔ#(2), æ(2), i, i#, e^j#, ə#, ʔ#, ʔ#** (63)Second Syllable Segment Unstressed Coda: **d#(6), n#(6), k#(4), f#(3), ʃ#(3), ɹ#(3), t#(2), p#, m#, tʃ#, s#, ʔ** (32)**Third Syllable Segment Stressed Onset: p^h** (1)**Third Syllable Segment Stressed Nucleus: æ** (1)**Third Syllable Segment Stressed Coda:**Third Syllable Segment Unstressed Onset: **n(4), ɹ(4), t(3), b(2), d(2), ʃ(2), l(2), g(2), p, r, s, z, ɹ** (26)Third Syllable Segment Unstressed Nucleus: **ə(4), i^j(3), ɪ(3), ʔ#(3), e^j(2), i^j#, u^w#, e^j#, o^w#, ə#, ʔ#, ʔ#, æ, ε, a^w** (25)Third Syllable Segment Unstressed Coda: **n#(2), t#, d#, s#, k^w#, ɳ#** (7)**Fourth Syllable Segment Stressed Onset:****Fourth Syllable Segment Stressed Nucleus:****Fourth Syllable Segment Stressed Coda:**Fourth Syllable Segment Unstressed Onset: **n(2), m, t, d, r, j** (7)Fourth Syllable Segment Unstressed Nucleus: **ə#(4), ɪ, e^j, ə, ε, a** (9)Fourth Syllable Segment Unstressed Coda: **v#, d#, d^w#, s:#, ʔ, k#** (6)**Fifth Syllable Segment Stressed Onset:****Fifth Syllable Segment Stressed Nucleus:****Fifth Syllable Segment Stressed Coda:**

Fifth Syllable Segment Unstressed Onset:

Fifth Syllable Segment Unstressed Nucleus:

Fifth Syllable Segment Unstressed Coda:

Segment Total for Stressed and Unstressed Onsets and Codas

Stressed Onset: ɹ(18), #s(8), l(7), t(6), s(6), k(6), #b(5), #f(4), #k^h(4), #w(4), #t^h(3), #h(3), #v(2), t^h(2), #ɹ(2), #l(2), k^h(2), g(2), #p^h, p, p^h, b, #m, m, f, d, #dʒ, #n, #z, #f, #j, #g (100)**Stressed Coda: ɹ(11), n(10), k(8), d#(5), m(3), s(3), ɳ(3), t#(2), ʔ(2), m#, f:#, t, ʊ, z** (52)

Unstressed Onset: **ɹ(12), t(11), n(9), l(7), g(7), b(6), d(6), f(6), p(5), r(5), s(5), f(4), j(4), #s(3), k(3), #m(2), #f(2), #d(2), z(2), #k(2), h(2), #p^h, p^h, m, #v, v, t^h, dz, tʃ, #dʒ, dʒ, #n, θ, #z, #ʃ, #ɹ, ɹ, #g, #h** (116)

Unstressed Coda: **d#(8), n#(8), k#(5), k(4), f#(3), t#(3), s(3), ʃ#(3), ɹ#(3), s#(2), ɹ(2), t(2), p#, m#, v#, d^h#, tʃ#, n, sɪ#, z, k^h#, ɲ#** (56)

Segment Total for Onsets and Codas

Onset: **ɹ(35), t(18), l(18), #s(13), s(11), n(9), k(9), g(9), #f(8), b(7), d(7), p(6), ʃ(6), #ɹ(6), #k^h(6), #w(6), #p^h(5), #b(5), f(5), r(5), #h(5), j(4), #g(4), #m(3), #v(3), t^h(3), #t^h(3), #d(3), #j(3), p^h(2), m(2), #dʒ(2), #n(2), #z(2), z(2), #ʃ(2), #l(2), #k(2), k^h(2), h(2), v, dz, tʃ, dʒ, θ, ɹ** (246)

Coda: **k(16), d#(15), ɹ(14), n(12), t#(10), k#(9), n#(8), s(6), s#(5), t(5), m(4), ʃ#(4), ɹ#(4), m#(3), f#(3), ɲ(3), tʃ#(2), z(2), p#, f, fɪ#, v#, t, d^h#, dʒ#, θ, sɪ#, t#, k^h#, g#, ɲ#, χ#** (139)

Segment Total for Stressed and Unstressed Syllables and Monosyllables

Monosyllable Segment: **ɹ(6), t#(5), l(4), k(4), k#(4), #p^h(3), s#(3), #ɹ(3), #f(2), #s(2), d#(2), #j(2), #k^h(2), #g(2), #w(2), m, m#, f, t, #d, tʃ#, dʒ#, n, ʃ#, ɹ#, t, t#, g#, χ#, #h** (61)

ɹ(4), æ(3), i^j(2), u^w(2), a^w(2), a^j(2), #a(2), #i^j, u^w#, ε^j, #æ, ʌ, a, a# (24)

First Syllable Segment Stressed: **ɹ(18), k(11), #s(8), #b(5), n(5), #f(4), l(4), #k^h(4), #w(4), m(3), t(3), #t^h(3), #h(3), #v(2), s(2), #ɹ(2), #l(2), t(2), #p^h, #m, #dʒ, #n, θ, #z, z, #ʃ, #j, #g, ɲ** (96)

a(11), æ(8), ɪ(6), ε(6), ʌ(5), #æ(4), #a(3), u^w(2), e^j(2), o^w(2), #æ(2), #a^j(2), #i^j, i^j, #ɪ, æ, #ε, ɔ, #ʌ, a^j (61)

First Syllable Segment Unstressed: **k(4), #s(3), s(3), l(3), #m(2), #f(2), #d(2), ɹ(2), #k(2), #p^h, #v, #dʒ, #n, n, z, #z, #ʃ, #ɹ, #g, #h** (34)

ɹ(7), ə(6), #ə(3), #ε(3), i^j(2), a(2), #i^j, ε, œ, æ, #a, #a (29)

Second Syllable Segment Stressed: **ɹ(11), s(7), d#(5), n(5), t(4), l(3), k(3), t^h(2), t#(2), k^h(2), g(2), ɲ(2), p, b, m, m#, fɪ#, f, d** (55)

æ(6), ɪ(4), i^j(3), a(3), u^w(2), e^j(2), ε(2), i#, o^w, ʌ, a^w, a# (27)

Second Syllable Segment Unstressed: **ɹ(8), t(7), ə^j(7), d#(6), n#(6), g(5), p(4), b(4), f(4), s(4), ʃ(4), k#(4), f#(3), d(3), n(3), r(3), ʃ#(3), ɹ#(3), j(3), k(3), t#(2), ə^j#, l(2), ə^j(2), h(2), p^h, p#, m#, ə^j#, v, t^h, dz, tʃ#, tʃ, dʒ, ə^j, θ, s#, z, t** (112)

ɹ(9), ə(9), u^w(6), ə(6), a(4), i^j#, o^w#, ə#(2), æ(2), i, i#, e^j#, ə#, ɔ, a^j (50)

Third Syllable Segment Stressed: **p^h** (1)

æ (1)

Third Syllable Segment Unstressed: **n(4), ɹ(4), t(3), ə^j#, b(2), d(2), n#(2), ʃ(2), l(2), g(2), p, ə^j#, t#, d#, r, s, s#, z, ɹ, ə^j#, k^h#, ɲ#** (38)

ə(4), i^j(3), ɪ(3), e^j(2), i^j#, u^w#, e^j#, o^w#, ə#, ə, ε, a^w (20)

Fourth Syllable Segment Stressed:

Fourth Syllable Segment Unstressed: **n(2), m, v#, t, d, d#, d^h#, r, sɪ#, t, j, k#** (13)

ə#(4), ɪ, e^j, ə, ε, a (9)

Fifth Syllable Segment Stressed:

Fifth Syllable Segment Unstressed:

Segment Total by Syllable

First Syllable Segment: **ɹ(20), k(15), #s(8), l(7), #f(6), n(6), #b(5), #k^h(4), #w(4), #h(4), #m(3), m(3), #v(3), t(3), #t^h(3), #s(3), s(3), #ɹ(3), #p^h(2), #d(2), #n(2), s(2), #l(2), t(2), #k(2), #g(2), #dʒ, θ, #z, z, #ʃ, #dʒ, z, #z, #ʃ, #j, ɲ** (130)

ɪ(13), a(13), æ(9), ə(6), ε(6), ʌ(5), #ε(4), #æ(4), #a(4), i^j(3), #ə(3), #i^j(2), u^w(2), e^j(2), o^w(2), #ə(2), #a^j(2), #ɪ, ə, ε, œ, ɔ, #ʌ, a^j, #a (90)

Second Syllable Segment: **ɹ(19), t(11), d#(11), s(11), n(8), ʔ#(7), g(7), n#(6), k(6), p(5), b(5), f(5), l(5), t#(4), d(4), ʃ(4), k#(4), f#(3), t^h(3), r(3), ʃ#(3), ɹ#(3), j(3), m#(2), ʔ#(2), k^h(2), ŋ(2), h(2), p^h, p#, m, ʔ#(2), f:ɪ, v, dz, tʃ, ʃ, dʒ, ʔ, ɪ, ʊ, s#, z, ɫ** (167)

ɪ(13), ə(9), u^w(8), æ(8), a(7), ə(6), i^j(3), i^j(3), o^w#(3), e^j(2), ə#(2), ε(2), i, i#, i#, e^j#, o^w, ə#, ʌ, ɔ, a^w, a^j, a# (77)

Third Syllable Segment: **n(4), ɹ(4), t(3), ʔ#(3), b(2), d(2), n#(2), ʃ(2), l(2), g(2), p, p^h, ʔ#(2), t#, d#, r, s, s#, z, ɹ, ɹ#, ɹ#, k^h#, ŋ#** (39)

ə(4), i^j(3), ɪ(3), e^j(2), i^j#, u^w#, e^j#, o^w#, ə#, ə, ε, æ, a^w (21)

Fourth Syllable Segment: **n(2), m, v#, t, d, d#, d^h#, r, s:ɪ, ɫ, j, k#** (13)

ə#(4), ɪ, e^j, ə, ε, a (9)

Fifth Syllable Segment:

Segment Stressed and Unstressed Total

Stressed Segment: **ɹ(29), k(14), n(10), s(9), #s(8), t(7), l(7), #b(5), d#(5), m(4), #f(4), #k^h(4), #w(4), #t^h(3), ŋ(3), #h(3), #v(2), t^h(2), t#(2), #ɹ(2), #l(2), ɫ(2), k^h(2), g(2), #p^h, p^h, p, b, #m, m#, f:ɪ, f, d, #dʒ, #n, ɪ, #z, z, #ʃ, #j, #g** (152)

æ(15), a(14), ɪ(10), ε(8), ʌ(6), i^j(4), u^w(4), e^j(4), #æ(4), o^w(3), #a(3), #ə(2), #a^j(2), #i^j, i#, #ɪ, ə, #ε, ɔ, #ʌ, a^j, a^w, a# (89)

Unstressed Segment: **ɹ(14), t(11), n(10), d#(8), n#(8), s(8), ʔ#(8), l(7), k(7), g(7), b(6), d(6), ʃ(6), p(5), ʔ#(5), r(5), k#(5), f(4), j(4), f#(3), t#(3), #s(3), z(3), ʃ#(3), ɹ#(3), #m(2), ʔ#(2), #f(2), #d(2), s#(2), ɫ(2), ʔ(2), #k(2), h(2), p^h, #p^h, p#, m, m#, v, #v, v#, t^h, d^h#, dz, tʃ, ʃ, dʒ, #dʒ, #n, ʔ, ɪ, s:ɪ, #z, #ʃ, #ɹ, ɹ, k^h#, #g, ŋ#, #h** (197)

ɪ(20), ə(20), ə(7), a(7), u^w(6), ə#(6), i^j(5), i^j#(4), o^w#(4), e^j(3), #ə(3), #ε(3), ε(3), æ(3), e^j#(2), ə#(2), i, i#, #i^j, u^w#, œ, ɔ, #a, a^j, a^w, #a (108)

Segment Total (absolute)

Narrow: **ɹ(49), k(25), n(21), t(19), l(18), s(17), d#(15), #s(13), t#(10), k#(9), g(9), #f(8), n#(8), ʔ#(8), b(7), d(7), p(6), m(6), f(6), ʃ(6), #ɹ(6), #k^h(6), #w(6), #p^h(5), #b(5), ʔ#(5), r(5), s#(5), ɫ(5), #h(5), z(4), ʃ#(4), ɹ#(4), j(4), #g(4), m#(3), #m(3), f#(3), #v(3), #t^h(3), t^h(3), #d(3), #j(3), ŋ(3), p^h(2), ʔ#(2), tʃ#(2), #dʒ(2), #n(2), ɪ(2), #z(2), #ʃ(2), #l(2), ʔ(2), #k(2), k^h(2), h(2), p#, f:ɪ, v, v#, d^h#, dz, tʃ, dʒ, dʒ, ʔ, s:ɪ, ɹ, ɹ#, k^h#, g#, ŋ#, χ#** (410)

ɪ(34), a(22), æ(21), ə(20), u^w(12), i^j(11), ε(11), ə(8), e^j(7), ʌ(7), ə#(6), #a(6), #æ(5), i^j#(4), o^w#(4), ə#(4), #ε(4), a^j(4), a^w(4), #i^j(3), o^w(3), #ə(3), u^w#(2), e^j#(2), ɔ(2), #a^j(2), a#(2), i, i#, i#, #ɪ, ε^j, œ, #ʌ, #a (221)

Broad: **ɹ(60), k(45), n(37), s(36), t(35), d(26), l(20), f(18), ɫ(16), p(14), m(14), g(14), b(12), ʃ(12), j(7), h(7), z(6), w(6), v(5), r(5), dʒ(4), ŋ(4), tʃ(3), ɪ(2), dz, χ** (410)

ɪ(35), a(30), ə(29), æ(26), i(20), ε(16), u(14), ə(12), a(11), e(9), ʌ(8), o(7), ɔ(2), ɪ, œ (221)

631 total segments

Supra-Segments: Consonant Clusters

Consonant Cluster Total for Stressed and Unstressed Syllables and Monosyllables according to Syllable Configuration

Monosyllable Consonant Cluster Onset (all entries are word initial): **#p^hl, #fɹ, #dɹ, #stɹ, #sl, #kɹ, #k^hl, #gɹ, #gl** (9)

Monosyllable Consonant Cluster Coda (all entries are word final): **kt#(3), mt#, ft#, ɫns#, ks#** (7)

First Syllable Consonant Cluster Stressed Onset (all entries are word initial): **#k^hɹ(3), #sk(2), #p^hl, #bl, #bɹ, #fɹ, #skɹ, #stɹ, #st, #gɹ** (13)

First Syllable Consonant Cluster Stressed Coda: **ɹt, ks** (2)

First Syllable Consonant Cluster Unstressed Onset (all entries are word initial): **#fl, #fɹ, #kl, #gl** (4)

First Syllable Consonant Cluster Unstressed Coda: ɹk (1)

Second Syllable Consonant Cluster Stressed Onset: st(2), tʰɹ, sp, stɹ, sk, kʰɹ (7)

Second Syllable Consonant Cluster Stressed Coda: nd#(2), nt#, st#, ŋk (5)

Second Syllable Consonant Cluster Unstressed Onset: stɹ (1)

Second Syllable Consonant Cluster Unstressed Coda: ŋs#, ɬd#, ɬd# (3)

Third Syllable Consonant Cluster Stressed Onset:

Third Syllable Consonant Cluster Stressed Coda:

Third Syllable Consonant Cluster Unstressed Onset: tɹ, st (2)

Third Syllable Consonant Cluster Unstressed Coda:

Fourth Syllable Consonant Cluster Stressed Onset:

Fourth Syllable Consonant Cluster Stressed Coda:

Fourth Syllable Consonant Cluster Unstressed Onset:

Fourth Syllable Consonant Cluster Unstressed Coda: ɬd# (1)

Fifth Syllable Consonant Cluster Stressed Onset:

Fifth Syllable Consonant Cluster Stressed Coda:

Fifth Syllable Consonant Cluster Unstressed Onset:

Fifth Syllable Consonant Cluster Unstressed Coda:

Consonant Cluster Total for Stressed and Unstressed Onsets and Codas

Stressed Onset: #kʰɹ(3), #sk(2), st(2), #pʰl, #bl, #bɹ, #fɹ, tʰɹ, sk, #skɹ, #stɹ, stɹ, sp, #st, kʰɹ, #gɹ (20)

Stressed Coda: nd#(2), nt#, st#, ɹt, ks, ŋk (7)

Unstressed Onset: #fl, #fɹ, tɹ, st, stɹ, #kl, #gl (7)

Unstressed Coda: ɬd#(3), ŋs#, ɹk (5)

Consonant Cluster Total for Onsets and Codas

Onset: #fɹ(3), #kʰɹ(3), #pʰl(2), #sk(2), #stɹ(2), stɹ(2), st(2), #gɹ(2), #gl(2), #bl, #bɹ, #fl, tʰɹ, tɹ, #dɹ, sk, #skɹ, sp, #st, st, #sl, kʰɹ, #kɹ, #kʰl, #kl (36)

Coda: ɬd#(3), kt#(3), nd#(2), mt#, ft#, nt#, ns#, st#, ɹt, ɹk, ɬns#, ks, ks#, ŋk (19)

Consonant Cluster Total for Stressed and Unstressed Syllables and Monosyllables

Monosyllable Consonant Cluster: kt#(3), #pʰl, mt#, #fɹ, ft#, #dɹ, #stɹ, #sl, ɬns#, #kɹ, #kʰl, ks#, #gɹ, #gl (16)

First Syllable Consonant Cluster Stressed: #kʰɹ(3), #sk(2), #pʰl, #bl, #bɹ, #fɹ, #skɹ, #stɹ, #st, ɹt, ks, #gɹ (15)

First Syllable Consonant Cluster Unstressed: #fl, #fɹ, ɹk, #kl, #gl (5)

Second Syllable Consonant Cluster Stressed: nd#(2), st(2), tʰɹ, nt#, sp, stɹ, sk, st#, kʰɹ, ŋk (12)

Second Syllable Consonant Cluster Unstressed: ŋs#, stɹ, ɬd#, ɬd# (4)

Third Syllable Consonant Cluster Stressed:

Third Syllable Consonant Cluster Unstressed: tɹ, st (2)

Fourth Syllable Consonant Cluster Stressed:

Fourth Syllable Consonant Cluster Unstressed: ɬd# (1)

Fifth Syllable Consonant Cluster Stressed:

Fifth Syllable Consonant Cluster Unstressed:

Consonant Cluster Total per Syllable

First Syllable Consonant Cluster: #kʰɹ(3), #fɹ(2), #sk(2), #pʰl, #bl, #bɹ, #fl, #skɹ, #stɹ, #st, ɹt, ɹk, ks, #kl, #gl, #gɹ (20)

Second Syllable Consonant Cluster: nd#(2), st(2), stɹ(2), tʰɹ, nt#, ŋs#, sp, sk, st#, ɬd#, ɬd#, kʰɹ, ŋk (16)

Third Syllable Consonant Cluster: **tʲ, st** (2)

Fourth Syllable Consonant Cluster: **ʈd#** (1)

Fifth Syllable Consonant Cluster:

Consonant Cluster Stressed and Unstressed Total

Consonant Cluster Stressed: #kʰʲ(3), nd#(2), #sk(2), st(2), #pʰl, #bl, #bʲ, #fʲ, tʰʲ, nt#, #skʲ, sk, #stʲ, stʲ, #st, st#, sp, ʲt, kʰʲ, ks, #gʲ, ŋk (27)

Consonant Cluster Unstressed: ʈd#(2), #fl, #fʲ, tʲ, ŋs#, stʲ, st, ʲk, ʈd#, #kl, #gl (12)

Consonant Cluster Total (absolute)

Narrow: #fʲ(3), st(3), #kʰʲ(3), kt#(3), #pʰl(2), nd#(2), #sk(2), #stʲ(2), stʲ(2), ʈd#(2), #gʲ(2), #gl(2), #bl, #bʲ, mt#, ft#, #fl, tʰʲ, tʲ, #dʲ, nt#, ŋs#, sk, #skʲ, #st, st#, sp, #sl, ʲt, ʲk, ʰns#, ʈd#, #kl, #kʰl, kʰʲ, ks, #kʲ, ks#, ŋk (55)

Broad: st(5), kʲ(5), stʲ(4), fʲ(3), sk(3), ʈd(3), kt(3), pl(2), tʲ(2), nd(2), kl(2), ks(2), gʲ(2), gl(2), bl, bʲ, mt, ft, fl, dʲ, nt, ns, skʲ, sp, sl, ʲt, ʲk, ʰns, ŋk (55)

55 total consonant clusters

Supra-Segments: Whole Syllables

Whole Syllable Total for Stressed and Unstressed Syllables and Monosyllables

Monosyllable Whole Syllable:

#iʲkt#, #pʰiʲkt#, #fʲiʲg#,
#juʷ#, #kʰluʷkt#, #gʲjuʷd#,
#pʰɪns#, #slɪtʃ#, #jɪks#, #wɪft#,
#dʲɛʰ#,
#jʌχ#,
#æk#, #pʰlæm#, #kʰræk#, #hædʒ#,
#ɹaʲd#, #ɹaʷk#, #glɑʲs#, #waʷf#,
#aʲ#, #aʲk#, #fa#, #stʲamt# (24)

First Syllable Whole Syllable Stressed (all entries are word initial):

#woʷ(2), #ə(2), #tʰɛʲ(2), #æk(2),
#iʲ, #ɹiʲn,
#su, #huʷ,
#ɪn, #fʲɪm, #fʲɪ, #vɪŋ, #dʒɪ, #slɪ, #stɪ,
#bleʲ, #bɹeʲ,
#nə,
#ɛks, #pʰlɛk, #mɛθ, #fɛ, #kʰɹɛ,
#ʌn, #flʌ, #skʲʌ, #kʰʌm, #wʌ, #wʌn,
#fɔʲ,
#æ, #æz, #væʈ, #tʰæ, #skʰæ, #zæ, #ɹæk, #læm, #kʰɹæ, #gʲæs,
#aʲ, #aʲk, #jaʲ,
#a, #aʲ, #aʲt, #ba, #ban, #baʈ, #skaʲ, #saʲ, #stʲa, #laʲ, #kʰaʲ, #kʰɹa, #hak, #ha (61)

First Syllable Whole Syllable Unstressed (all entries are word initial):

#ə(3), #dɪs(2), #sɪ(2), #ɛk(2),
#iʲ, #pʰiʲ, #ɹiʲ,
#vɪ, #nɪ, #glɪk,
#fə, #sə, #zə, #fə, #kən, #hə,
#ɛs, #dʒɛ,
#flæ,
#mæz,
#a,
#aʲk, #maʲ, #kla (29)

Second Syllable Whole Syllable Stressed:**tin#(2),**

tʰɪɪd#, ɪɪfɪ:#, liɪd#, hi#,

ɪi#,

tʰuʷ, guʷ,

mɪnt#, tɪ, stɪŋk, ɪŋ,

feɪ, stueɪ,

ɪoʷ,

dɛɪ, kɛɪ,

ɪɒnd#,

spæn, sæn, ɹænd#, læst#, kʰɪæm#, gæ,

staʷd#,

ba, ska, la, kʰa# (30)

Second Syllable Whole Syllable Unstressed:**pəɪ#(2),**

pɪf#, zɪɪ#, ɪɪɪ#, jɪɪ#,

pʰuʷk#, duʷn#, tʃuʷ, ʃuʷf#, ɪuʷ#, ɪuʷk#,

bɪf#, tɪn#, vɪtʃ#, dʒɪp#, sɪk#, lɪt#, gɪf#,

stueɪ#,

foʷ#, noʷ#, goʷ#,

bɪə, fəŋ#, fəɪ#, tʰə, təŋ#, nə, nəf#, rəɪ#, rəɪd#, ɵəɪ#, səŋ#, ʃə#, ɹəɪ#, ɹəŋs#, læf#, kəɪ#, kə, kə#, gəɪd#, həm#,

pə#, bəd, fə, təd#, də, rə#, ʃə, gə, gəd#,

təɪd#,

ʃæn#, jæk#,

ɹaɪt#,

baɪ#, dɪaɪ#, dʒaɪ#, san# (60)

Third Syllable Whole Syllable Stressed:**pʰæ (1)****Third Syllable Whole Syllable Unstressed:**

nɪɪ, ɪɪɪ#, ɪɪɪ, gɪɪ,

nuʷ#,

ɪn#, nɪkʷ#, ɪŋ#,

neɪt#, leɪ#, geɪ,

toʷ#,

pəd#, bəɪ#, tʰə#, də, rəŋ#, stəŋ#, zəŋ#, ʃəŋ#, ʃəs#, lə,

də,

rɪɛ,

baʷn# (25)

Fourth Syllable Whole Syllable Stressed:**Fourth Syllable Whole Syllable Unstressed:****ə#(2),**

tɪv#,

meɪk#,

nə#, rədʷ#, jə#,

nɛsɪ:#,

dɑɪd# (9)

Fifth Syllable Whole Syllable Stressed:**Fifth Syllable Whole Syllable Unstressed:**

Whole Syllable Total per Syllable

First Syllable Whole Syllable (all entries are word initial):

#ə(3), #ɪɪ(2), #dɪs(2), #sɪ(2), #woʷ(2), #ə(2), #ɛk(2), #tʰɛɪ(2), #æk(2),

#p^hi, #ɹi, #ɹiⁿ,
 #su, #hu^w,
 #ɪn, #fɪm, #fɪ, #vɪŋ, #vɪ, #dʒɪ, #nɪ, #slɪ, #stɪ, #glɪk,
 #bleⁱ, #bleⁱ,
 #fə, #sə, #zə, #fə, #kən, #hə,
 #nə,
 #eks, #es, #p^hlek, #mɛθ, #dʒɛ, #fɛ, #k^hɪɛ,
 #flœ,
 #ʌn, #flʌ, #skʌʌ, #k^hʌm, #wʌ, #wʌn,
 #fɔʌ,
 #æ, #æz, #mæz, #væt, #t^hæ, #sk^hæ, #zæ, #jæk, #læm, #k^hɪæ, #gɪæs,
 #a, #aⁱ, #a^k, #jaⁱ,
 #a, #aɪ, #aɪt, #aɪk, #ba, #ban, #bat, #maɪ, #skaɪ, #saɪ, #stɪa, #laɪ, #k^haɪ, #k^hɪa, #kla, #hak, #ha (90)

Second Syllable Whole Syllable:

ɪn#(2), p^ə#(2),

pɪf#, t^hɪp^d#, zɪⁱ#, ɹɪⁱ#, ɹɪfɪ^ɹ#, lɪ^d#, jɪⁱ#, hɪ#,
 ɹɪⁱ#,
 p^hu^wk#, t^hu^w, du^wn#, tʃu^w, ʃu^wf#, ɹu^w#, ɹu^wk#, gu^w,
 bɪf#, mɪnt#, ɪn#, vɪtʃ#, tɪ, dʒɪp#, sɪk#, stɪŋk, ɹɪŋ, lɪt#, gɪf#,
 feⁱ, stueⁱ#, stueⁱ,
 fo^w#, no^w#, ɹo^w, go^w#,
 bⁱə, fəŋ#, fəⁱ#, t^hə, rəŋ#, nə, nəf#, rəⁱ#, rəⁱd#, θəⁱ#, səŋ#, fəⁱ#, ɹəⁱ#, ɹəŋs#, ləf#, kəⁱ#, kə, kə#, gəⁱd#, həm#,
 pəⁱ#, bəⁱd, fəⁱ, təⁱd#, dəⁱ, rəⁱ#, fəⁱ, gəⁱ, gəⁱd#,
 deɪ, keɪ,
 ɹʌnd#,
 tɔⁱd#,
 spæn, sæn, fæn#, ɹænd#, læst#, jæk#, k^hɪæm#, gæ,
 stə^wd#, ɹəⁱt#,
 ba, baɪ#, dɹaɪ#, dʒaɪ#, san#, ska, la, k^ha# (90)

Third Syllable Whole Syllable:

nɪⁱ, ɹɪⁱ#, ɹɪⁱ, gɪⁱ,
 nu^w#,
 ɪn#, nɪk^ɪ#, ɹɪŋ#,
 neⁱt#, leⁱ#, geⁱ,
 to^w#,
 pəd#, bəⁱ#, tɪə#, də, rəŋ#, stəŋ#, zəŋ#, fəŋ#, fəs#, lə,
 də,
 rɪɛ,
 p^hæ,
 ba^wn# (26)

Fourth Syllable Whole Syllable:

ə#(2),

ɪv#,
 meⁱk#,
 nə#, rəd^ɪ#, jə#,
 nɛsɪ^ɪ#,
 dətɪd# (9)

Fifth Syllable Whole Syllable:

Whole Syllable Stressed and Unstressed Total

Whole Syllable Stressed:

ɪn#(2), #wo^w(2), #ə(2), #t^hɛɪ(2), #æk(2),
 #ɪⁱ, t^hɪp^d#, #ɹɪⁱn, ɹɪfɪ^ɹ#, lɪ^d#, hɪ#,
 ɹɪⁱ#,

tʰuʷ, #su, guʷ, #huʷ,
 #ɪn, mɪntʃ, #fɪɪm, #fɪɪ, #vɪŋ, tɪ, #dʒɪ, #sɪɪ, #stɪ, stɪŋk, ɪŋ,
 #bleɪ, #bɪeɪ, feɪ, stɪeɪ,
 ɪoʷ,
 #nə,
 #eks, #pʰlɛk, #mɛθ, dɛɪ, #fɛ, kɛɪ, #kʰɪɛ,
 #ʌn, #flʌ, #skɪʌ, ʌndʃ, #kʰʌm, #wʌ, #wʌn,
 #ɔɪ,
 #æ, #æz, pʰæ, #væɫ, #tʰæ, #skʰæ, spæn, sæn, #zæ, #ɪæk, ɹændʃ, læstʃ, #læm, #kʰɪæ, kʰɪæmʃ, gæ, #gɪæʃ,
 #aɪ, #aɪk, staʷdʃ, #jaɪ,
 #a, #aɪ, #aɪt, #ba, ba, #ban, #baɫ, #skaɪ, ska, #saɪ, #stɪa, la, #laɪ, #kʰaɪ, kʰaʃ, #kʰɪa, #hak, #ha (92)

Whole Syllable Unstressed:

#ə(5), ɪɪʃ(2), #dɪs(2), #sɪ(2), pʰɪʃ(2), dʌ(2), #ɛk(2),
 #ɪ, pɪʃʃ, #pʰɪɪ, nɪɪ, zɪɪʃ, #ɪɪɪ, ɪɪɪ, ʃɪɪʃ, gɪɪ,
 pʰuʷkʃ, duʷnʃ, tʃuʷ, nuʷʃ, ʃuʷfʃ, ɹuʷʃ, ɹuʷkʃ,
 ɪnʃ, bɪʃʃ, tɪnʃ, #vɪ, vɪʃʃ, tɪvʃ, dʒɪpʃ, #nɪ, nɪkʷʃ, sɪkʃ, ɪŋʃ, lɪtʃ, gɪʃʃ, #gɪɪk,
 meɪkʃ, neɪtʃ, stɪeɪʃ, leɪʃ, geɪ,
 foʷʃ, toʷʃ, noʷʃ, goʷʃ,
 pədʃ, bɪə, bɪʃʃ, #fə, fəŋʃ, fəɪʃ, tʰə, təŋʃ, tɪəʃ, də, nə, nəʃ, nəfʃ, rəɪʃ, rəɪdʃ, rəŋʃ, rədʷʃ, ɵɪʃʃ, səŋʃ, #sə, stəŋʃ, zəŋʃ, #zə, ʃəŋʃ, ʃəsʃ, #ʃə,
 ʃəʃ, ɹəɪʃʃ, ɹəŋʃʃ, lə, ləfʃ, jəʃ, kəɪʃ, #kən, kə, kəʃ, gəɪdʃ, #hə, həmʃ,
 pəʃ, bəd, fə, tədʃ, #nə, rəʃ, ʃə, gə, gədʃ,
 #ɛs, #dʒɛ, nɛsɪʃ, rɪɛ,
 #flœ,
 tɔɪdʃ,
 #mæz, ʃænʃ, jækʃ,
 #a, baʷnʃ, ɹaɪtʃ,
 #aɪk, baɪʃ, #maɪ, dɪaɪʃ, daɪdʃ, dʒaɪʃ, sanʃ, #kla (123)

Whole Syllable Total (absolute)

Narrow:

#ə(5), tɪnʃ(3), #ɪɪʃ(2), ɪɪʃʃ(2), #dɪs(2), #sɪ(2), #woʷ(2), pʰɪʃʃ(2), #ə(2), dʌ(2), #ɛk(2), #tʰɛɪ(2), #æk(2),
 #ɪkʷtʃ, pɪʃʃ, #pʰɪɪ, #pʰɪkʷtʃ, #fɪɪgʃ, tʰɪɪdʃ, nɪɪ, zɪɪʃ, #ɪɪɪ, ɪɪɪ, #ɪɪʌ, ɪɪʌfʃ, lɪdʃ, ʃɪɪʃ, gɪɪ, hɪɪ,
 ɪɪʃʃ,
 pʰuʷkʃ, tʰuʷ, duʷnʃ, tʃuʷ, nuʷʃ, #su, ʃuʷfʃ, ɹuʷʃ, #ɹuʷʃ, ɹuʷkʃ, #kʰɪuʷkʷtʃ, #gɪuʷdʃ, guʷ, #huʷ,
 ɪnʃ, #ɪn, #pʰɪɪnsʃ, bɪʃʃ, mɪntʃ, #fɪɪm, #fɪɪ, #vɪŋ, #vɪ, vɪʃʃʃ, tɪ, tɪvʃ, #dʒɪ, dʒɪpʃ, #nɪ, nɪkʷʃ, sɪkʃ, #sɪɪ, #stɪ, stɪŋk, #slɪtʃʃ, ɪŋʃ, ɪŋ, lɪtʃ,
 #jɪksʃ, gɪʃʃ, #gɪɪk, #wɪftʃ,
 #bleɪ, #bɪeɪ, meɪkʃ, feɪ, neɪtʃ, stɪeɪʃ, stɪeɪ, leɪʃ, geɪ,
 foʷʃ, toʷʃ, noʷʃ, ɪoʷ, goʷʃ,
 pədʃ, bɪə, bɪʃʃ, #fə, fəŋʃ, fəɪʃ, tʰə, təŋʃ, tɪəʃ, də, nə, nəʃ, nəfʃ, rəɪʃ, rəɪdʃ, rəŋʃ, rədʷʃ, ɵɪʃʃ, səŋʃ, #sə, stəŋʃ, zəŋʃ, #zə, ʃəŋʃ, ʃəsʃ, #ʃə,
 ʃəʃ, ɹəɪʃʃ, ɹəŋʃʃ, lə, ləfʃ, jəʃ, kəɪʃ, #kən, kə, kəʃ, gəɪdʃ, #hə, həmʃ,
 pəʃ, bəd, fə, tədʃ, #nə, rəʃ, ʃə, gə, gədʃ,
 #eks, #ɛs, #pʰlɛk, #mɛθ, dɛɪ, #dɪɛɪʃʃ, #dʒɛ, nɛsɪʃ, #fɛ, rɪɛ, kɛɪ, #kʰɪɛ,
 #flœ,
 #ʌn, #flʌ, #skɪʌ, ʌndʃ, #jʌʃʃ, #kʰʌm, #wʌ, #wʌn,
 #ɔɪ, tɔɪdʃ,
 #ækʃ, #æ, #æz, pʰæ, #pʰɪæmʃ, #mæz, #væɫ, #tʰæ, #skʰæ, spæn, sæn, #zæ, ʃænʃ, #ɪæk, ɹændʃ, læstʃ, #læm, jækʃ, #kʰɪæ, kʰɪæmʃ,
 #kʰrækʃ, gæ, #gɪæʃ, #hædʒʃ,
 #a, #aɪ, #aɪk, baʷnʃ, staʷdʃ, ɹaɪtʃ, #ɹaɪdʃ, #ɹaɪkʃ, #jaɪ, #glaɪʃʃ, #waʷʃʃ,
 #a, #aɪ, #aɪʃ, #aɪt, #aɪkʃ, #aɪk, #ba, ba, #ban, #baɫ, baɪʃ, #maɪ, #faʃ, dɪaɪʃ, daɪdʃ, dʒaɪʃ, sanʃ, #stɪaɪmʃ, #skaɪ, ska, #saɪ, #stɪa, la,
 #laɪ, #kʰaɪ, kʰaʃ, #kʰɪa, #kla, #hak, #ha (239)

Broad:

ə(5), ɪɪ(4), tɪn(3), æk(3), ɪ(2), ɹu(2), ɪn(2), dɪs(2), sɪ(2), ɪŋ(2), stɪe(2), wo(2), pʰɪʃ(2), nə(2), ʃə(2), kə(2), ə(2), də(2), ɛk(2),
 tɛɪ(2), a(2), aɪ(2),
 aɪk(2), ba(2),
 ɪkt, pɪʃ, pi, pɪkt, fɪɪg, tɪd, nɪ, zɪ, ɪn, ɪɪfʃ, lɪd, ʃɪ, gɪ, hɪ,

ʃɪ,
 puk, tu, dun, tʃu, nu, su, ʃuf, ʃuk, klukt, ɡʊd, gu, hu,
 pɪʔns, bɪʃ, mɪnt, ʃɪm, ʃɪ, vɪŋ, vɪ, vɪʃ, tɪ, tɪv, dʒɪ, dʒɪp, nɪ, nɪkʰ, sɪk, slɪ, stɪ, stɪŋk, slɪʃ, lɪt, jɪks, ɡɪʃ, ɡɪk, wɪʃt,
 ble, bɪe, mek, fe, net, le, ge,
 fo, to, no, ʃo, go,
 pəd, bə, bəʔ, fə, fəŋ, fəʔ, tʰə, təŋ, tɪə, də, nəf, rəʔ, rəʔd, rəŋ, rəd, Өʔ, səŋ, sə, stəŋ, zəŋ, zə, ʃəŋ, ʃəs, ʃəʔ, ʃəŋs, lə, ləf, jə, kəʔ, kən, ɡəʔd, hə, həm,
 pə, bəʔd, fə, təʔd, nə, rə, ʃə, ɡə, ɡəʔd,
 ɛks, ɛs, plɛk, mɛӨ, dɛɪ, dɛʔ, dʒɛ, nɛs, ʃɛ, rɛ, kɛɪ, kɪɛ,
 flœ,
 ʌŋ, flɪ, skɪʌ, ʌnd, jʌʃ, kʌm, wʌ, wʌŋ,
 ʃɔɪ, tɔʔd,
 æ, æz, pæ, plæm, mæz, væʔ, tæ, skæ, spæn, sæn, zæ, ʃæn, jæk, jænd, læst, læm, jæk, kɪæ, kɪæm, kræk, gæ, ɡɪæs, hædʒ,
 ak, ban, stad, ʃat, ʃad, ʃak, ja, glas, wʌʃ,
 a, aɪt, ban, baʔ, baɪ, maɪ, fa, dɪaɪ, daʔd, dʒaɪ, san, stɪamt, skaɪ, ska, saɪ, stɪa, la, laɪ, kaɪ, ka, kɪa, kla, hak, ha (239)

239 total whole syllables

Supra-Segments: Whole Words

Whole Word Total per Word Length

Whole Monosyllables:

eekt [iʔkt], hadge [hædʒ], krak [kʰræk], strahmt [stɪamt], yiks [jɪks], klookt [kʰluʷkt], freeg [ʃɪiʒ], yuh [jʌʃ], ark [aɪk], ak
 [æk], ride [ɪaʔd], roo [ɹuʷ], ahr [aɪ], plam [pʰlæm], glice [ɡlɪʔs], peekt [pʰiʔkt], wowsh [waʷʃ], slich [slɪʃ], wɪʃt [wɪʃt], rouk [ɹaʷk], faw
 [ʃa], pilnse [pʰɪʔns], drale [dɹɛʔ], grood [ɡɹuʷd]

Whole Bisyllables:

FLUHburd [ʃlɪ·bəʔd], HAHKtin [ʰak·tɪn], FRIMtin [ʰɪm·tɪn], YALzee [ʰjaʔ·ziʔ], HAHdoon [ʰa·duʷn], AZnuf [ʰæz·nəʃ], METHruhl
 [ʰmɛӨ·ʃəʔ], SOOpeesh [ʰsu·pɪʃ], SLIHpook [ʰslɪ·pʰuʷk], FORshan [ʰʃɔɪ·ʃæn], AIyee [ʰaʔ·jiʔ], ARbish [ʰaɪ·bɪʃ], WOYak [ʰwoʷ·jæk],
 BLAYgurd [ʰbleʔ·ɡəʔd], ARTfuhn [ʰaɪt·fəŋ], KREhrunce [ʰkʰɹɛ·ʃəŋs], SHEHree [ʰʃɛ·jiʔ], AKsum [ʰæk·səŋ], INstray [ʰɪn·stɪeʔ], BRAYkuh
 [ʰbrəʔ·kə], WODuhr [ʰwoʷ·rə], SKRUHpul [ʰskɪʌ·pəʔ], AHhum [ʰa·həm], VEENGgo [ʰvɪŋ·goʷ], STRAHpul [ʰstɪa·pəʔ], PLEKsik
 [ʰpʰlɛk·sɪk], URLuhf [ʰə·ləʃ], WUHdrahr [ʰwʌ·dɪaɪ], UNlit [ʰʌn·lɪt], TERno [ʰtʰɛɪ·noʷ], ZAvich [ʰzæ·vɪʃ], KRATHul [ʰkʰɹæ·Өʔ], IKetin
 [ʰaʔk·tɪn], NURjip [ʰnə·dʒɪp], BAHlturd [ʰbaʔ·təʔd], URGuld [ʰə·ɡəʔd], SAHRdzahr [ʰsaɪ·dzɪaɪ], EErte [ʰiʔ·ɹaʔt], LAHRgish [ʰlaɪ·ɡɪʃ], FRITul
 [ʰɹɪ·rəʔ], Akul [ʰæ·kəʔ], LAMPur [ʰlæm·pə], BAHNshoof [ʰban·ʃuʷʃ], TAtold [ʰtʰæ·tɔʔd], VALsahn [ʰvæʔ·san], HOOroo [ʰhuʷ·ɹuʷ],
 KRAHduld [ʰkʰɹa·rəʔd], SKARfoe [ʰskaɪ·foʷ], AKbahr [ʰæk·baɪ], REENTun [ʰɹɪn·təŋ], BAHrook [ʰba·ɹuʷk], STIHful [ʰstɪ·fəʔ],

shuhREEF [ʃə·ʰɹiʔfɪ], fleuREU [ʃlœ·ʰɹi], suhRAND [sə·ʰɹænd], klahSTOWD [kla·ʰstaʷd], aHEE [a·ʰhi], reeKRAM [ɹiʔ·ʰkʰɹæm], zuhLAST
 [zə·ʰlæst], fuRUND [ʃə·ʰɹand], vihTREED [vi·ʰtʰɹiʔd], mahrLEED [maɪ·ʰliʔd], eeKAH [iʔ·ʰkʰa], peeMINT [pʰiʔ·ʰmɪnt]

Whole Trisyllables:

RAKshuhnayte [ʰræk·ʃə·neʔt], WUNDurstun [ʰwʌn·də·stəŋ], KAHRnuhree [ʰkʰaɪ·nə·jiʔ], JIHgurboun [ʰdʒɪ·ɡə·baʷn], TAIRshureeng
 [ʰtʰɛɪ·ʃə·ɹɪŋ], GRASyoulay [ʰɡɪæs·tʃuʷ·leʔ],

disROWduhn [dɪs·ʰɹoʷ·rəŋ], arkTOOwin [aɪk·ʰtuʷ·ɪn], huhFAYshus [hə·ʰfeʔ·ʃəs], uhLAHpuid [ə·ʰla·pəʔd], uhBAHtruh [ə·ʰba·tɪə],
 disKERToe [dɪs·ʰkɛɪ·toʷ], mazGOObul [mæz·ʰɡuʷ·bəʔ], esTINik [ɛs·ʰtɪ·nɪkʰ], jesTINKshun [dʒɛ·ʰstɪŋk·ʃəŋ], kuhnDERnoo [kən·ʰdɛɪ·nuʷ],
 uhGAZuhm [ə·ʰɡæ·zəŋ]

Whole Tetrasyllables:

SKAtuhrehnes [ʰskʰæ·tʰə·rɪɛ·nɛsɪ], KUMbyuhluhtiv [ʰkʰʌm·bʰə·lə·tɪv], EKsfurgaytud [ʰɛks·fə·geʔ·rədʰ],

ekSPANduhmayke [ɛk·ʰspæn·də·meʔk], glikSANDurdahld [ɡɪk·ʰsæn·də·daʔd], ekSTRAYneeh [ɛk·ʰstɪeʔ·niʔ·jə], sisKAHreeuh
 [sɪ·ʰska·ɹiʔ·ə], sihREENGgheeh [sɪ·ʰɹɪŋ·ɡiʔ·ə],

nihkuhPANnuh [nɪ·kə·ʰpʰæ·nə]

Whole Pentasyllables:

	Syllable Receiving Stress					
	None	First	Second	Third	Fourth	Fifth
Word Length Total						
Monosyllabic: 24						
Bisyllabic: 64	0	52	12			
Trisyllabic: 17	0	6	11	0		
Tetrasyllabic: 9	0	3	5	1	0	
Pentasyllabic: 0	0	0	0	0	0	0
Total: 114	0	61	28	1	0	0

Question ID: Y. the name of the remotest island on earth

Segments

Segment Total for Stressed and Unstressed Syllables and Monosyllables according to Syllable Configuration

Monosyllable Onset: **#b(2), #s(2), l(2), #k^h(2), #w(2)**, p, #p^h, #f, #s:, #f, ʃ (16)Monosyllable Nucleus: **a(3), ɪ(2), o^w*(2), æ(2)**, i^j, o^w, ɔ (12)Monosyllable Coda: **n(2), k#(2)**, b#, t, t#, d#, s#, z, ʃ#, ʌ#, ʃ, t#, ŋ, ŋ# (16)First Syllable Segment Stressed Onset: **#s(7), #l(7), #p^h(5), #k^h(4), #m(3), #f(3), #d(3)**, l(3), **#w(3), #t^h(2), #ʃ(2), #g(2)**, n, #n, #θ, #z, #j, #k, #h (51)First Syllable Segment Stressed Nucleus: **a(9), i^j(8), ɪ(8), æ(5), u^w(4), ε(4), #a(3) #i^j(2), o(2), o^w(2), a^j(2)**, #i, #u^w, e^j, ɔ, #ʌ, ʌ, #a^j (56)First Syllable Segment Stressed Coda: **n(10), ʃ(4), t(3), s(2)**, p, b, d, z, ʒ, k, ŋ (26)First Syllable Segment Unstressed Onset: **#b(6), #s(4), #k^h(4), #d(3), #ʃ(3), #k(3), #m(2), #z(2)**, #f, #t^h, #ð, #f, ʃ, #l, #g, w, #h (36)First Syllable Segment Unstressed Nucleus: **ə(11), ɪ(4), a(4), #a(4), i^j(3), #ə(3), #u^w(2), o^w(2), ε(2)**, u^w, u, #ɪ, ʊ, e, ə, #ε, ɔ, æ, a^w, #a^w (46)First Syllable Segment Unstressed Coda: **n(6), ʃ(2)**, m, t, k (11)Second Syllable Segment Stressed Onset: **l(7), ʃ(6), t^h(3), n(3), s(3), z(3), p^h(2), b(2), d(2), w(2)**, p, m, v, k, k^h, g (39)Second Syllable Segment Stressed Nucleus: **a(7), i^j(6), u^w(4), ɪ(4), æ(3), e^j(2), ε(2)**, eⁱ#, o^w, o, εⁱ, æ^j, a, a^w, a# (36)Second Syllable Segment Stressed Coda: **n(2), ʃ#(2), t#(2)**, t#, t^h#, n#, s#, s, z, ʃ, ʃ, k (15)Second Syllable Segment Unstressed Onset: **s(7), f(6), d(6), l(6), b(5), t(5), k(5), w(4), p^h(3), m(3), ʃ(3), v(2), n(2), z(2), ʃ(2), j(2), g(2)**, p, t^h, dʒ, r, r, k^h, h (73)Second Syllable Segment Unstressed Nucleus: **ə(14), ɪ(6), a(6), əŋ#(4), ε(4), o^w*(3), əʃ#(3), æ(3), i^j(2), i^j*(2), u^w(2), o#(2), əŋ(2), ə#(2), ə(2)**, i, u^w#, eⁱ#, əŋ#, əŋ, æ#, a#, a^j, aⁱ#, a# (67)Second Syllable Segment Unstressed Coda: **n#(5), n(4), d#(3), s#(2), k#(2)**, f#, t#, t^h#, θ#, z#, ʃ#, t (22)Third Syllable Segment Stressed Onset: **d, n, s, z, ʃ, l, k, h** (8)Third Syllable Segment Stressed Nucleus: **e^j(2)**, u^w, o, ə#, ʌ#, ɔ, a^j (8)

Third Syllable Segment Stressed Coda:

Third Syllable Segment Unstressed Onset: **l(6), ʃ(5), t(4), n(4), w(4), s(3), b(2), f(2), r(2), ʃ(2), j(2), k(2)**, m, t^h, d, θ, z, ʒ, g (45)Third Syllable Segment Unstressed Nucleus: **o^w*(6), ə(5), ə#(4), a(4), i^j(3), u^w*(2), e^j*(2), əʃ#(2), əŋ#(2), ə#(2), i^j#, ɪ, ʊ, əʃ, əŋ#, ə, ε, æ, a#** (43)Third Syllable Segment Unstressed Coda: **d#(3), n#(2), t^h#, z#, t, t#, k#** (10)Fourth Syllable Segment Stressed Onset: **t^h** (1)Fourth Syllable Segment Stressed Nucleus: **a** (1)

Fourth Syllable Segment Stressed Coda:

Fourth Syllable Segment Unstressed Onset: **l(3), m(2), ʃ(2), θ, s, ʃ, h** (11)Fourth Syllable Segment Unstressed Nucleus: **ə#(3), ɪ(2), o^w*(2), a(2), a#(2)**, i^j#, i^j, eⁱ#, a# (15)Fourth Syllable Segment Unstressed Coda: **n#(2), s#, ŋ#** (4)

Fifth Syllable Segment Stressed Onset:

Fifth Syllable Segment Stressed Nucleus:

Fifth Syllable Segment Stressed Coda:

Fifth Syllable Segment Unstressed Onset: **ʃ** (1)Fifth Syllable Segment Unstressed Nucleus: **eⁱ#, ə#** (2)

Fifth Syllable Segment Unstressed Coda:

Segment Total for Stressed and Unstressed Onsets and Codas

Stressed Onset: **l(11), #s(7), ʃ(7), #l(7), #p^h(5), n(5), t^h(4), s(4), z(4), #k^h(4), #m(3), #f(3), #d(3), d(3), #w(3), p^h(2), b(2), #t^h(2), #ʃ(2), k(2), #g(2), w(2)**, p, m, v, #n, #θ, #z, , #j, #k, k^h, g, #h, h (99)Stressed Coda: **n(12), ʃ(5), s(3), t(3), z(2), ʃ#(2), t#(2), k(2)**, p, b, t#, t^h#, d, n#, s#, ʃ, ʒ, ŋ (41)

Unstressed Onset: l(15), ɹ(12), s(11), t(9), w(9), f(8), b(7), d(7), k(7), #b(6), m(6), n(6), #s(4), ʃ(4), j(4), #k^h(4), p^h(3), #d(3), r(3), z(3), #ɹ(3), #k(3), g(3), #m(2), v(2), t^h(2), θ(2), #z(2), h(2), p, #f, #t^h, dʒ, r, #ð, #ʃ, ʒ, #l, l^j, k^h, #g, #h (165)

Unstressed Coda: n(10), n#(9), d#(6), ɹ(4), s#(3), t(3), k#(3), t^ˈ#(2), z#(2), m, f#, t#, θ#, ɹ#, t#, k, ɹ# (50)

Segment Total for Onsets and Codas

Onset: l(28), ɹ(20), s(15), #s(13), n(11), w(11), #k^h(10), b(9), t(9), k(9), #b(8), f(8), #l(8), m(7), z(7), #p^h(6), t^h(6), #d(6), p^h(5), #m(5), #f(5), #ɹ(5), #w(5), ʃ(4), j(4), #k(4), g(4), p(3), v(3), #t^h(3), r(3), #z(3), #g(3), h(3), θ(2), #ʃ(2), k^h(2), #h(2), d(10), dʒ, #n, r, #θ, #ð, #sɹ, ʒ, l^j, #j (280)

Coda: n(24), n#(10), ɹ(10), d#(7), ɹ#(7), t(6), s#(5), k#(5), t#(4), t#(3), t^ˈ#(3), s(3), z(3), k(3), z#(2), ɹ(2), ɹ#(2), p, b, b#, m, f#, t, d, θ#, ʃ, ʒ (107)

Segment Total for Stressed and Unstressed Syllables and Monosyllables

Monosyllable Segment: #b(2), n(2), #s(2), ɹ(2), l(2), #k^h(2), k#(2), #w(2), ɹ(2), o^w#(2), æ(2), p, #p^h, b#, #f, t, t#, d#, s#, #sɹ, z, ʃ#, #ʃ, ɹ#, t#, ɹ, ɹ# (41)

a(3), ɪ(2), o^w#(2), æ(2), i^j, o^w, ɔ (12)

First Syllable Segment Stressed: n(11), #s(7), #l(7), #p^h(5), ɹ(4), #k^h(4), #m(3), #f(3), #d(3), l(3), t(3), #w(3), #t^h(2), s(2), #ɹ(2), #g(2), p, b, d, #n, #θ, #z, z, ʒ, #j, #k, k, ɹ, #h (77)

a(9), i^j(8), ɪ(8), æ(5), u^w(4), ε(4), #a(3), #i^j(2), o(2), o^w(2), a^j(2), #i, #u^w, e^j, ɔ, #Λ, Λ, #a^j (56)

First Syllable Segment Unstressed: #b(6), n(6), #s(4), #k^h(4), #d(3), #ɹ(3), ɹ(3), #k(3), #m(2), #z(2), m, #f, #t^h, #ð, #ʃ, #l, t, k, #g, w, #h (47)

ə(11), ɪ(4), a(4), #a(4), i^j(3), #ə(3), #u^w(2), o^w(2), ε(2), u^w, u, #ɪ, ʊ, e, ə, #ε, ɔ, æ, a^w, #a^w (46)

Second Syllable Segment Stressed: ɹ(7), l(7), n(5), s(4), z(4), t^h(3), p^h(2), b(2), d(2), ɹ#(2), t#(2), k(2), w(2), p, m, v, t#, t^ˈ#, n#, s#, ʃ, k^h, g (54)

a(7), i^j(6), u^w(4), ɪ(4), æ(3), e^j(2), ε(2), eⁱ#, o^w, o, ε^j, æ^j, a, a^w, a# (36)

Second Syllable Segment Unstressed: s(7), f(6), d(6), n(6), l(6), b(5), t(5), n#(5), k(5), ə#(4), w(4), p^h(3), m(3), d#(3), ɹ(3), ɹ#(3), v(2), ə#(2), s#(2), z(2), ʃ(2), j(2), k#(2), g(2), p, ə##, ə#, f#, t^h, t#, t^ˈ#, dʒ, r, r, θ#, z#, ɹ#, t, k^h, h (106)

ə(14), ɪ(6), a(6), ε(4), o^w#(3), æ(3), i^j(2), i^j#(2), u^w(2), o#(2), ə#(2), ə(2), i, u^w#, e^j#, æ#, a#, a^j, a^j#, a# (56)

Third Syllable Segment Stressed: d, n, s, z, ɹ, l, k, h (8)

e^j(2), u^w, o, ə#, Λ#, ɔ, a^j (8)

Third Syllable Segment Unstressed: l(6), ɹ(5), t(4), n(4), w(4), d#(3), s(3), b(2), f(2), n#(2), ə#(2), r(2), ʃ(2), ɹ#(2), j(2), k(2), m, ə##, t^h, t^ˈ#, d, θ, z, z#, ʒ, t, t#, ɹ#, k#, g (61)

o^w#(6), ə(5), ə#(4), a(4), i^j(3), u^w#(2), e^j#(2), ə#(2), a#(2), i^j#, ɪ, ʊ, ə, ε, æ, a# (37)

Fourth Syllable Segment Stressed: t^h (1)

a (1)

Fourth Syllable Segment Unstressed: l(3), m(2), n#(2), ɹ(2), θ, s, s#, l^j, ɹ#, h (15)

ə#(3), ɪ(2), o^w#(2), a(2), a#(2), i^j#, i^j, eⁱ#, a# (15)

Fifth Syllable Segment Stressed:

Fifth Syllable Segment Unstressed: ɹ (1)

eⁱ#, ə# (2)

Segment Total by Syllable

First Syllable Segment: n(17), #s(11), #l(8), #k^h(8), ɹ(7), #b(6), #d(6), #p^h(5), #m(5), #ɹ(5), #f(4), ʈ(4), #k(4), #t^h(3), #z(3), l(3), #g(3), #w(3), s(2), k(2), #h(2), p, b, m, d, #n, #θ, #ð, z, #f, ʒ, #j, ŋ, w (124)

a(13), ɪ(12), i^j(11), ə(11), #a(7), ε(6), æ(6), u^w(5), o^w(4), #u^w(3), #ə(3), #i^j(2), o(2), ɔ(2), a^j(2), #i, u, #ɪ, ʊ, e^j, e, ə, #ε, #Λ, Λ, #aⁱ, a^w, #a^w (102)

Second Syllable Segment: l(13), n(11), s(11), ɹ(10), d(8), b(7), k(7), f(6), n#(6), z(6), w(6), p^h(5), t(5), m(4), t^h(4), ʔη#(4), v(3), d#(3), s#(3), ʃ(3), ɹ#(3), ʔ#(3), g(3), p(2), t#(2), t^ˈ#(2), ʔη(2), ʈ#(2), j(2), k^h(2), k#(2), ʔm#, ʔm, f#, dʒ, r, ɹ, θ#, z#, ʈ, h (160)

ə(14), a(13), ɪ(10), i^j(8), u^w(6), ε(6), æ(6), o^w#(3), i^j#(2), e^j#(2), eⁱ(2), o#(2), ə#(2), ʌ(2), a#(2), i, u^w#, o^w, o, ε^j, æ^j, æ#, a, a#, aⁱ, aⁱ#, a^w (92)

Third syllable Segment: l(7), ɹ(6), n(5), t(4), s(4), w(4), d#(3), k(3), b(2), f(2), d(2), n#(2), ʔη#(2), r(2), z(2), ʃ(2), ʔ#(2), j(2), m, ʔm#, t^h, t^ˈ#, θ, z#, ʒ, ʈ, t#, ʔ, k#, g, h (69)

o^w#(6), ə(5), ə#(4), a(4), i^j(3), ʌ#(3), u^w#(2), e^j#(2), eⁱ(2), a#(2), i^j#, u^w, ɪ, ʊ, o, ə, ε, Λ#, ɔ, æ, a#, aⁱ (45)

Fourth Syllable Segment: l(3), m(2), n#(2), ɹ(2), t^h, θ, s, s#, l^j, ŋ#, h (16)

ə#(3), a(3), ɪ(2), o^w#(2), a#(2), i^j#, i^j, e^j#, a# (16)

Fifth Syllable Segment: ɹ (1)

eⁱ#, ə# (2)

Segment Stressed and Unstressed Total

Stressed Segment: n(17), ɹ(12), l(11), #s(7), s(7), #l(7), z(6), #p^h(5), t^h(4), d(4), #k^h(4), k(4), b(3), #m(3), #f(3), #d(3), ʈ(3), #w(3), p^h(2), p(2), #t^h(2), #ɹ(2), ɹ#(2), ʈ#(2), #g(2), w(2), m, v, t, t^ˈ#, #n, n#, #θ, s#, #z, ʃ, ʒ, #j, k^h, #k, g, ŋ, #h, h (140)

a(17), i^j(14), ɪ(12), u^w(9), æ(8), ε(6), e^j(5), o(4), o^w(3), a^j(3), #a(3), #i^j(2), ɔ(2), #i, #u^w, e^j#, ʌ#, ε^j, #Λ, Λ#, Λ, æ^j, #aⁱ, a, a^w, a# (101)

Unstressed Segment: n(16), l(15), ɹ(14), s(11), t(9), n#(9), w(9), f(8), k(8), b(7), m(7), d(7), #b(6), d#(6), ʔη#(6), ʔ#(5), #s(4), ʃ(4), j(4), #k^h(4), p^h(3), #d(3), r(3), s#(3), z(3), #ɹ(3), ʈ(3), #k(3), k#(3), g(3), #m(2), ʔm#(2), v(2), t^h(2), t^ˈ#, ʔη(2), θ(2), z#(2), #z(2), h(2), p, ʔm, f#, #f, #t^h, t#, dʒ, r, θ#, #ð, #f, ʒ, ɹ#, #l, l^j, ʈ#, ʔ, k^h, #g, ŋ#, #h (230)

ə(30), a(16), ɪ(13), o^w#(11), ə#(10), i^j(9), ε(7), e^j#(5), æ(5), a#(5), i^j#(4), ʌ(4), #a(4), u^w(3), u^w#(3), #ə(3), a#(3), #u^w(2), ʊ(2), o#(2), o^w(2), ʌ#(2), i, u, #ɪ, e, #ε, ɔ, æ#, #a^w, aⁱ, aⁱ#, a^w (156)

Segment Total (absolute)

Narrow: n(35), ɹ(28), l(28), s(18), #s(13), d(11), w(11), b(10), t(10), n#(10), z(10), #k^h(10), #b(8), m(8), f(8), #l(8), k(8), d#(7), #p^h(6), t^h(6), #d(6), ʔη#(6), ʈ(6), p^h(5), #m(5), #f(5), s#(5), ʃ(5), #ɹ(5), ʔ#(5), k#(5), #w(5), p(4), ɹ#(4), ʈ#(4), j(4), #k(4), g(4), v(3), #t^h(3), t#(3), t^ˈ#(3), r(3), #z(3), #g(3), h(3), ʔm#(2), ʔη(2), θ(2), z#(2), #f(2), ʒ(2), k^h(2), ŋ#(2), ŋ(2), #h(2), b#, ʔm, f#, dʒ, #n, r, #θ, θ#, #ð, #s:, ʃ#, l^j, ʔ, #j (411)

a(36), ə(30), ɪ(27), i^j(24), æ(15), o^w#(13), ε(13), u^w(12), ə#(10), #a(7), e^j#(6), o^w(6), a#(6), eⁱ(5), i^j#(4), o(4), ʌ(4), ɔ(4), a^j(4), #u^w(3), u^w#(3), #ə(3), ʌ#(3), a#(3), #i^j(2), ʊ(2), o#(2), a^w(2), #i, i, u, #ɪ, e, #ε, ε^j, #Λ, Λ#, Λ, æ^j, æ#, a, #a^w, aⁱ#, #a^j (269)

Broad: n(54), s(37), ɹ(37), l(37), k(29), t(25), d(24), b(19), m(16), ʈ(16), w(16), p(15), z(15), f(14), ʃ(8), g(7), j(5), h(5), θ(4), ŋ(4), v(3), r(3), ʒ(2), dʒ, r, ð (411)

a(49), ə(43), i(32), ɪ(28), o(25), u(19), æ(17), ε(15), a(13), e(12), ʌ(7), ɔ(4), Λ(3), ʊ(2) (269)

680 total segments

Supra-Segments: Consonant Clusters

Consonant Cluster Total for Stressed and Unstressed Syllables and Monosyllables according to Syllable Configuration

Monosyllable Consonant Cluster Onset (all entries are word initial): #fɹ, #spl, #kʰl (3)

Monosyllable Consonant Cluster Coda (all entries are word final): nd#, nt#, ztk#, ɹs#, ŋk# (5)

First Syllable Consonant Cluster Stressed Onset (all entries are word initial): #pʰl, #fl, #sn, #kʰl (4)

First Syllable Consonant Cluster Stressed Coda:

First Syllable Consonant Cluster Unstressed Onset (all entries are word initial): #dɹ, #kʰw (2)

First Syllable Consonant Cluster Unstressed Coda:

Second Syllable Consonant Cluster Stressed Onset: spl, kl (2)

Second Syllable Consonant Cluster Stressed Coda: ks# (2)

Second Syllable Consonant Cluster Unstressed Onset: fl, fɹ, sw, ʃt, kw (5)

Second Syllable Consonant Cluster Unstressed Coda: m̥d#, ŋs#, nz#, ɬd# (4)

Third Syllable Consonant Cluster Stressed Onset:

Third Syllable Consonant Cluster Stressed Coda:

Third Syllable Consonant Cluster Unstressed Onset: **st(2)**, bɹ, gw (4)

Third Syllable Consonant Cluster Unstressed Coda: ɬz#, ɬd (2)

Fourth Syllable Consonant Cluster Stressed Onset:

Fourth Syllable Consonant Cluster Stressed Coda:

Fourth Syllable Consonant Cluster Unstressed Onset:

Fourth Syllable Consonant Cluster Unstressed Coda:

Fifth Syllable Consonant Cluster Stressed Onset:

Fifth Syllable Consonant Cluster Stressed Coda:

Fifth Syllable Consonant Cluster Unstressed Onset:

Fifth Syllable Consonant Cluster Unstressed Coda:

Consonant Cluster Total for Stressed and Unstressed Onsets and Codas

Stressed Onset: #pʰl, #fl, #sn, spl, kl, #kʰl (6)

Stressed Coda: ks# (1)

Unstressed Onset: **st(2)**, bɹ, fl, fɹ, #dɹ, sw, ʃt, kw, #kʰw, gw (11)

Unstressed Coda: m̥d#, ŋs#, nz#, ɬz#, ɬd, ɬd# (6)

Consonant Cluster Total for Onsets and Codas

Onset: **st(2)**, **#kʰl(2)**, #pʰl, bɹ, #fl, fl, #fɹ, fɹ, #dɹ, #sn, sw, #spl, spl, ʃt, kw, kl, #kʰw, gw (20)

Coda: m̥d#, ŋs#, nz#, nd#, nt#, ztk#, ɹs#, ɬz#, ɬd, ɬd#, ks#, ŋk# (12)

Consonant Cluster Total for Stressed and Unstressed Syllables and Monosyllables

Monosyllable Consonant Cluster: #fɹ, nd#, nt#, #spl, ztk#, ɹs#, #kʰl, ŋk# (8)

First Syllable Consonant Cluster Stressed: #pʰl, #fl, #sn, #kʰl (4)

First Syllable Consonant Cluster Unstressed: #dɹ, #kʰw (2)

Second Syllable Consonant Cluster Stressed: spl, kl, ks# (3)

Second Syllable Consonant Cluster Unstressed: m̥d#, fl, fɹ, ŋs#, nz#, sw, ʃt, ɬd#, kw (9)

Third Syllable Consonant Cluster Stressed:

Third Syllable Consonant Cluster Unstressed: **st(2)**, bɹ, ɬz#, ɬd, gw (6)

Fourth Syllable Consonant Cluster Stressed:

Fourth Syllable Consonant Cluster Unstressed:

Fifth Syllable Consonant Cluster Stressed:

Fifth Syllable Consonant Cluster Unstressed:

Consonant Cluster Total per Syllable

First Syllable Consonant Cluster: #p^hl, #fl, #dɹ, #sn, #k^hl, #k^hw (6)

Second Syllable Consonant Cluster: mɔd#, fl, fɹ, ɲs#, nz#, sw, spl, ft, tɔd#, kw, kl, ks# (12)

Third Syllable Consonant Cluster: **st(2)**, bɹ, tɹz#, tɔd, gw (6)

Fourth Syllable Consonant Cluster:

Fifth Syllable Consonant Cluster:

Consonant Cluster Stressed and Unstressed Total

Consonant Cluster Stressed: #p^hl, #fl, #sn, spl, #k^hl, kl, ks# (7)

Consonant Cluster Unstressed: **st(2)**, bɹ, mɔd#, fl, fɹ, #dɹ, ɲs#, nz#, sw, ft, tɔd#, tɹz#, tɔd, kw, #k^hw, gw (17)

Consonant Cluster Total (absolute)

Narrow: **st(2)**, **#k^hl(2)**, #p^hl, bɹ, mɔd#, fl, #fl, fɹ, #fɹ, #dɹ, ɲs#, nz#, nd#, nt#, sw, #sn, spl, #spl, ztk#, ft, ɹs#, tɔd#, tɹz#, tɔd, kw, #k^hw, kl, ks#, gw, ɲk# (32)

Broad: **kl(3)**, **fl(2)**, **fɹ(2)**, **st(2)**, **spl(2)**, **tɔd(2)**, **kw(2)**, pl, bɹ, md, dɹ, ns, nz, nd, nt, sw, sn, ztk, ft, ɹs, tɹz, ks, gw, ɲk (32)

32 total consonant clusters

Supra-Segments: Whole Syllables

Whole Syllable Total for Stressed and Unstressed Syllables and Monosyllables

Monosyllable Whole Syllable:

#fɹɹɹɹɹɹɹ,
#splɹɹɹɹɹɹɹ, #sɹɹɹɹɹɹɹ,
#so^w#, #k^ho^w#, #wo^wɹɹ,
#wɹɹɹɹ,
#fɹænd#, #k^hlænt#,
#p^hɑɹ#, #baɹs#, #bab# (12)

First Syllable Whole Syllable Stressed (all entries are word initial):

#i^j(2), **#p^hɹ(2)**,
#i, #p^hɹɹ, #t^hɹɹ, #dɹɹ, #sɹɹ, #sin, #zɹɹ, #k^hɹɹ, #wɹɹ,
#u^w, #bu^w, #lu^w, #lu^wn, #k^hu^w, #wu^w,
#flɹn, #θɹn, #ɹɹs, #lɹn, #k^hɹ, #hɹn,
#we^j,
#mo^w, #lo, #lo^w, #ko,
#p^hlɹ, #dɹ, #sɹ, #sɹp,
#ɹɹ, #sɹ,
#p^hɹɹ,
#næ, #snæɹ, #sæn, #k^hlæk, #gæs,
#a^jz, #t^ha^j, #ja^j,
#ɑ, #ab, #ɑɹ, #mad, #man, #faɹ, #fa, #dɑɹ, #laɹɹ, #laɹ, #ɹan, #gan (57)

First Syllable Whole Syllable Unstressed (all entries are word initial):

#ə(3), **#ɹɹɹ(2)**, **#u^w(2)**, **#də(2)**, **#ɑ(2)**,
#k^hɹɹ,
#bu^w, #zum,
#ɹɹ, #bɹ, #sɹn, #k^hwɹn, #hɹ,

#fʊ,
 #be,
 #boʷ, #tʰoʷ,
 #bə, #mə, #fə, #dʲə, #ðə, #sə, #ɹə, #kə, #gə,
 #sə,
 #ɛk, #mɛ, #kɛn,
 #lɔ,
 #kʰæn,
 #aʷ, #zaʷ,
 #an, #aɹ, #baɹ, #sa, #kʰan, #ka (45)

Second Syllable Whole Syllable Stressed:

pʰiː, miːʃ, tʰiː, niː, spliːtʰʃ, liː,
 tʰuʷ, ɹuʷ, luʷ,
 nɪ, sɪ, ɹɪ, kʰɪ,
 ɹeː, weːʃ, weː,
 bo, soʷnʃ,
 dɛksʃ, nɛz, zɛtʰʃ,
 zæ, ɹæn, klæːɹʃ, gæn,
 tʰa, laʷ,
 pʰaɹ, vaɹʃ, da, za, ɹatʃ, ɹaʃ, las, latʃ (35)

Second Syllable Whole Syllable Unstressed:

pʰə(2), də(2), sʰə(2), sə(2),
 diː, dʒiːʃ, ri, linʃ, kwiːʃ,
 nuʷʃ, ɹuʷnʃ, kjuʷ,
 tɪkʃ, zɪn, ɹɪnzʃ, lɪtʃ, lɪnʃ, wɪθʃ,
 doʷʃ, soʷʃ, koʃ, goʷʃ, hoʃ,
 pə, bə, bʰəʃ, mən, mə, fʲəʃ, vʰəʃ, nə, ʰəʃ, rə, sʰəʃ, zʰəʃ, ʃtʰəʃ, ʃəsʃ, ləʃ, jə, kʰəʃ, gə,
 fə, də,
 bɛ, mɛdʃ, tʰɛkʃ, tɛn,
 flæʃ, fæ, də, kʰæn,
 baː, taːʃ, taʃ,
 pʰaʃ, bəʃdʃ, faɹʃ, fatʰʃ, swafʃ, lanʃ, wanʃ (67)

Third Syllable Whole Syllable Stressed:

nuʷ,
 deː, heː,
 so,
 lətʃ,
 lʌʃ,
 zɔ,
 ɹaː (8)

Third Syllable Whole Syllable Unstressed:

loʷʃ(2),
 niːʃ, riː, θiːnʃ, ʒiː,
 ɹuʷʃ, juʷʃ,
 stɪkʃ,
 fʊtʃ,
 meːʃ, keːʃ, gweːʃ,
 oʷʃ, toʷʃ, zoʷʃ, ɹoʷʃ,
 ʰəʃ, nə, rə, stəʃ, stə, ʃʰəʃ, ɹəʃ, ləʃ, lə, lʰəʃ, jʰtʃ, kəʃ, kʰəʃ, wʰəʃ,
 fə, dəʃ, kəʃ, wəʃ,
 bɪɛdʃ,
 nə,
 baʃ,
 aʃdʃ, tʰaʃ, nanʃ, ʃaʃ, ɹadʃ, wa (44)

Fourth Syllable Whole Syllable Stressed:t^ha (1)

Fourth Syllable Whole Syllable Unstressed:

ɹi^j#, li^j,
 ɪs#, mɪn#,
 ɹe^j#,
 o^w#, lo^w#,
 ə#, mə#, l^jə#,
 sɑ#,
 θan#, laŋ#, ha# (14)

Fifth Syllable Whole Syllable Stressed:

Fifth Syllable Whole Syllable Unstressed:

ɹe^j#,
 ə# (2)

Whole Syllable Total per Syllable

First Syllable Whole Syllable (all entries are word initial):

#u^w(3), #ə(3), #a(3), #i^j(2), #ɹi^j(2), #k^hi^j(2), #bu^w(2), #p^hɪ(2), #də(2),
 #i, #p^hi^j, #t^hi^j, #dɪ^j, #sɪ^j, #sɪn, #zɪ^j, #wi^j,
 #zum, #lu^w, #lu^wn, #k^hu^w, #wu^w,
 #ɪt, #bɪ, #flɪn, #θɪn, #sɪn, #ɹɪs, #lɪn, #k^hɪ, #k^hwɪn, #hɪ, #hɪn,
 #ʃu,
 #be, #we^j,
 #bo^w, #mo^w, #t^ho^w, #lo, #lo^w, #ko,
 #bə, #mə, #fə, #dɪə, #ðə, #sə, #ɹə, #kə, #gə,
 #sə,
 #ɛk, #p^hɪɛ, #mɛ, #dɛ, #sɛ, #sɛp, #kɛn,
 #ʌt, #sʌ,
 #p^hɔɹ, #ɔ,
 #næ, #snæɹ, #sæn, #k^hlæk, #k^hæn, #gæs,
 #a^w, #a^jz, #t^ha^j, #za^w, #ja^j,
 #ab, #at, #an, #aɹ, #baɹ, #mad, #man, #fat, #fa, #daɹ, #sa, #laɹɜ, #laŋ, #ɹan, #k^han, #ka, #gan (102)

Second Syllable Whole Syllable:

p^hə(2), də(2), s^əŋ#(2), sə(2),
 p^hi^j, mi^jʃ, t^hi^j, dɪ^j, dʒi^j#, ni^j, splɪt^h#, ri, li^j, lin#, kwi^j#,
 t^hu^w, nu^w#, ɹu^wn#, ɹu^w, lu^w, kju^w,
 tɪk#, nɪ, sɪ, zɪn, ɹɪ, ɹɪnz#, lɪt#, lɪn#, k^hɪ, wɪθ#,
 ɹe^j, we^j#, we^j,
 bo, do^w#, so^w#, so^wn#, ko#, go^w#, ho#,
 pə, bə, bəʃ#, mən, mə, fɪə#, vɔŋs#, vɔʃ#, nə, ʔŋ#, rə, sʔŋ#, zʔmɪd#, ʃtʔŋ#, ʃəs#, lə#, jə, kəʃ#, gə,
 fə, də,
 bɛ, mɛd#, t^hɛk#, tɛn, dɛks#, nɛz, zɛʃ#,
 flæ#, fæ, də, zæ, ɹæn, klæɹɹ#, k^hæn, gæn,
 ba^j, t^ha, ta^j#, ta#, la^w,
 p^ha#, p^haɹ, baɪd#, faɹ#, fat^h#, vaɹ#, da, swaf#, za, ɹat#, ɹa#, las, laʃ#, lan#, wan# (102)

Third Syllable Whole Syllable:

lo^w##(2),
 ni^j#, ri^j, θɪn#, ɜɹi^j,
 nu^w, ɹu^w#, ju^w#,
 stɪk#,
 fʊʃ#,
 me^j#, de^j, ke^j#, gwe^j#, he^j,
 o^w#, to^w#, so, zo^w#, ɹo^w#,

ʷəŋ#, nə, rə, stə#, stə, ʃəŋ#, ɹə#, lə#, lə, ləŋ#, lətʰ#, jətʰz#, kə#, kətʰ#, wətʰ#,
 fə-, də-, kə-, wə-#,
 bɹɛd#,
 lɹ#,
 zɔ,
 nə,
 bə#, ɹaʲ,
 aɪd#, tʰa#, nan#, ʃa#, ɹad#, wa (52)

Fourth Syllable Whole Syllable:

ɹiʲ#, liʲ,
 ɪs#, mɪn#,
 ɹeʲ#,
 oʷ#, loʷ#,
 ə#, mə#, lʲə#,
 sa#,
 tʰa, θan#, lan#, ha# (15)

Fifth Syllable Whole Syllable:

ɹeʲ#,
 ə# (2)

Whole Syllable Stressed and Unstressed Total

Whole Syllable Stressed:

#iʲ(2), #pʰɪ(2),
 #i, #pʰiʲ, pʰiʲ, mɪʃ, #tʰiʲ, tʰiʲ, #diʲ, niʲ, #siʲ, #sin, spliʲtʰ#, #ziʲ, liʲ, #kʰiʲ, #wiʲ,
 #uʷ, #buʷ, tʰuʷ, nuʷ, ɹuʷ, luʷ, #luʷ, #luʷn, #kʰuʷ, #wuʷ,
 #flɪn, #θɪn, sɪ, #ɹɪs, ɹɪ, #lɪn, #kʰɪ, kʰɪ, #hɪn,
 deʲ, ɹeʲ, #weʲ, weʲ#, weʲ, heʲ,
 bo, #moʷ, soʷn#, so, #lo, #loʷ, #ko,
 lətʰ#,
 #pʰlɛ, #dɛ, dɛks#, nəz, #sɛ, #sɛp, zɛʲtʰ#,
 #ɹtʰ, #sɹ, lɹ#,
 #pʰɔɹ, zɔ,
 #næ, #snæɹ, #sæn, zæ, ɹæn, klæʲɹ#, #kʰlæk, #gæs, gæn,
 #aʲz, #tʰaʲ, tʰa, ɹaʲ, laʷ, #jaʲ,
 #a, #ab, #aɹ, pʰaɹ, #mad, #man, #faɹ, #fa, vaɹ#, tʰa, da, #daɹ, za, ɹatʰ#, ɹa#, #ɹan, las, latʰ#, #laɹɜ, #lan, #gan (101)

Whole Syllable Unstressed:

loʷ#(3), #ə(3), #ɹiʲ(2), #uʷ(2), ɹeʲ#(2), oʷ#(2), ə#(2), pʰə(2), də(2), #də(2), nə(2), rə(2), sʷə#(2), sə(2), lə#(2), kətʰ#(2),
fə-(2), #a(2),
 diʲ, dʒiʲ#, niʲ#, ri, riʲ, θiʲn#, ɜiʲ, ɹiʲ#, lin#, liʲ, kwiʲ#, #kʰiʲ,
 #buʷ, nuʷ#, #zum, ɹuʷ#, ɹuʷn#, juʷ#, kjuʷ,
 #ɹtʰ, ɪs#, #bɪ, mɪn#, tɪk#, #sɪn, stɪk#, zɪn, ɹɪnz#, lɪtʰ, lɪn#, #kʰwɪn, wɪθ#, #hɪ,
 fʊtʰ#, #fʊ,
 #be, meʲ#, keʲ#, gweʲ#,
 #boʷ, #tʰoʷ, toʷ#, doʷ#, soʷ#, zoʷ#, ɹoʷ#, ko#, goʷ#, ho#,
 pə, bə, bətʰ#, #bə, ʷəŋ#, mən, mə, mə#, #mə, #fə, fɹə#, vʷəŋs#, vʷtʰ#, #dɹə, ʷəŋ#, #ðə, stə#, stə, #sə, sʷəŋ#, zʷəŋd#, ʃtəŋ#, ʃəs#, ʃəŋ#, #ɹə, ɹə#,
 lə, ləŋ#, lʲə#, jə, jətʰz#, kə#, #kə, gə, #gə, wətʰ#,
 də-, də-, #sə-, kə-, wə-#,
 #ɛk, bɛ, bɹɛd#, #mɛ, mɛd#, tʰɛk#, tɛn, #kɛn,
 #ɔ,
 flæ#, fæ, də, nə, kʰæn, #kʰæn,
 #aʷ, ba#, baʲ, taʲ#, ta#, sa#, #zaʷ,
 #an, #aɹ, aɪd#, pʰa#, baɪd#, #baɹ, faɹ#, fatʰ#, tʰa#, nan#, θan#, #sa, swaf#, ʃa#, ɹad#, lan#, lan#, #kʰan, #ka, wa, wan#, ha# (172)

Whole Syllable Total (absolute)

Narrow:

#u^w(3), lo^w(3), #ə(3), #a(3), #i^j(2), #ɪ^j(2), li^j(2), #k^hi^j(2), #bu^w(2), #p^hi(2), ɹe^j(2), o^w(2), ə#(2), p^hə(2), də(2), #də(2), nə(2), rə(2), s^əŋ(2),
sə(2), lə(2), kəʔ(2), fə(2),
#i, #p^hi^j, p^hi^j, mi^jf, #fɪɪ^jf, #t^hi^j, t^hi^j, #di^j, di^j, dʒi^j#, ni^j#, ni^j, ri, ri^j, ʊiⁿ#, #si^j, #sin, split^ʔ#, #zi^j, zi^j, ɹi^j#, lin#, kwi^j#, #wi^j,
t^hu^w, nu^w, nu^w#, #zum, ɹu^w#, ɹu^wn#, ɹu^w, lu^w, #lu^w, #lu^wn, ju^w#, kju^w, #k^hu^w, #wu^w,
#ɪ, ɪs#, #bi, min#, #flin, tɪk#, #θɪn, si, #sin, stɪk#, #splɪŋk#, #sɪztk#, zin, ɹɪnz#, ɹɪs, ɹɪ, lɪt#, #lɪn, lɪn#, #k^hwɪn, #k^hɪ, k^hɪ, wɪθ#, #hɪ,
#hɪn,
fʊʔ#, #fʊ,
#be, me^j#, de^j, ɹe^j, ke^j#, gwe^j#, #we^j, we^j#, we^j, he^j,
#bo^w, bo, #mo^w, #t^ho^w, to^w#, do^w#, so^w#, so, #so^w#, so^wn#, zo^w#, ɹo^w#, #lo, #lo^w, ko#, #ko, #k^ho^w#, go^w#, #wo^wʔ#, ho#,
pə, bə, #bə, bəʔ#, əŋ#, mən, mə, mə#, #mə, #fə, fɹə#, v^əŋs#, v^əʔ#, #dɹə, əŋ#, #ðə, stə#, stə, #sə, s^əŋ#, z^əŋd#, ʃtəŋ#, ʃəs#, ʃəŋ#, #ɹə, ɹə#, ,
l^əŋ#, l^əə#, lət^ʔ#, jə, jəʔz#, kə#, #kə, gə, #gə, wəʔ#,
də, də#, #sə, kə#, wə#,
#ɛk, #p^hɪɛ, be, bɹɛd#, #mɛ, mɛd#, t^hɛk#, tɛn, #dɛ, dɛks#, nɛz, #sɛ, sɛp, zɛʔ#, #kɛn,
#ʌʔ, #sʌ, lʌ#,
#p^hɔɹ, zɔ, #ɪɔ, #wɔŋ#,
flæ#, fæ, də, nə, #næ, #snæɹ, #sæn, zæ, #fænd#, ɹæn, k^hæn, #k^hæn, klæɹɹ#, #k^hlæk, #k^hlænt#, #gæs, gæn,
#a^w, #a^jz, ba#, ba^j, ta^j#, ta#, #t^ha^j, t^ha, sa#, #za^w, ɹa^j, la^w, #ja^j,
#an, #aɹ, #ab, #aʔ, aʔd#, p^ha#, p^haɹ, #p^haɹ#, #baɹs#, #bab#, baʔd#, #baɹ, #mad, #man, faɹ#, fat^ʔ#, #faʔ, #fa, vaɹ#, t^ha#, t^ha, da, #daɹ,
nan#, θan#, #sa, swaf#, za, ʃa#, ɹad#, ɹat#, ɹa#, #ɹan, las, laʔ#, #laɹz, lan#, #lan, lan#, #k^han, #ka, #gan, wa, wan#, ha# (285)

Broad:

lo(5), ə(5), də(4), ta(4), i(3), ɹi(3), u(3), ɹe(3), we(3), so(3), ko(3), pə(3), mə(3), sə(3), lə(3), a(3), pi(2), ti(2), di(2), ni(2),
li(2), ki(2), bu(2), nu(2), ɹu(2), lu(2), pi(2), lɪn(2), ki(2), o(2), to(2), bə(2), nə(2), rə(2), stə(2), s^əŋ(2), ɹə(2), kəʔ(2), kə(2),
gə(2), fə(2), də(2), nə(2), kæn(2), paɹ(2), ta(2), lan(2),
mɪf, fɹɪf, dʒɪ, ri, ri, θɪn, si, sin, split, zi, zi, lin, kwi, wi,
tu, zum, ɹun, lun, ju, kju, ku, wu,
ɪ, ɪs, bi, min, flɪn, tɪk, θɪn, si, sin, stɪk, splɪŋk, sɪztk, zin, ɹɪnz, ɹɪs, ɹɪ, lɪt, kwɪn, wɪθ, hɪ, hɪn,
fʊʔ, fʊ,
be, me, de, ke, gwe, he,
bo, bo, mo, do, son, zo, ɹo, go, woʔ, ho,
bəʔ, əŋ, mən, fə, fɹə, v^əŋs, v^əʔ, dɹə, əŋ, ðə, s^əŋ, z^əŋd, ʃtəŋ, ʃəs, ʃəŋ, l^əŋ, lə, lət, jə, jəʔz, wəʔ,
sə, kə, wə,
ɛk, plɛ, be, bɹɛd, mɛ, mɛd, tɛk, tɛn, dɛ, dɛks, nɛz, sɛ, sɛp, zɛʔ, kɛn,
ʌʔ, sʌ, lʌ,
pɔɹ, zɔ, ɪɔ, wɔŋ,
flæ, fæ, də, snæɹ, sæn, zæ, fænd, ɹæn, klæɹ, klæk, klænt, gæs, gæn,
a, az, ba, ba, sa, za, ɹa, la, ja,
an, aɹ, ab, aʔ, aʔd, pa, baɹs, bab, baʔd, baɹ, mad, man, faɹ, fat, faʔ, fa, vaɹ, da, daɹ, nan, θan, sa, swaf, za, ʃa, ɹad, ɹat, ɹa, ɹan, las, laʔ,
laɹz, lan, kan, ka, gan, wa, wan, ha (285)

285 total whole syllables

Supra-Segments: Whole Words

Whole Word Total per Word Length

Whole Monosyllables:

bahb [bʌb], koh [k^ho^w], shand [ʃænd], so [so^w], freesh [fɹi^jf], pahr [p^haɹ], wole [wo^wʔ], splɪhɪk [splɪŋk], klant [k^hlænt], wong [wɔŋ],
sɪztk [sɪztk], barse [baɹs]

Whole Bisyllables:

POURsun [p^hɔɹ·s^əŋ], EEleen [i·lɪn], SEENtah [sɪn·ta], LAHNGun [lʌŋ·əŋ], LOWhoe [lo·ho], WEEbul [wi^j·bəʔ], KOKo [ko·ko],
WAYfla [we^j·flæ], DEEtehk [di^j·t^hɛk], AHBshtun [ʌb·ʃtəŋ], YAIwahn [ja^j·wan], ALLmed [aʔ·mɛd], EEjee [i^j·dʒi], SNARvunce
[snæɹ·v^əŋs], SANfahr [sæn·faɹ], LOOPah [lu^w·p^ha], LINlit [lɪn·lɪt], FAHLsum [faʔ·səŋ], OOsO [u^w·so^w], KLAKtik [k^hlæk·tɪk],
MAHDSun [mad·səŋ], FAHrinz [fa·ɹɪnz], DEHZuhmd [dɛ·zəŋd], WOODOE [wu^w·do^w], KOOwith [k^hu^w·wɪθ], GASlahn [gæs·lan],
SEHKuhl [sɛ·kəʔ], TEEgo [t^hi^j·go^w], THINluh [θɪn·lə], MAHNtie [man·ta], NAVuhl [næ·vəʔ], LARZHBahld [laɹz·baʔd], EEKwee [i^j·kwi],

PEEswahf ['p^hi·swaf], MOfaht ['mo^w·fat'], SEPshus ['sɛp·fəs], SEEnoo ['si·nu^w], RISlin ['ɹɪs·lɪn], KEEroon ['k^hi·ju^wn], PIHfruh ['p^hɪ·fɹə],

sinKLAIR [sɪn·'klæɹ], reeDEKS [ɹi·'dɛks], booWAY [bu^w·'weɪ], muhSOWN [mə·'so^wn], guhRAHT [gə·'ɹat], ekSPLEET [ɛk·'spliɪt], theLAHL [ðə·'laɪ], shuhRAH [ʃu·'ɹa], zouVAR [za^w·'vaɹ], uhZAIL [ə·'zeɪ]

Whole Trisyllables:

ahntehnoe [an·tɛn·o^w], kahndagway [k^han·dæ·gweɪ],

AHmuhnahn ['a·mə·nan], KENnuhluh ['k^hɪ·nə·lə], PLEHfurtaw ['p^hlɛ·fə·t^ha], EYESbyeyulz ['aɪz·baɪ·jəɪz], GONzinbread ['gan·zɪn·bɹɛd], LOONduhrahd ['lu^wn·də·ɹad], TYkandur ['t^haɪ·k^hæn·də], FLINdurahld ['flɪn·də·ɑɪd], LOWfakul ['lo^w·fæ·kəɪ], SUKyoulow ['sɹ·kju^w·lo^w], RAHNduhlun ['ɹan·də·ləŋ], HINYuhlucht ['hɪn·jə·lət'], DAHRdeeful ['daɹ·di·fuɪ], UHLSuhlow ['ʌɫ·sə·lo^w],

ilNEEzo [ɪɫ·'ni·zo^w], ooMEESHkuh [u^w·'miɹ̃·kə], fuhROOroo [fə·'ju^w·ju^w], bihZAHro [bi·'za·ɹo^w], uhTOOwul [ə·t^hu^w·wəɪ], buhDAHruh [bə·'da·ɹə], druHGANToe [dɹə·'gæn·to^w], kanTEEkur [k^hæn·t^hi·kə], ruhNEZmay [ɹə·'nɛz·meɪ], suhRANtheen [sə·'ɹæn·θiɪn], ooWAYyou [u^w·'weɪ·ju^w], kenTAHwur [kɛn·t^ha·wə], uhLOUum [ə·'la^w·ʊm], kwinZAStik [k^hwɪn·'zæ·stɪk], kahLAHSkay [ka·'las·keɪ], kuhLOOshah [kə·'lu^w·ʃa], duhPAHRstuh [də·'p^haɹ·stə], loRAYshun [lɔ·'ɹeɪ·ʃəŋ], toeLEEnee [t^ho^w·'li·ni], zoomBOHBah [zum·'bo·ba],

barsuhLUH [baɹ·sə·'lɹ]

Whole Tetrasyllables:

ZEEpuhluhtahn ['zi·p^hə·lə·θan], PIGguhnaree ['p^hɪ·gə·næ·ɹi],

suhRIHnuhlahng [sə·'ɹɪ·nə·ləŋ], boeNIHdeeh [bo^w·'ni·ɹi·ə], heePEEzhioe [hi·'p^hi·zi·o^w], ahBOOwahaha [a·'bu^w·wa·ha], reeSIHfuris [ɹi·'si·fə·ɹɪs], ahrKIHDuhmin [aɹ·'k^hɪ·rə·mɪn],

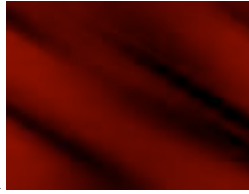
sahmunHEYlo [sa·mə·'heɪ·lo^w], keepuhDAYleeuh [k^hi·p^hə·'deɪ·lə], ahpuhZOray [a·pə·'zɔ·ɹeɪ], bayreeSOSah [be·ri·'so·sa], owbuhNOOmuh [ə^w·bə·'nu^w·mə]

Whole Pentasyllables:

meduhRYEleeuh [mɛ·rə·'ɹaɪ·li·ə],

duhbestuhTAHray [də·bɛ·stə·t^ha·ɹeɪ]

	Syllable Receiving Stress					
	None	First	Second	Third	Fourth	Fifth
Word Length Total						
Monosyllabic: 12						
Bisyllabic: 50	0	40	10			
Trisyllabic: 37	2	14	20	1		
Tetrasyllabic: 13	0	2	6	5	0	
Pentasyllabic: 2	0	0	0	1	1	0
Total: 114	2	56	36	6	1	0



Question ID: Z.

Segments

Segment Total for Stressed and Unstressed Syllables and Monosyllables according to Syllable Configuration

Monosyllable Onset: **#b(4), #s(4), ʃ(4), l(4), #f(3), #ʃ(3), #p^h(2), #f(2), t(2), w(2)**, p, #m, #t^h, #d, #dʒ, r, #z, #l, #k^h, #g, #h (41)Monosyllable Nucleus: **a(7), i^j(3), ɪ(3), ε(3), æ(3), o^w(2), ʌ(2)**, i, #ɪ, e^j, eⁱ#, o^w# (28)Monosyllable Coda: **d#(5), z#(4), f#(3), t#(3), m#(2), f#(2), t#(2), n(2)**, b, f, t^h#, ts#, s, s#, ʃ:ʃ, ʒ#, ʃ, ʃ#, k#, ŋ, h# (36)First Syllable Segment Stressed Onset: **#s(11), #ʃ(11), #m(6), ʃ(5), #l(5), #b(4), w(4), #f(3), #w(3), #f(2), #v(2), #d(2), n(2), l(2), #k^h(2)**, p, #t^h, t, #z, j, #h (70)First Syllable Segment Stressed Nucleus: **a(11), ɪ(8), i^j(7), æ(7), ε(6), u^w(4), e^j(4), o^w(3), a^j(2)**, #i^j, #ʌ, ɔ, a^w, #a^ə (57)First Syllable Segment Stressed Coda: **n(7), ʃ(7), z(2), t(2), k(2), g(2)**, p, b^h, d, s, ʒ (27)First Syllable Segment Unstressed Onset: **#f(4), #s(4), #ʃ(4), #d(3), l(3)**, #p, #m, #v, #dʒ, #z, k, #k^h, w (26)First Syllable Segment Unstressed Nucleus: **ə(12), #ə(3), i^j(2), u^w(2), æ(2)**, #i^j, #ɪ, o^w, ə, #æ, #a, a (28)First Syllable Segment Unstressed Coda: **n(3), s** (4)Second Syllable Segment Stressed Onset: **ʃ(5), l(5), f(3), j(3), m(2), t^h(2), n(2), s(2), w(2)** b, v, t, d, k^h, g (32)Second Syllable Segment Stressed Nucleus: **e^j(4), o^w(4), æ(4), ɪ(3), a(3), u^w(2), ε(2)**, i^j, ʊ, ɔ, a^w, ā (27)Second Syllable Segment Stressed Coda: **n(4), t#(2), n#(2), f#(2)**, d#, d^h#, tʃ#, s, s#, t#, k, k# (18)Second Syllable Segment Unstressed Onset: **z(8), l(7), n(6), d(5), s(5), f(4), t(4), ʃ(4), k(3), b(2), r(2), k^h(2)**, m, v, ʊ, ɔ, j, g, w (59)Second Syllable Segment Unstressed Nucleus: **ɪ(8), ə(8), a(6), əŋ#(5), i^j#(3), o^w#(3), əŋ(3), ʔ#(3), ə#(3), u^w#(2), o^w(2), əŋ#(2), ə(2), i^j, e^j#, ʊ, ɔ, ε#, a^w#, a^j, a#** (58)Second Syllable Segment Unstressed Coda: **n#(7), t^h#(4), d#(4), k#(3)**, t#, s#, z#, ʃ#, ʃ#, g# (24)

Third Syllable Segment Stressed Onset:

Third Syllable Segment Stressed Nucleus:

Third Syllable Segment Stressed Coda:

Third Syllable Segment Unstressed Onset: **n(5), ʃ(5), f(4), s(3), ʒ(3), d(2)**, m, t, ʊ (25)Third Syllable Segment Unstressed Nucleus: **ə(6), əŋ#(3), ə#(3), i^j#(2), i^j(2), ɪ(2), e^j(2)**, o^w, o^w#, ε (23)Third Syllable Segment Unstressed Coda: **t^h#(2), s#(2)**, t#, n#, s, t# (8)Fourth Syllable Segment Stressed Onset: **l** (1)Fourth Syllable Segment Stressed Nucleus: **ε** (1)

Fourth Syllable Segment Stressed Coda:

Fourth Syllable Segment Unstressed Onset: **f, n, r, ʃ** (4)Fourth Syllable Segment Unstressed Nucleus: **ə(2), əŋ#, əŋ#, ɔ^j, a** (6)Fourth Syllable Segment Unstressed Coda: **d^h#(2), d#, s#** (4)

Fifth Syllable Segment Stressed Onset:

Fifth Syllable Segment Stressed Nucleus:

Fifth Syllable Segment Stressed Coda:

Fifth Syllable Segment Unstressed Onset: **t** (1)Fifth Syllable Segment Unstressed Nucleus: **e^j#** (1)

Fifth Syllable Segment Unstressed Coda:

Segment Total for Stressed and Unstressed Onsets and Codas

Stressed Onset: **#s(11), #ʃ(11), ʃ(10), l(8), #m(6), w(6), #l(5), #b(4), n(4), j(4), f(3), #f(3), #w(3), m(2), #f(2), #v(2), t^h(2), t(2), #d(2), s(2), #k^h(2)**, p, b, v, #t^h, d, #z, k^h, g, #h (103)

Stressed Coda: n(11), ɹ(7), k(3), tʰ(2), nʰ(2), s(2), z(2), ʃ(2), ʈ(2), g(2), p, bʱ, d, dʱ, tʃ#, s#, ʒ, tʃ#, k# (45)

Unstressed Onset: n(12), ɹ(10), l(10), s(8), z(8), d(7), t(6), f(5), ʃ(5), #f(4), #s(4), #ɹ(4), k(4), #d(3), r(3), ʒ(3), b(2), m(2), θ(2), kʰ(2), w(2), #p, #m, #v, v, #dʒ, #z, j, #kʰ, g (115)

Unstressed Coda: nʰ(8), tʰ(6), dʰ(5), sʰ(4), n(3), kʰ(3), tʰ(2), dʱ(2), s(2), z#, ʃ#, ɹ#, g# (39)

Segment Total for Onsets and Codas

Onset: ɹ(24), l(22), #s(19), #ɹ(18), n(16), t(10), s(10), w(10), #b(8), #m(8), #f(8), f(8), d(8), z(8), #d(6), #ʃ(6), #l(6), ʃ(5), j(5), m(4), #kʰ(4), k(4), b(3), #v(3), r(3), #z(3), ʒ(3), kʰ(3), #w(3), #pʰ(2), p(2), v(2), #tʰ(2), tʰ(2), #dʒ(2), θ(2), g(2), #h(2), #p, r, #g (259)

Coda: n(16), dʰ(11), nʰ(10), ɹ(8), tʰ(7), tʰ(6), sʰ(6), ʃ(6), s(5), zʰ(5), ʈ(5), kʰ(5), dʱ(3), k(3), mʰ(2), fʰ(2), z(2), ɹʰ(2), g(2), p, b, bʱ, f, d, tʃ#, tʃ#, ʃ:ʃ, ʒ, ʒ#, tʃ#, g#, ɳ, h# (120)

Segment Total for Stressed and Unstressed Syllables and Monosyllables

Monosyllable Segment: dʰ(5), ɹ(5), #b(4), #s(4), zʰ(4), l(4), #ʃ(3), ʃ(3), #ɹ(3), ʈ(3), #pʰ(2), mʰ(2), fʰ(2), #f(2), tʰ(2), t(2), n(2), w(2), p, b, #m, f, #tʰ, tʰ, #d, tʃ#, #dʒ, r, s, sʰ, #z, ʃ:ʃ, ʒ#, ɹ#, #l, kʰ, #kʰ, #g, ɳ, #h, h# (77)

a(7), iʲ(3), ɪ(3), ε(3), æ(3), oʷ(2), ʌ(2), i, #ɪ, eʲ, eʲ#, oʷ# (28)

First Syllable Segment Stressed: ɹ(12), #s(11), #ɹ(11), n(9), #m(6), #l(5), #b(4), w(4), #ʃ(3), #w(3), p(2), #f(2), #v(2), #d(2), z(2), l(2), ʈ(2), #kʰ(2), k(2), g(2), bʱ, #tʰ, t, d, s, #z, ʒ, j, #h (97)

a(11), ɪ(8), iʲ(7), æ(7), ε(6), uʷ(4), eʲ(4), oʷ(3), aʲ(2), #iʲ, #ʌ, ɔ, aʷ, #aʷ (57)

First Syllable Segment Unstressed: #f(4), #s(4), #ɹ(4), #d(3), n(3), l(3), #p, #m, #v, #dʒ, s, #z, k, #kʰ, w (30)

ə(12), #ə(3), iʲ(2), uʷ(2), æ(2), #iʲ, #ɪ, oʷ, ə, #æ, #a, a (28)

Second Syllable Segment Stressed: n(6), ɹ(5), l(5), f(3), s(3), j(3), m(2), tʰ(2), tʰ(2), nʰ(2), ʃ(2), w(2), b, v, t, dʰ, dʱ, d, tʃ#, s#, tʃ#, kʰ, k, kʰ, g (50)

eʲ(4), oʷ(4), æ(4), ɪ(3), a(3), uʷ(2), ε(2), iʲ, ʊ, ɔ, aʷ, ā (27)

Second Syllable Segment Unstressed: z(8), nʰ(7), l(7), n(6), d(5), ʌ(5), s(5), f(4), t(4), tʰ(4), dʰ(4), ɹ(4), ʌ(4), ʌ(3), ʌ(3), k(3), kʰ(3), b(2), ʌ(2), kʰ(2), m, v, tʃ#, θ, sʰ, zʰ, ʃ, ʃ#, ɹ#, ʌ, j, g#, g, w (97)

ɪ(8), ə(8), a(6), iʲ(3), oʷ(3), ə(3), uʷ(2), oʷ(2), ə(2), iʲ, eʲ#, e, ε#, aʷ#, aʲ, a# (44)

Third Syllable Segment Stressed:

Third Syllable Segment Unstressed: n(5), ɹ(5), s(4), ʃ(4), ʌ(3), ʒ(3), tʰ(2), d(2), sʰ(2), m, t, tʃ#, nʰ, θ, tʃ# (36)

ə(6), ə(3), iʲ(2), iʲ(2), ɪ(2), eʲ(2), oʷ, oʷ#, ε (20)

Fourth Syllable Segment Stressed:

ɛ (1)

Fourth Syllable Segment Unstressed: dʱ(2), ʌ(2), f, dʰ, n, ʌ(2), r, sʰ, ɹ (10)

ə(2), ɔʲ, a (4)

Fifth Syllable Segment Stressed:

Fifth Syllable Segment Unstressed: t (1)

eʲ# (1)

Segment Total by Syllable

First Syllable Segment: #s(15), #ɹ(15), n(12), ɹ(12), #m(7), #f(6), #d(5), #l(5), l(5), w(5), #b(4), #v(3), #f(3), #k^h(3), k(3), #w(3), p(2), s(2), z(2), #z(2), t(2), g(2), #p, b^ː, #t^h, t, d, #dʒ, ʒ, j, #h (127)

ə(12), a(12), i^j(9), æ(9), ɪ(8), u^w(6), ε(6), e^j(4), o^w(4), #ə(3), #i^j(2), a^j(2), #ɪ, æ, #ʌ, ɔ, #æ, a^w, #a, #a^ː (81)

Second Syllable Segment: n(12), l(12), n#(9), ɹ(9), s(8), z(8), f(7), d(6), t(5), d#(5), ʔη#(5), t^ː#(4), j(4), k(4), k#(4), b(3), m(3), t#(3), ʔη(3), f#(3), ʔ#(3), k^h(3), w(3), ʔη#(2), v(2), t^h(2), r(2), s#(2), g(2), d^ː#, tʃ#, θ, z#, ʃ, ɹ#, t#, ʔ, g# (147)

ɪ(11), a(9), ə(8), o^w(6), e^j(4), æ(4), i^j#(3), o^w#(3), æ#(3), i^j(2), u^w#(2), u^w(2), æ(2), ε(2), ʊ, eⁱ#, e, ε#, a^w#, ɔ, aⁱ, a^w, ā, a# (71)

Third syllable Segment: n(5), ɹ(5), s(4), f(4), ʔη#(3), ʒ(3), t^ː#(2), d(2), s#(2), m, t, t#, n#, θ, t# (38)

ə(6), ə#(3), i^j#(2), i^j(2), ɪ(2), e^j(2), o^w, o^w#, ε (20)

Fourth Syllable Segment: d^ː#(2), ʔη#, f, d#, n, ʔη#, r, s#, ɹ, l (11)

ə(2), ε, ɔ^j, a (5)

Fifth Syllable Segment: t (1)

eⁱ# (1)

Segment Stressed and Unstressed Total

Stressed Segment: ɹ(17), n(15), #s(11), #ɹ(11), l(8), #m(6), w(6), #l(5), #b(4), s(4), j(4), f(3), #f(3), k(3), g(3), #w(3), p(2), m(2), #f(2), #v(2), t(2), t^h(2), #d(2), d(2), z(2), f#(2), t(2), #k^h(2), b^ː, b, v, #t^h, t#(2), d#, d^ː#, tʃ#, n#(2), s#, #z, ʒ, t#, k^h, k#, #h (148)

a(14), ɪ(11), æ(11), ε(9), i^j(8), e^j(8), o^w(7), u^w(6), ɔ(2), a^j(2), a^w(2), #i^j, ʊ, #ʌ, ā, #a^ː (85)

Unstressed Segment: n(15), s(10), ɹ(10), l(10), ʔη#(9), n#(8), z(8), d(7), t(6), t^ː#(6), f(5), d#(5), f(5), #f(4), #s(4), s#(4), #ɹ(4), k(4), ʔη#(3), #d(3), ʔη(3), r(3), ʒ(3), ʔ#(3), k#(3), b(2), m(2), t#(2), d^ː#(2), θ(2), k^h(2), w(2), #p, #m, #v, v, #dʒ, z#, #z, ʃ#, ɹ#, t#, ʔ, j, #k^h, g#, g (174)

ə(28), ɪ(10), a(8), i^j#(5), i^j(5), o^w#(4), o^w(4), #ə(3), ə#(3), æ(3), æ#(3), u^w#(2), u^w(2), e^j#(2), e^j(2), æ(2), #i^j, #ɪ, e, ε#, ε, ɔ^j, #æ, a^w#, aⁱ, #a, a# (97)

Segment Total (absolute)

Narrow: n(32), ɹ(32), l(22), #s(19), #ɹ(18), s(15), d#(11), t(10), n#(10), z(10), w(10), f(9), d(9), ʔη#(9), #b(8), #m(8), #f(8), t^ː#(7), k(7), t#(6), #d(6), s#(6), #f(6), f#(6), z#(5), ʃ(5), #l(6), t(5), j(5), k#(5), b(4), m(4), ʒ(4), #k^h(4), g(4), p(3), ʔη#(3), #v(3), d^ː#(3), ʔη(3), r(3), #z(3), ʔ#(3), k^h(3), #w(3), #p^h(2), m#(2), f#(2), v(2), #t^h(2), t^h(2), #dʒ(2), θ(2), ɹ#(2), t#(2), #h(2), #p, b^ː, tʃ#, r, ʃɹ#, ʒ#, ʔ, g#, #g, ɳ, h# (399)

a(29), ə(28), ɪ(24), i^j(16), æ(16), o^w(13), ε(13), e^j(11), u^w(8), i^j#(5), o^w#(5), e^j#(3), #ə(3), ə#(3), æ(3), æ#(3), a^j(3), #i^j(2), u^w#(2), #ɪ(2), ʌ(2), ɔ(2), a^w(2), i, ʊ, e, ε#, #ʌ, ɔ^j, #æ, a^w#, #a, a#, ā, #a^ː (210)

Broad: n(54), ɹ(52), s(40), d(29), l(28), t(27), f(19), k(19), z(18), ʃ(18), m(17), b(13), w(13), t(11), p(6), g(6), v(5), ʒ(5), j(5), r(3), h(3), dʒ(2), θ(2), tʃ, r, ɳ (399)

ə(34), a(33), ɪ(26), i(24), o(18), æ(17), e(14), ε(14), u(10), æ(6), a(6), ʌ(3), ɔ(3), ʊ, e (210)

609 total segments

Supra-Segments: Consonant Clusters

Consonant Cluster Total for Stressed and Unstressed Syllables and Monosyllables according to Syllable Configuration

Monosyllable Consonant Cluster Onset (all entries are word initial): #bl(2), #p^hɹ, #bɹ, #fl, #fɹ, #st, #sp, #stɹ, #zw, #fw, #k^hɹ, #gl (13)

Monosyllable Consonant Cluster Coda (all entries are word final): bz#, ft#, nd#, nz#, st#, ɹf#, tɹ#, tʒ#, td#, ɳk# (10)

First Syllable Consonant Cluster Stressed Onset (all entries are word initial): #sw(3), #bɹ(2), #mj, #fl, #dɹ, #sn, #sl, #sn, #sp, #stɹ, #fw, #k^hɹ (15)

First Syllable Consonant Cluster Stressed Coda: ns, ɹd, ɹg (3)

First Syllable Consonant Cluster Unstressed Onset (all entries are word initial): #fl, #sk, #sw, #k^hl (4)

First Syllable Consonant Cluster Unstressed Coda:

Second Syllable Consonant Cluster Stressed Onset: bl, mj, fj, fɹ, gɹ (5)

Second Syllable Consonant Cluster Stressed Coda: ntʃ# (1)

Second Syllable Consonant Cluster Unstressed Onset: **bl(2)**, fl (3)

Second Syllable Consonant Cluster Unstressed Coda: ɳs#, ɳz#, st#, ɹd# (4)

Third Syllable Consonant Cluster Stressed Onset:

Third Syllable Consonant Cluster Stressed Coda:

Third Syllable Consonant Cluster Unstressed Onset: st, dɹ (2)

Third Syllable Consonant Cluster Unstressed Coda: st# (1)

Fourth Syllable Consonant Cluster Stressed Onset:

Fourth Syllable Consonant Cluster Stressed Coda:

Fourth Syllable Consonant Cluster Unstressed Onset:

Fourth Syllable Consonant Cluster Unstressed Coda:

Fifth Syllable Consonant Cluster Stressed Onset:

Fifth Syllable Consonant Cluster Stressed Coda:

Fifth Syllable Consonant Cluster Unstressed Onset:

Fifth Syllable Consonant Cluster Unstressed Coda:

Consonant Cluster Total for Stressed and Unstressed Onsets and Codas

Stressed Onset: #sw(3), #bɹ(2), bl, #mj, mj, #fl, fj, fɹ, #dɹ, #sn, #sl, #sn, #sp, #stɹ, #fw, #k^hɹ, gɹ (20)

Stressed Coda: ns, ntʃ#, ɹd, ɹg (4)

Unstressed Onset: **bl(2)**, fl, #fl, dɹ, #sk, #sw, st, #k^hl (9)

Unstressed Coda: **st#(2)**, ɳs#, ɳz#, ɹd# (5)

Consonant Cluster Total for Onsets and Codas

Onset: **#sw(4), #bɹ(3), bl(3), #fl(3), #sp(2), #stɹ(2), #fw(2), #k^hɹ(2)**, #p^hɹ, #bl, #mj, mj, fl, fj, #fɹ, fɹ, #dɹ, dɹ, #sn, #sl, #sn, #st, st, #sk, #zw, #k^hl, gɹ, #gl, gl (42)

Coda: **st#(3), nz#(2), ɹd#(2)**, bz#, ft#, nd#, ɳs#, ns, ntʃ#, ɹf#, ɹd, ɹg, ɹm#, ɹz#, ɳk# (19)

Consonant Cluster Total for Stressed and Unstressed Syllables and Monosyllables

Monosyllable Consonant Cluster: **#bl(2)**, #p^hɹ, bz#, #bɹ, #fl, ft#, #fɹ, nd#, nz#, #st, st#, #sp, #stɹ, #zw, #fw, ɹf#, ɹm#, ɹz#, ɹd#, #k^hɹ, #gl, ɳk# (23)

First Syllable Consonant Cluster Stressed: #sw(3), #bɹ(2), #sn(2), #mj, #fl, #dɹ, ns, #sl, #sp, #stɹ, #fw, ɹd, ɹg, #k^hɹ (18)

First Syllable Consonant Cluster Unstressed: #fl, #sk, #sw, #k^hl (4)

Second Syllable Consonant Cluster Stressed: bl, mj, fj, fɹ, ntʃ#, gɹ (6)

Second Syllable Consonant Cluster Unstressed: **bl(2)**, fl, ɳs#, ɳz#, st#, ɹd# (7)

Third Syllable Consonant Cluster Stressed:

Third Syllable Consonant Cluster Unstressed: st, st#, dɹ (3)

Fourth Syllable Consonant Cluster Stressed:

Fourth Syllable Consonant Cluster Unstressed:

Fifth Syllable Consonant Cluster Stressed:

Fifth Syllable Consonant Cluster Unstressed:

Consonant Cluster Total per Syllable

First Syllable Consonant Cluster: **#sw(4), #bɹ(2), #fl(2), #sn(2),** #mj, #dɹ, ns, #sl, #sk, #sp, #stɹ, #fw, ɹd, ɹg, #kʰɹ, #kʰl (22)

Second Syllable Consonant Cluster: **bl(3),** mj, fj, fɹ, fl, ntʃ#, ɳs#, ɳz#, st#, ɫd#, gɹ (13)

Third Syllable Consonant Cluster: st, st#, dɹ (3)

Fourth Syllable Consonant Cluster:

Fifth Syllable Consonant Cluster:

Consonant Cluster Stressed and Unstressed Total

Consonant Cluster Stressed: #sw(3), #bɹ(2), bl, #mj, mj, #fl, fj, fɹ, #dɹ, ns, ntʃ#, #sn, #sl, #sn, #sp, #stɹ, #fw, ɹd, ɹg, #kʰɹ, gɹ (24)

Consonant Cluster Unstressed: **bl(2), st#(2),** fl, #fl, dɹ, ɳs#, ɳz#, #sk, #sw, st, ɫd#, #kʰl (14)

Consonant Cluster Total (absolute)

Narrow: **#sw(4), bl(3), #fl(3), st#(3), #bl(2), #bɹ(2), #sn(2), #sp(2), #stɹ(2), #fw(2), #kʰɹ(2),** #pʰɹ, #bɹ, bz#, #mj, mj, fl, ft#, #fɹ, fɹ, fj, #dɹ, dɹ, ns, ɳs#, nd#, ɳz#, nz#, ntʃ#, #sl, #sk, st, #st, #zw, ɹd, ɹg, ɹf#, ɫm#, ɫz#, ɫd#, ɫd#, #kʰl, gɹ, #gl, ɳk# (61)

Broad: **bl(5), st(5), fl(4), sw(4), bɹ(3), mj(2), fɹ(2), dɹ(2),** ns(2), nz(2), sn(2), sp(2), stɹ(2), fw(2), ɫd(2), kɹ(2), pɹ, bz, ft, fj, nd, ntʃ, sl, sk, zw, ɹd, ɹg, ɹf, ɫm, ɫz, kl, gɹ, gl, ɳk (61)

61 total consonant clusters

Supra-Segments: Whole Syllables

Whole Syllable Total for Stressed and Unstressed Syllables and Monosyllables

Monosyllable Whole Syllable:

#bliʃ#, #brif#, #fɹiɪd#, #siɪɹ#,
#ɪf#, #bɪnz#, #flɪm#, #spɪɳk#,
#dʒeɪ#, #steɪts#,
#moʷz#, #foʷtd#, #ɹoʷ#,
#pʰeɪz#, #fwed#, #kʰɹeʃ#,
#pʰɹɹst#, #blɹh#,
#fænd#, #ɹætʰ#, #læft#,
#tʰɑʃɹ:#, #daɹf#, #stɹad#, #zwaz#, #ɹas#, #glabz#, #haɫm# (28)

First Syllable Whole Syllable Stressed (all entries are word initial):

#iɪ, #mɪɪn, #viɪ, #siɪ, #siɪɹ, #ziɪ, #fɪɪ, #liɪ,
#mjuʷz, #swuʷ, #ɹuʷʒ, #luʷbɹ,
#vɪns, #swɪn, #ɹɪz, #ɹɪk, #kʰɹɪ, #kʰɹɪ, #wɪn, #wɪ,
#meɪ, #fleɪ, #sweɪ, #ɹeɪ,
#bɹoʷ, #ɹoʷ, #ɹoʷn,
#sɳe, #fwɛ, #ɹɛk, #ɹɛ, #lɛ, #lɛp,
#ʌ,
#spɹɹg,
#mæɹ, #tʰæɪ, #dɹæ, #sæ, #stɹæ, #ɹæ, #læ,
#baʷ, #daɪ, #slaɪ, #ha,
#ɑɹɹ, #bɹɑ, #baɹd, #maɹ, #man, #fan, #snaɹ, #fa, #ɹɑ, #ɹag, #wa (57)

First Syllable Whole Syllable Unstressed (all entries are word initial):

#ə(3), #də(2), #sə(2), #ɹə(2),
#iɪ, #diɪ, #ziɪ,
#fluʷ, #ɹuʷ,
#ɪn,
#ɹoʷ,
#pə, #mə, #fə, #və, #skə, #kʰlə,
#dʒə,
#æ, #fæn, #fæs,
#ɑ, #swan (28)

Second Syllable Whole Syllable Stressed:

t^he^j(2),
 i^jf#,
 mju^wt#, fju^w,
 fɪ, tɪ, lɪntf#,
 wʊd#,
 fɹe^j, ne^j,
 mo^ws#, so^wn#, lo^wst#, ɡɹo^w,
 vɛt#, wɛd^ː#,
 nɟɔ,
 dæn#, sæ, ɹæn, læk,
 ɹa^wk#,
 blāf#, ɹa, lan, k^han (27)

Second Syllable Whole Syllable Unstressed:

lo^w#(2), sə(2), z^aŋ[#](2), k^aŋ[#](2), ɹad[#](2),
 mi^jn#, fi^j#, zi^j#, li^j#,
 du^w#, su^w#,
 flɪn#, fɪt#, tɪk#, tɪɡ#, sɪn#, lɪn#, k^hɪn#, kɪk#,
 ble^j#,
 ləɹ#,
 no^w, ɹo^wn#, k^ho^w#,
 blət^ː#, fə, vəŋs#, də, dəŋ#, dəɪd#, nək#, əŋz#, rəɪt#, rəd#, Өəɪt#, səŋ, zəɪt#, zə, ɡəŋ#, wəŋ#,
 tə#, nə, zə#, ʃə#, jə#,
 dɛ#,
 ta^w#, zaɪt^ː#,
 nat^ː#, naɪf#, nat^ː#, zan#, ɹa# (58)

Third Syllable Whole Syllable Stressed:**Third Syllable Whole Syllable Unstressed:**

ɹɪ^jɪ[#](2),
 ni^j, Өi^j,
 nɪt^ː#, ʃɪn#, ʃɪs#,
 neɪt^ː#, se^j,
 so^wt#, ɹo^w#,
 mə, də, dɹə#, nə#, nəŋ#, stə, ʃəs#, ʃəŋ#, ʒə, ʒə#, ʒəŋ#,
 ɹɛst# (23)

Fourth Syllable Whole Syllable Stressed:

lɛ (1)

Fourth Syllable Whole Syllable Unstressed:

əŋ#, əŋ#, nəs#, rəd^ː#,
 fɔɪd^ː#,
 ɹad# (6)

Fifth Syllable Whole Syllable Stressed:**Fifth Syllable Whole Syllable Unstressed:**

te^j# (1)

Whole Syllable Total per Syllable

First Syllable Whole Syllable (all entries are word initial):

#ə(3), #ɪ^j(2), #zi^j(2), #də(2), #sə(2), #ɹə(2),
 #mi^jn, #vi^j, #di^j, #si^j, #si^jɹ, #fi^j, #li^j,
 #mju^wz, #flu^w, #swu^w, #ɹu^wʒ, #ɹu^w, #lu^wb,
 #ɪn, #vɪns, #swɪn, #ɹɪz, #ɹɪk, #k^hɪl, #k^hɹɪ, #wɪn, #wɪ,
 #me^j, #fle^j, #swe^j, #je^j,

#bɔʊʷ, #ɔʊʷ(2), #ɔʊʷn,
 #pə, #mə, #fə, #və, #skə, #kʰlə,
 #dʒə,
 #sne, #fwe, #ɛk, #ɛ, #le, #lep,
 #ʌ,
 #spɔɹɔg,
 #æ, #mæɪ, #fæn, #fæs, #tʰæf, #dɪæ, #sæ, #stɪæ, #ɪæ, #læ,
 #baʷ, #daʲ, #slaʲ, #ha,
 #a, #aʷ, #bɪa, #baɪd, #maɪ, #man, #fan, #snaɪ, #swan, #fa, #ɪa, #ɪag, #wa (85)

Second Syllable Whole Syllable:

tʰeʲ(2), loʷ#(2), sə(2), zʰɨ#(2), kʰɨ#(2), ɪad#(2),
 ɪʃ#, miʲn#, fiʲ#, ziʲ#, liʲ#,
 mjuʷtʰ#, fjuʷ, duʷ#, suʷ#,
 fɪ, flɪn#, fɪt#, tɪk#, tɪg#, tɪ, sɪn#, lɪn#, lɪntʃ#, kʰɪn#, kɪk#,
 wud#,
 bleʲ#, neʲ, fɪeʲ,
 ləɪ#,
 moʷs#, noʷ, soʷn#, ɔʊʷn#, loʷst#, kʰoʷ#, ɡɔʊʷ,
 blətʰ#, fə, vʰɨs#, də, dʰɨn#, dʰɪd#, nək#, ʰɨz#, ɾʰtʰ#, ɾəd#, ʰɪtʰ#, sʰɨ, zʰtʰ#, zə, ɡʰɨn#, wʰɨn#,
 tʰə#, nə, zə#, ʃə#, jə#,
 de#, vetʰ#, wedʰ#,
 nɔɹ,
 dən#, sə, ɪæn, læk,
 taʷ#, zaʲtʰ#, ɪaʷk#,
 blɔʃ#, natʰ#, naʃ#, natʰ#, zan#, ɪa#, ɪa, lan, kʰan (85)

Third Syllable Whole Syllable:

ɪɪʲ#(2),
 niʲ, ʰiʲ,
 nitʰ#, ʃɪn#, ʃɪs#,
 neʲtʰ#, seʲ,
 soʷtʰ#, ɔʊʷ#,
 mə, də, dɪə#, nə#, nʰɨn#, stə, ʃəs#, ʃʰɨn#, zə, zə#, zʰɨn#,
 ɪɛst# (23)

Fourth Syllable Whole Syllable:

ʰɨn#, ʰɨn#, nəs#, ɾədʰ#,
 le,
 ɾɔʲdʰ#,
 ɪad# (7)

Fifth Syllable Whole Syllable:

teʲ# (1)

Whole Syllable Stressed and Unstressed Total

Whole Syllable Stressed:

tʰeʲ(2),
 #ɪʲ, ɪʃ#, #miʲn#, #viʲ, #siʲ, #siʲɪ, #ziʲ, #ʃɪʲ, #liʲ,
 #mjuʷz, mjuʷtʰ#, fjuʷ, #swuʷ, #ɪuʷz, #luʷb,
 fɪ, #vɪns, tɪ, #swɪn, #ɪɪz, #ɪɪk, lɪntʃ#, #kʰɪl, #kʰɪɪ, #wɪn, #wɪ,
 wud#,
 #meʲ, #fleʲ, fɪeʲ, neʲ, #sweʲ, #ɪeʲ,
 #bɔʊʷ, moʷs#, soʷn#, #ɔʊʷ, #ɔʊʷn, loʷst#, ɡɔʊʷ,
 vetʰ#, #sne, #fwe, #ɛk, #ɛ, #le, le, #lep, wedʰ#,
 #ʌ,
 nɔɹ, #spɔɹɔg,
 #mæɪ, #tʰæf, #dɪæ, dən#, #stɪæ, #sæ, sə, #ɪæ, ɪæn, #læ, læk,

#ba^w, #daⁱ, #slaⁱ, ɹa^wk#, #ha,
 #a^ɹɹ, blāf#, #bɹa, #baɹd, #maɹ, #man, #fan, #snaɹ, #fa, #ɹa, ɹa, #ɹag, lan, k^han, #wa (85)

Whole Syllable Unstressed:

#ə(3), ɹad(3), ziⁱ(2), ɹiⁱ(2), lo^w(2), də(2), #də(2), sə(2), #sə(2), z^əm(2), #ɹə(2), k^əŋ(2),
 #iⁱ, miⁱn#, fiⁱ#, #diⁱ, niⁱ, θiⁱ, liⁱ#,
 #flu^w, du^w#, su^w#, #ɹu^w,
 #ɹn, flɪn#, fɪt#, tɪk#, tɪg#, nɪt^ˌ#, sɪn#, fɪn#, fɪs#, lɪn#, k^hɪn#, kɪk#,
 blɛiⁱ#, teⁱ#, neɪ^t#, seⁱ,
 ləɹ#,
 no^w, so^wt#, ɹo^wn#, #ɹo^w, ɹo^w#, k^ho^w#,
 #pə, blət^ˌ#, #mə, mə, ɹm#, fə, #fə, #və, v^əŋs#, d^əŋ#, d^əɹd#, dɹə#, nə#, n^əŋ#, nəs#, nək#, ɹŋz#, ɹŋ#, ɹ^ət#, rəd#, rəd^ˌ#, θ^ət#, s^əŋ, #skə, stə,
 z^ət#, zə, fəs#, f^əŋ#, zə, zə#, z^əŋ#, #k^hlə, g^əŋ#, w^əŋ#,
 tə#, #dʒə, nə, zə#, fə#, jə#,
 dɛ#, ɹɛst#,
 fɔɹd^ˌ#,
 #æ, #fæn, #fæs, ta^w#, zaɪ^t#,
 #a, nat^ˌ#, naɹ#, nat^ˌ#, #swan, zan#, ɹa# (116)

Whole Syllable Total (absolute)

Narrow:

#ə(3) ɹad(3), #iⁱ(2), ziⁱ(2), ɹiⁱ(2), t^heⁱ(2), #ɹo^w(2), lo^w(2), də(2), #də(2), sə(2), #sə(2), z^əm(2), #ɹə(2), k^əŋ(2),
 iɹf#, #bliɹf#, #brɪf#, miⁱn#, #miⁱn, fiⁱ#, #fɹɹɹd#, #viⁱ, #diⁱ, niⁱ, θiⁱ, #siⁱɹ#, #siⁱɹ, #siⁱ, #ziⁱ, #fiⁱ, liⁱ#, #liⁱ,
 #mju^wz, mju^wt#, fju^w, #flu^w, du^w#, su^w#, #swu^w, #ɹu^w, #ɹu^wz, #lu^wb̄,
 #ɹn, #ɹf#, #bɪnz#, flɪn#, #flɪm#, fɪt#, fɪ, #vɪns, tɪ, tɪk#, tɪg#, nɪt^ˌ#, #swɪn, sɪn#, #spɪŋk#, fɪn#, fɪs#, #ɹɪz, #ɹɪk, lɪntf#, lɪn#, k^hɪn#, kɪk#,
 #k^hɪl, #k^hɹɪ, #wɪn, #wɪ,
 wud#,
 blɛiⁱ#, #meⁱ, #fleⁱ, fɹeⁱ, teⁱ#, #dʒeⁱ#, neⁱ, neɪ^t#, seⁱ, #steɪts#, #sweⁱ, #ɹeⁱ,
 ləɹ#,
 #bɹo^w, mo^ws#, #mo^wz#, no^w, so^wn#, so^wt#, #fo^wɹd#, #ɹo^wn, ɹo^wn#, ɹo^w#, #ɹo^w#, lo^wst#, k^ho^w#, gɹo^w,
 #pə, blət^ˌ#, #mə, mə, ɹm#, fə, #fə, #və, v^əŋs#, d^əŋ#, d^əɹd#, dɹə#, nə#, n^əŋ#, nəs#, nək#, ɹŋz#, ɹŋ#, ɹ^ət#, rəd#, rəd^ˌ#, θ^ət#, s^əŋ, #skə, stə,
 z^ət#, zə, fəs#, f^əŋ#, zə, zə#, z^əŋ#, #k^hlə, g^əŋ#, w^əŋ#,
 tə#, #dʒə, nə, zə#, fə#, jə#,
 #p^hɛɹz#, vɛt#, dɛ#, #sne, #fwɛ, #fwɛd#, ɹɛst#, #ɹɛk, #ɹɛ, #lɛ, lɛ, #lɛp, #k^hɹɛf#, wɛd^ˌ#,
 #ɹ, #p^hɹɹst#, #blɹh#,
 fɔɹd^ˌ#, nɹɔ, #spɔɹg,
 #æ, #mæɹ, #fæn, #fæs, #t^hæɹ, #dɹæ, dæn#, #sæ, sə, #stɹæ, #fænd#, #ɹæɪ^t#, #ɹæ, ɹæn, #læ, læk, #læft#,
 #ba^w, ta^w#, #daⁱ, #slaⁱ, zaɪ^t#, ɹa^wk#, #ha,
 #a, #a^ɹɹ, blāf#, #bɹa, #baɹd, #maɹ, #man, #fan, #t^hafɹ:ɹ#, #daɹf#, nat^ˌ#, naɹ#, nat^ˌ#, #stɹad#, #swan, #snaɹ, zan#, #zwaɹz#, #fa, ɹa#, #ɹa,
 ɹa, #ɹag, #ɹas#, lan, k^han, #glɹbz#, #wa, #haɹm# (229)

Broad:

ɹo(4), də(4), sə(4), zi(3), te(3), ə(3) ɹad(3), ɹa(3), i(2), mɪn(2), siɹ(2), ɹi(2), li(2), ɹon(2), lo(2), mə(2), fə(2), rəd(2), z^əm(2),
 zə(2), ɹə(2), k^əŋ(2),
 lɛ(2), sɛ(2),
 ɪf, bliɹ, brɪf, fi, fɹɹɹd, vi, di, ni, θi, si, fi,
 mjuɹ, mjuɹ, fju, flu, du, su, swu, ɹu, ɹuɹ, lub,
 ɪn, ɪf, bɪnz, flɪn, flɪm, fɪt, fɪ, vɪns, tɪ, tɪk, tɪg, nɪt, swɪn, sɪn, spɪŋk, fɪn, fɪs, ɹɪz, ɹɪk, lɪntf, lɪn, kɪn, kɪk, kɪl, kɹɹ, wɪn, wɪ,
 wud,
 blɛ, me, fle, fɹe, dʒe, ne, net, se, stɛts, swe, ɹe,
 ləɹ,
 bɹo, mos, moz, no, son, soɹ, foɹd, lost, ko, gɹo,
 pə, blət, ɹm, və, v^əŋs, d^əŋ, d^əɹd, dɹə, nə, n^əŋ, nəs, nək, ɹŋz, ɹŋ, ɹ^ət, θ^ət, s^əŋ, skə, stə, z^ət, zə, fəs, f^əŋ, z^əŋ, klə, g^əŋ, w^əŋ,
 tə, dʒə, nə, zə, fə, jə,
 pɛɹz, vɛt, dɛ, sne, fwɛ, fwɛd, ɹɛst, ɹɛk, ɹɛ, lɛp, kɹɛf, wɛd,
 ɹ, ɹɹst, blɹh,
 fɔɹ, nɹɔ, spɔɹg,
 æ, mæɹ, fæn, fæs, tæɹ, dɹæ, dæn, stɹæ, fænd, ɹæɪ, ɹæ, ɹæn, læ, læk, læft,

ba, ta, da, sla, zat, ʁak, ha,
a, aʁ, blaʃ, bʁa, baʁd, maʁ, man, fan, taʃ, daʁf, nat, naʃ, nat, stʁad, swan, snaʁ, zan, zwaʒ, ʃa, ʁag, ʁas, lan, kan, glabz, wa, haʁm (229)

229 total whole syllables

Supra-Segments: Whole Words

Whole Word Total per Word Length

Whole Monosyllables:

tahsh [tʰaʃː], glahbz [glabz], bleesh [bliʃ], hahlm [haʁm], breef [brɛf], flim [flɪm], ish [ɪʃ], bluh [blʌh], dahrf [daʁf], shwed [ʃwɛd], freed [friːd], jay [dʒəʃ], pruhst [pʰʁast], kresh [kʰʁɛʃ], shand [ʃænd], row [ʁoʰ], rat [ʁæt], strahd [stʁad], shold [ʃoʰd], rahss [ʁas], binz [bɪnz], laft [læft], pehlz [pʰɛʔz], seer [siːʁ], zwahzh [zwaʒ], spink [sprɪŋk], moze [moʰz], states [steʔts]

Whole Bisyllables:

ROOZHlow [ʁuʰz·loʰ], DIEkuhn [daʃ·kəŋ], RAHGflin [ʁag·flɪn], SNEHtul [sne·rəʔ], HAHdeh [ha·dɛ], SHAHrohn [ʃa·ʁoʰn], SAfee [sæ·fi], LAzur [læ·zə], RANnuhk [ʁæ·nək], SLYdud [sla·rəd], RIZlin [ʁɪz·lɪn], SEElee [siː·li], SNARvunce [snaʁ·vəŋs], BOWun [baʰ·wəŋ], SWAYzahn [sweʃ·zan], BROmeen [bʁoʰ·miːn], KILLkin [kʰɪl·kʰɪn], LEEzum [liː·zəŋ], EEkoe [iː·kʰoʰ], SHWEHshur [ʃwe·ʃə], RIKtur [ʁɪk·tə], VINCEtik [vɪns·tɪk], AHRfiht [aʰ·ʁɪt], LOOBnaht [luʰb·nat], ZEErahd [ziː·ʁad], WAHthul [wa·θəʔ], SEERguhn [siːʁ·gəŋ], rowBLAHNSH [ʁoʰ·'blɑʃ], REKrahd [ʁɛk·ʁad], MARsin [maʁ·sɪn], MYOUZEKik ['mjuʰz·kɪk], BAHRDsoo [baʁd·suʰ], MEENTow [miːn·taʰ], REHzite [ʁɛ·zaʔt], SPORGnahsh [spɔʁg·naʃ], FLAYyur [fleʃ·jə], TALKun [tʰæʔ·kəŋ], MAHNtihg [man·tɪg], VEEnaht [viː·nat], SWINDoo [swɪn·duʰ], SWOOLur [swuʰ·lə], MAYrah [meʃ·ʁa], WINDuld [wɪn·dəʔd], RAYzee [ʁeʃ·zi], SHEEblay [ʃiː·bleʃ], MARuhnz [maʁ·əŋz], ROHNduhn [ʁoʰn·dəŋ], STRAZul [stʁæ·zəʔ], RAHzuhm [ʁa·zəŋ], LEPlœ [lɛp·loʰ],

BRAHbluht [bʁa·blət], kluhVET [kʰlə·vɛt], suhLOWST [sə·'loʰst], ruhWOOD [ʁə·'wud], uhMYOUL [ə·'mjuʰ], rooDAN [ʁuʰ·'dæn], suhWED [sə·'wɛd], duhMOWSE [də·'moʰs], flooEESH [fluʰ·iːʃ], fuhLINCH [fə·'lɪntʃ], deeROUK [diː·'ʁaʰk], swahnSOHN [swan·'soʰn]

Whole Trisyllables:

WIHzuhree [wi·zə·ʁi], DRAsuhnaye [dʁæ·sə·neʔt], UHNurest [ʌ·nə·ʁɛst], LEHsunsoul [lɛ·səŋ·soʰ], KRIHsuhnit [kʰɪɪ·sə·nɪt], ROWfuhree [ʁoʰ·fə·ʁi], FAHNduhroe [fan·də·ʁoʰ],

skuhNAYshus [skə·'neʃ·ʃəs], fanTAYshin [fæn·tʰeʃ·ʃɪn], zeeNYAHnuhn [ziː·'njɔ·nəŋ], ruhFYOUzhun [ʁə·'fjuʰ·zəŋ], fasTishis [fæs·'tɪ·ʃɪs], vuhRAHnuh [və·'ʁa·nə], muhKAHNdruh [mə·'kʰan·dʁə], aGROWzhuh [æ·'gʁoʰ·zə], inTAYshun [ɪn·tʰeʃ·ʃəŋ]

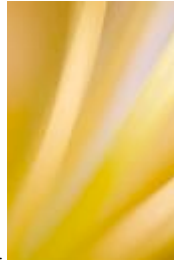
Whole Tetrasyllables:

eeLAKsaytud [iː·'læk·seʃ·rəd], uhLAHNduhrahd [ə·'lan·də·ʁad], duhFIHneen [də·'fi·niː·əŋ], uhFRAYzhuhfoyd [ə·'fɹeʃ·zə·fɔʔd], jurRANtheeum [dʒə·'ʁæn·θiː·əŋ], puhSAMuhnus [pə·'sæ·mə·nəs]

Whole Pentasyllables:

ahnostuhLEHtay [a·noʰ·stə·'lɛ·teʃ]

	Syllable Receiving Stress					
	None	First	Second	Third	Fourth	Fifth
Word Length Total						
Monosyllabic: 28						
Bisyllabic: 62	0	50	12			
Trisyllabic: 16	0	7	9	0		
Tetrasyllabic: 6	0	0	6	0	0	
Pentasyllabic: 1	0	0	0	0	1	0
Total: 113	0	57	27	0	1	0



Question ID: a.

Segments

Segment Total for Stressed and Unstressed Syllables and Monosyllables according to Syllable Configuration

Monosyllable Onset: **#s(4), ʃ(4), l(3), #j(3), #b(2), #t^h(2), #d(2), #l(2), #k^h(2), w(2), #p, p, #p^h, #f, #v, r, #f, #g, #w, #h** (36)

Monosyllable Nucleus: **ɪ(5), a(4), ʌ(2), a^w(2), i, i^j, i^h, e^j, ε, ɔ, æ, a, #a^j, a^j, a^h, a^w** (25)

Monosyllable Coda: **t#(6), n#(5), f#(3), t#(2), p, b#, m#, f#, ts#, tʃ#, s, z#, ʃ, l#, t, h#** (28)

First Syllable Segment Stressed Onset: #s(11), ʃ(10), #f(7), l(7), #b(6), #l(5), #ʃ(4), #j(4), #p^h(3), w(3), #d(2), #f(2), #k^h(2), #p, #m, #v, #t^h, #t, #dʒ, #z, #g, #w (75)

First Syllable Segment Stressed Nucleus: ɪ(13), a(10), æ(8), i^j(7), ε(6), a^j(6), u^w(2), e^j(2), u, o^w, ɔ (57)

First Syllable Segment Stressed Coda: n(8), s(4), ʃ(3), k(3), t(2), m, f, l, g (24)

First Syllable Segment Unstressed Onset: **#s(4), l(4), #f(3), #k(3), #b(2), #m(2), #t(2), #d(2), #j(2), #g(2), #w(2), #h** (29)

First Syllable Segment Unstressed Nucleus: **ə(6), a(6), i^j(3), u^w(3), #a(3), #ə(2), ε(2), e^j, o, o^w, æ, ɔ** (30)

First Syllable Segment Unstressed Coda: **t(3), t, n** (5)

Second Syllable Segment Stressed Onset: l(7), ʃ(6), d(3), b(2), n(2), s(2), f(2), t, z, j, w (28)

Second Syllable Segment Stressed Nucleus: u^w(4), ɪ(3), e^j#(3), a^j(3), a(3), e^j(2), ε(2), i^j, u^w#, e#, o^w, ə, æ, æ^j, a# (28)

Second Syllable Segment Stressed Coda: n#(3), t#(2), v#, t^h, d^h#, n, ʃ#, l# (11)

Second Syllable Segment Unstressed Onset: **t(9), s(6), b(5), m(5), ʃ(5), l(5), p(4), f(4), n(4), r(3), d(2), g(2), v, tʃ, z, j, k, w, ?** (61)

Second Syllable Segment Unstressed Nucleus: **ə(10), a(7) ɪ^j#(6), i^j#(5), ɪ(4), ə^j#(4), o^w#(3), ə(3), a^j(3), i^j(2), u^w(2), ə#(2), ə#(2), ə^j, ə^j#, ɪ, ε, a#, a#** (59)

Second Syllable Segment Unstressed Coda: **n#(4), v#(2), s#(2), k#(2), p#, m#, t#, t^h#, d#, ʃ#, t** (17)

Third Syllable Segment Stressed Onset: l (1)

Third Syllable Segment Stressed Nucleus: e^j (1)

Third Syllable Segment Stressed Coda:

Third Syllable Segment Unstressed Onset: **n(5), t(3), ʃ(3), b(2), f(2), v(2), s(2), z(2), j(2), k(2), g(2), p, m, θ, l** (31)

Third Syllable Segment Unstressed Nucleus: **a(6), ə#(5), i^j#(2), ɪ(2), ə^j#(2), ɪ^j#(2), ə#(2), i^j, u^w#, e^j, e^j#, ə, ə^j, ə, ε, æ^j, a#** (31)

Third Syllable Segment Unstressed Coda: **n#(2), s#(2), ʃ(2), t#(2), k#(2), m#, t#, n, ɲ** (14)

Fourth Syllable Segment Stressed Onset: n (1)

Fourth Syllable Segment Stressed Nucleus: a (1)

Fourth Syllable Segment Stressed Coda:

Fourth Syllable Segment Unstressed Onset: **r, θ, ʃ** (3)

Fourth Syllable Segment Unstressed Nucleus: **ə(2), i^j, ɪ, ə^j#** (5)

Fourth Syllable Segment Unstressed Coda: **s#(2), n#, ɲ#** (4)

Fifth Syllable Segment Stressed Onset:

Fifth Syllable Segment Stressed Nucleus:

Fifth Syllable Segment Stressed Coda:

Fifth Syllable Segment Unstressed Onset: **t** (1)

Fifth Syllable Segment Unstressed Nucleus: **e^j#** (1)

Fifth Syllable Segment Unstressed Coda:

Segment Total for Stressed and Unstressed Onsets and Codas

Stressed Onset: ɹ(16), l(15), #s(11), #f(7), #b(6), #l(5), #ɹ(4), #j(4), w(4), #p^h(3), d(3), n(3), b(2), #d(2), s(2), #f(2), f(2), #k^h(2), #p, #m, #v, #t^h, #t, t, #dʒ, #z, z, j, #g, #w (105)

Stressed Coda: n(9), s(4), n#(3), ɹ(3), k(3), t#(2), t(2), m, f, v#, t^ː, d^ː#, ɹ#, l, l#, g (35)

Unstressed Onset: t(13), l(10), n(9), s(8), ɹ(8), b(7), m(6), f(6), p(5), r(4), #s(4), g(4), #f(3), v(3), z(3), j(3), #k(3), k(3), #b(2), #m(2), #t(2), #d(2), d(2), θ(2), #j(2), #g(2), #w(2), tʃ, ʃ, w, ʔ, #h (125)

Unstressed Coda: n#(7), s#(6), k#(4), t(4), m#(2), v#(2), t#(2), n(2), ɹ(2), t#(2), p#, t, t^ː#, d#, ɹ#, ŋ, ŋ# (40)

Segment Total for Onsets and Codas

Onset: ɹ(28), l(28), #s(19), t(14), n(12), #f(11), #b(10), s(10), b(9), #j(9), #l(7), w(7), p(6), m(6), f(6), #d(6), d(5), #p^h(4), r(4), z(4), #ɹ(4), j(4), #k^h(4), #g(4), g(4), #m(3), v(3), #t^h(3), #t(3), #f(3), f(3), #k(3), k(3), #w(3), #p(2), #v(2), θ(2), #h(2), tʃ, #dʒ, r, #z, #w, ʔ (266)

Coda: n#(15), n(11), t#(10), t(7), s#(6), ɹ(6), s(5), t#(4), k#(4), m#(3), v#(3), f#(3), k(3), ɹ#(2), l#(2), p, p#, b#, m, f, f#, t, t^ː, t^ː#, d#, d^ː#, tʃ#, z#, l, g, ŋ, ŋ#, h# (103)

Segment Total for Stressed and Unstressed Syllables and Monosyllables

Monosyllable Segment: t#(6), n#(5), ɹ(5), #s(4), f#(3), l(3), #j(3), p(2), #b(2), #t^h(2), #d(2), #l(2), t#(2), #k^h(2), w(2), #p, #p^h, b#, m#, f#, #f, #v, tʃ#, r, s, z#, #f, l#, t, #g, #w, #h (63)

ɪ(5), a(4), ʌ(2), a^w(2), i, i^j, i^j#, e^j, ε, ɔ, æ, a, #a^j, a^j, a^h#, a^w (25)

First Syllable Segment Stressed: ɹ(13), #s(11), n(8), l(8), #f(7), #b(6), #l(5), s(4), #ɹ(4), #j(4), #p^h(3), k(3), w(3), #d(2), #f(2), t(2), #k^h(2), #p, #m, m, f, #v, #t^h, #t, #dʒ, #z, g, #g, #w (99)

ɪ(13), a(10), æ(8), i^j(7), ε(6), a^j(6), u^w(2), e^j(2), u, o^w, ɔ (57)

First Syllable Segment Unstressed: #s(4), l(4), #f(3), t(3), #k(3), #b(2), #m(2), #t(2), #d(2), #j(2), #g(2), #w(2), t, n, #h (34)

ə(6), a(6), i^j(3), u^w(3), #a(3), #ə(2), ε(2), e^j, o, o^w, ə, ɔ (30)

Second Syllable Segment Stressed: l(7), ɹ(6), d(3), n#(3), n(3), b(2), t#(2), s(2), f(2), v#, t^ː, t, d^ː#, z, ɹ#, l#, j, w (39)

u^w(4), ɪ(3), e^j#(3), a^j(3), a(3), e^j(2), ε(2), i^j, u^w#, e#, o^w, ə, æ, æ^j, a# (28)

Second Syllable Segment Unstressed: t(9), s(6), ɹ#(6), b(5), m(5), ɹ(5), l(5), p(4), f(4), n(4), n#(4), ʔ#(4), r(3), v#(2), d(2), s#(2), k#(2), g(2), p#, m#, ʔ#(2), v, t#, t^ː#, d#, tʃ, ʔ, z, ɹ#, t, ɹ, j, k, w, ʔ (91)

ə(10), a(7), i^j#(5), ɪ(4), o^w#(3), ə(3), a^j(3), i^j(2), u^w(2), ə#(2), ə#(2), ε, a#, a# (46)

Third Syllable Segment Stressed: l (1)

e^j (1)

Third Syllable Segment Unstressed: n(6), ɹ(5), t(3), b(2), f(2), v(2), n#(2), ʔ#(2), s(2), s#(2), z(2), t#(2), ɹ#(2), j(2), k(2), k#(2), g(2), p, m, m#, t#, ʔ, θ, l, ŋ (50)

a(6), ə#(5), i^j#(2), ɪ(2), ə#(2), i^j, u^w#, e^j, e^j#, ə, ə, ε, æ^j, a# (26)

Fourth Syllable Segment Stressed: n (1)

a (1)

Fourth Syllable Segment Unstressed: s#(2), n#, ʔ#(2), r, θ, ʃ, ŋ# (8)

ə(2), i^j, ɪ (4)

Fifth Syllable Segment Stressed:

Fifth Syllable Segment Unstressed: t (1)

e^j# (1)

Segment Total by Syllable

First Syllable Segment: #s(15), ɹ(13), l(12), #f(10), n(9), #b(8), #j(6), #l(5), t(5), #d(4), s(4), #ɹ(4), #p^h(3), #m(3), #t(3), #k(3), k(3), #g(3), w(3), #w(3), #f(2), #k^h(2), #p, m, f, #v, #t^h, t, #dʒ, #z, g #h (133)

ɪ(16), a(13), æ(9), a^j(9), i^j(8), ε(8), u^w(6), e^j(4), e^j#(3), o^w(2), u, u^w#, e#, ə, ɔ, æ^j, a# (87)

Second Syllable Segment: l(12), ɹ(11), t(10), s(8), b(7), n(7), n#(7), ɹ^j#(6), m(5), d(5), p(4), f(4), ɹ^h#(4), v#(3), t#(3), r(3), s#(2), z(2), f(2), ɹ#(2), j(2), k#(2), g(2), w(2), p#, m#, ɹm#, v, t^h, t^h#, d#, d^h#, tʃ, ɹ^h, l#, t, ɹ^j, k, ʔ (130)

ə(11), a(10), ɪ(7), u^w(6), a^j(6), i^j#(5), i^j(3), e^j#(3), o^w#(3), ɹ(3), ε(3), e^j(2), ə#(2), ɹ#(2), a#(2), u^w#, e#, o^w, æ, æ^j, a# (74)

Third syllable Segment: n(6), ɹ(5), t(3), b(2), f(2), v(2), n#(2), ɹ^h#(2), s(2), s#(2), z(2), l(2), t#(2), ɹ^j#(2), j(2), k(2), k#(2), g(2), p, m, m#, t#, ɹ^h, ɹ, ɹ^j (51)

a(6), ə#(5), i^j#(2), ɪ(2), e^j(2), ɹ#(2), i^j, u^w#, e^j#, ə, ɹ, ε, æ^j, a# (27)

Fourth Syllable Segment: s#(2), n#, n, ɹ^h#, r, ɹ, ɹ^j (9)

ə(2), i^j, ɪ, a (5)

Fifth Syllable Segment: t (1)

e^j# (1)

Segment Stressed and Unstressed Total

Stressed Segment: ɹ(19), l(16), n(12), #s(11), #f(7), #b(6), s(6), #l(5), #ɹ(4), #j(4), w(4), #p^h(3), d(3), n#(3), k(3), b(2), t#(2), #d(2), #f(2), f(2), t(2), #k^h(2), #p, #m, m, f, #v, v#, #t^h, #t, t^h, t, d^h#, #dʒ, #z, z, ɹ#, l#, j, g #g, #w (140)

ɪ(16), a(14), æ(9), a^j(9), i^j(8), ε(8), u^w(6), e^j(5), e^j#(3), o^w(2), u, u^w#, e#, ə, ɔ, æ^j, a# (87)

Unstressed Segment: t(14), n(11), ɹ(10), l(10), s(8), ɹ^j#(8), b(7), n#(7), ɹ^h#(7), m(6), f(6), s#(6), p(5), r(4), #s(4), t(4), k#(4), g(4), #f(3), v(3), z(3), j(3), #k(3), k(3), #b(2), #m(2), m#(2), v#(2), #t(2), t#(2), d(2), #d(2), ɹ^h(2), ɹ(2), t#(2), #j(2), #g(2), #w(2), p#, ɹm#, t^h#, d#, tʃ, f, ɹ#, ɹ^j, ɹ^h, w, ʔ, #h (184)

ə(19), a(19), i^j(7), i^j#(7), ɪ(7), ə#(7), u^w(5), ɹ(5), ɹ#(4), ε(4), o^w#(3), a^j(3), #a(3), e^j(2), e^j#(2), #ə(2), a#(2), u^w#, o, o^w, ɔ, æ^j, a# (107)

Segment Total (absolute)

Narrow: ɹ(34), l(29), n(23), #s(19), t(15), n#(15), s(15), #f(11), #b(10), t#(10), b(9), #j(9), ɹ^j#(8), p(7), m(7), f(7), ɹ^h#(7), #l(7), t(7), w(7), #d(6), s#(6), k(6), d(5), g(5), #p^h(4), r(4), z(4), #ɹ(4), t#(4), j(4), #k^h(4), k#(4), #g(4), #w(4), #m(3), m#(3), v(3), v#(3), #t^h(3), #t(3), #f(3), f(3), f#(3), #k(3), #p(2), #v(2), ɹ^h(2), ɹ(2), ɹ#(2), l#(2), #h(2), p#, b#, ɹm#, f#, t^h#, t^h, d#, d^h#, tʃ#, tʃ, #dʒ, r, #z, z#, ɹ^j, ɹ^h, ʔ (387)

a(37), ɪ(28), ə(20), i^j(16), ε(13), a^j(13), u^w(11), æ(10), i^j#(8), e^j(8), ə#(7), e^j#(5), ɹ(5), ɹ#(4), o^w(3), o^w#(3), ɔ(3), #a(3), a#(3), u^w#(2), #ə(2), ʌ(2), æ^j(2), a^w(2), i, u, e#, o, a, #a^j, a#, a^h#, a^w (219)

Broad: n(47), s(40), ɹ(40), l(38), t(33), b(20), t(20), f(19), k(17), p(14), m(14), d(13), j(13), w(11), f(9), g(9), v(8), z(6), r(4), tʃ(2), ɹ(2), ɹ^h(2), h(2), tʃ, dʒ, r, ʔ (387)

a(45), ə(29), ɪ(28), i(25), a(18), u(14), e(14), ε(13), æ(12), ʌ(9), o(7), ɔ(3), ʌ(2) (219)

606 total segments

Supra-Segments: Consonant Clusters

Consonant Cluster Total for Stressed and Unstressed Syllables and Monosyllables according to Syllable Configuration

Monosyllable Consonant Cluster Onset (all entries are word initial): #pr, #p^hɹ, #bɹ, #bl, #fl, #vɹ, #spl, #sl, #sw, #k^hw, #gɹ (11)

Monosyllable Consonant Cluster Coda (all entries are word final): pf#, st#, ɹf#, t# (4)

First Syllable Consonant Cluster Stressed Onset (all entries are word initial): #bɹ(3), #fɹ(3), #bl(2), #fl(2), #sw(2), #p^hɹ, #tw, #sp, #k^hɹ (16)

First Syllable Consonant Cluster Stressed Coda:

First Syllable Consonant Cluster Unstressed Onset (all entries are word initial): #fl, #kl, #gl (3)

First Syllable Consonant Cluster Unstressed Coda:

Second Syllable Consonant Cluster Stressed Onset: bɹ, dɹ, st (3)

Second Syllable Consonant Cluster Stressed Coda: nt# (1)

Second Syllable Consonant Cluster Unstressed Onset: pl, tɹ, st, stɹ (4)

Second Syllable Consonant Cluster Unstressed Coda:

Third Syllable Consonant Cluster Stressed Onset:

Third Syllable Consonant Cluster Stressed Coda:

Third Syllable Consonant Cluster Unstressed Onset: bɹ, stɹ (2)

Third Syllable Consonant Cluster Unstressed Coda: ɳt#, ɳns#, ɳk# (3)

Fourth Syllable Consonant Cluster Stressed Onset:

Fourth Syllable Consonant Cluster Stressed Coda:

Fourth Syllable Consonant Cluster Unstressed Onset:

Fourth Syllable Consonant Cluster Unstressed Coda:

Fifth Syllable Consonant Cluster Stressed Onset:

Fifth Syllable Consonant Cluster Stressed Coda:

Fifth Syllable Consonant Cluster Unstressed Onset:

Fifth Syllable Consonant Cluster Unstressed Coda:

Consonant Cluster Total for Stressed and Unstressed Onsets and Codas

Stressed Onset: #bɹ(3), #fɹ(3), #bl(2), #fl(2), #sw(2), #p^hɹ, bɹ, #tw, dɹ, #sp, st, #k^hɹ (19)

Stressed Coda: nt# (1)

Unstressed Onset: **stɹ(2)**, pl, bɹ, #fl, tɹ, st, #kl, #gl (9)

Unstressed Coda: ɳt#, ɳns#, ɳk# (3)

Consonant Cluster Total for Onsets and Codas

Onset: **#bɹ(4), #fl(4), #bl(3), #fɹ(3), #sw(3), #p^hɹ(2), bɹ(2), st(2), stɹ(2), #pr, pl, #vɹ, #tw, tɹ, dɹ, #sp, #spl, #sl, #k^hw, #k^hɹ, #kl, #gl, #gɹ** (39)

Coda: **ɳt#(2)**, pf#, st#, ɹf#, ɳns#, t#, ɳk# (8)

Consonant Cluster Total for Stressed and Unstressed Syllables and Monosyllables

Monosyllable Consonant Cluster: #pr, #p^hɹ, pf#, #bɹ, #bl, #fl, #vɹ, #spl, #sl, #sw, st#, ɹf#, t#, #k^hw, #gɹ (15)

First Syllable Consonant Cluster Stressed: #bɹ(3), #fɹ(3), #bl(2), #fl(2), #sw(2), #p^hɹ, #tw, #sp, #k^hɹ (16)

First Syllable Consonant Cluster Unstressed: #fl, #kl, #gl (3)

Second Syllable Consonant Cluster Stressed: bɹ, dɹ, nt#, st (4)

Second Syllable Consonant Cluster Unstressed: pl, tɹ, st, stɹ (4)

Third Syllable Consonant Cluster Stressed:

Third Syllable Consonant Cluster Unstressed: bɹ, ɳt#, stɹ, ɳns#, ɳk# (5)

Fourth Syllable Consonant Cluster Stressed:

Fourth Syllable Consonant Cluster Unstressed:

Fifth Syllable Consonant Cluster Stressed:

Fifth Syllable Consonant Cluster Unstressed:

Consonant Cluster Total per Syllable

First Syllable Consonant Cluster: #bɹ(3), #fɹ(3), #bl(2), #fl(2), #sw(2), #p^hɹ, #fl, #tw, #sp, #k^hɹ, #kl, #gl (19)

Second Syllable Consonant Cluster: st(2), pl, bɹ, tɹ, dɹ, nt#, stɹ (8)

Third Syllable Consonant Cluster: bɹ, ɳt#, stɹ, ɳns#, ɳk# (5)

Fourth Syllable Consonant Cluster:

Fifth Syllable Consonant Cluster:

Consonant Cluster Stressed and Unstressed Total

Consonant Cluster Stressed: #bɹ(3), #fɹ(3), #bl(2), #fl(2), #sw(2), #p^hɹ, bɹ, #tw, dɹ, nt#, #sp, st, #k^hɹ (20)

Consonant Cluster Unstressed: stɹ(2), pl, bɹ, #fl, tɹ, ɳt#, st, ɳns#, #kl, #gl, ɳk# (12)

Consonant Cluster Total (absolute)

Narrow: #bɹ(4), #fl(4), #bl(3), #fɹ(3), #sw(3), #p^hɹ(2), bɹ(2), st(2), stɹ(2), pl, #pr, pf#, #vɹ, #tw, tɹ, dɹ, nt#, ɳt#, #spl, #sp, #sl, st#, ɹf#, ɳns#, ɳt#, #k^hw, #kl, #k^hɹ, #gɹ, #gl, ɳk# (47)

Broad: bɹ(6), fl(4), pɹ(3), bl(3), fɹ(3), sw(3), st(3), nt(2), stɹ(2), pl, pf, vɹ, tw, tɹ, dɹ, spl, sp, sl, ɹf, ɳns, ɳt, kw, kl, kɹ, gɹ, gl, ɳk (47)

47 total consonant clusters

Supra-Segments: Whole Syllables

Whole Syllable Total for Stressed and Unstressed Syllables and Monosyllables

Monosyllable Whole Syllable:

#prin#, #liⁱm#, #jiⁱ#,
#flɪt#, #t^hɹz#, #t^hɹf#, #swɪpf#, #fɪn#,
#k^heⁱb#,
#hɛt#,
#p^hɹɹst#, #lɹt#,
#jɔɹf#,
#dæn#,
#aⁱts#, #bla^wf#, #da^wtɹ#, #sal#, #gɹaⁱt#,
#bɹah#, #vɹa^wt#, #slat#, #splat#, #ja^h#, #k^hwan#, #wan# (26)

First Syllable Whole Syllable Stressed (all entries are word initial):

#bɹɪⁱ(2), #su^w(2), #saⁱ(2), #la(2),
#p^hɹⁱ, #fliⁱ, #fɹɪⁱk, #liⁱ, #k^hɹɪⁱ,
#fu,
#blɹ, #bɹɹ, #bin, #fɹɹ, #vɹ, #dɹ, #sɹ, #sɪn, #fɪn, #ɹɪm, #lɹ, #jɹ, #wɪn,
#p^heⁱ, #ɹeⁱ,
#lo^w,
#p^hɹɛk, #mɛ, #dʒɛs, #dʒɛt, #ɹɛs, #jɛt,
#flɔ,
#blæs, #flæn, #fɹæɳ, #dæn, #sæn, #zæs, #læ, #jæk,
#flaⁱ, #t^haⁱ, #twaⁱt, #ɹaⁱ,
#swaɹ, #swaf, #spaɹ, #sa, #ɹa, #ja, #k^han, #gaɹ (57)

First Syllable Whole Syllable Unstressed (all entries are word initial):

#ə(2), #a(2), #wa(2),

#fi^j, #di^j, #si^j,

#mu^w, #tu^w, #ju^w,

#be^j,

#son, #ho^w,

#bə, #mə, #tə, #də, #sə, #gə,

#flə,

#kle, #gle,

#flo,

#at,

#sat, #jat, #ka, #kat (30)

Second Syllable Whole Syllable Stressed:

lu^w(2), le^j#(2),

ni^jv#,

fu^wl#, fu^wn#, ju^w#,

mɪt, sɪ, sint#, lɪ,

te#, ze^j, le^jd^ɹ#, le^j,

dɔo^w,

dɛ, ɹɛ,

æ, dæ^jɹ#,

ba^j, ba^jt^ɹ, wa^jt#,

ɹa#, lan, la#, jan# (28)

Second Syllable Whole Syllable Unstressed:

ə(2), rə(2), fə(2),

pi^j#, bi^j#, mi^j#, ti^j#, ti^jk#, si^j#, ɹi^j,

pu^wv#, bu^wm#,

min#, nɪp#, zɪt#,

o^w#, tʃo^w#, lo^w#,

plə, bə^j, bɹə#, mə^j#, fə^j#, fə^jm#, və^j#, təs#, tə, də, də^j#, nə, nə#, nə^j#, rə^j#, stɹə^j#, sə^j#, stə^j#, ɹə, gə, gə^j#, ʔə^j#,

pə^j#, bə^j#, tə^jd#,

ɛs#,

ma^j, na^j, la^jt^ɹ#, wa#,

ɹa#, tak#, sta#, san#, lav#, la, jan#, kan# (59)

Third Syllable Whole Syllable Stressed: le^j (1)

Third Syllable Whole Syllable Unstressed:

nə#(2),

ni^j, θi^j#,

vu^w#,

lɪk#, jɪn#,

me^j, ze^j#,

ə, pə^j#, bɹə#, fə^j#, tə^j#, sə^jnt#, zə^j#, ɹə#, kə#,

ə#, fə, və^j#,

nɛs#,

gæ^jɹ#,

at#, baɹ, taɹns#, stɹan#, ja#, kam#, gaŋk# (30)

Fourth Syllable Whole Syllable Stressed:

na (1)

Fourth Syllable Whole Syllable Unstressed:

θi^jn#,

rɪŋ#,

əs#, ə^j#, fəs# (5)

Fifth Syllable Whole Syllable Stressed:

Fifth Syllable Whole Syllable Unstressed:

teⁱ# (1)

Whole Syllable Total per Syllable

First Syllable Whole Syllable (all entries are word initial):

#bɪⁱ(2), #su^w(2), #ə(2), #flɔ(2), #saⁱ(2), #a(2), #la(2), #wa(2),
#p^hiⁱ, #fliⁱ, #fliⁱk, #fiⁱ, #diⁱ, #siⁱ, #liⁱ, #k^hliⁱ,
#mu^w, #tu^w, #fu, #ju^w,
#bli, #bɪɪ, #bɪn, #fɪɪ, #vi, #di, #si, #sin, #fin, #ɪm, #li, #ji, #win,
#p^heⁱ, #beⁱ, #jeⁱ,
#son, #lo^w, #ho^w,
#bə, #mə, #tə, #də, #sə, #gə,
#flə,
#p^hɪɛk, #mɛ, #dʒɛs, #dʒɛt, #ɪɛs, #jɛt, #kle, #gle,
#blæs, #flæn, #fɪæg, #dæn, #sæn, #zæs, #læ, #jæk,
#at, #flaⁱ, #t^haⁱ, #twaⁱ, #ɪaⁱ,
#saɪ, #swaɪ, #swaf, #spaɪ, #sa, #ɪa, #ja, #jat, #ka, #kat, #k^han, #gaɪ (87)

Second Syllable Whole Syllable:

lu^w(2), leⁱ#(2), ə(2), rə(2), fə(2), jan#(2),
piⁱ#, biⁱ#, miⁱ#, tiⁱ#, tiⁱk#, niⁱv#, siⁱ#, ɪiⁱ,
pu^wv#, bu^wm#, fu^wl#, fu^wn#, ɪu^w#,
mɪn#, mɪt, nɪp#, sɪ, sɪnt#, zɪt#, lɪ,
te#, zeⁱ, jeⁱd^h#, jeⁱ,
o^w#, dɪo^w, tʃo^w#, lo^w#,
plə, bɔt, bɪə#, mɔt#, fɔt#, fɔm#, vən, təs#, tə, də, dɔt#, nə, nə#, nɔt#, rɔt#, stɪən#, sən#, stən#, ɪə, gə, gɔt#, ʔən#,
pə#, bə#, təd#,
ɛs#, dɛ, ɪɛ,
æ, dæɪɪ#,
baⁱ, baⁱt^h, maⁱ, naⁱ, laⁱt^h#, wa#, waⁱt#,
aɪ#, tak#, sta#, san#, ɪa#, lan, la#, lav#, la, kan# (87)

Third Syllable Whole Syllable:

nə#(2),
niⁱ, θiⁱ#,
vu^w#,
lɪk#, jɪn#,
meⁱ, zeⁱ#, leⁱ,
ə, pən#, bɪə#, fɔt#, tən#, sɔnt#, zɔt#, ɪə#, kə#, ə#,
fə, və#,
nɛs#,
gæɪt#,
at#, baɪ, taɪns#, stɪan#, ja#, kam#, gaŋk# (31)

Fourth Syllable Whole Syllable:

θiⁱn#,
rɪŋ#,
əs#, ən#, fəs#,
na (5)

Fifth Syllable Whole Syllable:

teⁱ# (1)

Whole Syllable Stressed and Unstressed Total

Whole Syllable Stressed:

#bɪⁱ(2), #su^w(2), lu^w(2), leⁱ#(2), #saⁱ(2), #la(2),
#p^hiⁱ, #fliⁱ, #fliⁱk, niⁱv#, #liⁱ, #k^hliⁱ,

#fu, fu^wl#, fu^wn#, ju^w#,
 #blɪ, #bɪɪ, #bɪn, mɪt, #fɪɪ, #vɪ, #dɪ, #sɪ, sɪ, #sɪn, sɪnt#, #fɪn, #ɪɪm, #lɪ, lɪ, #jɪ, #wɪn,
 #p^heɪ, te#, zeɪ, #ɪeɪ, ɪeɪ, ɪeɪd^h#, leɪ,
 dɔ^w, #lo^w,
 #p^hɪɛk, #mɛ, dɛ, #dʒɛs, #dʒɛt, ɪɛ, #ɪɛs, #jɛt,
 #flɔ,
 æ, #blæs, #flæn, #fɪæg, #dæn, dæɪɪ#, #sæn, #zæs, #læ, #jæk,
 baɪ, baɪt^h, #flaɪ, #t^haɪ, #twaɪt, #ɪaɪ, waɪt#,
 na, #swaɪ, #swaf, #spaɪ, #sa, #ɪa, ɪa#, lan, la#, #ja, jan#, #k^han, #gaɪ (87)

Whole Syllable Unstressed:

ə(3), nə(3), fə(3), #ə(2), bɪə(2), fə(2), rə(2), #a(2), #wa(2),
 pɪɪ#, bɪɪ#, mɪɪ#, #fɪɪ, tɪɪ#, tɪk#, #dɪɪ, nɪɪ, sɪɪ#, #sɪɪ, ʊɪɪ#, ʊɪn#, ɪɪɪ,
 pu^wv#, bu^wm#, #mu^w, vu^w#, #tu^w, #ju^w,
 mɪn#, nɪp#, rɪŋ#, zɪt#, lɪk#, jɪn#,
 #beɪ, meɪ, teɪ#, zeɪ#,
 o^w#, tʃo^w#, #son, lo^w#, #ho^w,
 əs#, plə, pəŋ#, bəɪ, #bə, məɪ#, #mə, fəŋ#, vəŋ, təs#, tə, #tə, təŋ#, #də, də, dəɪ#, nə, nəɪ#, əŋ#, rəɪ#, #sə, stəŋ#, səŋ#, stəŋ#, sənt#, zəɪ#, fəs#,
 ɪə, ɪə#, kə#, gə, #gə, gəɪ#, ʔəŋ#,
 ə#, pə#, bə#, #flə, və#, təd#,
 ɛs#, nɛs#, #kle, #gle,
 #flɔ,
 gæɪ#,
 #aɪ, maɪ, naɪ, laɪt^h#, wa#,
 aɪ#, aɪ#, baɪ, tak#, taɪns#, sta#, san#, #saɪ, stɪan#, lav#, la, jan#, #jat, ja#, kam#, #ka, #kaɪ, kan#, gaŋk# (125)

Whole Syllable Total (absolute)

Narrow:

ə(3), nə(3), fə(3), #bɪɪ(2), #su^w(2), lu^w(2), leɪ(2), #ə(2), bɪə(2), fə(2), rə(2), #flɔ(2), #saɪ(2), #a(2), #la(2), jan(2), #wa(2),
 pɪɪ#, #prɪn#, bɪɪ#, mɪɪ#, #fɪɪ, #fɪɪ, #fɪɪk, tɪɪ#, tɪk#, #dɪɪ, nɪɪ, nɪv#, sɪɪ#, #sɪɪ, ʊɪɪ#, ʊɪn#, ɪɪɪ, #lɪɪ, #lɪɪm#, #jɪɪ#, #k^hɪɪɪ,
 pu^wv#, bu^wm#, #mu^w, vu^w#, #tu^w, #fu, fu^wl#, fu^wn#, ju^w#, #ju^w,
 #blɪ, #bɪɪ, #bɪn, mɪt, mɪn#, #fɪɪ, #flɪt#, #vɪ, #t^hɪz#, #t^hɪf#, #dɪ, nɪp#, rɪŋ#, #sɪ, sɪ, #sɪn, sɪnt#, #swɪpf#, #fɪn#, #fɪn, zɪt#, #ɪɪm, #lɪ, lɪ,
 lɪk#, jɪn#, #jɪ, #wɪn,
 #p^heɪ, #beɪ, meɪ, teɪ#, te#, zeɪ#, zeɪ, #ɪeɪ, ɪeɪ, ɪeɪd^h#, leɪ, #k^heɪb#,
 o^w#, dɔ^w, tʃo^w#, #son, #lo^w, lo^w#, #ho^w,
 əs#, plə, pəŋ#, bəɪ, #bə, məɪ#, #mə, fəŋ#, vəŋ, təs#, tə, #tə, təŋ#, #də, də, dəɪ#, nə, nəɪ#, əŋ#, rəɪ#, #sə, stəŋ#, səŋ#, stəŋ#, sənt#, zəɪ#, fəs#,
 ɪə, ɪə#, kə#, gə, #gə, gəɪ#, ʔəŋ#,
 ə#, pə#, bə#, #flə, və#, təd#,
 ɛs#, #p^hɪɛk, #mɛ, dɛ, #dʒɛs, #dʒɛt, nɛs#, ɪɛ, #ɪɛs, #jɛt, #kle, #gle, #hɛt#,
 #p^hɪɪst#, #lɪt#,
 #jɔɪf#,
 æ, #blæs, #flæn, #fɪæg, #dæn, #dæn#, dæɪɪ#, #sæn, #zæs, #læ, #jæk, gæɪɪ#,
 #aɪ, #aɪts#, baɪ, baɪt^h, #blaɪf#, maɪ, #flaɪ, #t^haɪ, #twaɪt, #daɪtɪf#, naɪ, #sal#, #ɪaɪ, laɪt^h#, #gɪaɪt#, wa#, waɪt#,
 aɪ#, aɪ#, baɪ, #bɪah#, #vɪaɪt#, tak#, taɪns#, na, sta#, san#, #saɪ, stɪan#, #swaɪ, #swaf, #spaɪ, #sa, #slat#, #splat#, #ɪa, ɪa#, lav#, lan, la,
 la#, #ja, ja#, #jaɪ#, #jat, kam#, #ka, #kaɪ, kan#, #k^han, #k^hwan#, gaŋk#, #gaɪ #wan# (239)

Broad:

ə(5), nə(4), la(4), le(3), fə(3), ja(3), bɪɪ(2), sɪ(2), su(2), lu(2), sɪ(2), fɪn(2), lɪ(2), te(2), ze(2), ɪe(2), lo(2), bɪə(2), fə(2),
tə(2), də(2), rə(2), ɪə(2),
gə(2), flɔ(2), dæn(2), sa(2), a(2), ɪa(2), jan(2), kan(2), wa(2),
 pɪ, prɪn, bɪ, mɪ, fɪ, fɪ, fɪk, tɪ, tɪk, dɪ, nɪ, nɪv, ʊɪ, ʊɪn, ɪɪ, lɪ, lɪm, jɪ, kɪɪ,
 puɪ, bɪum, mu, vu, tu, fu, ful, fun, ju, ju,
 blɪ, bɪɪ, bɪn, mɪt, mɪn, fɪɪ, flɪt, vɪ, tɪz, tɪf, dɪ, nɪp, rɪŋ, sɪn, sɪnt, swɪpf, zɪt, ɪɪm, lɪk, jɪn, jɪ, wɪn,
 pe, be, me, jɛd, keb,
 o, dɔ, tʃo, son, ho,
 əs, plə, pəŋ, bəɪ, bə, məɪ, mə, fəŋ, vəŋ, təs, təŋ, dəɪ, nəɪ, əŋ, rəɪ, sə, stəŋ, səŋ, stəŋ, sənt, zəɪ, fəs, kə, gəɪ, ʔəŋ,

ʌ, pʌ, bʌ, flʌ, vʌ, tʌd,
 ɛs, pɛk, mɛ, dɛ, dʒɛs, dʒɛt, nɛs, ɹɛ, ɹɛs, jɛt, klɛ, glɛ, hɛt,
 pɹʌst, lʌt,
 ɟɹɟ,
 æ, blæs, flæn, fɹæg, dæɹ, sæn, zæs, læ, jæk, gæɪ,
 aɪ, ats, ba, bat, blaf, ma, fla, ta, twaɪ, datʃ, na, sal, ɹa, lat, gɹat, wa, wat,
 aɹ, aɪ, baɹ, bɹah, vɹat, tak, taɪns, na, sta, san, saɪ, stɹan, swaɹ, swaf, spaɹ, sa, slaɪ, splat, lav, lan, jat, kam, ka, kaɪ, kwan, gaŋk, gaɹ, wan
 (239)

239 total whole syllables

Supra-Segments: Whole Words

Whole Word Total per Word Length

Whole Monosyllables:

tɪʃh [tʰɪʃ], shin [ʃɪn], yah [jaʰ], preen [prɪn], splaht [splat], yorsh [ɟɹɟʃ], pruhst [pʰɹʌst], helt [hɛɪt], ites [aʰts], brah [brah], swɪpf [swɪpf], leem [liʰm], grit [gɹaɪt], slaht [slaɪt], flɪt [flɪt], dan [dæn], lull [lʌɪ], wahn [wan], bloush [blaʰʃ], yee [jiʰ], kwahn [kʰwan], sahl [sal], tɪz [tʰɪz], vraht [vɹaʰt], dowch, [daʰtʃ], kabe [kʰɛb]

Whole Bisyllables:

JELbroom [dʒɛɪ·bɹuʰm], WINstruhn [ˈwɪn·stɹʰn], LOWsun [ˈloʰ·sʰn], BLASTurd [ˈblæs·tʌd], FRIHtul [ˈfɹɪ·rʰt], SHOOwah [ˈfu·wa], FLYtus [ˈflaɪ·təs], LAHpee [ˈla·piʰ], YAHstah [ˈja·sta], BINduhl [ˈbɪn·dʰt], SHINTahk [ˈʃɪn·tak], YAKmee [ˈjæk·miʰ], SINTree [ˈsɪn·triʰ], YELbee [ˈjɛɪ·biʰ], LEEtuhn [ˈliʰ·ʔʰn], SOOess [ˈsuʰ·ɛs], BREEo [ˈbɹiʰ·oʰ], PREKsahn [ˈpʰɛk·san], FLANTeek [ˈflæn·tiʰk], SOOnuh [ˈsuʰ·nə], GAHRmin [ˈgaɹ·mɪn], TYpoov [ˈtʰaɪ·puʰv], RAYahr [ˈɹɛɪ·aɹ], SAHmul [ˈsa·mʰt], LAzit [ˈlæ·zɪt], RIMfum [ˈɹɪm·fʰm], BREElite [ˈbɹiʰ·laɪt], JESSlahv [ˈdʒɛs·lav], DIHful [ˈdi·fʰt], SANsee [ˈsæn·siʰ], RAHlow [ˈɹa·loʰ], RYbur [ˈɹaɪ·bə], SYkahn [ˈsaɪ·kan], SWAHFnip [ˈswaf·nɪp], LIHnul [ˈli·nʰt], ZASpuhr [ˈzæs·pʰa], FLEEguhl [ˈfliʰ·gʰt], FREEKstuhn [ˈfɹiʰk·stʰn], SIHchoe [ˈsi·tʰoʰ], PAYyahn [ˈpʰɛɪ·jan], YIHbruh [ˈji·brʌ],

ahSHOON [a·ˈfuʰn], deeYAHN [diʰ·ˈjan], mooLAY [muʰ·ˈleɪ], seeNEEV [siʰ·ˈniʰv], guhLAHN [gə·ˈlan], sownTAY [son·ˈte], suhROO [sə·ˈruʰ], muhLAY [mə·ˈleɪ], klehDAIR [kle·ˈdæɪɹ], glehSINT [gle·ˈsɪnt], floRAYD [flo·ˈɹɛɪd], youWHITE [juʰ·ˈwaɪt], feeLAH [fiʰ·ˈla], yahtSHOOL [jat·ˈfuʰl]

Whole Trisyllables:

BLIHvuntahrnce [ˈbli·vʰn·taɪns], FLOreeahl [ˈflo·ɹiʰ·aɪt], SYrunee [ˈsaɪ·ɹə·niʰ], FRAGmyur [ˈfɹæg·maɪ·əɪ], RESpluhgahnk [ˈɹɛs·plə·gaŋk], MEGuhstrahn [ˈmɛ·gə·stɹan], LAHtuhkuh [ˈla·rə·kə], DANduhful [ˈdæn·dʰ·fʰt], TWILEfurvur [ˈtwaɪ·fə·və], BRIHtuhnuh [ˈbɹɪ·tə·nə], SWAHRnuhkahm [ˈswaɹ·nə·kam], KREEuhthee [ˈkʰɹiʰ·ə·θiʰ], VIHbulgail [ˈvi·bʰt·gæɪt], PEEuhzay [ˈpʰɛɪ·ə·zeɪ], SPAHRtuhlik [ˈspaɹ·rə·lɪk],

flurREHSunt [flʌ·ˈɹɛ·sʰnt], duhBITEnes [dʌ·ˈbaɪt·nɛs], uhLOObruh [ə·ˈluʰ·brʌ], bayANnuh [beɪ·ˈæ·nə], wahRAHvoo [wa·ˈɹa·vuʰ], ahRAYzul [a·ˈɹɛɪ·zʰt], uhLOOtuhn [ə·ˈluʰ·tʰn], wahDROpuhn [wa·ˈdɹoʰ·pʰn], ahlBYyah [aɪ·ˈbaɪ·ja], sahlDERuh [saɪ·ˈdɛ·ɹə], buhMILyin [bə·ˈmɪɪ·jɪn]

Whole Tetrasyllables:

KAHNfurmayteeng [ˈkʰan·fə·meɪ·rɪŋ],

kahlSIHneen [kaɪ·ˈsi·niʰ·ʰn], hoZAYuhtheen [hoʰ·ˈzeɪ·ə·θiʰn], tooLIHfuhus [tuʰ·ˈli·fə·əs],

tuhneyeLAYshus [tə·naɪ·ˈleɪ·ʃəs]

Whole Pentasyllables:

kahlbahNAHtay [ka·la·baɹ·ˈna·teɪ]

	Syllable Receiving Stress					
	None	First	Second	Third	Fourth	Fifth
Word Length Total						
Monosyllabic: 26						
Bisyllabic: 55	0	41	14			
Trisyllabic: 26	0	15	11	0		
Tetrasyllabic: 5	0	1	3	1	0	
Pentasyllabic: 1	0	0	0	0	1	0
Total: 113	0	57	28	1	1	0



Question ID: b.

Segments

Segment Total for Stressed and Unstressed Syllables and Monosyllables according to Syllable Configuration

Monosyllable Onset: **#s(5), #b(4), l(3), #k^h(3), #w(3), #m(2), m(2), #v(2), #f(2), w(2), #p, #p^h, #f, #d, ɹ, #l, #j, #x** (36)

Monosyllable Nucleus: **i^j(4), u^w(4), a(4), ə(2), ε(2), a^j(2), u^w#, #u:ː^w, u#, eⁱ, #o^w, o^w, ε^j, æ, aɪ, a^w, a, #a** (30)

Monosyllable Coda: **t[#](5), n[#](4), f[#](3), b[#](2), z[#](2), ɹ(2), t(2), p#, f#, tʃ#, θ#, s#, s, ɹ#, g#** (28)

First Syllable Segment Stressed Onset: #k^h(11), #w(10), l(9), #b(8), #s(8), ɹ(6), #p^h(4), #t^h(3), #d(3), w(3), #h(2), p, #m, #f, #n, #z, #f, k (74)

First Syllable Segment Stressed Nucleus: æ(10), a(10), ɪ(9), ε(9), u^w(6), e^j(3), #a(3), i^j(2), o^w(2), #i^j, #u^w, ø, ə, #ʌ, ʌ, ɔ, a^w (62)

First Syllable Segment Stressed Coda: n(8), m(3), ɹ(3), f(2), t(2), p, v, s, k (22)

First Syllable Segment Unstressed Onset: **#h(4), #b(3), #s(3), #d(2), l(2), #p, #v, ɹ, #g, w** (19)

First Syllable Segment Unstressed Nucleus: **ə(6), #a(3), a(3), #ə(2), a^j(2), #i^j, u^w, #ɪ, ɪ, o^w, ə, #ε** (23)

First Syllable Segment Unstressed Coda: **n(2), ɹ** (3)

Second Syllable Segment Stressed Onset: f(3), ɹ(3), p^h(2), b(2), w(2), v, t^h, n, s, l, j, k^h (19)

Second Syllable Segment Stressed Nucleus: i^j(3), e^j(3), a(3), u^w(2), ɪ(2), ə, εɪ, ε, ε^j, ɔ, æ^j, a^j (20)

Second Syllable Segment Stressed Coda: n(2), ɹ[#](2), ɹ(2), m#, d#, d^ː#, z# (10)

Second Syllable Segment Unstressed Onset: **l(11), ɹ(9), b(8), t(6), f(5), m(4), d(3), n(3), s(3), f(3), k(3), v(2), p, r, ð, z, j, g** (66)

Second Syllable Segment Unstressed Nucleus: **ə(9), i^j#, ə^j#, ɪ(5), o^w#, ə[#](5), ə^h#, ə^j(3), a(3), i^j(2), u^w(2), e^j(2), ə^h#, i, u^w#, o^w, ə^j, ə^h, ε, a^j#, a#** (64)

Second Syllable Segment Unstressed Coda: **d^ː#, n#(2), s#(2), f#(2), k#(2), f#, v#, z#, ɹ#, t#** (15)

Third Syllable Segment Stressed Onset: m, n (2)

Third Syllable Segment Stressed Nucleus: i^j(2) (2)

Third Syllable Segment Stressed Coda:

Third Syllable Segment Unstressed Onset: **t(4), ɹ(4), n(3), r(3), l(3), j(2), b, v, t^h, d, r, s, z, f, k, g, w** (30)

Third Syllable Segment Unstressed Nucleus: **ə(6), ɪ(4), ə^h#, a(3), i^j(2), ə^j#, o^w#, ə[#], ə^h#, ε#, ɔ, æ, a^j** (27)

Third Syllable Segment Unstressed Coda: **s#(3), n#(2), ɹ#(2), p#, t#, k#, ɹ#** (11)

Fourth Syllable Segment Stressed Onset: n (1)

Fourth Syllable Segment Stressed Nucleus: ε (1)

Fourth Syllable Segment Stressed Coda:

Fourth Syllable Segment Unstressed Onset: **ɹ(2), t, r, z** (5)

Fourth Syllable Segment Unstressed Nucleus: **i^j#, ə(2), ə^h#, i#, ɪ, ə#** (9)

Fourth Syllable Segment Unstressed Coda: **s#(2), k#** (3)

Fifth Syllable Segment Stressed Onset:

Fifth Syllable Segment Stressed Nucleus:

Fifth Syllable Segment Stressed Coda:

Fifth Syllable Segment Unstressed Onset: **t** (1)

Fifth Syllable Segment Unstressed Nucleus: **e^j#** (1)

Fifth Syllable Segment Unstressed Coda:

Segment Total for Stressed and Unstressed Onsets and Codas

Stressed Onset: #k^h(11), l(10), #w(10), ɹ(9), #b(8), #s(8), w(5), #p^h(4), f(3), #t^h(3), #d(3), n(3), p^h(2), b(2), #h(2), p, #m, m, #f, v, t^h, #n, s, #z, #ʃ, j, k^h, k (96)

Stressed Coda: n(10), ɹ(5), m(3), ʃ(2), t^h(2), p, m#, v, d#, d^h#, s, z#, ɹ, k (33)

Unstressed Onset: ɹ(16), l(16), b(9), t(6), n(6), t(6), f(5), r(5), m(4), d(4), s(4), ʃ(4), k(4), #h(4), #b(3), v(3), #s(3), j(3), #d(2), z(2), g(2), w(2), #p, p, #v, t^h, r, ð, #g (120)

Unstressed Coda: s#(7), n#(4), k#(4), ɹ#(3), d^h-(2), n(2), ʃ#(2), t^h-(2), p#, f#, v#, z#, ɹ, ɳ# (32)

Segment Total for Onsets and Codas

Onset: l(29), ɹ(26), #s(16), #b(15), #k^h(14), #w(13), b(11), n(9), w(9), f(8), m(7), t(6), #d(6), t(6), #h(6), #p^h(5), r(5), s(5), k(5), v(4), d(4), ʃ(4), j(4), #m(3), #v(3), #t^h(3), #ʃ(3), #p(2), p^h(2), p(2), #f(2), t^h(2), z(2), g(2), #n, r, ð, #z, #l, #j, k^h, #g, #x (252)

Coda: n(12), n#(8), s#(8), ɹ(8), ɹ#(6), t#(5), ʃ#(5), z#(4), t(4), k#(4), m(3), d^h-(3), p#(2), b#(2), f#(2), s(2), ʃ(2), t^h-(2), p, m#, v, v#, d#, tʃ#, θ#, k, g#, ɳ# (93)

Segment Total for Stressed and Unstressed Syllables and Monosyllables

Monosyllable Segment: t#(5), #s(5), #b(4), n#(4), ʃ#(3), ɹ(3), l(3), #k^h(3), #w(3), b#(2), #m(2), m(2), #v(2), z#(2), #ʃ(2), t(2), w(2), #p, #p^h, p#, f#, #f, #d, tʃ#, θ#, s#, s, ɹ#, #l, #j, g#, #x (64)

i^j(4), u^w(4), a(4), æ(2), ε(2), a^j(2), u^w#, #u:ˈw, u#, e^j, #oˈw, oˈw, ε^j, æ, a:ˈ, aˈw, a, #a (30)

First Syllable Segment Stressed: #k^h(11), #w(10), ɹ(9), l(9), #b(8), n(8), #s(8), #p^h(4), m(3), #t^h(3), #d(3), w(3), p(2), ʃ(2), t(2), k(2), #h(2), #m, #f, v, #n, s, #z, #ʃ (96)

æ(10), a(10), ɪ(9), ε(9), u^w(6), e^j(3), #a(3), i^j(2), oˈw(2), #i^j, #uˈw, ø, æ, #ʌ, ʌ, ɔ, aˈw (62)

First Syllable Segment Unstressed: #h(4), #b(3), #s(3), #d(2), n(2), ɹ(2), l(2), #p, #v, #g, w (22)

ə(6), #a(3), a(3), #ə(2), a^j(2), #i^j, uˈw, #ɪ, ɪ, oˈw, æ, #ε (23)

Second Syllable Segment Stressed: ɹ(5), f(3), n(3), p^h(2), b(2), ɹ#(2), w(2), m#, v, t^h, d#, d^h#, s, z#, l, j, k^h (29)

i^j(3), e^j(3), a(3), u^w(2), ɪ(2), æ, ε:ˈ, ε, ε^j, ɔ, æ^j, a^j (20)

Second Syllable Segment Unstressed: l(11), ɹ(9), b(8), ɳ#(7), t(6), f(5), m(4), ɳ#(3), d(3), n(3), s(3), ʃ(3), k(3), v(2), d^h-(2), n#(2), ɳ#(2), s#(2), ʃ#(2), k#(2), p, f#, v#, ɳ#, r, ð, z#, z, ɹ#, t#, ɳ, j, g (95)

ə(9), i^j-(8), ɪ(5), oˈw#(5), æ#(5), æ(3), a(3) i^j(2), uˈw(2), e^j(2), ɪ, uˈw#, oˈw, ε, a^j#, a# (45)

Third Syllable Segment Stressed: m, n (2)

i^j(2) (2)

Third Syllable Segment Unstressed: t(4), ɹ(4), n(3), ɳ#(3), r(3), s#(3), l(3), n#(2), ɹ#(2), ɳ#(2), j(2), p#, b, ɳ#(2), v, t^h, d, r, s, z, ʃ, t#, k, k#, g, ɳ#, w (47)

ə(6), ɪ(4), a(3), i^j(2), oˈw#, ə#, ε#, ɔ, æ, a^j (21)

Fourth Syllable Segment Stressed: n (1)

ε (1)

Fourth Syllable Segment Unstressed: ɳ#(2), s#(2), ɹ(2), t, r, z, k# (10)

i^j-(2), ə(2), i#, ɪ, ə# (7)

Fifth Syllable Segment Stressed:

Fifth Syllable Segment Unstressed: t (1)

eⁱ# (1)

Segment Total by Syllable

First Syllable Segment: #b(11), #s(11), ɹ(11), l(11), #k^h(11), n(10), #w(10), #h(6), #d(5), #p^h(4), w(4), m(3), #t^h(3), p(2), f(2), t(2), k(2), #p, #m, #f, #v, v, #n, s, #z, #f, #g (118)

a(13), ɪ(10), æ(10), ε(9), u^w(7), ə(6), #a(6), eⁱ(3), o^w(3), #i^j(2), i^j(2), #ə(2), ʌ(2), a^j(2), #u^w, #ɪ, ø, #ε, #Λ, Λ, ɔ, a^w (85)

Second Syllable Segment: ɹ(14), l(12), b(10), f(8), ʔ[#](7), n(6), t(6), m(4), s(4), ʌ[#](3), v(3), d(3), d^ˈ#(3), f(3), ɹ[#](3), k(3), p^h(2), n[#](2), ʌ[#](2), s[#](2), z[#](2), f[#](2), j(2), k[#](2), w(2), p, m[#], f[#], v[#], t^h, d[#], ʌ[#], r, ð, z, t[#], ʔ^h, k^h, g (124)

ə(9), i^j#(8), ɪ(7), a(6), i^j(5), e^j(5), o^w#(5), ʌ[#](5), u^w(4), ʌ(4), ε(2), ɪ, u^w#, o^w, εɪ, ε^j, ɔ, æ^j, a^j, a^j#, a[#] (70)

Third syllable Segment: t(4), n(4), ɹ(4), ʌ[#](3), r(3), s[#](3), l(3), n[#](2), ɹ[#](2), ʔ[#](2), j(2), p[#], b, m, ʌ[#], v, t^h, d, r, s, z, f, t[#], k, k[#], g, ŋ[#], w (49)

ə(6), i^j(4), ɪ(4), a(3), o^w#, ə[#], ε[#], ɔ, æ, a^j (23)

Fourth Syllable Segment: ʌ[#](2), s[#](2), ɹ(2), t, n, r, z, k[#] (11)

i^j#(2), ə(2), i[#], ɪ, ə[#], ε (8)

Fifth Syllable Segment: t (1)

eⁱ# (1)

Segment Stressed and Unstressed Total

Stressed Segment: ɹ(14), n(13), #k^h(11), l(10), #w(10), #b(8), #s(8), w(5), #p^h(4), m(4), f(3), #t^h(3), #d(3), p(2), p^h(2), b(2), v(2), s(2), f(2), ɹ[#](2), t(2), k(2), #h(2), m[#], #m, #f, t^h, d[#], d^ˈ#, #n, #z, z[#], #f, j, k^h (128)

a(13), ɪ(11), ε(11), æ(10), u^w(8), i^j(7), e^j(6), #a(3), o^w(2), ʌ(2), ɔ(2), #i^j, #u^w, ø, εɪ, ε^j, #Λ, Λ, æ^j, a^j, a^w (85)

Unstressed Segment: ɹ(17), l(16), b(9), ʔ[#](9), n(8), s[#](7), ʌ[#](6), t(6), t(6), f(5), ʌ[#](5), r(5), m(4), d(4), n[#](4), s(4), f(4), k(4), k[#](4), #h(4), #b(3), v(3), #s(3), z(3), ɹ[#](3), j(3), #d(2), d^ˈ#(2), f[#](2), t[#](2), g(2), w(2), p, #p, p[#], f[#], #v, v[#], t^h, ʌ[#], r, ð, z[#], ʔ^h, #g, ŋ[#] (175)

ə(24), ɪ(11), i^j#(10), a(9), o^w#(6), ʌ[#](5), i^j(4), ʌ(4), u^w(3), a^j(3), #a(3), e^j(2), o^w(2), #ə(2), ə[#](2), #i^j, i[#], ɪ, u^w#, #ɪ, e^j#, ε, #ε, ε[#], ɔ, æ, a^j#, a[#] (97)

Segment Total (absolute)

Narrow: ɹ(34), l(29), n(21), #s(16), #b(15), #k^h(14), #w(13), b(11), m(10), t(10), ʔ[#](9), w(9), f(8), n[#](8), s[#](8), s(7), ʌ[#](6), t(6), #d(6), f(6), ɹ[#](6), k(6), #h(6), #p^h(5), v(5), t[#](5), ʌ[#](5), r(5), f[#](5), z[#](4), j(4), k[#](4), p(3), #m(3), #t^h(3), d^ˈ#(3), z(3), #f(3), #p(2), p[#](2), p^h(2), b[#](2), #f(2), f[#](2), #v(2), t^h(2), #d(2), g(2), m[#], v[#], d(4), d[#], t[#], #n, ʌ[#], r, θ, ð, #z, #l, t^h, #j, k^h, #g, g[#], ŋ[#], #x (367)

a(26), ə(24), ɪ(22), i^j(15), u^w(15), ε(14), æ(12), i^j#(10), e^j(9), ʌ(8), #a(7), o^w#(6), a^j(6), o^w(5), ʌ[#](5), ɔ(3), #i^j(2), u^w#(2), #ə(2), ə[#](2), ε^j(2), a^w(2), i[#], ɪ, #u^w, #u^ː, u[#], #ɪ, e^j#, ø, #o^w, #ε, ε[#], εɪ, #Λ, Λ, æ^j, a, aɪ, a^j#, a[#] (212)

Broad: ɹ(40), n(36), s(31), l(30), b(28), k(25), t(22), w(22), m(20), t(16), p(14), d(14), f(14), f(12), v(8), z(8), h(6), r(5), j(5), g(4), t[#], r, θ, ð, ŋ, x (367)

a(34), i(28), ə(28), ɪ(23), u(20), ε(19), ʌ(13), æ(13), o(12), a(11), e(10), ɔ(3), ʌ(2), ɪ, ø (212)

579 total segments

Supra-Segments: Consonant Clusters

Consonant Cluster Total for Stressed and Unstressed Syllables and Monosyllables according to Syllable Configuration

Monosyllable Consonant Cluster Onset (all entries are word initial): **#sm(2)**, #p^hl, #bl, #bɹ, #sl, #fw, #k^hw (8)

Monosyllable Consonant Cluster Coda (all entries are word final): **nt#(2)**, st#, ɹtʃ#, ɹv#, ɹb# (6)

First Syllable Consonant Cluster Stressed Onset (all entries are word initial): #bl(5), #t^hɹ(2), #sw(2), #k^hɹ(2), #p^hl, #fl, #dɹ, #sɹ, #sk, #spl, #k^hw (18)

First Syllable Consonant Cluster Stressed Coda:

First Syllable Consonant Cluster Unstressed Onset (all entries are word initial): #pl, #bl, #bɹ, #gw (4)

First Syllable Consonant Cluster Unstressed Coda:

Second Syllable Consonant Cluster Stressed Onset: p^hl (1)

Second Syllable Consonant Cluster Stressed Coda:

Second Syllable Consonant Cluster Unstressed Onset: **st(2)**, vɹ (3)

Second Syllable Consonant Cluster Unstressed Coda: ɹs# (1)

Third Syllable Consonant Cluster Stressed Onset:

Third Syllable Consonant Cluster Stressed Coda:

Third Syllable Consonant Cluster Unstressed Onset: dɹ, kw (2)

Third Syllable Consonant Cluster Unstressed Coda:

Fourth Syllable Consonant Cluster Stressed Onset:

Fourth Syllable Consonant Cluster Stressed Coda:

Fourth Syllable Consonant Cluster Unstressed Onset:

Fourth Syllable Consonant Cluster Unstressed Coda:

Fifth Syllable Consonant Cluster Stressed Onset:

Fifth Syllable Consonant Cluster Stressed Coda:

Fifth Syllable Consonant Cluster Unstressed Onset:

Fifth Syllable Consonant Cluster Unstressed Coda:

Consonant Cluster Total for Stressed and Unstressed Onsets and Codas

Stressed Onset: #bl(5), #t^hɹ(2), #sw(2), #k^hɹ(2), #p^hl, p^hl, #fl, #dɹ, #sɹ, #sk, #spl, #k^hw (19)

Stressed Coda:

Unstressed Onset: **st(2)**, #pl, #bl, #bɹ, vɹ, dɹ, kw, #gw (9)

Unstressed Coda: ɹs# (1)

Consonant Cluster Total for Onsets and Codas

Onset: **#bl(7), #p^hl(2), #bɹ(2), #t^hɹ(2), #sm(2), st(2), #sw(2), #k^hɹ(2), #k^hw(2)**, #pl, p^hl, #fl, vɹ, #dɹ, dɹ, #sɹ, #sk, #spl, #sl, #fw, kw, #gw (36)

Coda: **nt#(2)**, ns#, st#, ɹtʃ#, ɹv#, ɹb# (7)

Consonant Cluster Total for Stressed and Unstressed Syllables and Monosyllables

Monosyllable Consonant Cluster: **nt#(2), #sm(2)**, #p^hl, #bl, #bɹ, #sl, st#, #fw, ɹtʃ#, ɹv#, ɹb#, #k^hw (14)

First Syllable Consonant Cluster Stressed: #bl(5), #t^hɹ(2), #sw(2), #k^hɹ(2), #p^hl, #fl, #dɹ, #sɹ, #sk, #spl, #k^hw (18)

First Syllable Consonant Cluster Unstressed: #pl, #bl, #bɹ, #gw (4)

Second Syllable Consonant Cluster Stressed: p^hl (1)

Second Syllable Consonant Cluster Unstressed: **st(2)**, vɹ, ɹs# (4)

Third Syllable Consonant Cluster Stressed:

Third Syllable Consonant Cluster Unstressed: dɹ, kw (2)

Fourth Syllable Consonant Cluster Stressed:

Fourth Syllable Consonant Cluster Unstressed:

Fifth Syllable Consonant Cluster Stressed:

Fifth Syllable Consonant Cluster Unstressed:

Consonant Cluster Total per Syllable

First Syllable Consonant Cluster: **#bl(6), #tʰɹ(2), #sw(2), #kʰɹ(2), #pʰl, #pl, #bɹ, #fl, #dɹ, #sɹ, #sk, #spl, #kʰw, #gw** (22)

Second Syllable Consonant Cluster: **st(2), pʰl, vɹ, ɲs#** (5)

Third Syllable Consonant Cluster: **dɹ, kw** (2)

Fourth Syllable Consonant Cluster:

Fifth Syllable Consonant Cluster:

Consonant Cluster Stressed and Unstressed Total

Consonant Cluster Stressed: #bl(5), #tʰɹ(2), #sw(2), #kʰɹ(2), #pʰl, pʰl, #fl, #dɹ, #sɹ, #sk, #spl, #kʰw (19)

Consonant Cluster Unstressed: st(2), #pl, #bl, #bɹ, vɹ, dɹ, ɲs#, #gw, kw (10)

Consonant Cluster Total (absolute)

Narrow: **#bl(7), #pʰl(2), #bɹ(2), #tʰɹ(2), nt#(2), #sm(2), st(2), #sw(2), #kʰw(2), #kʰɹ(2), #pl, pʰl, #fl, vɹ, #dɹ, dɹ, ɲs#, #sl, st#, #sɹ, #sk, #spl, #fɹ, ɹtʃ#, ɹv#, ɹb#, kw, #gw** (43)

Broad: **bl(7), pl(4), st(3), kw(3), bɹ(2), tɹ(2), dɹ(2), nt(2), sm(2), sw(2), kɹ(2), fl, vɹ, ns, sl, sɹ, sk, spl, fɹ, ɹtʃ, ɹv, ɹb, gw** (43)

43 total consonant clusters

Supra-Segments: Whole Syllables

Whole Syllable Total for Stressed and Unstressed Syllables and Monosyllables

Monosyllable Whole Syllable:

**#bɹiːn#, #miːg#, #smiːt#, #fwiːst#,
#uːˈz#, #fuːʃ#, #vuːt#, #duːf#, #smuːt#, #xu#, #wuː#,
#kʰweː#,
#oːt#, #soːnt#,
#jəːb#, #wəːf#,
#veːɹ#, #beːt#, #weːt#,
#blæːs#,
#pan#, #maːp#, #slaːnt#, #faːn#, #laːf#,
#aɹθ#, #pʰlæt#, #baz#, #san#, #kʰaɹtʃ#** (30)

First Syllable Whole Syllable Stressed (all entries are word initial):

**#kʰuː(2), #wɹ(2), #bleː(2), #dɛ(2), #a(2),
#iː, #pʰiː, #miː,
#uː, #tʰɹuː, #suːt, #zuː, #fuː,
#blɹn, #flɹm, #splɹ, #swɹn, #wɹn, #hɹm,
#pʰlθ,
#bloː, #kʰoː,
#swəː,
#pʰɛ, #blek, #nɛ, #kʰɹɛ, #weːt,
#ʌp, #bʌ,
#kʰɹɹ,
#pʰlæn, #bæ, #dɹæ, #skæ, #sæ, #kʰwæ, #kʰæː, #kʰɹæ, #kʰæ, #wæv,
#tʰaːn,
#aɹ, #ba, #tʰɹam, #sa, #sɹan, #kʰa, #wa, #waf, #wan, #haɹ** (57)

First Syllable Whole Syllable Unstressed (all entries are word initial):

**#ə(2), #a(2),
#iː,
#huː,
#ɹn, #sɹ, #wɹ,**

#k^heⁱn,
 #ho^w,
 #plə, #bɪə, #bə, #və, #də, #sə,
 #sə,
 #ε,
 #daⁱ, #haⁱ,
 #an, #bla, #gwaɪ, #ha (25)

Second Syllable Whole Syllable Stressed:

fiⁱ, niⁱɪ#, wiⁱɪ,
 fu^w,
 p^hɪ, t^hɪn,
 feⁱ, seⁱd^ɪʔ#, ɹeⁱ, weⁱd^ɪʔ#,
 ə,
 beɪ, veɪɪ#, ɹeɪz^ɪʔ#,
 k^hɔ,
 fæⁱɪ,
 p^hlaⁱ,
 ban, t^ha, ɹam^ɪʔ#, ja (21)

Second Syllable Whole Syllable Unstressed:

liⁱʔ#(2), lo^wʔ#(2), mə^ɪʔ#(2), bæ^ɪʔ#(2),
 biⁱʔ#, miⁱʔ#, viⁱʔ#, tiⁱʔ#, diⁱʔ#, ziⁱʔ#, ɹiⁱz^ɪʔ#, li,
 ʃɪl^ɪʔ#,
 bu^wʃ^ɪʔ#, ɹu^wʔ#, ju^w,
 dɪʃ^ɪʔ#, fɪn^ɪʔ#, ðɪk^ɪʔ#, ɹɪk^ɪʔ#, lɪd^ɪʔ#,
 ɹeⁱv^ɪʔ#,
 bo^wʔ#, to^wʔ#, ɹo^wʔ#, lo^w,
 pəŋ^ɪʔ#, bə^ɪʔ#, bə^ɪʔ#, mə, fə^ɪʔ#, təs^ɪʔ#, təŋ^ɪʔ#, də, rə, səŋ^ɪʔ#, stə, ʃəŋ^ɪʔ#, ɹə, ɹəŋs^ɪʔ#, ɹəŋ^ɪʔ#, lə, ləf^ɪʔ#, kə^ɪʔ#, kə, gə^ɪʔ#,
 fə^ɪʔ#, və^ɪʔ#, nə^ɪʔ#, lə^ɪʔ#, kə,
 neɪ^ɪʔ#, leɪ^ɪʔ#,
 baⁱʔ#,
 daɪ^ɪʔ#, na, stə^ɪʔ#, ʃan^ɪʔ# (61)

Third Syllable Whole Syllable Stressed:

miⁱʔ, niⁱʔ,
 bæ (3)

Third Syllable Whole Syllable Unstressed:

niⁱɪɪ#, niⁱʔ, ɹiⁱʔ,
 viŋ^ɪʔ#, ʃɪs^ɪʔ#, lɪ, kwɪ,
 t^ho^wʔ#,
 təŋ^ɪʔ#, tə, rə, rə^ɪʔ#, rəs^ɪʔ#, rək^ɪʔ#, səŋ^ɪʔ#, zə, ɹə^ɪʔ#, ləs^ɪʔ#, lɘə^ɪʔ#, jəŋ^ɪʔ#, gəŋ^ɪʔ#,
 dɪɛ^ɪʔ#,
 tɔɪ^ɪʔ#,
 naⁱn^ɪʔ#,
 tət^ɪʔ#, ɹan^ɪʔ#, wap^ɪʔ# (27)

Fourth Syllable Whole Syllable Stressed:

nɛ (1)

Fourth Syllable Whole Syllable Unstressed:

tiⁱʔ#, riⁱʔ#, ɹiⁱʔ#,
 ɹɪk^ɪʔ#,
 ə^ɪʔ#, əs^ɪʔ#, əs^ɪʔ#, əŋ^ɪʔ#, zəŋ^ɪʔ# (9)

Fifth Syllable Whole Syllable Stressed:

Fifth Syllable Whole Syllable Unstressed:

teⁱʔ# (1)

Whole Syllable Total per Syllable

First Syllable Whole Syllable (all entries are word initial):

#a(4), #wɪ(3), #iː(2), #kʰu(2), #bleɪ(2), #ə(2), #dɛ(2),
 #pʰi, #mi,
 #u, #tʰu, #su, #zu, #fu, #hu,
 #ɪn, #blɪn, #flɪm, #sɪ, #splɪ, #swɪn, #wɪn, #hɪm,
 #kʰeɪn,
 #pʰlɔ,
 #blo, #kʰo, #ho,
 #plə, #bɪə, #bə, #və, #də, #sə,
 #sə, #swə,
 #ɛ, #pʰɛ, #blek, #nɛ, #kʰɪɛ, #wɛt,
 #ʌp, #bʌ,
 #kʰɔɪ,
 #pʰlæn, #bæ, #dɪæ, #skæ, #sæ, #kʰwæ, #kʰæs, #kʰɪæ, #kʰæ, #wæv,
 #tʰa, #da, #ha,
 #aɪ, #an, #ba, #bla, #tʰam, #sa, #sɪan, #kʰa, #gwaɪ, #wa, #waf, #wan, #haɪ, #ha (82)

Second Syllable Whole Syllable:

lo(2), m(2), b(2),
 bi, mi, fi, vi, ti, di, ni, zi, ɹi, li, wi,
 ʃi,
 bu, fu, ju,
 pʰɪ, dɪf, fɪn, tʰɪn, ðɪk, ɹɪk, lɪd,
 fe, seɪd, ɹe, ɹeɪv, weɪd,
 bo, to, ɹo, lo,
 pə, bə, mə, fə, təs, təm, də, rə, səm, stə, ʃə, ɹə, ɹəns, ɹəm, lə, ləf, kə, gə,
 ə, fə, və, nə, lə, kə,
 beɪ, veɪ, neɪ, ɹeɪ, leɪ,
 kʰɔ,
 fæɪ,
 pʰla, ba,
 ban, tʰa, da, na, sta, ʃan, am, ja (82)

Third Syllable Whole Syllable:

ni(2),
 mi, ni, ɹi,
 vi, ʃɪ, lɪ, kwi,
 tʰo,
 tə, rə, ɹə, rəs, rək, sə, zə, ɹə, ləs, lə, ɹə, ɹə,
 dɪɛ,
 tɔɪ,
 bæ,
 naɪn,
 taɪ, ɹan, wap (30)

Fourth Syllable Whole Syllable:

ti, ɹi, ɹi,
 ɹɪk,
 ə, əs, əs, əm, zəm,
 nɛ (10)

Fifth Syllable Whole Syllable:

te (1)

Whole Syllable Stressed and Unstressed Total

Whole Syllable Stressed:

#k^hu^w(2), #wi(2), #ble^j(2), #dɛ(2), #a(2),
 #i^j, #p^hi^j, #mi^j, mi^j, fi^j, ni^j, ni^jɿ, wi^jɿ,
 #u^w, fu^w, #t^hɿu^w, #su^wɿ, #zu^w, #ɸu^w,
 p^hɿ, #bliɿ, #fliɿ, t^hɿɿ, #splɿ, #swɿɿ, #wɿɿ, #hɿɿ,
 fe^j, se^jd^ɿɿ, ɿe^j, we^jd^ɿɿ,
 #p^hlɔ, #blo^w, #k^ho^w,
 ʌ, #swʌ, #p^hɛ, bɛɿ, #blɛk, vɛɿɿ, #nɛ, nɛ, ɿɛz#, #k^hɿɛ, #wɛɿ,
 #ʌp, #bʌ, #k^hɿɿ, k^hɿɿ,
 #p^hlæn, #bæ, bæ, fæɿɿ, #dɿæ, #skæ, #sæ, #k^hwæ, #k^hæɿ, #k^hɿæ, #k^hæ, #wæv,
 p^hlæɿ, #t^ha^wn,
 #aɿ, #ba, baɿ, t^ha, #t^hɿam, #sa, #sɿan, ɿam#, #k^ha, ja, #wa, #waf, #wan, #haɿ (82)

Whole Syllable Unstressed:

li^j(2), ɿɿk^h(2), lo^w(2), #ə(2), mɿɿ(2), bɿɿ(2), #a(2),
 #i^j, bi^jɿ, mi^jɿ, vɿɿɿ, ti^jɿ, ti^j, di^jɿ, ni^jɿ, ri^jɿ, zi^jɿ, ɿi^j, ɿi^jɿ, ɿi^jz#, li,
 ɸiɿɿ,
 bu^wɸɿ, ɿu^wɿ, ju^w, #hu^w,
 #ɿɿ, diɸɿ, fiɿɿ, vɿɿɿ, ðɿkɿ, #sɿ, ɸɿsɿ, li, liɸɿ, kwi, #wi,
 teɿɿ, ɿeɿvɿ, #k^heɿɿ,
 bo^wɿ, to^wɿ, t^ho^wɿ, ɿo^wɿ, lo^w, #ho^w,
 p^hɿɿ, əɿ, əsɿ, əsɿ, #plə, bɿ, bɿɿ, #bɿə, #bə, mə, ɿɿɿ, fɿɿ, #və, təsɿ, tɿɿɿ, tɿɿɿ, tə, də, #də, rə, rə, rɿɿ, rəsɿ, rəkɿ, sɿɿɿ, sɿɿɿ, stə, #sə,
 zə, zɿɿɿ, ɸɿɿɿ, ɿə, ɿɿɿ, ɿɿɿsɿ, ɿɿɿɿ, lə, ləfɿ, ləsɿ, lɿəɿ, jɿɿɿ, kɿɿ, kə, gɿɿɿ, gɿɿɿ,
 fəɿ, və, nəɿ, #sə, ləɿ, kə,
 #ɛ, dɿɛɿ, nɛɿɿ, lɛɸɿɿ,
 tɿɿɿ,
 baɿɿ, #daɿ, naɿɿ, #haɿ,
 #an, #bla, taɿɿ, daɿɿ, na, staɿ, ɸanɿ, ɿanɿ, #gwaɿ, wapɿ, #ha (123)

Whole Syllable Total (absolute)

Narrow:

#a(4), #wi(3), #i^j(2), #ni^j(2), #ni^jɿ(2), #li^j(2), #k^hu^w(2), ɿɿk^h(2), #ble^j(2), lo^w(2), #ə(2), mɿɿ(2), bɿɿ(2), #dɛ(2),
 #biɿɿɿ, #p^hi^j, bi^jɿ, mi^jɿ, #mi^j, mi^j, #mi^jgɿ, fi^j, vɿɿɿɿ, ti^jɿ, ti^j, di^jɿ, ri^jɿ, #smi^jɿɿ, zi^jɿ, #ɸwiɿɿstɿ, ɿi^j, ɿi^jɿ, ɿi^jz#, li, wi^jɿ,
 ɸiɿɿɿ,
 #u^w, #u:ɿzɿ, bu^wɸɿ, fu^w, #fu^wɸɿ, #vu^wɿɿ, #t^hɿu^w, #du^wɸɿ, #smu^wɿɿ, #su^wɿ, #zu^w, #ɸu^w, ɿu^wɿ, ju^w, #xuɿ, #wu^wɿ, #hu^w,
 #ɿɿ, p^hɿ, #bliɿ, diɸɿ, fiɿɿ, #fliɿ, vɿɿɿ, t^hɿɿ, ðɿkɿ, #sɿ, #splɿ, #swɿɿ, ɸɿsɿ, li, liɸɿ, kwi, #wɿɿ, #hɿɿ,
 fe^j, te^jɿ, se^jd^ɿɿ, ɿe^j, ɿeɿvɿ, #k^heɿɿ, #k^hweɿɿ, we^jd^ɿɿ,
 #p^hlɔ, #o^wtɿ, bo^wɿ, #blo^w, to^wɿ, t^ho^wɿ, #so^wntɿ, ɿo^wɿ, lo^w, #k^ho^w, #ho^w,
 p^hɿɿ, əɿ, əsɿ, əsɿ, #plə, bɿ, bɿɿ, #bɿə, #bə, mə, ɿɿɿ, fɿɿ, #və, təsɿ, tɿɿɿ, tɿɿɿ, tə, də, #də, rə, rə, rɿɿ, rəsɿ, rəkɿ, sɿɿɿ, sɿɿɿ, stə, #sə,
 zə, zɿɿɿ, ɸɿɿɿ, ɿə, ɿɿɿ, ɿɿɿsɿ, ɿɿɿɿ, lə, ləfɿ, ləsɿ, lɿəɿ, jɿɿɿ, kɿɿ, kə, gɿɿɿ, gɿɿɿ,
 ʌ, fəɿ, və, nəɿ, #sə, #swʌ, ləɿ, #jəɿbɿ, kə, #wəɸɿ,
 #ɛ, #p^hɛ, bɛɿ, #blɛk, #bɛɿvɿ, dɿɛɿ, vɛɿɿɿ, #vɛɿɿɿ, #nɛ, nɛ, nɛɿ, ɿɛz#, lɛɸɿɿ, #k^hɿɛ, #wɛɿ, #wɛɿbɿ,
 #ʌp, #bʌ, tɿɿɿ, #k^hɿɿ, k^hɿɿ,
 #p^hlæn, #bæ, bæ, #blæsɿ, fæɿɿ, #dɿæ, #skæ, #sæ, #k^hwæ, #k^hæɿ, #k^hɿæ, #k^hæ, #wæv,
 p^hlæɿ, #panɿ, baɿɿ, #maɿpɿ, #t^ha^wn, #daɿ, naɿɿ, #slaɿntɿ, #ɸa^wnɿ, #laɿɸɿ, #haɿ,
 #an, #aɿ, #aɿθɿ, #p^hlatɿ, #bazɿ, #bla, #ba, baɿ, taɿɿ, t^ha, #t^hɿam, daɿɿ, na, staɿ, #sa, #sɿan, #sanɿ, ɸanɿ, ɿanɿ, ɿam#, ja, #k^ha, #k^hɿaɿɸɿ,
 #gwaɿ, wapɿ, #wa, #waf, #wan, #ha, #haɿ (237)

Broad:

a(4), mi(3), li(3), wi(3), lo(3), ə(3), i(2), ti(2), ni(2), niɿ(2), ɿi(2), ku(2), ɿɿk(2), ble(2), to(2), əs(2), bɿɿ(2), mɿɿ(2), də(2),
bɿɿ(2), vɛɿ(2), dɛ(2),
nɛ(2), bæ(2),
 buɿɿ, pi, bi, mig, fi, vɿɿ, di, ri, smiɿ, zi, ɸwist, ɿiz, wiɿ,

fɪl,
 u, uz, buf, fu, fuf, vuʔ, tɪu, duf, smuʔ, suʔ, zu, ʃu, ʒu, ju, xu, wu, hu,
 ɪn, pɪ, blɪn, dɪʃ, fɪn, flɪm, vɪŋ, tɪn, ðɪk, sɪ, splɪ, swɪn, ʃɪs, lɪ, lɪd, kwɪ, wɪn, hɪm,
 fe, te, sed, ɹe, ɹev, ken, kwe, wed,
 plø,
 ot, bo, blo, sont, ɹo, ko, ho,
 pʰŋ, plə, bɹə, bə, mə, ʰm, fəʔ, və, təs, tʰm, tʰŋ, tə, rə, rə, rəʔ, rəs, rək, sʰm, sʰŋ, stə, sə, zə, zʰm, ʃʰŋ, ɹə, ɹəʔ, ɹʰŋs, ɹʰm, lə, ləf, ləs, lʃə, jʰm, kəʔ,
 kə, gəʔ, gʰŋ,
 ə, fə, və, nə, sə, swə, lə, jəb, kə, wəʃ,
 ɛ, pɛ, bɛ, blɛk, bɛʋ, dɹɛ, nɹɪ, ɹɛz, lɛd, kɹɛ, wɛʔ, wɛʔb,
 ʌp, bʌ,
 tɹɪ, kɹɪ, kɹ,
 plæn, blæs, fæɹ, dɹæ, skæ, sæ, kwæ, kæs, kɹæ, kæ, wæv,
 pla, pan, ba, map, tan, da, nan, slant, fan, laf, ha,
 an, aɪ, aɪθ, plat, baz, bla, ba, ban, taʔ, ta, tɹam, daɹ, na, sta, sa, sɹan, san, fan, ɹan, ɹam, ja, ka, kaɪʃ, gwaɹ, wap, wa, waf, wan, ha, haɹ
 (237)

237 total whole syllables

Supra-Segments: Whole Words

Whole Word Total per Word Length

113 total words

Whole Monosyllables:

yurb [jəb], shweest [ʃwiʔst], shoun [ʃaʰn], pahn [pan], bahz [baz], blass [blæs], welb [wɛʔb], ooze [uːʰz], woo [wuʰ],
 plaht [pʰlat], arth [aɪθ], foosh [fuʰʃ], belv [bɛʋ], smeel [smiʔ], slynt [slaʔnt], vool [vuʰʃ], meeg [miʔg], oat [oʰt], breen [bɹiʔn],
 hoo [xu], sohnt [soʰnt], mipe [maʔp], wursh [wəʃ], kway [kʰweʔ], vair [vɛʔɹ], sahn [san], lahsh [laːʃ], doof [duʰʃ], kahrch
 [kʰaɪʃ], smool [smuʰʃ]

Whole Bisyllables:

KRAmul [kʰɹæ·məʔ], NEHtoe [nɛ·toʰ], SAHlow [sa·loʰ], PLEUsheul [pʰlø·ʃɪ], BLEktus [blɛk·təs], KOOstah [kʰuʰ·sta],
 PLANdee [pʰlæn·diʔ], ZOOluf [zuʰ·ləʃ], WAVrum [wæv·ɹəm], AHboosh [a·buʰʃ], HAHRlee [haɹ·liʔ], WELLfur [wɛʔ·fə],
 BLOshun [bloʰ·ʃŋ], DEHpuhn [dɛ·pʰŋ], KREHrunc [kʰɹɛ·ɹʰŋs], SHOOful [ʃuʰ·fəʔ], KOlo [kʰoʰ·loʰ], BLAYmee [bleʔ·miʔ], WAHvree
 [wa·vɹiʔ], Aluhr [kʰæ·lə], BLINdahr [blɪn·daɹ], SRAHNtee [sɹan·tiʔ], WASHroo [waf·ɹuʰ], BLAYthik [bleʔ·ðɪk], DRABul [dɹæ·bəʔ],
 UPled [ʌp·lɛd], WINair [wɪ·nɛɹ], SKARow [skæ·ɹoʰ], OOLid [uʰ·lɪd], SAreez [sæ·ɹiʔz], AHkul [a·kəʔ], FLIMbee [flɪm·biʔ],
 KWAgul [kʰwæ·gəʔ], SPLIHnur [splɪ·nə], TOWNby [tʰaʰn·baʔ], SWURmul [swə·məʔ], SWINzee [swɪn·ziʔ], PEEsum [pʰiʔ·səʔ],
 TROObur [tʰɹuʰ·bə], KOOfin [kʰuʰ·fɪn], WINshahn [wɪn·ʃan], SOOLrik [suʰʔ·ɹɪk], HIMtuhm [hɪm·təʔ], BAHRrayve
 [ba·ɹɛʋ], AHRboe [aɹ·boʰ], WIHlee [wɪ·liʔ], WAHNdish [wan·dɪʃ],

buhNEER [bə·'niʔɹ], surREZ [sə·'ɹɛz], suhWAID [sə·'weʔd], ahVAIR [a·'vɛʔɹ], vuhRAHM [və·'ɹam], blahSAYD [bla·'seʔd]

Whole Trisyllables:

BUHbultuhn [bʌ·bəʔ·təʔ], TRAHMyoulus [tʰɹam·juʰ·ləs], MEEleeyum [miʔ·li·jəʔ], KAHluhrah [kʰa·lə·ɹan], EEvurneer
 [iʔ·və·niʔɹ], PEHRuhtahl [pʰɛ·ɹə·taʔ], KASKuhnine [kʰæs·kə·naʔn], WASHburdul [waf·bə·rəʔ], BAKurwaph [bæ·kə·wap],
 DESTuhtor [dɛ·stə·tɹɪ],

sihRAYshis [sɪ·ɹeʔ·ʃɪs], kayneFAYgun [kʰeʔn·'feʔ·gʰŋ], ahnTAHveeng [an·tʰa·vɪŋ], haiFOOtoe [haʔ·'fuʰ·tʰoʰ], dyTIHNSun
 [daʔ·tʰɪn·səʔ], uhWEERdreh [ə·'wiʔɹ·dɹɛ], inFAIRdus [ɪn·'fæʔɹ·rəs], eeYAHtuk [iʔ·'ja·rək], uhFEEleeh [ə·'fiʔ·lʃə], hooURrul
 [huʰ·'ə·ɹəʔ]

Whole Tetrasyllables:

KORduhlizm [kʰɹɪ·rə·lɪ·zəʔ],

ehPIHKwihtee [ɛ·pʰɪ·kwɪ·riʔ], hoPLYneerus [hoʰ·pʰlaʔ·niʔ·əs], duhBAHNtuhree [də·'ban·tə·ɹiʔ], pluhKORreeyus [plə·'kʰɹɪ·ɹiʔ·əs],
 bruhBEHruhtee [bɹə·'bɛɹ·rə·tiʔ],

wihlowBARik [wɪ·lɔʷ·'bæ·ɹɪk], gwarduhMEEum [gwaɹ·də·'miʲ·əŋ], hahmuhNEEyuh [ha·mə·'niʲ·ə]

Whole Pentasyllables:

anahzuhNETay [a·na·zə·'nɛ·teʲ]

	Syllable Receiving Stress					
	None	First	Second	Third	Fourth	Fifth
Word Length Total						
Monosyllabic: 30						
Bisyllabic: 53	0	47	6			
Trisyllabic: 20	0	10	10	0		
Tetrasyllabic: 9	0	1	5	3	0	
Pentasyllabic: 1	0	0	0	0	1	0
Total: 113	0	58	21	3	1	0



Question ID: c.

Segments

Segment Total for Stressed and Unstressed Syllables and Monosyllables according to Syllable Configuration

Monosyllable Onset: **ɹ(4), #p^h(2), #b(2), #f(2)**, m, #d, #s, #ʃ, #ʒ, #ɹ, #k^h, #w, w (19)Monosyllable Nucleus: **i^j(2), ɪ(2), æ(2), a(2)**, #o^w, o^w, o^w#, ε, a, ā (14)Monosyllable Coda: **ʃ#(5), t#(2)**, p, m, d#, dʒ#, n#, n, s#, s, ɹ, t, k#, g# (19)First Syllable Segment Stressed Onset: **ɹ(8), #s(7), #m(6), l(6), #k^h(6), #p^h(4), #b(4), #f(4), #g(4), #d(3), #dʒ(3), #z(3), #t^h(2), #ɹ(2), #k(2), k(2), #w(2)**, p, f, #v, #tʃ, #ʃ, #l, w (69)First Syllable Segment Stressed Nucleus: **a(11), ɪ(9), æ(9), i^j(6), ε(6), u^w(3), e^j(3), ʌ(3), a^j(3), ʌ(2), #a(2)**, o^w, #ε, ɔ, #æ (61)First Syllable Segment Stressed Coda: **n(6), ɹ(6), m(3), k(3), d(2)**, p, b, f, t, s, ʃ, t, ɡ, ŋ (29)First Syllable Segment Unstressed Onset: **#k(6), #b(5), #m(5), ɹ(5), #g(3), #n(2), #p, #f, #v, #dʒ, #ɹ, #j, #k^h** (33)First Syllable Segment Unstressed Nucleus: **ə(8), ε(4), a(4), #a(3), u(2), #ə(2), ʌ(2), #æ(2), æ(2)**, i^j, u^w, #ɪ, ɪ, e^j, o^w, #ə, ə, #ɔ (38)First Syllable Segment Unstressed Coda: **ɹ(4), m(2)**, d, n, s, z, l, g (12)Second Syllable Segment Stressed Onset: **t^h(6), ɹ(6), b(4), m(2), f(2), z(2), l(2)**, p, d, dʒ, n, j, k^h, g (31)Second Syllable Segment Stressed Nucleus: **ε(5), æ(4), i^j(3), a(3), u^w#, u^w(2), e^j(2)**, i, ɪ, o^w, ə, a^j (26)Second Syllable Segment Stressed Coda: **n#(2), k#(2)**, b, m, dʒ#, n, s#, ɹ, t (11)Second Syllable Segment Unstressed Onset: **t(9), l(9), ɹ(8), f(6), s(6), p(5), r(5), m(4), d(4), n(4), b(3), z(3), g(3), t^h(2), dʒ(2), θ(2), ʃ(2), j(2), tʃ, k, h** (82)Second Syllable Segment Unstressed Nucleus: **ə(15), ɪ(9), a(9), i^j#, i^j(4), ə#(3), u^w(2), o^w(2), ə#(2), ʌ#(2), ʌ#(2), ʌ(2), a^j(2), ʌ^w, u^w#, e^j#, o, ʌ, ɔ, æ, a^w, a^h** (72)Second Syllable Segment Unstressed Coda: **n#(6), ʃ#(3), ɹ#(3), t#(2), n(2), s#(2), k#(2)**, v#, tʃ#, dʒ#, tʃ#, z#, tʃ#, x# (27)Third Syllable Segment Stressed Onset: **f, t^h, n, ɹ, j, k^h** (6)Third Syllable Segment Stressed Nucleus: **a(2)**, ε, ε^j, æ#, a (6)Third Syllable Segment Stressed Coda: **n, tʃ** (2)Third Syllable Segment Unstressed Onset: **ɹ(6), l(5), t(4), d(4), m(3), n(3), ʃ(3), z(2)**, p, b, v, t^h, dʒ, r, θ, s, ʒ, j, k, g (42)Third Syllable Segment Unstressed Nucleus: **a(6), i^j(4), ə(4), ɪ(3), o^w#, ə#(3), ʌ#(3), a^j(3), i^j#, ʌ#(2), ʌ#(2), æ** (34)Third Syllable Segment Unstressed Coda: **n#(4), d#(3), s#(3), k#(3), ɹ(2)**, tʃ#, tʃ, n, z#, ɹ#, kʃ#, ŋ# (22)

Fourth Syllable Segment Stressed Onset:

Fourth Syllable Segment Stressed Nucleus:

Fourth Syllable Segment Stressed Coda:

Fourth Syllable Segment Unstressed Onset: **t(4)**, d, n, r, ɹ, l, k, g (11)Fourth Syllable Segment Unstressed Nucleus: **i^j#, ə#(3), ə(2)**, ɪ, e^j#, o^w#, ʌ# (13)Fourth Syllable Segment Unstressed Coda: **d#, k#** (2)

Fifth Syllable Segment Stressed Onset:

Fifth Syllable Segment Stressed Nucleus:

Fifth Syllable Segment Stressed Coda:

Fifth Syllable Segment Unstressed Onset: **s** (1)Fifth Syllable Segment Unstressed Nucleus: **ɪ** (1)Fifth Syllable Segment Unstressed Coda: **s#** (1)

Segment Total for Stressed and Unstressed Onsets and Codas

Stressed Onset: ɹ(15), l(8), t^h(7), #s(7), #m(6), #k^h(6), #p^h(4), #b(4), b(4), #f(4), f(4), #g(4), #d(3), #dʒ(3), #z(3), p(2), m(2), #t^h(2), n(2), z(2), #ɹ(2), j(2), #k(2), k^h(2), k(2), #w(2), #v, d, #tʃ, dʒ, #f, #l, g, w (112)

Stressed Coda: n(8), ɹ(7), m(4), k(3), b(2), d(2), n#(2), t(2), k#(2), p, f, t, d^h, s, s#, f, t#, ɡ, ŋ (42)

Unstressed Onset: ɹ(20), t(17), l(15), d(9), n(8), s(8), m(7), r(7), p(6), f(6), #k(6), #b(5), #m(5), z(5), f(5), g(5), b(4), t^h(3), dʒ(3), θ(3), j(3), k(3), #g(3), #n(2), #p, #f, #v, v, tʃ, #dʒ, ʒ, #ɹ, #j, #k^h, h (169)

Unstressed Coda: n#(10), ɹ(6), k#(6), s#(5), d#(4), n(4), ɹ#(4), t#(3), f#(3), m(2), t^h#(2), z#(2), v#, d, d^h, tʃ#, s, z, l t#, k^h#, g, ŋ#, x# (63)

Segment Total for Onsets and Codas

Onset: ɹ(39), l(23), t(17), #b(11), #m(11), m(10), f(10), t^h(10), d(10), n(10), p(8), b(8), s(8), #s(8), #k^h(8), #k(8), #f(7), r(7), z(7), #g(7), #p^h(6), g(6), f(5), j(5), k(5), #d(4), #dʒ(4), dʒ(4), #ɹ(4), θ(3), #z(3), #w(3), #v(2), #t^h(2), #n(2), #f(2), k^h(2), w(2), #p, v, #tʃ, tʃ, #ʒ, ʒ, #l, #j, h (300)

Coda: ɹ(14), n#(13), n(13), k#(9), f#(8), m(7), s#(7), t#(5), d#(5), ɹ#(4), d(3), s(3), t(3), k(3), p(2), b(2), t^h#(2), d^h#(2), z#(2), t#(2), f, v#, t, tʃ#, dʒ#, z, f, l, k^h#, g, ɡ, g#, ŋ, ŋ#, x# (124)

Segment Total for Stressed and Unstressed Syllables and Monosyllables

Monosyllable Segment: f#(5), ɹ(5), #p^h(2), #b(2), m(2), #f(2), t#(2), p, #d, d#, dʒ#, n#, n, #s, s, s#, #f, #ʒ, #ɹ, t, #k^h, k#, g#, #w, w (38)

i^j(2), ɪ(2), æ(2), a(2), #o^w, o^w, o^w#, ε, a, ā (14)

First Syllable Segment Stressed: ɹ(14), #s(7), #m(6), n(6), l(6), #k^h(6), k(5), #p^h(4), #b(4), #f(4), #g(4), m(3), #d(3), #dʒ(3), #z(3), p(2), f(2), #t^h(2), d(2), #ɹ(2), #k(2), #w(2), b, #v, t, #tʃ, s, #f, f, #l, t, ɡ, ŋ, w (104)

a(11), ɪ(9), æ(9), i^j(6), ε(6), u^w(3), e^j(3), ʌ(3), a^j(3), ə(2), #a(2), o^w, #ε, ɔ, #æ (61)

First Syllable Segment Unstressed: ɹ(9), #k(6), #b(5), #m(5), #g(3), m(2), #n(2), ʔ(2), #p, #f, #v, d, #dʒ, n, s, z, #ɹ, l, #j, #k^h, g (47)

ə(8), ε(4), a(4), #a(3), u(2), #ə(2), #æ(2), æ(2), i^j, u^w, #ɪ, ɪ, e^j, o^w, #ə, ə, #ɔ (36)

Second Syllable Segment Stressed: ɹ(7), t^h(6), b(5), m(3), f(2), n#(2), n(2), z(2), l(2), k#(2), p, d, d^h, dʒ, s#, t, j, k^h, g (42)

ε(5), æ(4), i^j(3), a(3), u^w#(2), u^w(2), e^j(2), i, ɪ, o^w, ə, a^j (26)

Second Syllable Segment Unstressed: t(9), l(9), ɹ(8), f(6), n#(6), n(6), s(6), p(5), r(5), m(4), d(4), b(3), z(3), f#(3), ɹ#(3), g(3), ʔ(2), t^h(2), t#(2), dʒ(2), ʔ(2), θ(2), s#(2), f(2), ʔ#(2), j(2), k#(2), v#, t^h#, d^h#, tʃ#, z#, t#, k, x#, h (115)

ə(15), ɪ(9), a(9), i^j#(7), i^j(4), ə#(3), u^w(2), o^w(2), ə#(2), ə(2), a^j(2), ʊ^w, u^w#, e^j#, o, ʔ, ɔ, æ, a^w, aɪ^h (66)

Third Syllable Segment Stressed: n(2), f, t^h, ɹ, t#, j, k^h (8)

a(2), ε, ε^j, æ#, a (6)

Third Syllable Segment Unstressed: ɹ(8), l(5), t(4), d(4), n(4), n#(4), m(3), d#(3), s#(3), f(3), ʔ#(3), k#(3), ʔ(2), z(2), p, b, v, t^h, t^h#, t#, dʒ, r, θ, s, z#, ʒ, ɹ#, j, k, k^h#, g, ŋ# (69)

a(6), i^j(4), ə(4), ɪ(3), o^w#(3), ə#(3), a^j(3), i^j#(2), æ (29)

Fourth Syllable Segment Stressed:

Fourth Syllable Segment Unstressed: t(4), d, d#, n, ʔ(2), r, ɹ, l, k, k#, g (14)

i^j#(3), ə#(3), ə(2), ɪ, e^j#, o^w#, a# (12)

Fifth Syllable Segment Stressed:

Fifth Syllable Segment Unstressed: s, s# (2)

ɪ (1)

Segment Total by Syllable

First Syllable Segment: ɹ(23), #m(11), #b(9), #k(8), n(7), #s(7), l(7), #k^h(7), #g(7), m(5), #f(5), k(5), #p^h(4), #dʒ(4), #d(3), d(3), #z(3), #ɹ(3), p(2), f(2), #v(2), #t^h(2), #n(2), ɱ(2), s(2), #w(2), #p, b, t, #tʃ, z, #ʃ, ʃ, #l, t, #j, g, ɡ, ɲ, w (151)

ɑ(15), æ(11), ɪ(10), ε(10), ə(8), i^j(7), #ɑ(5), u^w(4), e^j(4), ʌ(3), #æ(3), a^j(3), u(2), o^w(2), #ə(2), #ɪ, #ə, #ε, #ɔ, ɔ (97)

Second Syllable Segment: ɹ(15), l(11), t(9), b(8), f(8), t^h(8), n#(8), n(8), m(7), p(6), s(6), d(5), r(5), z(5), k#(4), g(4), dʒ(3), s#(3), ʃ#(3), ɹ#(3), j(3), ɱ#(2), t#(2), d^ʰ#(2), ɱ(2), θ(2), ʃ(2), ɸ#(2), v#, t^ʰ#, ts#, tʃ, z#, t#, k^h, k, x#, h (157)

ə(15), ɑ(12), ɪ(10), i^j#(7), i^j(7), ε(5), æ(5), u^w(4), u^w#(3), o^w(3), ʌ(3), ʌ#(3), a^j(3), e^j(2), ə#(2), i, ʊ^w, e^j#, o, ɸ, ɔ, a^w, a:^h (92)

Third syllable Segment: ɹ(9), n(6), l(5), t(4), d(4), n#(4), m(3), d#(3), s#(3), ʃ(3), ɸ#(3), k#(3), t^h(2), ɱ#(2), z(2), j(2), p, b, f, v, t^ʰ#, t#, dʒ, r, θ, s, z#, ʒ, ɹ#, t#, k, k^ʰ, g, ɲ# (77)

ɑ(8), i^j(4), ə(4), ɪ(3), o^w#(3), ə#(3), a^j(3), i^j#(2), ε, ε^j, æ#, æ, a (35)

Fourth Syllable Segment: t(4), d, d#, n, ɱ#, r, ɹ, l, k, k#, g (14)

i^j#(3), ə#(3), ə(2), ɪ, e^j#, o^w#, a# (12)

Fifth Syllable Segment: s, s# (2)

ɪ (1)

Segment Stressed and Unstressed Total

Stressed Segment: ɹ(22), n(10), l(8), t^h(7), #s(7), b(6), #m(6), m(6), #k^h(6), f(5), k(5), #p^h(4), #b(4), #f(4), #g(4), p(3), #d(3), d(3), #dʒ(3), #z(3), #t^h(2), n#(2), z(2), #ɹ(2), t(2), j(2), k^h(2), #k(2), k#(2), #w(2), #v, t, d^ʰ#, #tʃ, dʒ, s, s#, #ʃ, ʃ, #l, t#, g, ɡ, ɲ, w (154)

ɑ(16), æ(13), ε(12), ɪ(10), i^j(9), u^w(5), e^j(5), a^j(4), ʌ(3), u^w#(2), o^w(2), #ɑ(2), i, #ε, ε^j, ɔ, #æ, æ#, a (93)

Unstressed Segment: ɹ(26), t(17), l(16), n(12), d(10), n#(10), m(9), s(9), r(7), p(6), f(6), s#(6), z(6), #k(6), k#(6), g(6), #b(5), #m(5), ɸ#(5), b(4), d#(4), ɱ(4), ɹ#(4), t^h(3), t#(3), dʒ(3), ɱ#(3), θ(3), ʃ#(3), j(3), k(3), #g(3), ɱ#(2), t^ʰ#(2), #n(2), z#(2), ʃ(2), #p, #f, #v, v, v#, d^ʰ#, ts#, tʃ, #dʒ, ʒ, #ɹ, t#, ɸ, #j, #k^h, k^ʰ#, ɲ#, x#, h (248)

ə(29), ɑ(19), ɪ(15), i^j#(12), i^j(9), ə#(8), a^j(5), o^w#(4), ε(4), æ(4), u^w(3), o^w(3), ʌ(3), ʌ#(3), #ɑ(3), u(2), e^j#(2), #ə(2), #æ(2), ʊ^w, u^w#, #ɪ, e^j, o, #ə, #ɔ, ɔ, a^w, a#, a:^h (143)

Segment Total (absolute)

Narrow: ɹ(53), l(24), n(23), t(18), m(17), d(13), n#(13), #b(11), #m(11), f(11), s(11), p(10), b(10), t^h(10), k#(9), #s(8), s#(8), z(8), ʃ#(8), #k^h(8), #k(8), k(8), #f(7), r(7), #g(7), g(7), #p^h(6), t#(5), d#(5), ɸ#(5), j(5), #d(4), #dʒ(4), dʒ(4), ɱ(4), ɹ#(4), #ɹ(4), ɱ#(3), θ(3), #z(3), ʃ(3), t(3), #w(3), ɱ#(2), #v(2), #t^h(2), t^ʰ#(2), d^ʰ#(2), #n(2), z#(2), #f(2), t#(2), k^h(2), w(2), #p, v, v#, ts#, #tʃ, tʃ, dʒ#, #ʒ, ʒ, #l, ɸ, #j, k^ʰ#, ɡ, g#, ɲ#, ɲ, x#, h (425)

ɑ(37), ə(29), ɪ(27), i^j(20), æ(19), ε(17), i^j#(12), a^j(9), u^w(8), ə#(8), e^j(6), o^w(6), ʌ(6), o^w#(5), #ɑ(5), u^w#(3), ʌ#(3), #æ(3), u(2), e^j#(2), #ə(2), ɔ(2), ɑ(2), i, ʊ^w, #ɪ, o, #o^w, #ə, #ε, ε^j, #ɔ, æ#, a^w, a#, a:^h, ā (265)

Broad: ɹ(61), n(45), t(37), k(36), m(30), s(27), l(25), d(24), b(21), f(18), p(17), g(16), z(13), ʃ(13), t(11), dʒ(9), r(7), j(6), w(5), v(4), θ(3), tʃ(2), ʒ(2), ɲ(2), ts, x, h (425)

ɑ(44), ə(39), ɪ(33), ɪ(28), æ(23), ε(19), u(13), o(13), a(13), ʌ(10), e(8), ʌ(3), ɔ(3), ʊ (265)

690 total segments

Supra-Segments: Consonant Clusters

Consonant Cluster Total for Stressed and Unstressed Syllables and Monosyllables according to Syllable Configuration

Monosyllable Consonant Cluster Onset (all entries are word initial): **#bɹ(2)** (2)

Monosyllable Consonant Cluster Coda (all entries are word final): **mstʃ, ndʒ#** (2)

First Syllable Consonant Cluster Stressed Onset (all entries are word initial): #fɹ(3), #gɹ(3), #pʰl(2), #bl, #sk, #sp, #skɹ, #zl, #kl, #kʰw, #kʰɹ, #gl (17)

First Syllable Consonant Cluster Stressed Coda:

First Syllable Consonant Cluster Unstressed Onset (all entries are word initial): **#bɹ(3), #kɹ, #kʰɹ** (5)

First Syllable Consonant Cluster Unstressed Coda:

Second Syllable Consonant Cluster Stressed Onset: bɹ(2), tʰɹ(2), tɹ, gɹ (6)

Second Syllable Consonant Cluster Stressed Coda: ɹk# (1)

Second Syllable Consonant Cluster Unstressed Onset: **pɹ, bɹ, bl, fɹ, st** (5)

Second Syllable Consonant Cluster Unstressed Coda: **ntʃ#** (1)

Third Syllable Consonant Cluster Stressed Onset:

Third Syllable Consonant Cluster Stressed Coda:

Third Syllable Consonant Cluster Unstressed Onset: **tɹ, st** (2)

Third Syllable Consonant Cluster Unstressed Coda: **ndʃ, ɹdʃ#, ɹt#** (3)

Fourth Syllable Consonant Cluster Stressed Onset:

Fourth Syllable Consonant Cluster Stressed Coda:

Fourth Syllable Consonant Cluster Unstressed Onset:

Fourth Syllable Consonant Cluster Unstressed Coda:

Fifth Syllable Consonant Cluster Stressed Onset:

Fifth Syllable Consonant Cluster Stressed Coda:

Fifth Syllable Consonant Cluster Unstressed Onset:

Fifth Syllable Consonant Cluster Unstressed Coda:

Consonant Cluster Total for Stressed and Unstressed Onsets and Codas

Stressed Onset: #fɹ(3), #gɹ(3), #pʰl(2), bɹ(2), tʰɹ(2), #bl, tɹ, #sk, #sp, #skɹ, #zl, #kl, #kʰw, #kʰɹ, gɹ, #gl (23)

Stressed Coda: ɹk# (1)

Unstressed Onset: **#bɹ(3), st(2), pɹ, bɹ, bl, fɹ, tɹ, #kɹ, #kʰɹ** (12)

Unstressed Coda: **ndʃ, ntʃ#, ɹdʃ#, ɹt#** (4)

Consonant Cluster Total for Onsets and Codas

Onset: **#bɹ(5), bɹ(3), #fɹ(3), #gɹ(3), #pʰl(2), tʰɹ(2), tɹ(2), st(2), #kʰɹ(2), pɹ, #bl, bl, fɹ, #sk, #sp, #skɹ, #zl, #kl, #kʰw, #kɹ, gɹ, #gl** (37)

Coda: **mstʃ, ndʃ, ntʃ#, ndʒ#, ɹdʃ#, ɹt#, ɹk#** (7)

Consonant Cluster Total for Stressed and Unstressed Syllables and Monosyllables

Monosyllable Consonant Cluster: **#bɹ(2), mstʃ, ndʒ#** (4)

First Syllable Consonant Cluster Stressed: #fɹ(3), #gɹ(3), #pʰl(2), #bl, #sk, #sp, #skɹ, #zl, #kl, #kʰw, #kʰɹ, #gl (17)

First Syllable Consonant Cluster Unstressed: **#bɹ(3), #kɹ, #kʰɹ** (5)

Second Syllable Consonant Cluster Stressed: bɹ(2), tʰɹ(2), tɹ, ɹk#, gɹ (7)

Second Syllable Consonant Cluster Unstressed: **pɹ, bɹ, bl, fɹ, ntʃ#, st** (6)

Third Syllable Consonant Cluster Stressed:

Third Syllable Consonant Cluster Unstressed: **tɹ, ndʃ, st, ɹdʃ#, ɹt#** (5)

Fourth Syllable Consonant Cluster Stressed:

Fourth Syllable Consonant Cluster Unstressed:

Fifth Syllable Consonant Cluster Stressed:

Fifth Syllable Consonant Cluster Unstressed:

Consonant Cluster Total per Syllable

First Syllable Consonant Cluster: **#bɹ(3), #fɹ(3), #gɹ(3), #pʰɹ(2), #kʰɹ(2)**, #bl, #sk, #sp, #skɹ, #zl, #kl, #kʰw, #kɹ, #gl (22)

Second Syllable Consonant Cluster: **bɹ(3), tʰɹ(2)**, pɹ, bl, fɹ, tɹ, ntʰ#, st, ɹk#, gɹ (13)

Third Syllable Consonant Cluster: tɹ, nd#, st, ɹdʰ#, ɹt# (5)

Fourth Syllable Consonant Cluster:

Fifth Syllable Consonant Cluster:

Consonant Cluster Stressed and Unstressed Total

Consonant Cluster Stressed: #fɹ(3), #gɹ(3), #pʰɹ(2), bɹ(2), tʰɹ(2), #bl, tɹ, #sk, #sp, #skɹ, #zl, ɹk#, #kl, #kʰw, #kʰɹ, gɹ, #gl (24)

Consonant Cluster Unstressed: **#bɹ(3), st(2)**, pɹ, bɹ, bl, fɹ, tɹ, ntʰ#, nd#, ɹdʰ#, ɹt#, #kɹ, #kʰɹ (16)

Consonant Cluster Total (absolute)

Narrow: **#bɹ(5), bɹ(3), #fɹ(3), #gɹ(3), #pʰɹ(2), tʰɹ(2), tɹ(2), st(2), #kʰɹ(2)**, pɹ, #bl, bl, mst#, fɹ, ntʰ#, nd#, ndʒ#, #sk, #sp, #skɹ, #zl, ɹk#, ɹdʰ#, ɹt#, #kl, #kʰw, #kɹ, gɹ, #gl (44)

Broad: **bɹ(8), fɹ(4), tɹ(4), gɹ(4), kɹ(3), pl(2), bl(2), st(2)**, pɹ, mst, nt, nd, ndʒ, sk, sp, skɹ, zl, ɹk, ɹd, ɹt, kl, kw, gl (44)

44 total consonant clusters

Supra-Segments: Whole Syllables

Whole Syllable Total for Stressed and Unstressed Syllables and Monosyllables

Monosyllable Whole Syllable:

#fmiʲf#, #ɹiʲf#,
#bɹɪndʒ#, #fɹɪt#,
#oʷf#, #pʰoʷ#, #bɹoʷmst#,
#fɹɛpʲf#,
#dæk#, #kʰɹæs#,
#wan#, #
pʰaɹg#, #swaf#, #ʒād# (14)

First Syllable Whole Syllable Stressed (all entries are word initial):

#mɛ(2),
#fɹiʲ, #tʰiʲn, #tʰiʲ, #diʲ, #spiʲ, #gliʲn,
#muʷ, #dʒuʷ, #skɹuʷp,
#bɪn, #mɪ, #mɪf, #dɪŋ, #dɪg, #dʒɪ, #sɪm, #zɪ, #kʰɪt,
#pʰleʲ, #beʲ, #kʰleʲ,
#gɹoʷ,
#bæ, #sæ,
#ɛk, #ble, #beɹ, #le, #gɹɛf, #gɹɛ,
#vɹ, #sɹn, #zɹk,
#kʰɔ,
#æ, #pʰæ, #pʰlæ, #mæd, #tʃæm, #sæ, #skæn, #zlæk, #kʰæ, #gæn,
#faʲ, #kʰaʲ, #waʲ,
#aɹ, #ab, #pʰaɹ, #faɹ, #fɹat, #fɹa, #dʒaɹ, #fɹaɹ, #ɹad, #ɹas, #kʰwan, #kla, #wam (62)

First Syllable Whole Syllable Unstressed (all entries are word initial):

#ə(2), #mə(2), #kʰn(2), #aɹ(2),
#bɹiʲ,

#ku, #kul, #gu^w,
 #ɪg, #kɪɪ,
 #bɪe^j,
 #mo^w,
 #pə, #məm, #fə, #dʒə, #ɪə, #kə,
 #ə, #bə,
 #bɪɛ, #vɛ, #nɛ,
 #ɔɪ,
 #æ, #æs, #kʰɪæd, #kæz,
 #a, #maɪ, #na, #gam, #ja (37)

Second Syllable Whole Syllable Stressed:

bɪɪ^j, mɪɪf#, nɪk#, zɪ^j,
 tʰu^ws#, tʰɪu^w, tʰu^w#, ɡɪu^w#,
 ɪɪ,
 me^j, le^j,
 lo^wnt^ː#, go^w,
 tʰə,
 bɛ, bɛn#, mɛ, zɛm, jɛt,
 pʰæn#, tʰæn, tʰæ, ɹæb,
 bɪa, tʰɪa^j, dʒa^j,
 daɪk#, kʰad^ː# (28)

Second Syllable Whole Syllable Unstressed:

pɪɪ#(2), zɪɪ#(2), rə(2), fə(2), tə#(2),
 pɪɪ^j, nɪɪ#, rɪɪ, rɪɪ#, lɪɪ#, lɪ^j, lɪ,
 tʰjɛ^w,
 du^w, du^wn, hju^w#,
 bɪɪk#, mɪɪf#, fɪɪn#, tɪk#, dɪn#, sɪt#, sɪd^ː#, sɪv#, ʃɪn#,
 ɹɛɪ^j#,
 to, tɪo^wz#,
 pə, pəɪ#, mə, fə, fəŋ, fəɪ#, təf#, təs#, tʃə, dʒə, nə, ʊəŋ#, ʊə, stə#, sə, lə#, lə, ləŋ#, ɹt, kɹt, ɡə, ɡəŋ,
 bə, rə#,
 dɔɪ#,
 blæt#,
 ɹa^ws#, la^jts#,
 maɪ^ː# faɪ#, dʒaɪ#, na, naɪ#, ran#, sta, zan#, ʃan#, lax# (71)

Third Syllable Whole Syllable Stressed:

tʰɛ, kʰɛɪt^ː#,
 næ, jæ#,
 na,
 fa, za, ɹan (8)

Third Syllable Whole Syllable Unstressed:

ʃɪs#(2), lo^w#(2),
 mɪɪɪd^ː#, dɪɪ#, dɪɪn#, nɪɪ, ʊɪɪ, lɪɪ#,
 mɪk#, vɪŋ#, stɪk^ː#, zɪn#, ɪɪt^ː#, ɪɪn#,
 to^w#,
 ə, pə, bəɪ#, mə#, tɪə, dʒə, rək#, ʃəŋ#, ʒəŋ#, ɹəɪ#, ɹə, lə#, ɡəɪ#,
 taɪz#, daɪk#, daɪs#,
 tʰan#, naɪt#, ɹa#, land#, jad#, kaɪ# (39)

Fourth Syllable Whole Syllable Stressed:

Fourth Syllable Whole Syllable Unstressed:

tɪɪ#(2),
 nɪɪ#,

rɪk#,
 ɹeɪ#,
 goʊ#,
 ə#, təd#, də#, ʔn#, lə, kə#,
 ta# (13)

Fifth Syllable Whole Syllable Stressed:

Fifth Syllable Whole Syllable Unstressed:
 sɪs# (1)

Whole Syllable Total per Syllable

First Syllable Whole Syllable (all entries are word initial):

#aɪ(3), #ə(2), #mə(2), #kən(2), #bæ(2), #mɛ(2), #æ(2),
 #bɪɪ, #fɪɪ, #tʰɪɪn, #tʰɪɪ, #dɪɪ, #spɪɪ, #glɪɪn,
 #muʷ, #dʒuʷ, #skɪuʷp, #ku, #kul, #guʷ,
 #ɪg, #bɪn, #mɪ, #mɪf, #dɪŋ, #dɪŋ, #dʒɪ, #sɪm, #zɪ, #kʰɪt, #kɪɪ,
 #pʰleɪ, #bɪeɪ, #beɪ, #kʰleɪ,
 #moʷ, #gɹoʷ,
 #pə, #məm, #fə, #dʒə, #ɹə, #kə,
 #ə, #sə,
 #ɛk, #bleɪ, #bɪeɪ, #bɛɪ, #veɪ, #neɪ, #leɪ, #gɹɛf, #gɹɛ,
 #vʌ, #sʌn, #zʌk,
 #ɔɪ, #kʰɔɪ,
 #æs, #pʰæ, #pʰlæ, #mæd, #tʃæm, #sæ, #skæɪn, #zlæk, #kʰæ, #kʰlæd, #kæz, #gæɪn,
 #faɪ, #kʰaɪ, #waɪ,
 #a, #ab, #pʰaɪ, #maɪ, #faɪ, #fɪat, #fɪa, #dʒaɪ, #na, #faɪ, #ɹad, #ɹas, #ja, #kʰwan, #kla, #gam, #wam (99)

Second Syllable Whole Syllable:

pɪɪ#(2), zɪɪ#(2), ɹə(2), fə(2), tə#(2),
 pɪɪ, bɪɪ, mɪɪf#, nɪɪ#, nɪɪk#, rɪɪ, rɪɪ#, zɪɪ, lɪɪ#, lɪɪ, li,
 tʰjɛʷ,
 tʰuʷs#, tʰɹuʷ, tʰuʷ#, duʷ, duʷn, gɹuʷ#, hjuʷ#,
 bɪɪk#, mɪɪf#, fɪɪn#, tɪk#, dɪn#, sɪt#, sɪdʷ#, sɪv#, fɪn#, ɹɪ, meɪ, ɹeɪ#, leɪ,
 to, tɹoʷz#, loʷntʷ#, goʷ,
 pə, pʰtʰ#, mə, fə, fəŋ, fətʰ#, təf#, təs#, tʃə, dʒə, nə, ʔmɪ#, ʔə, stə#, sə, lə#, lə, lʰmɪ#, ʔt, kʰt, gə, gʰŋ,
 bæ, tʰə, rə#,
 beɪ, ben#, mɛ, zɛm, jɛt,
 dɔɪ#,
 pʰæn#, blæt#, tʰæn, tʰæ, ɹæb,
 bɹa, tʰɹaɪ, dʒaɪ, ɹaʷs#, laɪts#,
 maɪʰ#, faɪ#, daɪk#, dʒaɪt#, na, naɪ#, ran#, sta, zan#, fan#, lax#, kʰadʷ# (99)

Third Syllable Whole Syllable:

fɪs#(2), loʷ#(2),
 mɪɪɹdʷ#, dɪɪ#, dɪɪn#, nɪɪ, ʔɪɪ, lɪɪ#,
 mɪk#, vɪŋ#, stɪkʷ#, zɪn#, ɹɪtʷ#, ɹɪn#,
 toʷ#,
 ə, pə, bʰtʰ#, mə#, tɹə, dʒə, rək#, fəŋ#, ʒəŋ#, ɹʰtʰ#, ɹə, lə#, gʰtʰ#,
 tʰɛ, kʰɛtʰ#,
 nə, jæ#,
 taɪz#, daɪk#, daɪs#, na,
 fa, tʰan#, naɪt#, za, ɹa#, ɹan, land#, jad#, kaɪ# (47)

Fourth Syllable Whole Syllable:

tɪɪ#(2),
 nɪɪ#,
 rɪk#,

jeⁱ#,
go^w#,
ə#, təd#, də#, əŋ#, lə, kə#,
ta# (13)

Fifth Syllable Whole Syllable:
sis# (1)

Whole Syllable Stressed and Unstressed Total

Whole Syllable Stressed:

#mε(2),
bɹiⁱ, miⁱf#, #fɹiⁱ, #t^hiⁱn, #t^hiⁱ, #diⁱ, niⁱk#, #spiⁱ, ziⁱ, #gliⁱn,
#mu^w, t^hu^ws#, t^hɹu^w, t^hu^w#, #dʒu^w, #skɹu^wp, ɡɹu^w#,
#bɪn, #mɪ, #mɪf, #dɪŋ, #dɪɡ, #dʒɪ, #sɪm, #zɪ, ɹɪ, #k^hɪt,
#p^hleⁱ, #beⁱ, meⁱ, leⁱ, #k^hleⁱ,
lo^wnt^ˌ#, go^w, #ɡɹo^w,
#bə, t^hə, #sə,
#ɛk, bɛ, bɛn#, #ble, #beɪ, mɛ, t^hɛ, zɛm, #lɛ, jɛt, k^hɛt^h#, #ɡɹɛf, #ɡɹɛ,
#vʌ, #sʌn, #zʌk,
#k^hɔ,
#æ, p^hæn#, #p^hæ, #p^hlæ, #mæd, t^hæn, t^hæ, #tʃæm, nə, #sæ, #skæn, #zlæk, ɹæb, jæ#, #k^hæ, #ɡæn,
bɹa, #faⁱ, t^hɹaⁱ, dʒaⁱ, na, #k^haⁱ, #waⁱ,
#aɪ, #ab, #p^haɪ, fa, #faɪ, #fɹat, #fɹa, daɪk#, #dʒaɪ, za, #faj, #ɹad, #ɹas, ɹan, #k^hwan, k^had^ˌ#, #kla, #wam (98)

Whole Syllable Unstressed:

piⁱ#, tiⁱ#, niⁱ#, ziⁱ#, liⁱ#, ʃɪs#, ʃeⁱ#, lo^w#, #ə(2), pə(2), #mə(2), dʒə(2), rə(2), lə#(2), lə(2), #kən(2),
fə(2), tə#(2), #aɪ(2),
pɹiⁱ, #bɹiⁱ, miⁱd^ˌ#, diⁱ#, diⁱn#, niⁱ, riⁱ, riⁱ#, ʊiⁱ, liⁱ, li,
t^hjɛ^w,
du^w, du^wn, #ku, #kul, #ɡu^w, hju^w#,
#ɪɡ, bɹɪk#, mɪf#, mɪk#, ʃɹɪn#, vɪŋ#, tɪk#, dɪn#, rɪk#, stɪk^ˌ#, sɪt#, sɪs#, sɪd^ˌ#, sɪv#, zɪn#, ʃɪn#, ɹɪt^ˌ#, ɹɪn#, #kɹɪ,
#bleⁱ,
#mo^w, to, to^w#, tʊo^wz#, go^w#,
ə, ə#, #pə, pə^h#, bə^h#, mə, mə#, #məm, #fə, fə, fəŋ, fə^h#, təf#, təs#, təd#, tʊə, də#, tʃə, #dʒə, nə, əŋ#, rək#, ʊəŋ#, ʊə, ʃəŋ#, ʒəŋ#,
ɹə^h#, ɹə, #ɹə, ləŋ#, ɹə^h, kə^h, kə#, #kə, ɡə, ɡəŋ, ɡə^h#,
#ə, #bə, bə, rə#,
#bɪɛ, #vɛ, #nɛ,
#ɔɪ, dɔɪ#,
#æ, #æs, blæt#, #k^hæd, #kæz,
ta#, taⁱz#, daⁱk#, daⁱs#, ɹa^ws#, laⁱts#,
#a, #maɪ, maⁱˌ#, faɪ#, t^han#, dʒaⁱ#, na, #na, naɪ#, naɪt#, ran#, sta, zan#, ʃan#, ɹa#, lax#, land#, #ja, jad#, kaɪ#, #gam (161)

Whole Syllable Total (absolute)

Narrow:

#aɪ(3), piⁱ#, tiⁱ#, niⁱ#, ziⁱ#, liⁱ#, ʃɪs#, ʃeⁱ#, lo^w#, #ə(2), pə(2), #mə(2), dʒə(2), rə(2), lə#(2), lə(2),
#kən(2), #bə(2), fə(2),
tə#(2), #mε(2), #æ(2), fa(2), #faɪ(2),
pɹiⁱ, #bɹiⁱ, bɹiⁱ, miⁱf#, miⁱd^ˌ#, #fɹiⁱ, #t^hiⁱn, #t^hiⁱ, diⁱ#, #diⁱ, diⁱn#, niⁱk#, niⁱ, riⁱ, riⁱ#, ʊiⁱ, #spiⁱ, ziⁱ, #fmiⁱf#, #ɹiⁱf#, liⁱ, li, #gliⁱn,
t^hjɛ^w,
#mu^w, t^hu^ws#, t^hɹu^w, t^hu^w#, du^w, du^wn, #dʒu^w, #skɹu^wp, #ku, #kul, #ɡu^w, ɡɹu^w#, hju^w#,
#ɪɡ, bɹɪk#, #bɪn, #bɹɪndʒ#, #mɪ, #mɪf, mɪf#, mɪk#, ʃɹɪn#, #fɹɪt#, vɪŋ#, tɪk#, dɪn#, #dɪŋ, #dɪɡ, #dʒɪ, rɪk#, stɪk^ˌ#, sɪt#, sɪs#, sɪd^ˌ#, sɪv#,
#sɪm, #zɪ, zɪn#, ʃɪn#, ɹɪt^ˌ#, ɹɪn#, ɹɪ, #kɹɪ, #k^hɪt,
#p^hleⁱ, #beⁱ, #bleⁱ, meⁱ, leⁱ, #k^hleⁱ,
#o^wʃ#, #p^ho^w#, #bɹo^wmst#, #mo^w, to, to^w#, tʊo^wz#, lo^wnt^ˌ#, #ɡɹo^w, go^w, go^w#,
ə, ə#, #pə, pə^h#, bə^h#, mə, mə#, #məm, #fə, fə, fəŋ, fə^h#, təf#, təs#, təd#, tʊə, də#, tʃə, #dʒə, nə, əŋ#, rək#, ʊəŋ#, ʊə, ʃəŋ#, ʒəŋ#,
ɹə^h#, ɹə, #ɹə, ləŋ#, ɹə^h, kə^h, kə#, #kə, ɡə, ɡəŋ, ɡə^h#,
#ə, bə, t^hə, rə#, #sə,

#ɛk, bɛ, bɛn#, #blɛ, #bɛɹ, #bɹɛ, mɛ, #fɹɛpʃ#, #vɛ, tʰɛ, #nɛ, zɛm, #lɛ, jɛʃ, kʰɛʈ#, #gɹɛf, #gɹɛ,
 #vʌ, #sʌn, #zʌk,
 #ɔɹ, dɔɹ#, #kʰɔ,
 #æs, pʰæn#, #pʰæ, #pʰlæ, blæt#, #mæd, tʰæn, tʰæ, #dæk#, #tʃæm, næ, #sæ, #skæn, #zlæk, ɹæb, jæ#, #kʰæ, #kʰɹæd, #kæz, #kʰɹæs#,
 #gæn,
 bɹa, #faʲ, tʰɹaʲ, ta#, taʲz#, daʲk#, daʲs#, dʒaʲ, na, ɹaʷs#, laʲts#, #kʰaʲ, #waʲ, #wan#,
 #a, #ab, #pʰaɹ, #pʰaɹg#, #maɹ, maʲh#, faɹ#, #fɹat, #fɹa, tʰan#, daɹk#, #dʒaɹ, dʒaʃ#, na, #na, naɹ#, naɹt#, ran#, sta, #swaʃ#, zan#, za,
 #ʃaɹ, ʃan#, #ʒǎd#, ɹa#, #ɹad, #ɹas, ɹan, lax#, land#, #ja, jad#, #kʰwan, kaɹ#, kʰadʰ#, #kla, #gam, #wam (273)

Broad:

li(4), ə(4), mə(4), lə(4), ti(3), ni(3), zi(3), pə(3), dʒə(3), bə(3), tə(3), mɛ(3), aɹ(3), faɹ(3), pi(2), bɹi(2), di(2), ri(2),
 miʃ(2), ʃɹɪs(2), ɹɛ(2), to(2),
 lo(2), go(2), fə(2), rə(2), ɹə(2), kə(2), kʰən(2), fə(2), æ(2), fa(2), na(2),

pɹi, miʃ, miɹd, fɹi, tin, din, nik, ʈiʲ, spi, ʃmiʃ, ɹiʃ, glin,

tʃʌ,

mu, tus, tɹu, tu, du, dun, dʒu, skɹup, ku, kul, gu, gɹu, hju,

ɹg, bɹɪk, bɹɪn, bɹɪndʒ, mɪ, mɪk, ʃɹɪn, fɹɪt, vɪŋ, tɹɪk, dɹɪn, dɹɪŋ, dɹɪg, dʒɹɪ, rɪk, stɪk, sɪt, sɪs, sɪd, sɪv, sɪm, zɪ, zɪn, ʃɹɪn, ɹɪt, ɹɪn, ɹɪ, kɹɪ, kɹɪ,

ple, be, bɹɛ, me, le, kɹɛ,

oʃ, po, bɹomst, mo, tɹoz, lont, gɹo,

pʰɹ, bʰɹ, məm, ʰŋ, ʰɹ, təʃ, təs, təd, tɹə, də, tʃə, nə, ʰŋ, rək, ʈəŋ, ʈə, stə, sə, ʃəŋ, ʒəŋ, ɹʰ, ləŋ, ʰ, kʰ, gə, gʰŋ, gʰ,

ə, rə, sə,

ɛk, bɛ, bɛn, blɛ, bɛɹ, bɹɛ, fɹɛpʃ, vɛ, tɛ, nɛ, zɛm, lɛ, jɛʃ, kɛʃ, gɹɛf, gɹɛ,

vʌ, sʌn, zʌk,

ɔɹ, dɔɹ, kɔ,

æs, pæn, pæ, plæ, blæt, mæd, tæn, tæ, dæk, tʃæm, næ, sæ, skæn, zlæk, ɹæb, jæ, kæ, kɹæd, kæz, kɹæs, gæn,

bɹa, fa, tɹa, ta, taz, dak, das, dʒa, na, ɹas, lats, ka, wa, wan,

a, ab, paɹ, paɹg, maɹ, ma, fɹat, fɹa, tan, daɹk, dʒaɹ, dʒaʃ, naɹ, naɹt, ran, sta, swaʃ, zan, za, ʃaɹ, ʃan, ʒad, ɹa, ɹad, ɹas, ɹan, lax, land, ja,
 jad, kwan, kaɹ, kad, kla, gam, wam (273)

273 total whole syllables

Supra-Segments: Whole Words

Whole Word Total per Word Length

Whole Monosyllables:

poe [pʰoʷ], schmeesh [ʃmiʃʃ], pahrg [pʰaɹg], wan [wan], frepsh [fɹɛpʃ], kras [kʰɹæs], filt [fɹɪt], oash [oʷʃ], zhahnd [ʒǎd], bringe [bɹɪndʒ], dak [dæk], broamst [bɹoʷmst], swahsh [swaʃ], reesh [ɹiʃʃ]

Whole Bisyllables:

KWAHNtrowz [kʰwan·tɹoʷz], KOray [kʰɔ·ɹɛʲ], FREEmah [fɹiʲ·maʲh], DEEzee [diʲ·ziʲ], GREHpul [gɹɛ·pʰɹ], EKsit [ɛk·sɪt],
 SKANtush [skæn·təʃ], SUNfɹin [sʌn·fɹɪn], MOOnce [muʷ·niʲ], PLApee [pʰlæ·piʲ], SIMbrik [sɪm·bɹɪk], GANjahɹ [gæn·dʒaʃ], PLAYzahn [pʰleʲ·zan], FRAHlee [fɹa·liʲ], KILtuhr [kʰɪt·təʃ], KAIZee [kʰaʲ·ziʲ], RAHstuhs [ɹas·təs], GROWfähr [gɹoʷ·faɹ], BAYluh [beʲ·lə], ZLAKtik [zlæk·tɹɪk], FYhue [faʲ·hjuʷ], BINSid [bɪn·sɪdʰ], BURlah [bə·lax], SURrouse [sə·ɹaʷs], WAHMdin [wam·dɪn], PARthum [pʰaɹ·ʈəŋ], LEDee [lɛ·riʲ], GREftuhr [gɹɛf·təʃ], SPEEpee [spiʲ·piʲ], MIHtuhr [mi·rəʃ], AHBlites [ab·laʲts], MISHmish [miʃ·miʃʃ], TEEful [tʰiʲ·ʰɹ], DIGnahr [diɡʰ·naɹ], KRAYshahn [kʰɹɛʲ·ʃan], RAHDshin [ɹad·ʃɪn], FAHRdahn [faɹ·ran], MADstuh [mæd·stə], JILuhm [dʒɹɪ·ləŋ], FRAHTdor [fɹat·dɔɹ], CHAMblat [tʃæm·blæt], GLEENsiv [gliʲn·sɪv],

yahGROO [ja·gɹuʷ], kuhPAN [kə·pʰæn], ruhDARK [ɹə·daɹk], fuhNEEK [fə·niʲk], juhMEESH [dʒə·miʲʃ], mahrTOO [maɹ·tʰuʷ],
 gahmBEN [gam·bɛn], muhKHAD [mə·kʰadʰ], brayTOOS [bɹɛʲ·tʰuʷs], assLOWNT [æs·loʷntʰ]

Whole Trisyllables:

nahdoonlee [na·duʷn·liʲ],

KAPreeshish [kʰæ·pɹiʲ·ʃɹɪs], Apuhmuh [æ·pə·mə], VUHguhbul [vʌ·gə·bʰɹ], AHRnuhmik [aɹ·nə·mɪk], DINGfuhrah [dɪŋ·fə·ɹa],
 WYuhldyke [waʲ·ʰ·daʲk], TEENtyoulow [tʰiʲn·tʰjʌʷ·loʷ], MEHdeeyahd [mɛ·riʲ·jad], KLAHthuhtahn [kla·ʈə·tʰan], MEHtuhdys [mɛ·rə·daʲs], JOOleelahnd [dʒuʷ·liʲ·land], JAHRgundeen [dʒaɹ·gəŋ·diʲn], PALuhtoe [pʰæ·lə·toʷ], BLEFfunkahr [blɛ·ʰŋ·kaɹ],

SKROOPchuhmeerd, ['skʊʷp·tʃə·miːdʔ] SHARKulnart ['ʃaːkəʔ·naɪt], SATuhtize ['sæ·rə·taːz], ZIHburit ['zi·bə·ɪtʔ], ZUKfurl ['zʌk·fə·ɪʔ],
BAREsuhluh ['bɛɪ·sə·lə],

puhLAYshis [pə·'leː·ʃɪs], uhTRYgul [ə·'tʰjaː·gəʔ], arBREEzhun [aː·'bɹiː·ʒəʔ], kunJYveeng [kən·'dʒaː·vɪŋ], orTANdee [ɔː·'tʰæn·diː],
urTAStik [ə·'tʰæ·stɪkʔ], breeYELzin [bɹiː·'jɛt·zɪn], nehRITuk [nɛ·'ɹɪ·rək], muhTURin [mə·'tʰə·ɹɪn], muhmBRAHloe [məm·'bɹa·loʷ],
kazMAYshun [kæz·'meː·ʃəʔ],

kooleeYEAH [ku·li·'jæ], ardooKALE [aː·duʷ·'kʰɛʔ]

Whole Tetrasyllables:

igZEMpuhtuhd [ɪg·'zɛm·pə·təd], brehBEHruhtee [bɹɛ·'bɛ·ɹə·tiː], kuhnTRUuhtee [kən·'tʰɹuʷ·ə·tiː], kradGOnceuhn [kʰɹæd·'goʷ·niː·əʔ],
uhMETruhkuh [ə·'mɛ·tɹə·kə], moZEetheeuh [moʷ·'ziː·θiː·ə], burRABjuhnee [bə·'ɹæb·dʒə·niː],

kultohNAHtah [kul·to·'na·ta], ahnahTEHgoh [a·na·'tʰɛ·goʷ], krihmuhZAtik [kɹɪ·mə·'za·ɾɪk], goostahFAHray [guʷ·sta·'fa·ɹeː],
afuhRAHNduh [æ·fə·'ɹan·də]

Whole Pentasyllables:

vehjuhNALuhsis [vɛ·dʒə·'næ·lə·sɪs]

	Syllable Receiving Stress					
	None	First	Second	Third	Fourth	Fifth
Word Length Total						
Monosyllabic: 14						
Bisyllabic: 52	0	42	10			
Trisyllabic: 34	1	20	11	2		
Tetrasyllabic: 12	0	0	7	5	0	
Pentasyllabic: 1	0	0	0	1	0	0
Total: 113	1	62	28	8	0	0



Question ID: d.

Segments

Segment Total for Stressed and Unstressed Syllables and Monosyllables according to Syllable Configuration

Monosyllable Onset: **#s(6), ʃ(3), w(3), p(2), #f(2), l(2), k(2)**, m, #f, #t, #t^h, #n, #ʃ, #g, #w (28)Monosyllable Nucleus: **ɛ(3), i^l(2), a(2)**, i, u^w, eⁱ, ə, æⁱ, a, aⁱ, a# (15)Monosyllable Coda: **t#(4), ʃ#(3), n#(2), ʃ#(2), t(2)**, p#, m#, m, n, t#, k (19)First Syllable Segment Stressed Onset: **#s(27), #k^h(12), w(9), ʃ(6), #l(6), #b(4), #m(3), #ʃ(3), l(3), #g(3), #w(3), p(2), m(2), t(2), #r(2), #f(2), k(2)**,#p, #f, #v, v, #t^h, #t^f, #z, #j, j, #h (101)First Syllable Segment Stressed Nucleus: **ɪ(15), a(14), eⁱ(6), ə(6), æ(6), o^w(5), i^l(4), u^w(4), aⁱ(4), ɛ(3), #ə(2), u^w, #u, u, ʊ, e, #ɛ, ɔ, #æ, æⁱ, #a** (79)First Syllable Segment Stressed Coda: **n(9), t(4), ŋ(4), m(3), ʃ(3), p(2), s(2), v, k** (29)First Syllable Segment Unstressed Onset: **#s(5), #k(2)**, p, #p^h, #m, #d, #dʒ, #ʃ, ʃ, #l, k, #g, #w, w, #h (20)First Syllable Segment Unstressed Nucleus: **ɪ(5), ə(4), ə(2), #a(2)**, iⁱ, ʊ, #ə, əŋ, ɔ, #æ, a (20)

First Syllable Segment Unstressed Coda: d, n, s, ʃ (4)

Second Syllable Segment Stressed Onset: **ʃ(4), t^h(2), s(2), l(2), w(2)**, p^h, b, m, v, ʃ, ʒ, k, k^h (20)Second Syllable Segment Stressed Nucleus: **a(5), ɪ(3), ə(2)**, iⁱ, eⁱ, ɛ, ɔ, ɔⁱ, æ (16)Second Syllable Segment Stressed Coda: **n(2), ʃ#(2)**, f, dʒ#, ʃ#, t#, k# (9)Second Syllable Segment Unstressed Onset: **l(12), ʃ(8), z(7), g(7), t(6), p(5), v(5), w(5), n(4), b(3), m(3), d(3), r(3), k(3), ʔ(2), s(2), j(2)**, f, dʒ, ʔ, ʃ (84)Second Syllable Segment Unstressed Nucleus: **ə(15), i^l#(14), əⁱ#(10), ɪ(8), a(6), əŋ#(4), ɛ(4), ə(3), a(3), o^w#(2), əⁱ(2), əŋ#(2), ə#(2), eⁱ, o^w, ə#, əŋ, æ, a#, a^w#, aⁱ (137)**Second Syllable Segment Unstressed Coda: **n#(6), d#(5), p#(2), t^h#(2), d^h#(2), s#(2), t#(2), k#(2)**, t#, n, z#, ʃ#, ʃ#, g# (29)Third Syllable Segment Stressed Onset: m, t^h, n, l (4)Third Syllable Segment Stressed Nucleus: u^w#, ɛ, aⁱ, a (4)

Third Syllable Segment Stressed Coda:

Third Syllable Segment Unstressed Onset: **n(5), l(5), ʃ(4), s(3), k(2)**, b, v, z, ʃ, t, j (25)Third Syllable Segment Unstressed Nucleus: **ɪ(5), ə#(4), i^l(2), a(2)**, i: #, u^w#, eⁱ, eⁱ#, ə, əŋ#, əⁱ, ɛ (21)Third Syllable Segment Unstressed Coda: **s#(4), ŋ#(2)**, t#, d#, n#, s, ʃ#, ʃ# (12)

Fourth Syllable Segment Stressed Onset:

Fourth Syllable Segment Stressed Nucleus:

Fourth Syllable Segment Stressed Coda:

Fourth Syllable Segment Unstressed Onset: m, s, z, ʃ, ʃ, l (6)

Fourth Syllable Segment Unstressed Nucleus: **ə#(4), ɪ, eⁱ, ə, əŋ#** (8)Fourth Syllable Segment Unstressed Coda: **s#(2), k#** (3)

Fifth Syllable Segment Stressed Onset:

Fifth Syllable Segment Stressed Nucleus:

Fifth Syllable Segment Stressed Coda:

Fifth Syllable Segment Unstressed Onset:

Fifth Syllable Segment Unstressed Nucleus:

Fifth Syllable Segment Unstressed Coda:

Segment Total for Stressed and Unstressed Onsets and Codas

Stressed Onset: #s(27), #k^h(12), w(11), ɹ(10), #l(6), l(6), #b(4), m(4), #m(3), t^h(3), #ɹ(3), k(3), #g(3), #w(3), p(2), v(2), t(2), #r(2), s(2), #f(2), #p, p^h, b, #f, #v, #t^h, #tʃ, n, #z, ʒ, ʒ, #j, j, k^h, #h (125)

Stressed Coda: n(11), t(4), ŋ(4), m(3), ɹ(3), p(2), s(2), ɹ#(2), f, v, dʒ#, ʃ#, t#, k, k# (38)

Unstressed Onset: l(18), ɹ(14), n(9), z(9), g(7), p(6), v(6), t(6), s(6), k(6), w(6), #s(5), b(4), m(4), d(3), r(3), ʃ(3), j(3), ð(2), #k(2), #p^h, #m, f, #d, #dʒ, dʒ, θ, #ɹ, #l, t, #g, #w, #h (135)

Unstressed Coda: s#(8), n#(7), d#(6), k#(3), p#(2), t#(2), t`#(2), d`#(2), n(2), s(2), ʃ#(2), ɹ#(2), t#(2), ŋ#(2), d, z#, ɹ, g# (48)

Segment Total for Onsets and Codas

Onset: #s(38), ɹ(27), l(26), w(20), #k^h(12), k(11), p(10), n(10), m(9), z(9), v(8), t(8), s(8), #l(7), g(7), b(5), #ɹ(5), #g(5), #w(5), #b(4), #m(4), #f(4), ʃ(4), j(4), t^h(3), d(3), r(3), #f(2), #t^h(2), #r(2), ð(2), #k(2), #h(2), #p, #p^h, p^h, f, #v, #t, #d, #tʃ, #dʒ, dʒ, #n, θ, #z, ʒ, t, #j, k^h (288)

Coda: n(14), n#(9), s#(8), t#(6), d#(6), ʃ#(6), ɹ#(6), t(6), m(4), s(4), ɹ(4), t#(4), k#(4), ŋ(4), p#(3), p(2), t`#(2), d`#(2), k(2), ŋ#(2), m#, f, v, d, dʒ#, z#, g# (105)

Segment Total for Stressed and Unstressed Syllables and Monosyllables

Monosyllable Segment: #s(6), t#(4), ʃ#(3), ɹ(3), k(3), w(3), ε(3), p(2), m(2), n#(2), #f(2), ɹ#(2), l(2), t(2), i^j(2), a(2), p#, m#, #f, #t, #t^h, #n, n, #ɹ, t#, #g, #w, i, u^w, e^j, ə, æ^j, a, a^j, a# (62)

ε(3), i^j(2), a(2), i, u^w, e^j, ə, æ^j, a, a^j, a# (15)

First Syllable Segment Stressed: #s(27), #k^h(12), n(9), ɹ(9), w(9), #l(6), m(5), p(4), #b(4), t(4), ŋ(4), #m(3), #ɹ(3), l(3), k(3), #g(3), #w(3), v(2), t(2), #r(2), s(2), #f(2), #p, #f, #v, #t^h, #tʃ, #z, #j, j, #h (130)

ɹ(15), a(14), e^j(6), ə(6), æ(6), o^w(5), i^j(4), u^w(4), a^j(4), ε(3), #ə(2), ʊ^w, #u, u, ʊ, e, #ε, ɔ, #æ, æ^j, #a (79)

First Syllable Segment Unstressed: #s(5), ɹ(2), #k(2), p, #p^h, #m, #d, d, #dʒ, n, əŋ, s, #ɹ, #l, k, #g, #w, w, #h (25)

ɹ(5), ə(4), ə(2), #a(2), i^j, ʊ, #ə, ɔ, #æ, a (19)

Second Syllable Segment Stressed: ɹ(4), t^h(2), n(2), s(2), ɹ#(2), l(2), w(2), p^h, b, m, f, v, dʒ#, ʃ, ʃ#, ʒ, t#, k#, k, k^h (29)

a(5), ɹ(3), ə(2), i^j, e^j, ε, ɔ, ɔ^j, æ (16)

Second Syllable Segment Unstressed: l(12), ʔ#(10), ɹ(8), z(7), g(7), t(6), n#(6), p(5), v(5), d#(5), n(5), w(5), əŋ#(4), b(3), m(3), d(3), r(3), k(3), p#(2), əŋ#(2), t`#(2), d`#(2), ð(2), s(2), s#(2), t#(2), ʔ(2), j(2), k#(2), f, t#, dʒ, əŋ, θ, z#, ʃ, ʃ#, ɹ#, g# (132)

ə(15), i^j#(14), ɹ(8), a(6), ε(4), ə(3), a(3), o^w#(2), ə#(2), e^j, o^w, ə#, æ, a#, a^w#, a^j (64)

Third Syllable Segment Stressed: m, t^h, n, l (4)

u^w#, ε, a^j, a (4)

Third Syllable Segment Unstressed: n(5), l(5), s(4), s#(4), ɹ(4), k(2), ŋ#(2), b, əŋ#, v, t#, d#, n#, z, ʃ, ʃ#, ɹ#, t, ʔ, j (39)

ɹ(5), ə#(4), i^j(2), a(2), i: #, u^w#, e^j, e^j#, ə, ε (19)

Fourth Syllable Segment Stressed:

Fourth Syllable Segment Unstressed: s#(2), m, əŋ#, s, z, ʃ, ɹ, l, k# (10)

ə#(4), ɹ, e^j, ə (7)

Fifth Syllable Segment Stressed:

Fifth Syllable Segment Unstressed:

Segment Total by Syllable

First Syllable Segment: **#s(32), #k^h(12), ʃ(11), n(10), w(10), #l(7), p(5), m(5), #b(4), #m(4), #ʃ(4), t(4), k(4), #g(4), ŋ(4), #w(4), s(3), l(3), v(2), t(2), #r(2), #f(2), #k(2), #h(2), #p, #p^h, #f, #v, #t^h, #d, d, #tʃ, #dʒ, ʔ, #z, #j, j** (155)

ɪ(20), a(15), ʌ(8), e^j(6), æ(6), i^j(5), o^w(5), u^w(4), ə(4), a^j(4), ε(3), #a(3), ʊ(2), #ə(2), ɔ(2), #æ(2), ʊ^w, #u, u, e, #ə, #ε, æ^j (98)
 Second Syllable Segment: **l(14), ʃ(12), ʔ[#](10), n(7), z(7), g(7), w(7), v(6), t(6), n[#](6), p(5), d[#](5), b(4), m(4), ʔ[#](4), s(4), k(4), d(3), r(3), ʃ[#](3), t[#](3), k[#](3), p[#](2), ʔ[#](2), f(2), t^h(2), t^ʷ(2), d^ʷ(2), ð(2), s[#](2), ʃ(2), ʃ[#](2), ʔ[#](2), j(2), p^h, t[#], dʒ, dʒ[#], ʔ, ʔ, z[#], ʒ, k^h, g[#]** (161)

ə(15), i^j#(14), ɪ(11), a(11), ʌ(5), ε(5), a(3), e^j(2), o^w#(2), ə[#](2), æ(2), i^j, o^w, ə[#], ɔ, ɔ^j, a[#], a^w#, ʔ^j (80)

Third syllable Segment: **n(6), l(6), s(4), s[#](4), ʃ(4), k(2), ŋ[#](2), b, m, ʔ[#]m[#], v, t[#], t^h, d[#], n[#], z, ʃ, ʃ[#], ʃ[#], t, ʔ, j** (43)

ɪ(5), ə[#](4), a(3), i^j(2), u^w#(2), ε(2), i:ʃ, e^j, e^j#, ə, a^j (23)

Fourth Syllable Segment: **s[#](2), m, ʔ[#]m[#]s, z, ʃ, ʃ, l, k[#]** (10)

ə[#](4), ɪ, e^j, ə (7)

Fifth Syllable Segment:

Segment Stressed and Unstressed Total

Stressed Segment: #s(27), ʃ(13), n(12), #k^h(12), w(11), m(7), #l(6), l(6), p(4), #b(4), s(4), t(4), k(4), ŋ(4), #m(3), v(3), t^h(3), #f(3), #ʃ(3), #g(3), #w(3), t(2), #r(2), ʃ[#](2), #p, p^h, b, #f, f, #v, #t^h, #tʃ, dʒ[#], #z, ʒ, t[#], #j, j, k[#], k^h, #h (163)

a(20), ɪ(18), ʌ(8), e^j(7), æ(7), i^j(5), o^w(5), ε(5), a^j(5), u^w(4), #ə(2), ɔ(2), ʊ^w, u^w#, #u, u, ʊ, e, #ε, ɔ^j, #æ, æ^j, #a (99)

Unstressed Segment: l(18), ʃ(15), n(11), ʔ[#](10), z(9), s(8), s[#](8), n[#](7), g(7), p(6), v(6), t(6), d[#](6), k(6), w(6), #s(5), b(4), m(4), ʔ[#]m[#](4), d(4), ʔ[#](4), r(3), ʃ(3), ʔ[#](3), j(3), k[#](3), p[#](2), t[#](2), t^ʷ(2), d^ʷ(2), ʔ[#](2), ð(2), ʃ[#](2), ʃ[#](2), t[#](2), k[#](2), ŋ[#](2), #p^h, #m, f, #d, #dʒ, dʒ, ʔ, z[#], #ʃ, #l, t, #g, g[#], #w, #h (206)

ə(21), ɪ(19), i^j#(14), ə[#](9), a(9), ʌ(5), ε(5), i^j(3), e^j(3), a(3), o^w#(2), ə[#](2), #a(2), i:ʃ, u^w#, ʊ, e^j#, o^w, #ə, ɔ, #æ, æ, a[#], a^w#, ʔ^j (109)

Segment Total (absolute)

Narrow: #s(38), ʃ(31), l(26), n(24), w(20), m(13), k(13), p(12), s(12), #k^h(12), ʔ[#](10), v(9), n[#](9), z(9), t(8), s[#](8), #l(7), t(7), g(7), t[#](6), d[#](6), ʃ[#](6), b(5), #f(5), ʃ[#](5), #ʃ(5), #g(5), #w(5), #b(4), #m(4), ʔ[#]m[#](4), d(4), ʔ[#](4), ʃ(4), t[#](4), j(4), k[#](4), ŋ(4), p[#](3), t^h(3), r(3), ʔ[#](3), #f(2), f(2), #t^h(2), t^ʷ(2), d^ʷ(2), ʔ[#](2), #r(2), ð(2), #k(2), ŋ[#](2), #h(2), #p, #p^h, p^h, m[#], #v, #t, #d, #tʃ, #dʒ, dʒ, dʒ[#], #n, ʔ, #z, z[#], ʒ, #j, k^h, g[#] (431)

ɪ(37), a(31), ə(21), i^j#(14), ʌ(14), ε(13), e^j(11), i^j(10), ə[#](9), æ(8), ʔ^j(7), o^w(6), u^w(5), ɔ(3), a(3), #a(3), u^w#(2), ʊ(2), o^w#(2), #ə(2), ə[#](2), #æ(2), æ^j(2), i, i:ʃ, ʊ^w, #u, u, e, e^j#, #ə, #ε, ɔ^j, a[#], a^w#, a[#] (223)

Broad: s(58), ʃ(42), n(40), l(33), k(32), w(25), t(24), m(22), t(22), p(18), ʃ(14), d(13), g(13), z(11), v(10), b(9), ŋ(6), j(5), f(4), dʒ(3), r(3), r(2), ð(2), h(2), tʃ, ʔ, ʒ (431)

ɪ(37), a(35), ə(31), i(26), ʌ(18), ε(14), e(13), a(13), æ(12), u(9), o(8), ɔ(4), ʊ(2), ʊ (223)

654 total segments

Supra-Segments: Consonant Clusters

Consonant Cluster Total for Stressed and Unstressed Syllables and Monosyllables according to Syllable Configuration

Monosyllable Consonant Cluster Onset (all entries are word initial): **#sw(2), #fʃ, #tʃ, #skw, #skl, #spʃ, #sp, #fm, #gl** (10)

Monosyllable Consonant Cluster Coda (all entries are word final): **mt[#], nt[#], tʃ[#], tp[#], kt[#]** (5)

First Syllable Consonant Cluster Stressed Onset (all entries are word initial): #sw(5), #st(2), #sm(2), #sl(2), #k^hʃ(2), #gʃ(2), #pr, #t^hw, #skw, #skʃ, #sv, #sp, #spʃ, #fw, #k^hj, #k^hl (25)

First Syllable Consonant Cluster Stressed Coda: ŋk (1)

First Syllable Consonant Cluster Unstressed Onset (all entries are word initial): #sp, #skw, #gɹ (3)

First Syllable Consonant Cluster Unstressed Coda:

Second Syllable Consonant Cluster Stressed Onset: skw(2), tʰɹ, kʰl (4)

Second Syllable Consonant Cluster Stressed Coda: ndʒ# (1)

Second Syllable Consonant Cluster Unstressed Onset: **tɹ(2)**, kw, gɹ (4)

Second Syllable Consonant Cluster Unstressed Coda: nd#, tɹd# (2)

Third Syllable Consonant Cluster Stressed Onset:

Third Syllable Consonant Cluster Stressed Coda:

Third Syllable Consonant Cluster Unstressed Onset:

Third Syllable Consonant Cluster Unstressed Coda:

Fourth Syllable Consonant Cluster Stressed Onset:

Fourth Syllable Consonant Cluster Stressed Coda:

Fourth Syllable Consonant Cluster Unstressed Onset:

Fourth Syllable Consonant Cluster Unstressed Coda:

Fifth Syllable Consonant Cluster Stressed Onset:

Fifth Syllable Consonant Cluster Stressed Coda:

Fifth Syllable Consonant Cluster Unstressed Onset:

Fifth Syllable Consonant Cluster Unstressed Coda:

Consonant Cluster Total for Stressed and Unstressed Onsets and Codas

Stressed Onset: #sw(5), #st(2), #sm(2), skw(2), #sl(2), #kʰɹ(2), #gɹ(2), #pr, #tʰw, tʰɹ, #skw, #skɹ, #sv, #sp, #spɹ, #fw, #kʰj, #kʰl, kʰl (29)

Stressed Coda: ndʒ#, ŋk (2)

Unstressed Onset: **tɹ(2)**, #sp, #skw, kw, gɹ, #gɹ (7)

Unstressed Coda: nd#, tɹd# (2)

Consonant Cluster Total for Onsets and Codas

Onset: **#sw(7), #skw(3), #sp(3), #gɹ(3), tɹ(2), #st(2), #sm(2), skw(2), #sl(2), #spɹ(2), #kʰɹ(2), #pr, #fɹ, #tʰw, #tɹ, tʰɹ, #skɹ, #skl, #sv, #fw, #fm, #kʰj, #kʰl, kʰl, kw, #gl, gɹ (46)**

Coda: mt#, nt#, nd#, ndʒ#, tʃ#, tɹp#, tɹd#, kt#, ŋk (9)

Consonant Cluster Total for Stressed and Unstressed Syllables and Monosyllables

Monosyllable Consonant Cluster: **#sw(2), mt#, #fɹ, #tɹ, nt#, #skw, #skl, #spɹ, #sp, #fm, tʃ#, tɹp#, kt#, #gl (15)**

First Syllable Consonant Cluster Stressed: #sw(5), #st(2), #sm(2), #sl(2), #kʰɹ(2), #gɹ(2), #pr, #tʰw, #skw, #skɹ, #sv, #sp, #spɹ, #fw, #kʰj, #kʰl, ŋk (26)

First Syllable Consonant Cluster Unstressed: #sp, #skw, #gɹ (3)

Second Syllable Consonant Cluster Stressed: skw(2), tʰɹ, ndʒ#, kʰl (5)

Second Syllable Consonant Cluster Unstressed: **tɹ(2)**, nd#, tɹd#, kw, gɹ (6)

Third Syllable Consonant Cluster Stressed:

Third Syllable Consonant Cluster Unstressed:

Fourth Syllable Consonant Cluster Stressed:

Fourth Syllable Consonant Cluster Unstressed:

Fifth Syllable Consonant Cluster Stressed:

Fifth Syllable Consonant Cluster Unstressed:

Consonant Cluster Total per Syllable

First Syllable Consonant Cluster: **#sw(5), #gɹ(3), #sl(2), #st(2), #sm(2), #skw(2), #sp(2), #kʰɹ(2), #pr, #tʰw, #skɹ, #sv, #spɹ, #fw, #kʰj, #kʰl, ɲk** (29)

Second Syllable Consonant Cluster: **tɹ(2), skw(2), tʰɹ, ndʒ#, nd#, tɔ#, kʰl, kw, gɹ** (11)

Third Syllable Consonant Cluster:

Fourth Syllable Consonant Cluster:

Fifth Syllable Consonant Cluster:

Consonant Cluster Stressed and Unstressed Total

Consonant Cluster Stressed: #sw(5), #st(2), #sm(2), skw(2), #sl(2), #kʰɹ(2), #gɹ(2), #pr, #tʰw, tʰɹ, ndʒ#, #skw, #skɹ, #sv, #sp, #spɹ, #fw, #kʰj, #kʰl, kʰl, ɲk (31)

Consonant Cluster Unstressed: **tɹ(2), nd#, #sp, #skw, tɔ#, kw, #gɹ, gɹ** (9)

Consonant Cluster Total (absolute)

Narrow: **#sw(7), skw(3), #sp(3), #gɹ(3), tɹ(2), #st(2), #sm(2), #skw(2), #sl(2), #spɹ(2), #kʰɹ(2), #pr, mt#, #fɹ, #tʰw, #tɹ, tʰɹ, ndʒ#, nt#, nd#, #skɹ, #skl, #sv, #fw, #fm, tʃ#, tɔ#, tɔ#, #kʰj, #kʰl, kʰl, kt#, kw, #gl, gɹ, ɲk** (55)

Broad: **sw(7), skw(5), tɹ(4), gɹ(4), sp(3), st(2), sm(2), sl(2), spɹ(2), kɹ(2), kl(2), pr, mt, fɹ, tw, ndʒ, nt, nd, skɹ, skl, sv, fw, fm, tʃ, tɔ, tɔ, kj, kt, kw, gl, ɲk** (55)

55 total consonant clusters

Supra-Segments: Whole Syllables

Whole Syllable Total for Stressed and Unstressed Syllables and Monosyllables

Monosyllable Whole Syllable:

#trin#, #fmiʰt#, #gliʰɹ#,
#skluʰkt#,
#neʰf#,
#spæɹ#,
#fɹet#, #swetɔ#, #ɹetf#,
#wæʰmt#,
#tʰaʰm#,
#skwaʰtʃ#, #spɹa#, #swant#, #fan# (15)

First Syllable Whole Syllable Stressed (all entries are word initial):

#kʰan(3), #bɹ(2), #so(2), #loʰ(2), #saʰ(2),
#fiʰ, #ziʰ, #kʰiʰ, #gɹiʰ,
#sʰʰ,
#u, #buʰ, #ru, #stuʰ, #ɹuʰ, #kʰjuʰ,
#vɹ, #spɹ, #swɹ, #sɹɹ, #svɹ, #stiʰ, #skɹɹɹ, #sɹɹ, #skwɹ, #ɹɹ, #kʰɹɹ, #kʰɹ, #kʰɹɹɹ,
#juɹ,
#pre, #meʰ, #seʰ, #seʰɹk, #spɹeʰ, #sweʰ, #kʰeʰɹn,
#ɹoʰ,
#æ, #æv, #smæ, #sæ, #fæ, #læ, #wæ, #wæʰt,
#ɛs, #tʰwen, #swet, #len,
#smɔɹ,
#æ, #slæ, #swæʰn, #fwæ, #læ, #gæs, #gæɹ, #gɹæ,
#slaʰ, #haʰ,
#aɹ, #ba, #ma, #tʃap, #swam, #swap, #laɹ, #kʰam, #kʰlaʰ, #kʰa, #wa (78)

First Syllable Whole Syllable Unstressed (all entries are word initial):

#sə(3),
#ɹiʰ,
#mɹ, #dɹs, #skwid, #ɹɹ, #gɹɹ,
#ɔɹɹ,

#ə, #kəŋ, #wə,
 #spə, #hə,
 #pʰɔɪ,
 #æ,
 #a, #an, #ma, #ka (21)

Second Syllable Whole Syllable Stressed:

kʰliː,
 tʰɪn, ɪ, ɪf,
 veː,
 skwə, wəkʰ,
 ʃɛtʰ,
 pʰɔɪ#, ʒɔː,
 ɹæ,
 baf#, ma, tʰa, saɪ#, landʒ# (16)

Second Syllable Whole Syllable Unstressed:

piː#(4), zəː#(4), liː#(2), və(2), rəː#(2),
 iː#, biː#, viː#, tiː#, ðiː#, ziː#, kiː#, wiː#,
 vɪs#, tɪp#, dɪn#, rɪk#, zɪg#, lɪn#, lɪn#, lɪ,
 ɡɹeːn#,
 poʊ, zoʊ#, goʊ#,
 bəː, bəː#, mə, mən, mən#, vən#, tən#, tən#, tən#, tən#, dən#, nən#, sən#, ʃən#, ɹəs#, ɹəː#, ɹə, ɹəd#, lə, lət#, jə, kən#, kwə, ɡə, ɡən#, ɡəː#,
 nə, ðə, ðə#, lə#, ɡə,
 ɛz#, lɛ, lɛd#, jɛtʰ#, wɛtʰ#,
 fænd#,
 da, na#, saːd#, ɹaʊ#, ɡaf#, wan#,
 ak#, dʒaɪ#, natʰ#, lan#, la, wətʰ# (83)

Third Syllable Whole Syllable Stressed:

muʊ#,
 steː,
 tʰɛ,
 naː,
 la (5)

Third Syllable Whole Syllable Unstressed:

nə#(3), sən#(2),
 siː, ziː, liː#,
 ɹuʊ#,
 bɪŋ#, vɪ, nɪs#, lɪŋ#, lɪn#,
 keː#,
 ʃəs#, ɹəːd#, ɹə#, ləs#, jə, kəs#,
 ɹɛstʰ#,
 naʃ#, laɪ# (24)

Fourth Syllable Whole Syllable Stressed:

Fourth Syllable Whole Syllable Unstressed:

ə#(2),
 ʃɪs#,
 meːkʰ,
 zə#, ɹəs#, lə# (7)

Fifth Syllable Whole Syllable Stressed:

Fifth Syllable Whole Syllable Unstressed:

Whole Syllable Total per Syllable

First Syllable Whole Syllable (all entries are word initial):

#sə(3), #kʰan(3), #bɪ(2), #so(2), #loʷ(2), #æ(2), #saː(2), #ma(2),
 #fiː, #ziː, #ɹiː, #kʰiː, #gɹiː,
 #sʊʷ,
 #u, #buʷ, #ru, #stuʷ, #ɹuʷ, #kʰjuʷ,
 #mɪ, #vi, #dis, #spi, #swɪ, #sɪŋ, #svɪ, #stiː, #skɪɪm, #skwid, #sin, #skwi, #ɹɪ, #li, #kʰɪ, #kʰɪ, #kʰɪɪn, #gɹɪ,
 #dʒu, #juɹ,
 #pre, #meː, #seː, #seːŋk, #spɹeː, #sweː, #kʰeːn,
 #ɹoʷ,
 #ə, #kʰə, #wə,
 #ə, #əv, #smə, #sə, #spə, #fə, #lə, #wə, #wəʔ, #hə,
 #ɛs, #tʰwɛn, #swɛʔ, #lɛn,
 #pʰɔɹ, #smɔɹ,
 #slæ, #swæːn, #fwæ, #læ, #gæs, #gæŋ, #gɹæ,
 #slaː, #haː,
 #a, #an, #aŋ, #ba, #tʃap, #swam, #swap, #laɹ, #ka, #kʰa, #kʰam, #kʰlaʔ, #wa (99)

Second Syllable Whole Syllable:

pɪː#(4), zɪː#(4), liː#(2), və(2), rɪː#(2),
 iː#, biː#, viː#, tiː#, ðiː#, ziː#, kiː#, kʰliː, wiː#,
 viːs#, tɹɪp#, tʰɪɪn, diːn#, rɪk#, zɪg#, ɹɪ, ɹɪf, liːn#, liːn#, li,
 veː, gɹeːn#,
 poʷ, zoʷ#, goʷ#,
 bɪʔ, bɪʔ#, mə, məŋ, mɪʔ#, vəŋ#, təm#, təŋ#, tɛdʷ#, tɹəp#, dɪdʷ#, nə#, sɛdʷ#, ʃəŋ#, ɹəs#, ɹɪʔ#, ɹə, ɹəd#, lə, lət#, jə, kəŋ#, kwə, gə, gəŋ#, gɪʔ#,
 nə, ðə, ðə#, skwə, lə#, gə, wək#,
 ɛz#, ʃɛʔ#, lɛ, lɛd#, jɛtʷ#, wɛʔ#,
 pʰɔɹ#, ʒɔː,
 fænd#, ɹæ,
 da, na#, saːdʷ#, ɹaʷ#, gɹɹ#, wan#,
 ak#, bɹɹ#, ma, tʰa, dʒaɹ#, natʷ#, saɹ#, lan#, landʒ#, la, waʔ# (99)

Third Syllable Whole Syllable:

nə#(3), sʰŋ#(2),
 siː, ziː, liː#,
 muʷ#, ɹuʷ#,
 bɪŋ#, vi, nis#, liŋ#, liːn#,
 steː, keː#,
 ʃəs#, ɹɪdʷ#, ɹə#, ləs#, jə, kəs#,
 tʰɛ, ɹɛst#,
 naː,
 nɹɹ#, la, laɹ# (29)

Fourth Syllable Whole Syllable:

ə#(2),
 ʃɪs#,
 meːk#,
 zə#, ɹəs#, lə# (7)

Fifth Syllable Whole Syllable:

Whole Syllable Stressed and Unstressed Total

Whole Syllable Stressed:

#kʰan(3), #bɪ(2), #so(2), #loʷ(2), #saː(2),
 #fiː, #ziː, #kʰiː, kʰliː, #gɹiː,
 #sʊʷ,
 #u, #buʷ, muʷ#, #ru, #ɹuʷ, #stuʷ, #kʰjuʷ,
 #vi, tʰɪɪn, #spi, #swɪ, #sɪŋ, #svɪ, #stiː, #skɪɪm, #sin, #skwi, #ɹɪ, ɹɪ, ɹɪf, #kʰɪ, #kʰɪ, #kʰɪɪn,
 #juɹ,
 #pre, #meː, veː, #seː, #seːŋk, #spɹeː, #sweː, steː, #kʰeːn,
 #ɹoʷ,

#ə, #əv, #smə, #sə, skwə, #fə, #lə, #wə, #wət, wək#,
 #ɛs, #tʰwɛn, tʰɛ, #swɛt, fɛt#, #lɛn,
 pʰɔɹ#, #smɔɹ, ʒɔʲ,
 #æ, #slæ, #swæʲn, #fwæ, #læ, ɹæ, #gæs, #gæŋ, #gɹæ,
 naʲ, #slaʲ, #haʲ,
 #aŋ, #ba, baʃ#, ma, #ma, tʰa, #tʃap, saɹ#, #swam, #swap, la, #laɹ, landʒ#, #kʰam, #kʰlaʔ, #kʰa, #wa (99)

Whole Syllable Unstressed:

piʲ#(4), nə#(4), zɤʔ#(4), lɪn#(3), #sə(3), liʲ#(2), ə#(2), və(2), rɤʔ#(2), sʰəŋ#(2), ɹəs#(2), jə(2),
 iʲ#, biʲ#, viʲ#, tiʲ#, ðiʲ#, siʲ, ziʲ#, ziʲ, #ɹiʲ, li:ʲ#, kiʲ#, wiʲ#,
 ɹuʷ#,
 bɪŋ#, #mi, vi, viʃ#, tɹɪp#, dɪn#, #dis, nis#, ɹɪk#, #skwid, zɪg#, fɪs#, lɪŋ#, li, #li, #gɹɪ,
 #dʒu,
 meʲk#, keʲ#, gɹeʲn#,
 poʷ, zoʷ#, goʷ#,
 #ə, bɤʔ, bɤʔ#, mə, mʰəŋ, mʰɤʔ#, vʰəŋ#, tʰəŋ#, tədʰ#, tɹəp#, dɤʔd#, sədʰ#, zə#, fʰəŋ#, fəs#, ɹɤʔ#, ɹɤʔd#, ɹə#, ɹə, ɹəd#, lə, lə#, lət#, ləs#, kʰəŋ#,
 kəs#, kwə, #kʰəŋ, gə, gʰəŋ#, gɤʔ#, #wə,
 nə, ðə, ðə#, #spə, lə#, gə, #hə,
 ɛz#, ɹɛst#, lɛ, lɛd#, jɛtʰ#, wɛt#,
 #pʰɔɹ,
 #æ, fænd#,
 da, na#, saʲd#, ɹaʷ#, gaʃ#, wan#,
 ak#, #a, #an, #ma, dʒaɹ#, natʰ#, naʃ#, lan#, la, laɹ#, #ka, wət# (135)

Whole Syllable Total (absolute)

Narrow:

piʲ#(4), nə#(4), zɤʔ#(4), lɪn#(3), #sə(3), #kʰan(3), liʲ#(2), #bi(2), #so(2), #loʷ(2), ə#(2), və(2), rɤʔ#(2), sʰəŋ#(2), ɹəs#(2),
jə(2), #æ(2), #saʲ(2),
#ma(2), la(2),
 iʲ#, biʲ#, viʲ#, tiʲ#, #trin#, ðiʲ#, siʲ, ziʲ#, ziʲ, #ziʲ, #fmiʲ#, #ɹiʲ, li:ʲ#, kiʲ#, #kʰiʲ, kʰliʲ, #gliʲɹ#, #gɹiʲ, wiʲ#,
 #sʰɤʔ#,
 #u, #buʷ, muʷ#, #ru, #ɹuʷ, #stuʷ, #skluʷkt#, #kʰjuʷ, ɹuʷ#,
 bɪŋ#, #mi, vi, #vi, viʃ#, tɹɪp#, tʰɹɪn, dɪn#, #dis, nis#, ɹɪk#, #skwid, #spi, #swi, #siŋ, #svi, #striʔ, #skɹɪm, #sin, #skwi, zɪg#, fɪs#, #ɹɪ, ɹɪ,
 ɹɪf, lɪŋ#, li, #li, #kʰɹɪ, #kʰɹɪ, #kʰɹɪn, #gɹɪ,
 #dʒu, #jɹɪ,
 #pre, meʲk#, #meʲ, veʲ, #neʲf#, #seʲ, #seʲŋk, #spɹeʲ, #sweʲ, steʲ, keʲ#, #kʰeʲn, gɹeʲn#,
 poʷ, zoʷ#, #ɹoʷ, goʷ#,
 #ə, bɤʔ, bɤʔ#, mə, mʰəŋ, mʰɤʔ#, vʰəŋ#, tʰəŋ#, tədʰ#, tɹəp#, dɤʔd#, sədʰ#, zə#, fʰəŋ#, fəs#, ɹɤʔ#, ɹɤʔd#, ɹə#, ɹə, ɹəd#, lə, lə#, lət#, ləs#, kʰəŋ#,
 kəs#, kwə, #kʰəŋ, gə, gʰəŋ#, gɤʔ#, #wə,
 #ə, #əv, nə, ðə, ðə#, #spə, #spəɹ#, #smə, #sə, skwə, #fə, lə#, #lə, gə, #wə, #wət, wək#, #hə,
 #ɛs, ɛz#, #fɹɛt#, #tʰwɛn, tʰɛ, #swɛt#, #swɛt, fɛt#, #ɹɛf#, ɹɛst#, lɛ, lɛd#, #lɛn, jɛtʰ#, wɛt#,
 #pʰɔɹ, pʰɔɹ#, #smɔɹ, ʒɔʲ,
 fænd#, #slæ, #swæʲn, #fwæ, #læ, ɹæ, #gæs, #gæŋ, #gɹæ, #wæʲmt#,
 #tʰaʲm#, da, na#, naʲ, #slaʲ, saʲd#, ɹaʷ#, gaʃ#, wan#, #haʲ,
 ak#, #a, #an, #aŋ, #ba, baʃ#, ma, tʰa, #tʃap, dʒaɹ#, natʰ#, naʃ#, #skwatʃ#, #spɹa#, #swant#, saɹ#, #swam, #swap, #fan#, lan#, laɹ#, #laɹ,
 landʒ#, #ka, #kʰam, #kʰlaʔ, #kʰa, #wa, wət# (249)

Broad:

pi(4), nə(4), zɤʔ(4), zi(3), li(3), lɪn(3), ə(3), sə(3), kan(3), ki(2), ɹu(2), bi(2), vi(2), ɹɪ(2), li(2), so(2), lo(2), bɤʔ(2), və(2),
rɤʔ(2), sʰəŋ(2), ɹəs(2),
ɹə(2), lə(2), jə(2), ðə(2), lə(2), pɔɹ(2), æ(2), na(2), sa(2), ma(2), la(2), laɹ(2),
 i, bi, vi, ti, trin, ði, si, fmiʲ, ɹi, kli, gliɹ, gɹi, wi,
 sʰɤʔ,
 u, bu, mu, ru, stu, sklukt, kju,
 bɪŋ, mɪ, viʃ, tɹɪp, tɹɪn, dɪn, dis, nis, ɹɪk, skwid, spi, swi, siŋ, svi, striʔ, skɹɪm, sin, skwi, zɪg, fɪs, ɹɪf, lɪŋ, kɹɪ, ki, kɹɪn, gɹɪ,
 dʒu, jɹɪ,
 pre, mek, me, ve, nef, se, senk, spɹe, swe, ste, ke, ken, gɹen,

po, zo, ɔo, go,
 mə, mən, mət, vən, təm, tən, təd, tɒp, dət, səd, zə, fən, fəs, ɹət, ɹət, ɹəd, lət, ləs, kən, kəs, kwə, kən, gə, gən, gət, wə,
 ə, əv, nə, spə, spət, smə, sə, skwə, fə, gə, wə, wət, wək, hə,
 ɛs, ɛz, fɛt, twɛn, tɛ, swɛt, swət, fɛt, ɹɛf, ɹɛst, lɛ, lɛd, lɛn, jɛt, wɛt,
 smɔɹ, ʒɔ,
 fænd, slæ, swæn, fwæ, læ, ɹæ, gæs, gæn, gɹæ, wæmt,
 tam, da, sla, sad, ɹa, gaf, wan, ha,
 ak, a, an, aŋ, ba, baf, ma, ta, tʃap, dʒaɹ, nat, naf, skwatʃ, spɹa, swant, saɹ, swam, swap, fan, lan, landʒ, ka, kam, klaʃ, ka, wa, wat (249)

249 total whole syllables

Supra-Segments: Whole Words

Whole Word Total per Word Length

Whole Monosyllables:

treen [trin], shahn [ʃan], sklookt [skluʔkt], naysh [neʃ], fret [fɹɛt], time [tʰaɪm], skwahlsh [skwatʃ], sprah [spɹa], wampt [wæɪmt], resh [ɹɛʃ],
 swahnt [swant], gleer [gliɹ], swelp [swɛtʃ], shmeel [ʃmiʃ], spuhr [spəɹ] (schwa raised)

Whole Bisyllables:

KRIHNduld [kʰɹɪn·dʊd], STOOpee [ˈstuʰ·pi], YURlee [ˈjuɹ·li], SAYvis [ˈseɪ·vɪs], WHURtul [ˈwə·rət], WURLside [ˈwət·saɪd], SKWIHtul [ˈskwɪ·rət], ROOWahn [ˈru·wan], RIHzul [ˈɹɪ·zət], KAHzul [ˈkʰa·zət], SLYthee [ˈslaɪ·ði], TWENTee [ˈtʰwɛn·ti], WAHlin [ˈwa·lɪn], SLAdik [ˈslæ·rɪk], SOHfand [ˈsoʰ·fænd], KHANjahɹ [ˈkʰan·dʒaɹ], SWIHtrip [ˈswɪ·tɹɪp], KYOUzee [ˈkʰjuʰ·zi], LOWgrain [ˈloʰ·gɹeɪn], SURee [ˈsə·ɪ], SHWazul [ˈfwæ·zət], LARuhd [ˈlæ·ɹəd], GRASSuhd [ˈgɹæ·səd], SYlahn [ˈsaɪ·lan], SMORguhn [ˈsmɔɹ·gən], SWAYez [ˈsweɪ·ɛz], SINGkee [ˈsɪŋ·ki], AHNGyet [ˈaŋ·jɛt], ROWvuhn [ˈɹoʰ·vən], SWELkuhm [ˈswɛt·kən], BIHzo [ˈbɪ·zoʰ], SVIHzul [ˈsvɪ·zət], SWAHMbee [ˈswam·bi], SWANtuhd [ˈswæɪn·təd], PRAYnah [ˈpre·na], KAHNled [ˈkʰan·lɛd], KAHNtruhp [ˈkʰan·tɹəp], LAHRgow [ˈlaɹ·goʰ], STILDin [ˈstɪl·dɪn], SAɹyahk [ˈsaɪ·ək], SMURthur [ˈsmə·ðə], KRIHpee [ˈkʰɹɪ·pi], SHURwell [ˈʃə·wɛt], MAHrul [ˈma·ɹət], FEEmuhl [ˈfiɪ·mət], ESSwall [ˈɛs·wat], SOwee [ˈso·wi], ZEEvee [ˈziɪ·vi], KIHpee [ˈkʰɪ·pi], LURlee [ˈlə·li], ROObul [ˈɹuʰ·bət], GASnuh [ˈgæs·nə], KEErow [ˈkʰiɪ·ɹaʰ], GREEnaht [ˈgɹiɪ·nat], URVlin [ˈəv·lɪn], SIHNtum [ˈsɪn·təm], KANEpee [ˈkʰeɪn·pi], SANKtun [ˈseɪŋk·tən], URGul [ˈə·gət], SWAHPshun [ˈswap·ʃən], SOOGahsh [ˈsəʰ·gaʃ], VIHzig [ˈvi·zɪg], BIHlut [ˈbɪ·lət], SPRAYlur [ˈspɹeɪ·lə], CHAHprus [ˈtʃap·ɹəs]

grihSAHR [gɹɪ·ˈsaɹ], suhWURK [sə·ˈwək], porPOR [pʰɔɹ·ˈpʰɔɹ], wuhSHELL [wə·ˈʃɛt], mihLAHNGE [miɹ·ˈlandʒ], ahBAHSH [a·ˈbaʃ]

Whole Trisyllables:

LOWthursuhm [ˈloʰ·ðə·sən], Anurest [ˈæ·nə·ɹɛst], GANgurleeng [ˈgæn·gə·lɪŋ], MAYvuhlahɹ [ˈmeɪ·və·laɹ], KAHMbulnahsh [ˈkʰam·bət·naf], SKRIMyuhlus [ˈskɹɪm·jə·ləs], HYponis [ˈhaɪ·poʰ·nɪs], KLAHLmuhlin [ˈkʰlaʃ·mə·lɪn], BAHluhkay [ˈba·lə·keɪ], OOvuhnuh [ˈu·və·nə], SPIHlihkuhs [ˈspiɹ·li·kəs], LENDahlee [ˈlɛn·da·liɹ],

kuhnSKWURuld [kən·ˈskwə·ɹət], uhVAYbeeng [ə·ˈveɪ·bɪŋ], reeMAHruh [ɹiɪ·ˈma·ɹə], suhRANnuh [sə·ˈɹæ·nə], skwidTAHroo [skwid·ˈtʰa·ɹuʰ], huhRIHFnuh [hə·ˈɹɪf·nə], spurRIHshus [spə·ˈɹɪ·ʃəs],

kahlahMOO [ka·la·ˈmuʰ]

Whole Tetrasyllables:

BOOGuhvihluh [ˈbuʰ·gə·viɹ·lə],

ahnZHOYyuhmake [an·ˈʒɔɪ·jə·meɪk], suhKLEEzeeuh [sə·ˈkʰliɪ·ziɪ·ə], disTRIHNseeuh [dis·ˈtʰɹɪn·siɪ·ə], aluhSTAYshus [æ·lə·ˈsteɪ·ʃɪs],

likwuhNYzuh [liɹ·kwə·ˈnaɪ·zə], juruhLAHsum [dʒuɹ·ɹə·ˈla·sən], mahmunTEHrus [ma·mən·ˈtʰɛ·ɹəs]

Whole Pentasyllables:

		Syllable Receiving Stress				
		None	First	Second	Third	Fourth
Word Length Total						
Monosyllabic:	15					
Bisyllabic:	71	0	65	6		
Trisyllabic:	20	0	12	7	1	
Tetrasyllabic:	8	0	1	3	4	0
Pentasyllabic:	0	0	0	0	0	0
Total:	114	0	78	16	5	0

Segments

Segment Total for Stressed and Unstressed Onsets and Codas

Stressed Onset: ɹ(17), l(8), #p^h(7), #b(7), #ɹ(6), #k^h(6), #m(5), #t^h(5), t^h(5), #f(4), #d(4), #s(4), j(4), #g(4), b(3), #l(3), #k(3), #w(3), p^h(2), d(2), k^h(2), k(2), g(2), w(2), m, f, #v, #tʃ, #dʒ, n, r, s, z, #ʒ (120)

Stressed Coda: n(12), ɹ(9), k(8), m(5), t(3), d(2), n#(2), ɹ#(2), ŋ(2), f#, t, d^ː#, d#, dʒ#, s, r, k^ː, g (54)

Unstressed Onset: t(18), n(11), ɹ(10), l(10), d(9), r(9), s(9), k(9), z(7), w(6), f(5), #k^h(5), g(5), b(4), p(3), #m(3), #p(2), p^h(2), #b(2), m(2), #v(2), #d(2), ʃ(2), #k(2), #p^h, #f, #t, ts, dʒ, #n, ð, #s, #z, #ɹ, #l, j, k^h, ɣ, #w (154)

Unstressed Coda: n#(8), k#(7), t#(6), s#(6), t^ː#(3), k(3), ŋ(3), m(2), n(2), ɹ(2), ɹ#(2), p#, m#, f#, d#, ts, dʒ#, θ#, s, z#, l#, t, k^ː#, ŋ# (57)

Segment Total for Onsets and Codas

Onset: ɹ(31), l(21), t(18), #k^h(14), n(12), k(12), d(11), #p^h(10), s(10), #b(9), r(9), w(9), #m(8), #s(8), z(8), #ɹ(8), b(7), #t^h(7), g(7), #f(6), f(6), #d(6), #k(6), p(5), t^h(5), #l(5), j(5), p^h(4), #g(4), #w(4), m(3), #v(3), k^h(3), #p(2), ʃ(2), #t, ts, #tʃ, #dʒ, dʒ, #n, r, ð, #z, #ʒ, ɣ, #h (300)

Coda: n(14), ɹ(13), k(12), n#(10), k#(9), m(7), t#(7), s#(7), ŋ(5), t^ː#(4), d#(4), ɹ#(4), t(4), p#(2), m#(2), f#(2), d(2), d^ː#(2), dʒ#(2), s(2), t, ts, dʒ, θ#, z#, ʃ#, r, l#, k^ː#, k^ː, g, g#, ŋ# (127)

Segment Total for Stressed and Unstressed Syllables and Monosyllables

Monosyllable Segment: ɹ(6), a(6), #s(3), l(3), #k^h(3), #p^h(2), p(2), #t^h(2), d#(2), k(2), k#(2), i^j(2), æ(2), p#, m#, #f, t#, t^ː#, d^ː#, dʒ, s#, ʃ#, #ɹ, #l, #k, g#, w, #h (52)

a(6), i^j(2), æ(2), i^j#, o^w, aⁱ#, a^w, a# (15)

First Syllable Segment Stressed: ɹ(15), k(8), #p^h(7), #b(7), n(6), #ɹ(6), #k^h(6), #m(5), m(5), #t^h(5), #f(4), #d(4), #s(4), l(4), #g(4), #l(3), j(3), #k(3), #w(3), d(2), r(2), t(2), w(2) #v, t, #tʃ, #dʒ, #ʒ, k^ː, g, ŋ (118)

a(16), ɪ(10), u^w(6), æ(5), ə(4), e^j(3), ε(3), ʌ(3), a^j(3), o^w(2), a(2), i, i^j, #u^w, ʊ, #ə, ɔ, ɔ^j, #a, a: (66)

First Syllable Segment Unstressed: #k^h(5), ɹ(4), #m(3), #p(2), #b(2), m(2), #v(2), t(2), #d(2), #k(2), ŋ(2), w(2), #p^h, #f, #t, #n, #s, s, #z, #ɹ, #l, t, #w (41)

ə(10), ɪ(7), a(3), o^w(2), i, o, #ə, ə, ε, ε^j, æ, a^j, #a (31)

Second Syllable Segment Stressed: ɹ(10), n(6), t^h(4), l(4), b(3), p^h(2), d(2), n#(2), s(2), ɹ#(2), k^h(2), k(2), g(2), m, f, f#, d^ː#, d#, dʒ#, z, t, j, ŋ (53)

a(7), e^j(3), ε(3), æ(3), ɪ(2), o^w(2), i^j, i^j#, u^w, o^w#, ε^j, ʌ, ɔ, aⁱ# (28)

Second Syllable Segment Unstressed: t(10), k(10), n(8), s(8), ɹ(7), d(6), r(5), l(5), k#(5), g(5), t#(4), n#(4), ɹ^ː#(4), w(4), b(3), əŋ#(3), əŋ#(3), z(3), p(2), p^h(2), m(2), s#(2), p#, f, f#, t^ː#, ts, əŋ, θ#, ð, ʃ, ɹ#, l#, ɹ^ː, j, k^h, k^ː#, ŋ, ŋ#, ɣ (123)

ə(11), a(10), ɪ(9), i^j#(6), o^w#(4), ə(4), ə#(3), i^j(2), o#(2), o^w(2), u^w#, e^j, ə#, ε, ɔ, ɔ^j, aⁱ# (60)

Third Syllable Segment Stressed: t^h, n, ɹ (3)

ɔ^j, æ (2)

Third Syllable Segment Unstressed: t(6), n(4), n#(4), l(4), f(3), d(3), s#(3), z(3), t#(2), r(2), ɹ^ː#(2), k#(2), p, b, m#, əŋ#, t^ː#, ts, dʒ#, əŋ, əŋ#, s, z#, ʃ, ɹ, ɹ#, k (53)

ɪ(6), ə(5), i^j(2), o^w#(2), ə#(2), ε(2), a^j(2), u^w#, e^j, e^j#, o^w, ə, a, a# (28)

Fourth Syllable Segment Stressed:

Fourth Syllable Segment Unstressed: **r(2)**, f, d#, dʒ, s#, z, l, ɹ#, k (10)

ə#(2), ɪ, ə, ʌ#, ɔʲ, aʲ# (7)

Fifth Syllable Segment Stressed:

Fifth Syllable Segment Unstressed: tʰ#, n (2)

eʲ (1)

Segment Total by Syllable

First Syllable Segment: **ɹ(19)**, **#kʰ(11)**, **#b(9)**, **#pʰ(8)**, **#m(8)**, **k(8)**, **m(7)**, **#ɹ(7)**, **#d(6)**, **n(6)**, **#f(5)**, **#tʰ(5)**, **#s(5)**, **#k(5)**, **#l(4)**, **l(4)**, **#g(4)**, **#w(4)**, **w(4)**, **#v(3)**, **t(3)**, **ʃ(3)**, **j(3)**, **ŋ(3)**, **#p(2)**, **d(2)**, **r(2)**, **#t**, **#tʃ**, **#dʒ**, **#n**, **s**, **#z**, **#ʒ**, **kʰ**, **g** (159)

a(19), **ɹ(17)**, **ə(10)**, **uʷ(6)**, **æ(6)**, **ʌ(5)**, **oʷ(4)**, **ɛ(4)**, **aʲ(4)**, **eʲ(3)**, **ʌ(3)**, **i(2)**, **a(2)**, **#a(2)**, **iʲ**, **#uʷ**, **ʊ**, **o**, **#ə**, **#ʌ**, **ɛʲ**, **ɔ**, **ɔʲ**, **aː** (97)

Second Syllable Segment: **ɹ(17)**, **n(14)**, **k(12)**, **t(10)**, **s(10)**, **l(9)**, **d(8)**, **g(7)**, **b(6)**, **r(5)**, **k#(5)**, **pʰ(4)**, **tʰ(4)**, **t#(4)**, **z(4)**, **ɹ#(4)**, **w(4)**, **m(3)**, **ʌ#(3)**, **ʌ#(3)**, **ɹ#(3)**, **kʰ(3)**, **p(2)**, **f(2)**, **f#(2)**, **s#(2)**, **j(2)**, **ŋ(2)**, **p#**, **tʰ#**, **dʰ#**, **ts**, **dʒ#**, **n#(6)**, **ʌŋ**, **θ#**, **ð**, **ʃ**, **l#**, **ʃ**, **ʃ**, **kʰ#**, **ŋ#**, **ɣ** (176)

a(17), **ɹ(11)**, **ə(11)**, **iʲ#(7)**, **oʷ#(5)**, **eʲ(4)**, **oʷ(4)**, **ʌ(4)**, **ɛ(4)**, **iʲ(3)**, **ʌ#(3)**, **æ(3)**, **o#(2)**, **ɔ(2)**, **aʲ#(2)**, **uʷ**, **uʷ#**, **ə#**, **ɛʲ**, **ʌ**, **ɔʲ** (88)

Third syllable Segment: **t(6)**, **n(5)**, **n#(4)**, **l(4)**, **f(3)**, **d(3)**, **s#(3)**, **z(3)**, **t#(2)**, **r(2)**, **ɹ(2)**, **ɹ#(2)**, **k#(2)**, **p**, **b**, **m#**, **ʌ#**, **tʰ**, **tʰ#**, **ts**, **dʒ#**, **ʌŋ**, **ʌ#**, **s**, **z#**, **ʃ**, **ɹ#**, **k** (56)

ɹ(6), **ə(5)**, **iʲ(2)**, **oʷ#(2)**, **ə#(2)**, **ɛ(2)**, **aʲ(2)**, **uʷ#**, **eʲ**, **eʲ#**, **oʷ**, **ʌ**, **ɔʲ**, **æ**, **a**, **a#** (30)

Fourth Syllable Segment: **r(2)**, f, d#, dʒ, s#, z, l, ɹ#, k (10)

ə#(2), ɪ, ə, ʌ#, ɔʲ, aʲ# (7)

Fifth Syllable Segment: tʰ#, n (2)

eʲ (1)

Segment Stressed and Unstressed Total

Stressed Segment: **ɹ(26)**, **n(13)**, **k(10)**, **l(8)**, **#pʰ(7)**, **#b(7)**, **m(6)**, **#ɹ(6)**, **#kʰ(6)**, **#m(5)**, **#tʰ(5)**, **tʰ(5)**, **#f(4)**, **#d(4)**, **d(4)**, **#s(4)**, **j(4)**, **#g(4)**, **b(3)**, **#l(3)**, **ʃ(3)**, **#k(3)**, **g(3)**, **#w(3)**, **pʰ(2)**, **n#(2)**, **r(2)**, **s(2)**, **ɹ#(2)**, **kʰ(2)**, **ŋ(2)**, **w(2)**, **f**, **f#**, **#v**, **t**, **dʰ#**, **d#**, **#tʃ**, **#dʒ**, **dʒ#**, **z**, **#ʒ**, **kʰ** (174)

a(23), **ɹ(12)**, **æ(9)**, **uʷ(7)**, **eʲ(6)**, **ɛ(6)**, **oʷ(4)**, **ʌ(4)**, **aʲ(3)**, **iʲ(2)**, **ɔ(2)**, **ɔʲ(2)**, **a(2)**, **i**, **iʲ#**, **#uʷ**, **ʊ**, **oʷ#**, **#ʌ**, **ɛʲ**, **aʲ#**, **#a**, **aː** (96)

Unstressed Segment: **t(18)**, **n(13)**, **ɹ(12)**, **k(12)**, **s(10)**, **l(10)**, **d(9)**, **r(9)**, **n#(8)**, **z(7)**, **ɹ#(7)**, **k#(7)**, **t#(6)**, **s#(6)**, **w(6)**, **f(5)**, **#kʰ(5)**, **g(5)**, **b(4)**, **m(4)**, **ʌ#(4)**, **ʌ#(4)**, **p(3)**, **#m(3)**, **ŋ(3)**, **#p(2)**, **pʰ(2)**, **#b(2)**, **#v(2)**, **tʰ#(2)**, **#d(2)**, **ts(2)**, **ʌŋ(2)**, **ʃ(2)**, **ɹ#(2)**, **#k(2)**, **#pʰ**, **p#**, **m#**, **#f**, **f#**, **#t**, **tʰ#**, **d#**, **dʒ**, **dʒ#**, **#n**, **θ#**, **ð**, **#s**, **#z**, **z#**, **#ɹ**, **#l**, **ʃ**, **ʃ**, **ʃ**, **kʰ**, **kʰ#**, **ŋ#**, **ɣ**, **#w** (229)

ə(27), **ɹ(23)**, **a(14)**, **iʲ#(6)**, **oʷ#(6)**, **ʌ(6)**, **oʷ(5)**, **ə#(5)**, **iʲ(4)**, **ʌ#(4)**, **ɛ(4)**, **eʲ(3)**, **aʲ(3)**, **uʷ#(2)**, **o#(2)**, **ɔʲ(2)**, **aʲ#(2)**, **i**, **eʲ#**, **o**, **#ə**, **ɛʲ**, **ɔ**, **æ**, **#a**, **a#** (127)

Segment Total (absolute)

Narrow: **ɹ(44)**, **n(26)**, **k(24)**, **l(21)**, **t(19)**, **#kʰ(14)**, **d(13)**, **s(12)**, **#pʰ(10)**, **m(10)**, **n#(10)**, **b(9)**, **r(9)**, **k#(9)**, **w(9)**, **#m(8)**, **#s(8)**, **z(8)**, **#ɹ(8)**, **g(8)**, **b(7)**, **#tʰ(7)**, **t#(7)**, **s#(7)**, **ɹ#(7)**, **#f(6)**, **f(6)**, **#d(6)**, **#k(6)**, **p(5)**, **tʰ(5)**, **#l(5)**, **j(5)**, **ŋ(5)**, **pʰ(4)**, **ʌ#(4)**, **d#(4)**, **ʌ#(4)**, **ɹ#(4)**, **ʃ(4)**, **#g(4)**, **#w(4)**, **#v(3)**, **kʰ(3)**, **#p(2)**, **p#(2)**, **m#(2)**, **f#(2)**, **tʰ#(2)**, **tʰ#(2)**, **dʰ#(2)**, **ts(2)**, **dʒ(2)**, **dʒ#(2)**, **ʌŋ(2)**, **r(2)**, **ʃ(2)**, **#t**, **#tʃ**, **#dʒ**, **#n**, **θ#**, **ð**, **#z**, **z#**, **#ʒ**, **ʃ#**, **l#**, **ʃ**, **ʃ**, **kʰ**, **kʰ#**, **g#**, **ŋ#**, **ɣ**, **#h** (455)

a(43), **ɹ(35)**, **ə(27)**, **æ(12)**, **oʷ(10)**, **ʌ(10)**, **ɛ(10)**, **eʲ(9)**, **iʲ(8)**, **iʲ#(8)**, **uʷ(7)**, **oʷ#(7)**, **aʲ(6)**, **ə#(5)**, **ʌ#(4)**, **ʌ(4)**, **ɔʲ(4)**, **aʲ#(4)**, **ɔ(3)**, **i(2)**, **uʷ#(2)**, **o#(2)**, **ɛʲ(2)**, **a(2)**, **#a(2)**, **a#(2)**, **#uʷ**, **ʊ**, **eʲ#**, **o**, **#ə**, **#ʌ**, **aʷ**, **aː** (238)

Broad: **k(58), ɟ(56), t(43), n(43), s(27), l(27), d(25), m(24), p(23), b(16), f(14), g(13), w(13), ʈ(12), z(10), r(9), ɳ(6), dʒ(5), j(5), v(3), ʃ(3), ts(2), r(2), tʃ, ʈ, ɐ, ɓ, ɣ, h** (455)

ɑ(48), ɪ(35), ə(33), o(20), i(18), ʌ(15), a(13), ɛ(12), æ(12), u(10), e(10), ɔ(7), ʌ(4), ʊ (238)

693 total segments

Supra-Segments: Consonant Clusters

Consonant Cluster Total for Stressed and Unstressed Syllables and Monosyllables according to Syllable Configuration

Monosyllable Consonant Cluster Onset (all entries are word initial): **#p^hl, #p^hw, #fl, #spɿ, #spl, #sk, #k^hɿ, #kɿ** (8)

Monosyllable Consonant Cluster Coda (all entries are word final): **dʒd#, ɿd^h#, ɿs#, kt#** (4)

First Syllable Consonant Cluster Stressed Onset (all entries are word initial): #bl(2), #bɿ(2), #skw(2), #k^hj(2), #p^hɿ, #p^hl, #fl, #fɿ, #tɿ, #dɿ, #k^hɿ, #k^hw, #gr (17)

First Syllable Consonant Cluster Stressed Coda: ɿg (1)

First Syllable Consonant Cluster Unstressed Onset (all entries are word initial): **#k^hɿ(2), #k^hw** (3)

First Syllable Consonant Cluster Unstressed Coda:

Second Syllable Consonant Cluster Stressed Onset: t^hɿ(3), fɿ (4)

Second Syllable Consonant Cluster Stressed Coda: ndʒ#, ɿd# (2)

Second Syllable Consonant Cluster Unstressed Onset: **p^hɿ, bl, bɿ, dɿ, ʃt, k^hw** (6)

Second Syllable Consonant Cluster Unstressed Coda: **nt#(2), tsɿ#, ks#, kt#, ɳk#** (6)

Third Syllable Consonant Cluster Stressed Onset:

Third Syllable Consonant Cluster Stressed Coda:

Third Syllable Consonant Cluster Unstressed Onset: **tɿ** (1)

Third Syllable Consonant Cluster Unstressed Coda: **ɳz#** (1)

Fourth Syllable Consonant Cluster Stressed Onset:

Fourth Syllable Consonant Cluster Stressed Coda:

Fourth Syllable Consonant Cluster Unstressed Onset:

Fourth Syllable Consonant Cluster Unstressed Coda:

Fifth Syllable Consonant Cluster Stressed Onset:

Fifth Syllable Consonant Cluster Stressed Coda:

Fifth Syllable Consonant Cluster Unstressed Onset:

Fifth Syllable Consonant Cluster Unstressed Coda:

Consonant Cluster Total for Stressed and Unstressed Onsets and Codas

Stressed Onset: t^hɿ(3), #bl(2), #bɿ(2), #skw(2), #k^hj(2), #p^hɿ, #p^hl, #fl, #fɿ, fɿ, #tɿ, #dɿ, #k^hɿ, #k^hw, #gr (21)

Stressed Coda: ndʒ#, ɿg, ɿd# (3)

Unstressed Onset: **#k^hɿ(2), p^hɿ, bl, bɿ, tɿ, dɿ, ʃt, #k^hw, k^hw** (10)

Unstressed Coda: **nt#(2), tsɿ#, ɳz#, ks#, kt#, ɳk#** (7)

Consonant Cluster Total for Onsets and Codas

Onset: **#k^hɿ(4), t^hɿ(3), #p^hl(2), #bl(2), #bɿ(2), #fl(2), #skw(2), #k^hj(2), #k^hw(2), #p^hɿ, p^hɿ, #p^hw, bl, bɿ, #fɿ, fɿ, #tɿ, tɿ, #dɿ, dɿ, #spɿ, #spl, #sk, ʃt, #kɿ, k^hw, #gr** (39)

Coda: **nt#(2), kt#(2), tsɿ#, dʒd#, ɳz#, ndʒ#, ɿd^h#, ɿs#, ɿg, ɿd#, ks#, ɳk#** (14)

Consonant Cluster Total for Stressed and Unstressed Syllables and Monosyllables

Monosyllable Consonant Cluster: **#p^hl, #p^hw, #fl, dʒd#, #spɿ, #spl, #sk, ɿd^h#, ɿs#, #k^hɿ, #kɿ, kt#** (12)

First Syllable Consonant Cluster Stressed: #bl(2), #bɿ(2), #skw(2), #k^hj(2), #p^hɿ, #p^hl, #fl, #fɿ, #tɿ, #dɿ, ɿg, #k^hɿ, #k^hw, #gr (18)

First Syllable Consonant Cluster Unstressed: **#k^hɹ(2), #k^hw (3)**

Second Syllable Consonant Cluster Stressed: t^hɹ(3), fɹ, ndʒ#, ɫd# (6)

Second Syllable Consonant Cluster Unstressed: **nt#(2), p^hɹ, bl, bɹ, dɹ, tsk#, ft, k^hw, ks#, kt#, ɲk# (12)**

Third Syllable Consonant Cluster Stressed:

Third Syllable Consonant Cluster Unstressed: **ɹɹ, ɲz# (2)**

Fourth Syllable Consonant Cluster Stressed:

Fourth Syllable Consonant Cluster Unstressed:

Fifth Syllable Consonant Cluster Stressed:

Fifth Syllable Consonant Cluster Unstressed:

Consonant Cluster Total per Syllable

First Syllable Consonant Cluster: **#k^hɹ(3), #bl(2), #bɹ(2), #skw(2), #k^hj(2), #k^hw(2), #p^hɹ, #p^hl, #fl, #fɹ, #tɹ, #dɹ, ɹg, #gr (21)**

Second Syllable Consonant Cluster: **t^hɹ(3), nt#(2), p^hɹ, bl, bɹ, dɹ, fɹ, tsk#, ndʒ#, ft, ɫd#, k^hw, ks#, kt#, ɲk# (18)**

Third Syllable Consonant Cluster: **ɹɹ, ɲz# (2)**

Fourth Syllable Consonant Cluster:

Fifth Syllable Consonant Cluster:

Consonant Cluster Stressed and Unstressed Total

Consonant Cluster Stressed: t^hɹ(3), #bl(2), #bɹ(2), #skw(2), #k^hj(2), #p^hɹ, #p^hl, #fl, #fɹ, fɹ, #tɹ, #dɹ, ndʒ#, ɹg, ɫd#, #k^hɹ, #k^hw, #gr (24)

Consonant Cluster Unstressed: **nt#(2), #k^hɹ(2), p^hɹ, bl, bɹ, tɹ, dɹ, tsk#, ɲz#, ft, #k^hw, k^hw, ks#, kt#, ɲk# (17)**

Consonant Cluster Total (absolute)

Narrow: **#k^hɹ(4), t^hɹ(3), #p^hl(2), #bl(2), #bɹ(2), #fl(2), nt#(2), #skw(2), #k^hj(2), #k^hw(2), kt#(2), #p^hɹ, p^hɹ, #p^hw, bl, bɹ, #fɹ, fɹ, #tɹ, tɹ, #dɹ, dɹ, dʒd#, tsk#, ndʒ#, ɲz#, #spɹ, #spl, #sk, ft, ɹg, ɹdʒ#, ɹs#, ɫd#, #kɹ, k^hw, ks#, #gr, ɲk# (53)**

Broad: **ɹɹ(5), kɹ(5), bl(3), bɹ(3), kw(3), pɹ(2), pl(2), fl(2), fɹ(2), dɹ(2), nt(2), skw(2), kj(2), kt(2), pw, dʒd, tsk, ndʒ, ɲz, spɹ, spl, sk, ft, ɹg, ɹd, ɹs, ɫd, ks, gr, ɲk (53)**

53 total consonant clusters

Supra-Segments: Whole Syllables

Whole Syllable Total for Stressed and Unstressed Syllables and Monosyllables

Monosyllable Whole Syllable:

#spɹiⁱ#, #ɹiⁱdʒd#, #kɹiⁱk#,

#p^hlo^wg#,

#flæk#, #skæt^ː#,

#t^haⁱ#, #la^wf#,

#p^hwad#, #t^haɹdʒ#, #splakt#, #k^ham#, #k^haɹs#, #k^hɹap#, #ha# (15)

First Syllable Whole Syllable Stressed (all entries are word initial):

#k^hju^w(2), #fɹeⁱ(2),

#tʃiⁱ, #ɹiⁱ, #gri, #wiⁱ,

#u^wm, #bu^wɹ, #flu^w, #fɹu^w, #lu^w,

#p^hɹk, #p^hɹ, #bɹɹk, #t^hɹɹ, #t^hɹn, #t^hɹl, #t^hɹm, #dʒɹ, #ɹɹ, #gɹm,

#wɹd,

#seⁱ,

#do^w, #k^ho^w,

#ə, #mə, #ʒə^k, #ɹə, #wə^d,

#p^hlɛk, #mɛ, #dɹɛk,

#t^hɹ, #sɹm, #gɹn,

#pʰɔ̃, #mɔl,
 #blæ, #dæn, #ɹæt, #kʰɹæ, #kʰæm,
 #baʲ, #vaʲ, #ɹaʲ, #ka, #kar,
 #a, #pʰa, #pʰaɹ, #pʰɹak, #bɹa, #baɹ, #blaɹ, #ma, #man, #daɹ, #skwaːn, #skwa, #ɹak, #ɹan, #la, #kʰɹa, #kʰaɹ, #gaɹ (68)

First Syllable Whole Syllable Unstressed (all entries are word initial):

#bə(2),
 #pi,
 #dɪ, #dɪs, #sɪŋ, #zɪm, #kʰɹɪ, #kɪ, #kʰwɪ,
 #foʷ, #toʷ, #to,
 #ə, #pə, #mə, #və, #nə, #ɹə, #lə, #kʰəŋ, #kʰɹə,
 #pʰə,
 #mɛt, #kʰwɛɹɪ,
 #tæ,
 #vaʲ,
 #a, #ma, #kaɹ, #wam (31)

Second Syllable Whole Syllable Stressed:

pʰɪʲ#, mɪʲɹ#,
 luʷf#,
 sɪn, lɪ,
 zeʲn#, ɹeʲŋk, leʲ,
 ɹoʷ, kʰoʷdʷ#, gloʷ#,
 ɛ, bɛtɔ̃#, fɹɛ, tʰɛɹɹ#,
 bʌn,
 pʰɔ̃ɹndʒ#,
 bæs, tʰɹæ, dæk,
 naʲ#,
 tʰɹaɹ, tʰɹa, dan, ɹan, ja, kʰan#, gaɹ (28)

Second Syllable Whole Syllable Unstressed:

zɪʲ#(2), koʷ#(2), tʰŋ#(2), ɹʰɹ#(2), dʌ#(2),
 bliʲ#, bɹɪʲ#, dɹɪʲ, diʲ#, riʲ#, liʲ,
 kuʷ#,
 bɹɪs#, mɪtsk#, tɪnt#, nɪk#, ðɪn#, sɪn#, lɪk, kɪŋ#,
 ɹeʲn#,
 foʷ#, noʷ, zoʷ, jo#, goʷ#, ɹo#,
 pə, pʰɹə, mə, fəŋ#, təŋ, tʃə, tə#, dʰəŋ#, nə, nəθ#, rʰɹ#, rəʲ, rək#, stʰɹ#, sʰəŋ#, sə, gə#, gə, gʰəŋ#, wətʰ#,
 təʷ#, nəʷ#, rəʷ, ʃtəʷ#, kəʷ,
 lɛkʷ#,
 dɔ̃ɹ#, kɔ̃ɹɹ#,
 gaʲ#,
 pʰaɹ#, pʰap#, na, sant#, saf#, san#, lakt#, kʰwat#, kaks#, wanjɹ# (71)

Third Syllable Whole Syllable Stressed:

tʰɔ̃ɹ,
 ɹæn (2)

Third Syllable Whole Syllable Unstressed:

zoʷ#(2),
 diʲ, ziʲn#,
 nuʷ#,
 tɪk#, tɪs#, rɪk#, sɪk#, ʃɪn#, lɪtʷ#, kɪn#,
 eʲ, teʲɹ#,
 foʷn#,
 pə, fʰɹ#, tə#, tɹə, tʰŋ#, dʰŋz#, də#, nə, rʰɹ#, ləs#, lɛdʒ#,
 kəʷ,
 nɛs#, nɛɹ#,

baʰt#, taʰm#,
at#, tsa# (33)

Fourth Syllable Whole Syllable Stressed:

Fourth Syllable Whole Syllable Unstressed:

lɪs#,
ə#, dʒə, rəʰt#, kə#,
rəʰ#,
zɔʰd#,
faʰ# (8)

Fifth Syllable Whole Syllable Stressed:

Fifth Syllable Whole Syllable Unstressed:

neʰtʰ# (1)

Whole Syllable Total per Syllable

First Syllable Whole Syllable (all entries are word initial):

#kʰjuʷ(2), #fɿeʰ(2), #bə(2), #vaʰ(2), #a(2), #ma(2),
#pi, #tʃiʰ, #ɹiʰ, #gri, #wiʰ,
#uʷm, #buʷŋ, #fluʷ, #fʰuʷ, #luʷ,
#pʰɪk, #pʰɪ, #bɹɪk, #tʰɹɪ, #tʰɪn, #tʰɪl, #tʰɪm, #dɪ, #dɪs, #dʒɪ, #sɪŋ, #zɪm, #lɪ, #kʰɹɪ, #kɪ, #kʰwɪ, #gɪm,
#wɒd,
#seʰ,
#foʷ, #toʷ, #to, #doʷ, #kʰoʷ,
#ə, #pə, #mə, #və, #nə, #kʰəŋ, #kʰɹə, #ɹə, #lə,
#ə, #pʰə, #mə, #ʒəʰkʰ, #ɹə, #wəʰd,
#pʰɪk, #mɛ, #mɛt, #dɹɛk, #kʰwɛʰɹ,
#tʰɹ, #sɹm, #gɹn,
#pʰɔʰ, #mɔl,
#blə, #tə, #dæn, #ɹət, #kʰɹə, #kʰæm,
#baʰ, #ɹəʰ, #ka, #kar,
#pʰa, #pʰaɹ, #pʰɹak, #bɹa, #baɹ, #blaɹ, #man, #daɹg, #skwa:n, #skwa, #ɹak, #ɹan, #la, #kʰɹa, #kʰaɹ, #kaɹ, #gaɹ, #wam (99)

Second Syllable Whole Syllable:

zɪʰ#(2), koʷ#(2), təŋ#(2), ɹəʰ#(2), dəʰ(2),
pʰɪʰ#, bliʰ#, buɪʰ#, miɹʰ#, dɹiʰ, diʰ#, riʰ#, liʰ,
luʷf#, kuʷ#,
bɹɪs#, mɪtsk#, tɪnt#, nɪk#, ʈɪn#, sɪn, sɪn#, lɪ, lɪk, kɪŋ#,
zeʰn#, ɹeʰn#, ɹeʰŋk, leʰ,
foʷ#, noʷ, zoʷ, ɹoʷ, joʷ, kʰoʷdʰ#, goʷ#, gloʷ#, ɹoʷ#,
pə, pʰɹə, mə, fəŋ#, təŋ, tɹə, təʰ, dəŋ#, nə, nəθ#, rəʰ#, rəʰt, rək#, stəʰ#, səŋ#, səŋ#, sə, gə#, gə, gəŋ#, wətʰ#,
təʰ#, nəʰ#, rəʰ, fəʰ#, kəʰ,
ɛ, bɛʰd#, fɹɛ, tʰɛʰɹ#, lɛkʰ#,
bɹn,
pʰɔʰndʒ#, dɔɹ#, kɔʰl#,
bəʰs, tʰɹə, dæk,
naʰ#, gaʰ#,
pʰaɹ#, pʰap#, tʰɹaɹ, tʰɹa, dan, na, sant#, saf#, san#, ɹan, lakt#, ja, kʰan#, kʰwat#, kaks#, gaɹ, wəŋk# (99)

Third Syllable Whole Syllable:

zoʷ#(2),
diʰ, ziʰn#,
nuʷ#,
tɪk#, tɪs#, rɪk#, sɪk#, fɪn#, lɪtʰ#, kɪn#,
eʰ, teʰ#,
foʷn#,
pə, fəʰ#, təʰ, tɹə, təŋ#, dəŋz#, dəʰ#, nə, rəʰ#, ləs#, lədz#,

kə,
 nɛs#, nɛɪ#,
 tʰɔʲ,
 ɹæn,
 baʰt#, taʰm#,
 at#, tsa# (35)

Fourth Syllable Whole Syllable:

lɪs#,
 ə#, dʒə, rəʰ#, kə#,
 rə#,
 zɔʲd#,
 faʲ# (8)

Fifth Syllable Whole Syllable:

neʰtʰ# (1)

Whole Syllable Stressed and Unstressed Total

Whole Syllable Stressed:

#kʰjuʷ(2), #fɹeʲ(2),
 pʰiʲ#, miʲɹ#, #tʃiʲ, #ɹiʲ, #gri, #wiʲ,
 #uʷm, #buʷŋ, #fluʷ, #fʲuʷ, #luʷ, luʷf#,
 #pʰɪk, #pʰɪ, #bɹɪk, #tʰɹɪ, #tʰɪn, #tʰɪl, #tʰɪm, #dʒɪ, sɪn, lɪ, #lɪ, #gɪm,
 #wud,
 #seʲ, zeʲn#, ɹeʲŋk, leʲ,
 #doʷ, ɹoʷ, kʰoʷdʰ#, #kʰoʷ, gloʷ#,
 #ə, #mə, #ʒəkʰ, #ɹə, #wə-d,
 ɛ, #pʰlɛk, bɛdʰ#, #mɛ, fɹɛ, tʰɛʲɹ#, #dɹɛk,
 bʌn, #tʰʌ, #sʌm, #gʌn,
 #pʰɔʲ, pʰɔʲndʒ#, #mɔl, tʰɔʲ,
 #blæ, bæɪ, tʰɹæ, dæk, #dæn, #ɹæt, ɹæn, #kʰɹæ, #kʰæm,
 #baʲ, #vaʲ, naʲ#, #ɹaʲ, #ka, #kar,
 #a, #ma, #pʰa, #pʰaɹ, #pʰɹak, #bɹa, #baɹ, #blaɹ, #man, tʰɹaɹ, tʰɹa, dan, #daɹg, #skwa:n, #skwa, #ɹak, ɹan, #ɹan, #la, ja, kʰan#, #kʰɹa,
 #kʰaɹ, #gaɹ, gaɹ (98)

Whole Syllable Unstressed:

təŋ#(3), rəʰ#(3), ziʲ#(2), zoʷ#(2), koʷ#(2), pə(2), #bə(2), tə#(2), nə(2), ɹəʰ#(2), də(2), kə(2),
 #pi, bliʲ#, buʲɹ#, dɹiʲ, diʲ#, diʲ, riʲ#, ziʲn#, liʲ,
 nuʷ#, kuʷ#,
 bɹɪs#, mɪtsk#, tɪnt#, tɪk#, tɪs#, #dɪ, #dɪs, nɪk#, rɪk#, ðɪn#, sɪn#, #sɪŋ, sɪk#, #zɪm, fɪn#, lɪk, lɪtʰ#, lɪs#, kɪŋ#, kɪn#, #kʰɹɪ, #kɪ, #kʰwɪ,
 eʲ, teʲ#, neʰtʰ, ɹeʲn#,
 #foʷ, foʷ#, foʷn#, #toʷ, #to, noʷ, zoʷ, jo#, goʷ#, ɹo#,
 #ə, ə#, #pə, pʰɹə, #mə, mə, fəŋ#, fəʰ#, #və, tɹə, tɹə, də#, dəŋ#, dəŋz#, dʒə, #nə, nəθ#, rəʰ, rək#, stəʰ#, səŋ#, səŋ#, sə, #ɹə, #lə, ləs#,
 lədz#, kə#, #kʰəŋ, #kʰɹə, gə#, gə, gəŋ#, wətʰ#,
 #pʰə, tə#, nə#, rə, rə#, ftə#,
 #mɛʰ, nɛs#, nɛɹ#, lɛkʰ#, #kʰwɛʲɹ,
 dɔɹ#, zɔʲd#, kɔʲl#,
 #tæ,
 baʰt#, faʲ#, #vaʲ, taʰm#, gaʲ#,
 #a, at#, pʰaɹ#, pʰap#, #ma, tsa#, na, sant#, saf#, san#, lakt#, #kaɹ, kʰwat#, kaks#, wəŋk#, #wam (144)

Whole Syllable Total (absolute)

Narrow:

təŋ#(3), rəʰ#(3), ziʲ#(2), #kʰjuʷ(2), #fɹeʲ(2), zoʷ#(2), koʷ#(2), pə(2), #bə(2), tə#(2), nə(2), ɹəʰ#(2), də(2), kə(2), #vaʲ(2),
 #a(2), #ma(2),
 #pi, pʰiʲ#, bliʲ#, buʲɹ#, miʲɹ#, dɹiʲ, diʲ#, diʲ, #tʃiʲ, riʲ#, #spɹiʲ#, ziʲn#, #ɹiʲ, #ɹiʲdʒd#, liʲ, #gri, #kɹɪk#, #wiʲ,
 #uʷm, #buʷŋ, #fluʷ, #fʲuʷ, nuʷ#, #luʷ, luʷf#, kuʷ#,
 #pʰɪk, #pʰɪ, #bɹɪk, bɹɪs#, mɪtsk#, tɪnt#, tɪk#, tɪs#, #tʰɹɪ, #tʰɪn, #tʰɪl, #tʰɪm, #dɪ, #dɪs, #dʒɪ, nɪk#, rɪk#, ðɪn#, sɪn#, sɪn, #sɪŋ, sɪk#, #zɪm,

ʃɪn#, lɪk, lɪtʰ#, lɪs#, lɪ, #lɪ, kɪŋ#, kɪn#, #kʰɪ, #kɪ, #kʰwɪ, #ɡɪm,
 #wʊd,
 eʲ, teʲ#, neʲtʰ#, #seʲ, zeʲn#, ʲeɪŋk, ʲeɪn#, leʲ,
 #pʰloʷɡ#, #foʷ, foʷ#, foʷn#, #toʷ, #to, #doʷ, noʷ, zoʷ, ʲoʷ, jo#, kʰoʷdʰ#, #kʰoʷ, goʷ#, gloʷ#, ʲoʷ#,
 #ə, ə#, #pə, pʰɪə, #mə, mə, fəŋ#, fəʃ#, #və, tɪə, tʰɪ, tʲə, də#, dəŋ#, dəŋz#, dʒə, #nə, nəθ#, rək, rək#, stəʃ#, səŋ#, səŋ#, sə, #ɪə, #lə, ləs#,
 lədʒ#, kə#, #kʰəŋ, #kʰɪə, gə#, gə, gəŋ#, wətʰ#,
 ə, #pʰə, #mə, tə#, nə#, rə, rə#, ʃtə#, #ʒəkʰ, #ɪə, #wəd,
 ɛ, #pʰlɛk, bɛʃd#, #mɛ, #mɛʃ, fɪɛ, tʰɛʲɪ#, #dɪɛk, nɛs#, nɛɪ#, lɛkʰ#, #kʰwɛʲɪ,
 bʌn, #tʰʌ, #sʌm, #ɡʌn,
 #pʰɔʲ, pʰɔʲndʒ#, #mɔʲ, tʰɔʲ, dɔʲ#, zɔʲd#, kɔʲlʰ#,
 #blæ, bæɪs, #flæk#, tʰɪə, #tæ, dæk, #dæn, #skætʰ#, #ɪæt, ɪæn, #kʰɪə, #kʰæm,
 #baʲ, baʲtʰ#, faʲ#, #tʰaʲ#, taʲm#, naʲ#, #ɪaʲ, #laʷʃ#, #ka, #kar, gaʲ#,
 at#, #pʰa, #pʰaɪ, pʰaɪ#, pʰap#, #pʰɪak, #pʰwad#, #bɪa, #baɪ, blaɪ, #man, tsa#, tʰɪaɪ, tʰɪa, #tʰɪadʰ#, dan, #daɪɡ, na, sant#, saf#, san#,
 #skwaːn, #skwa, #splakt#, #ɪak, ɪan, #ɪan, #la, lakt#, ja, kʰan#, #kʰɪa, #kʰaɪ, #kaɪ, kʰwat#, kaks#, #kʰam#, #kʰaɪs#, #kʰɪap#,
 #ɡaɪ, ɡaɪ, wəŋk#, #wam, #ha# (258)

Broad:
təŋ(4), rəʃ(4), zo(3), ko(3), pə(3), nə(3), pi(2), di(2), zi(2), kju(2), sɪn(2), lɪ(2), fɪɛ(2), fo(2), to(2), ə(2) bə(2), mə(2), tə(2),
ɪəʃ(2), gə(2), də(2),
rə(2), kə(2), va(2), a(2), paɪ(2), ma(2), ɪan(2), kaɪ(2), ɡaɪ(2),

bli, bɪɪ, miɪ, dʒi, tʃi, ri, spɪi, zin, ʲi, ʲidʒd, li, gri, kɪik, wi,
 um, buŋ, flu, fu, nu, lu, luf, ku,
 pɪk, pɪ, bɪɪk, bɪɪs, mɪtsk, tɪnt, tɪk, tɪs, tɪɪ, tɪn, tɪl, tɪm, dɪ, dɪs, dʒɪ, nɪk, rɪk, ðɪn, sɪŋ, sɪk, zɪm, ʃɪn, lɪk, lɪt, lɪs, kɪŋ, kɪn, kɪɪ, kɪ, kwɪ, ɡɪm,
 wʊd,
 e, te, net, se, zen, ʲeɪŋk, ɪen, le,
 plog, fon, do, no, ʲo, jo, kod, go, glo, ʲo,
 pɪə, fəŋ, fəʃ, və, tɪə, tʲə, də, dəŋ, dəŋz, dʒə, nəθ, rək, stəʃ, səŋ, səŋ, sə, ɪə, lə, ləs, lədʒ, kə, kəŋ, kɪə, gəŋ, wət,
 ə, pə, mə, tə, nə, ʃtə, ʒəkʰ, ɪə, wəd,
 ɛ, plɛk, bɛʃd, mɛ, mɛʃ, fɪɛ, tɛɪ, dɪɛk, nɛs, nɛɪ, lɛk, kwɛɪ,
 bʌn, tʌ, sʌm, ɡʌn,
 pɔ, pɔʲndʒ, mɔʲ, tɔ, dɔɪ, zɔd, kɔl,
 blæ, bæɪs, flæk, tɪə, tæ, dæk, dæn, skæt, ɪæt, ɪæn, kɪə, kæm,
 ba, bat, fa, ta, tam, na, ɪa, laʃ, ka, kar, ga,
 at, pa, pap, pɪak, pwad, bɪa, baɪ, blaɪ, man, tsa, tɪaɪ, tɪa, taɪd, dan, daɪɡ, na, sant, saf, san, skwan, skwa, splakt, ɪak, la, lakt, ja, kan,
 kɪa, kwat, kaks, kam, kaɪs, kɪap, wəŋk, wam, ha (258)

258 total whole syllables

Supra-Segments: Whole Words

Whole Word Total per Word Length

Whole Monosyllables:

tard [tʰaɪdʰ], kreek [kɪik], reejd [ɪɪʃdʒd], hah [ha], ploag [pʰloʷɡ], skat [skætʰ], karse [kʰaɪs], flak [flæk], krahp [kʰɪap], splashkt [splakt], spree [spɪɪʃ], tie [tʰaʲ], kahm [kʰam], loush [laʷʃ], pwahd [pʰwad]

Whole Bisyllables:

seenguy [sɪŋ · gaʲ],

WORDsuhn [ʰwəd · səŋ], BYtint [ʰbaʲ · tɪnt], RAHkshtur [ʰɪak · ʃtə], KRAhtul [ʰkʰɪa · rəʃ], KAHRkoil [ʰkar · kɔʲl], GREEgo [ʰgri · ʲo], RAHNtuh [ʰɪan · tə], FLOOpahp [ʰfluʷ · pʰap], GHIMblee [ʰɡɪm · bliʲ], BLAthɪn [ʰblæ · ðɪn], FYOUNuhr [ʰfuʷ · nə], MOLtuhr [ʰmɔʲ · tə], ZHERKnik [ʰʒəkʰ · nɪk], VYbris [ʰvaʲ · bɪɪs], SKWAHRul [ʰskwa · ɪəʃ], LOOzee [ʰluʷ · ziʲ], MURdik [ʰmə · rək] (first schwa raised and fronted), TIMbree [ʰtʰɪm · bɪɪʲ], DREKSahn [ʰdɪɛk · san], KAHRdee [ʰkʰaɪ · diʲ], BRAHkeeng [ʰbɪa · kɪŋ], WUDwahnk [ʰwʊd · wəŋk], SAYsum [ʰseʲ · səŋ], BLAHRtee [ʰblaɪ · riʲ], GUNdoor [ʰɡʌn · dɔɪ], KAYoe [ʰka · jo], TINsahnt [ʰtʰɪn · sant], PIKrain [ʰpʰɪk · ɪeɪn], PRAHklek [ʰpʰɪak · lɛkʰ], JIHguh [ʰdʒɪ · gə], URdum [ʰə · dəŋ], FRAYzee [ʰfɪɛʲ · ziʲ], POYNuth [ʰpʰɔʲ · nəθ], KAMtuhn [ʰkʰæm · təŋ], FRAYgo [ʰfɪɛʲ · goʷ], TILsin [ʰtʰɪl · sɪn], PAHRkoe [ʰpʰaɪ · koʷ], LIHmitsk [ʰlɪ · mɪtsk], RATsof [ʰɪæt · saf], PLEKstul [ʰpʰlɛk · stəʃ], BOONGkoo

[ˈbuːŋ·kuː], SUMpahr [ˈsʌm·pʰɑː], CHEEkahks [ˈtʃiː·kaks], DOElahkt [ˈdoː·lakt], KOHwuht [ˈkʰoː·wət̚], MAHNkwaht [ˈman·kʰwat], GAHRfoe [ˈgaː·foː], RURrul [ˈɹʌ·ɹʰ], REEguh̃m [ˈɹiː·gə̃m], KRAkoe [ˈkʰɹæ·koː], BRIKtun [ˈbɹɪk·tə̃n],

buhZAYN [bə·ˈzeːn], melGLOW [mɛt̚·ˈgloː], muhKAHN [mə·ˈkʰan], karPORNGE [kaː·ˈpʰɔ̃ndʒ], kwairMEER [kʰweːɹ·ˈmiːɹ], purLOOF [pʰʌ·ˈluːf], ahPEE [a·ˈpʰiː], taKODE [tæ·ˈkʰoːd̚], toeTAIR [to·ˈtʰeːɹ], luhBELD [lə·ˈbɛld̚], kihNYE [kɪ·ˈnaː]

Whole Trisyllables:

SKWAHNduhrnes [ˈskwaːn·dʌ·nɛs], KYOUpuhtime [ˈkʰjuː·pə·taːim], WEEnofone [ˈwiː·noː·foːn], KYOUtyuhlus [ˈkʰjuː·tjə·ləs], MAHdreeaht [ˈma·dɹiː·at], LAHkuhnair [ˈla·kʌ·nɛɹ], TRIHtuhrbite [ˈtʰɹɪ·rə·baːt̚], BAHRTuhnzeen [ˈbaː·tə̃n·ziːn], DANdurful [ˈdæn·dʌ·fʰ], DARGnahdul [ˈdaːɹg·na·rə̃t̚], TUHguhluhge [ˈtʰʌ·gə̃lədʒ], RYnuhkin [ˈɹaː·nə·kɪn], PAHmuhduhnz [ˈpʰa·mə·dʰə̃nz], OOMliktuhn [ˈuːm·lɪk·tə̃n], AHpruhzoe [ˈa·pʰɹə·zoː], MEHzolit [ˈmɛ·zoː·lɪt̚],

peeYAHTsah [piː·ˈjaː·tsa], kwihLAYshin [kʰwɪ·ˈleː·ʃɪn], kruhDAHNzo [kʰɹə·ˈdan·zoː], zimFREHTik [zɪm·ˈfɹɛ·ɾɪk], vuhRAHNtis [və·ˈɹan·tɪs], mahROWtuh [ma·ˈɹoː·tə̃t̚], vySINTay[vaː·ˈsɪn·teːɹ], ruhBUNduh [ɹə·ˈbʌn·də̃t̚],uhRANKnoo [ə·ˈɹeːŋk·nuː], toeLIHfum [toː·ˈlɪ·fə̃m], nuhDAKSik [nə·ˈdæk·sɪk], wahmBAStik [wam·ˈbæs·ɾɪk]

Whole Tetrasyllables:

PIHduhlaytur [ˈpʰɪ·rə̃t̚·eː·rə̃t̚],

disTRANuhfy [dɪs·ˈtʰɹæ·nə·faː], buhTRAHpuhlis [bə·ˈtʰɹa·pə̃lɪs], fowEHtruhkuh [foː·ˈɛ·tɹə̃kə̃], kunGAHRdeeũh [kʰə̃ŋ·ˈgaː·dɹiː·ə̃], puhTRARKuhrzoid [pə̃·ˈtʰɹaː·kə̃·zɔ̃d̚],

krihleeTOYdul [kʰɹɪ·liː·ˈtʰɔ̃ɹə̃t̚]

Whole Pentasyllables:

disuhRANjuhnayt [dɪ·sə̃·ˈɹæn·dʒə̃·neːt̚]

	Syllable Receiving Stress					
	None	First	Second	Third	Fourth	Fifth
Word Length Total						
Monosyllabic: 15						
Bisyllabic: 63	1	51	11			
Trisyllabic: 28	0	16	12	0		
Tetrasyllabic: 7	0	1	5	1	0	
Pentasyllabic: 1	0	0	0	1	0	0
Total: 114	1	68	28	2	0	0



Question ID: f.

Segments

Segment Total for Stressed and Unstressed Syllables and Monosyllables according to Syllable Configuration

Monosyllable Onset: **ɹ(6), #k^h(5), #s(4), #b(3), t(2), #d(2), #f(2), l(2), k(2), w(2), #p^h, #m, m, #f, #tʃ, #dʒ, #ɹ, #l, #j, #h** (40)

Monosyllable Nucleus: **a(7), æ(6), i^j(2), ε(2), #u^w#, o, o#, o^w#, ə#, #ε, ʌ, a, a^w, a#** (27)

Monosyllable Coda: **t#(4), n(4), s#(4), k#(3), d#(2), n#(2), z#(2), ɹ(2), k(2), f#, v#, ʃ#, t#, g#, ŋ** (32)

First Syllable Segment Stressed Onset: #s(17), k(7), t(6), ɹ(5), #k^h(5), #f(4), #n(4), l(4), #p^h(3), #ɹ(3), #g(3), p(2), #z(2), #j(2), #w(2), #t^h, #d, r, j, w (74)

First Syllable Segment Stressed Nucleus: æ(11), a(10), i^j(5), u^w(5), e^j(4), ε(3), #a(3), ɪ(2), o^w(2), ɔ(2), #æ(2), #a^j(2), #i^j, ʊ, #u^w, u, #e^j, ə, #ε, #ʌ (59)

First Syllable Segment Stressed Coda: n(8), ɹ(3), k(3), p(2), b, m, t, s, z (21)

First Syllable Segment Unstressed Onset: **#k(3), #b(2), #f(2), #s(2), #p, #m, m, #t, #dʒ, #n, l, #g, #x, #w, #h** (20)

First Syllable Segment Unstressed Nucleus: **u^w(5), #ɪ(5), ə(4), a(3), #ə(2), i^j, #u^w, o^w, ə, #ε, ɔ** (25)

First Syllable Segment Unstressed Coda: **n(2), m, s, k** (5)

Second Syllable Segment Stressed Onset: m(5), ɹ(4), k^h(4), t^h(3), s(2), l(2), p^h, f, t, tʃ, dʒ, θ, z, j, g, w (30)

Second Syllable Segment Stressed Nucleus: a(9), u^w#(3), ɪ(2), i^j, e^j, o^w, ʌ, ɔ^j, a^j, a^j#, a^w (22)

Second Syllable Segment Stressed Coda: n(5), s(2), ɹ(2), fɪ#, t#, d#, z, k# (14)

Second Syllable Segment Unstressed Onset: **t(8), l(8), s(7), f(6), k(6), p(4), n(4), v(3), d(3), r(3), ʃ(3), dʒ(2), ɹ(2), θ, z, j, g, w** (73)

Second Syllable Segment Unstressed Nucleus: **ə(10), ɪ(8), əŋ#(4), ə(4), i^j#(3), e^j#(3), o^w#(3), əŋ(3), a(3), u^w(2), ʊ(2), o^w(2), ə#(2), ʊ, u^w#, e^j, o#, ə#, əŋ#, əɪ#, ε, ɔ, a^j#, a#, a^h#** (52)

Second Syllable Segment Unstressed Coda: **k#(4), n#(3), t#(2), d^h#(2), n(2), z#(2), ɹ#(2), t(2), p#, v#, d#, s#, ʃ#, g#** (25)

Third Syllable Segment Stressed Onset: n (1)

Third Syllable Segment Stressed Nucleus: i^j (1)

Third Syllable Segment Stressed Coda:

Third Syllable Segment Unstressed Onset: **l(5), t(4), n(4), ɹ(4), b(2), m(2), f(2), d(2), s(2), j(2), h(2) v, ʒ, k** (34)

Third Syllable Segment Unstressed Nucleus: **ə(6), o^w#(4), ɪ(3), ə#(2), ε^j(2), a(2), i^j, i^j#, u^w#, e^j#, o^w, əŋ#, əɪ#, ə, a#, a^j#** (29)

Third Syllable Segment Unstressed Coda: **s#(3), n#(2), t#(2), f#, n, z#, ɹ#, ŋ#** (12)

Fourth Syllable Segment Stressed Onset:

Fourth Syllable Segment Stressed Nucleus:

Fourth Syllable Segment Stressed Coda:

Fourth Syllable Segment Unstressed Onset: **g(2), ʃ, l, t** (5)

Fourth Syllable Segment Unstressed Nucleus: **i^j#(2), ə(2), ɪ, ə#, əŋ#** (7)

Fourth Syllable Segment Unstressed Coda: **s#(3)** (3)

Fifth Syllable Segment Stressed Onset:

Fifth Syllable Segment Stressed Nucleus:

Fifth Syllable Segment Stressed Coda:

Fifth Syllable Segment Unstressed Onset:

Fifth Syllable Segment Unstressed Nucleus:

Fifth Syllable Segment Unstressed Coda:

Segment Total for Stressed and Unstressed Onsets and Codas

Stressed Onset: #s(17), ɹ(9), t(7), k(7), l(6), m(5), #k^h(5), #f(4), #n(4), k^h(4), #p^h(3), t^h(3), #ɹ(3), #g(3), p(2), #z(2), s(2), #j(2), j(2), #w(2), w(2), p^h, f, #t^h, #d, tʃ, dʒ, n, r, θ, z, g (98)

Stressed Coda: n(13), ɹ(5), s(3), k(3), p(2), z(2), b, m, fɹ#, t, t#, d#, k# (35)

Unstressed Onset: l(15), t(12), s(9), f(8), n(8), k(7), ɹ(6), d(5), p(4), v(4), ʃ(4), m(3), r(3), j(3), #k(3), g(3), #b(2), b(2), #f(2), dʒ(2), #s(2), #p, #m, #t, #dʒ, #n, θ, z, ʒ, t, #g, #x, #w, w, #h, h (122)

Unstressed Coda: s#(7), n(5), n#(5), k#(4), z#(3), ɹ#(3), t#(2), d`#(2), t(2), t#(2), p#, m, f#, v#, d#, s, ʃ#, k, g#, ŋ# (45)

Segment Total for Onsets and Codas

Onset: l(23), t(21), #s(21), ɹ(21), k(16), s(11), #k^h(10), m(9), f(9), n(9), #f(7), p(6), #b(5), d(5), #n(5), j(5), w(5), #p^h(4), v(4), ʃ(4), #ɹ(4), k^h(4), #g(4), g(4), t^h(3), #d(3), dʒ(3), r(3), #j(3), #k(3), #w(3), b(2), #m(2), #dʒ(2), #z(2), θ(2), #s(2), z(2), #ʃ(2), #h(2), #p, p^h, #t, #t^h, #tʃ, tʃ, r, ʒ, #l, t, #x, h (260)

Coda: n(22), s#(11), k#(8), t#(7), n#(7), ɹ(7), k(6), z#(5), d#(4), s(4), ɹ#(3), t(3), t#(3), p(2), m(2), f#(2), v#(2), d`#(2), z(2), ʃ#(2), g#(2), p#, b, fɹ#, t, ŋ, ŋ# (112)

Segment Total for Stressed and Unstressed Syllables and Monosyllables

Monosyllable Segment: ɹ(8), #k^h(5), t#(4), n(4), #s(4), s#(4), k(4), #b(3), k#(3), t(2), #d(2), d#(2), n#(2), z#(2), #ʃ(2), l(2), w(2), #p^h, #m, m, #f, f#, v#, #tʃ, #dʒ, ʃ#, #ɹ, #l, t, t#, #j, g#, ŋ, #h (72)

a(7), æ(6), i^j(2), ε(2), #u^w#, o, o#, o^w#, ə#, #ε, ʌ, a, a^w, a# (27)

First Syllable Segment Stressed: #s(17), k(10), n(8), ɹ(8), t(7), #k^h(5), p(4), #f(4), #n(4), l(4), #p^h(3), #ɹ(3), #g(3), #z(2), #j(2), #w(2), b, m, #t^h, #d, r, s, z, j, w (95)

æ(11), a(10), i^j(5), u^w(5), e^j(4), ε(3), #a(3), ɪ(2), o^w(2), ɔ(2), #æ(2), #a^j(2), #i^j, ʌ, #u^w, u, #e^j, ə, #ε, #ʌ (59)

First Syllable Segment Unstressed: #k(3), #b(2), m(2), #f(2), n(2), #s(2), #p, #m, #t, #dʒ, #n, s, l, k, #g, #x, #w, #h (25)

u^w(5), #ɪ(5), ə(4), a(3), #ə(2), i^j, #u^w, o^w, ə, #ε, ɔ (25)

Second Syllable Segment Stressed: ɹ(6), m(5), n(5), s(4), k^h(4), t^h(3), z(2), l(2), p^h, f, fɹ#, t, t#, d#, tʃ, dʒ, θ, j, k#, g, w (44)

a(9), u^w#(3), ɪ(2), i^j, e^j, o^w, ʌ, ɔ^j, a^j, a^j#, a^w (22)

Second Syllable Segment Unstressed: t(8), l(8), s(7), f(6), n(6), k(6), p(4), əm̥#(4), k#(4), v(3), d(3), n#(3), əŋ(3), r(3), ʃ(3), t#(2), d`#(2), dʒ(2), z#(2), ɹ(2), ɹ#(2), t(2), p#, v#, d#, əŋ#, θ, s#, z, ʃ#, ʌ#, j, g, g#, w (94)

ə(10), ɪ(8), ə(4), i^j#(3), e^j#(3), o^w#(3), a(3), u^w(2), ʊ(2), o^w(2), ə#(2), ʌ, u^w#, e^j, o#, ə#, ε, ɔ, a^j#, a#, a^h# (52)

Third Syllable Segment Stressed: n (1)

i^j (1)

Third Syllable Segment Unstressed: n(5), l(5), t(4), ɹ(4), s#(3), b(2), m(2), f(2), d(2), n#(2), s(2), t#(2), j(2), h(2), f#, v, əŋ#, z#, ʒ, ɹ#, ʌ#, k, ŋ# (48)

ə(6), o^w#(4), ɪ(3), ə#(2), ε^j(2), a(2), i^j, i^j#, u^w#, e^j#, o^w, ə, a#, a^j# (27)

Fourth Syllable Segment Stressed:

Fourth Syllable Segment Unstressed: s#(3), g(2), əŋ#, ʃ, l, t (9)

i^j#(2), ə(2), ɪ, ə# (6)

Fifth Syllable Segment Stressed:

Fifth Syllable Segment Unstressed:

Segment Total by Syllable

First Syllable Segment: #s(19), k(11), n(10), ʃ(8), t(7), #f(6), #n(5), l(5), #k^h(5), p(4), #g(4), #p^h(3), m(3), #ʃ(3), #k(3), #w(3), #b(2), s(2), #z(2), #j(2), #p, b, #m, #t, #t^h, #d, #dʒ, r, z, j, #x, w, #h (120)

a(13), æ(11), u^w(10), i^j(6), #i(5), e^j(4), ə(4), o^w(3), ε(3), ɔ(3), #a(3), #u^w(2), ɪ(2), #ə(2), ʌ(2), #ε(2), #æ(2), #a^j(2), #i^j, ʊ, u, #e^j, #ʌ (84)

Second Syllable Segment: n(11), s(11), l(10), t(9), ʃ(8), f(7), k(6), m(5), k#(5), p(4), ʔm#(4), k^h(4), v(3), t^h(3), t#(3), d(3), dʒ(3), n#(3), ʔη(3), r(3), z(3), ʃ(3), d#(2), d^ˈ#(2), θ(2), z#(2), ʃ#(2), ʔ(2), j(2), g(2), w(2), p^h, p#, f:#, v#, ʃ, ʔη#, s#, ʃ#, ʔ#, g# (138)

a(12), ɪ(10), ə(10), u^w#(4), ʌ(4), i^j#(3), e^j#(3), o^w(3), o^w#(3), u^w(2), ʊ(2), e^j(2), ʌ(2), a^j#(2), i^j, ʊ, o#, ə#, ε, ʌ, ɔ, ɔ^j, a^j, a^w, a#, a:^h# (74)

Third syllable Segment: n(6), l(5), t(4), ʃ(4), s#(3), b(2), m(2), f(2), d(2), n#(2), s(2), ʔ#(2), j(2), h(2), f#, v, ʔη#, z#, ʒ, ʃ#, ʔ#, k, η# (49)

ə(6), o^w#(4), ɪ(3), i^j(2), ə#(2), ε^j(2), a(2), i^j#, u^w#, e^j#, o^w, ʌ, a#, a^j# (28)

Fourth Syllable Segment: s#(3), g(2), ʔη#, ʃ, l, ʔ (9)

i^j#(2), ə(2), ɪ, ə# (6)

Fifth Syllable Segment:

Segment Stressed and Unstressed Total

Stressed Segment: #s(17), n(14), ʃ(14), k(10), t(8), m(6), l(6), s(5), #k^h(5), p(4), #f(4), #n(4), k^h(4), #p^h(3), t^h(3), z(3), #ʃ(3), #g(3), #z(2), #j(2), j(2), #w(2), w(2), p^h, b, f, f:#, #t^h, t#, #d, d#, ʃ, dʒ, r, θ, k#, g (140)

a(19), æ(11), i^j(7), u^w(5), e^j(5), ɪ(4), u^w#(3), o^w(3), ε(3), #a(3), ɔ(2), #æ(2), #a^j(2), #i^j, ʊ, #u^w, u, #e^j, ʌ, #ε, #ʌ, ʌ, ɔ^j, a^j, a^j#, a^w (82)

Unstressed Segment: l(15), n(13), t(12), s(10), f(8), k(8), s#(7), ʃ(6), d(5), n#(5), p(4), m(4), ʔm#(4), v(4), ʃ(4), k#(4), ʔη(3), ʔη#(3), r(3), z#(3), ʃ#(3), ʔ(3), j(3), #k(3), g(3), #b(2), b(2), #f(2), t#(2), d^ˈ#(2), dʒ(2), #s(2), ʔ#(2), ʔ#(2), h(2), #p, p#, #m, f#, v#, #t, d#, #dʒ, #n, θ, z, ʃ#, ʒ, #g, g#, η#, #x, #w, w, #h (176)

ə(22), ɪ(12), a(8), u^w(7), o^w#(7), i^j#(6), ʌ(6), #i(5), e^j#(4), o^w(4), ə#(4), i^j(2), u^w#(2), ʊ(2), #ə(2), ʌ#(2), ε^j(2), ɔ(2), a^j#(2), ʊ, #u^w, e^j, o#, #ε, ε, a#, a#, a:^h# (110)

Segment Total (absolute)

Narrow: n(31), ʃ(28), #s(23), l(23), t(22), k(22), s(15), m(11), s#(11), #k^h(10), f(9), p(8), k#(8), #f(7), t#(7), n#(7), #b(5), d(5), #n(5), z#(5), j(5), w(5), #p^h(4), ʔm#(4), v(4), d#(4), z(4), ʃ(4), #ʃ(4), ʔ(4), k^h(4), #g(4), g(4), b(3), t^h(3), #d(3), dʒ(3), ʔη(3), ʔη#(3), r(3), ʃ#(3), ʔ#(3), #j(3), #k(3), #w(3), #m(2), f#(2), v#(2), d^ˈ#(2), #dʒ(2), θ(2), #z(2), #ʃ(2), ʃ#(2), ʔ#(2), g#(2), #h(2), h(2), #p, p^h, p#, f:#, #t, #t^h, #ʃ, ʃ, r, ʒ, #l, η, η#, #x (388)

a(34), ə(22), æ(17), ɪ(16), u^w(12), i^j(11), o^w#(8), o^w(7), ʌ(7), i^j#(6), e^j(6), ε(6), u^w#(5), #i(5), e^j#(4), ə#(4), ɔ(4), ʌ#(3), #ε(3), a^j#(3), #a(3), ʊ(2), #u^w(2), ʊ(2), o#(2), #ə(2), ε^j(2), ʌ(2), #æ(2), #a^j(2), a^w(2), a#(2), #i^j, u, #u^w#, #e^j, o, #ʌ, ɔ^j, a, a^j, a#, a:^h# (219)

Broad: n(49), s(49), k(47), ʃ(35), t(34), l(24), f(19), m(17), p(15), d(14), z(11), g(10), ʔ(9), b(8), ʃ(8), j(8), w(8), v(6), dʒ(5), h(4), r(3), ʃ(2), θ(2), η(2), r, ʒ, x (388)

a(40), ə(28), u(21), ɪ(21), æ(19), i(18), o(18), e(11), ʌ(10), ε(10), a(10), ɔ(5), ʌ(3), ʊ(2), ʊ(2) (219)

607 total segments

Supra-Segments: Consonant Clusters

Consonant Cluster Total for Stressed and Unstressed Syllables and Monosyllables according to Syllable Configuration

Monosyllable Consonant Cluster Onset (all entries are word initial): **#st(2)**, #bl, #bɹ, #fɹ, #skɹ, #sk, #fmɹ, #fw, #kʰɹ, #kʰɹ, #kʰw (12)

Monosyllable Consonant Cluster Coda (all entries are word final): **nt#(2)**, **ks#(2)**, nd#, nz#, ɹt#, ɹf#, ɹf#, ɹk# (10)

First Syllable Consonant Cluster Stressed Onset (all entries are word initial): #sk(5), #st(5), #fl(2), #pʰɹ, #sp, #stɹ, #spl, #skw, #gr, #kʰɹ, #kʰɹ, #kʰj (21)

First Syllable Consonant Cluster Stressed Coda:

First Syllable Consonant Cluster Unstressed Onset (all entries are word initial): #sm, #kl (2)

First Syllable Consonant Cluster Unstressed Coda: ks (1)

Second Syllable Consonant Cluster Stressed Onset: pʰɹ, tʰɹ, kʰw, gl (4)

Second Syllable Consonant Cluster Stressed Coda: nt#, sk# (2)

Second Syllable Consonant Cluster Unstressed Onset: fl, sk, gɹ (3)

Second Syllable Consonant Cluster Unstressed Coda: nd#, nt#, ɹs# (3)

Third Syllable Consonant Cluster Stressed Onset:

Third Syllable Consonant Cluster Stressed Coda:

Third Syllable Consonant Cluster Unstressed Onset: **st(2)**, bɹ, fɹ (4)

Third Syllable Consonant Cluster Unstressed Coda: ɹs# (1)

Fourth Syllable Consonant Cluster Stressed Onset:

Fourth Syllable Consonant Cluster Stressed Coda:

Fourth Syllable Consonant Cluster Unstressed Onset:

Fourth Syllable Consonant Cluster Unstressed Coda:

Fifth Syllable Consonant Cluster Stressed Onset:

Fifth Syllable Consonant Cluster Stressed Coda:

Fifth Syllable Consonant Cluster Unstressed Onset:

Fifth Syllable Consonant Cluster Unstressed Coda:

Consonant Cluster Total for Stressed and Unstressed Onsets and Codas

Stressed Onset: #sk(5), #st(5), #fl(2), #pʰɹ, pʰɹ, tʰɹ, #sp, #stɹ, #spl, #skw, #gr, #kʰɹ, #kʰɹ, #kʰj, kʰw, gl (25)

Stressed Coda: nt#, sk# (2)

Unstressed Onset: **st(2)**, bɹ, fɹ, fl, sk, #sm, #kl, gɹ (9)

Unstressed Coda: **ɹs#(2)**, nd#, nt#, ks (5)

Consonant Cluster Total for Onsets and Codas

Onset: **#st(7), #sk(6), #fl(2)**, **st(2)**, **#kʰɹ(2)**, **#kʰɹ(2)**, #pʰɹ, pʰɹ, #bl, #bɹ, bɹ, #fɹ, fɹ, fl, tʰɹ, sk, #sp, #sm, #stɹ, #spl, #skw, #skɹ, #fmɹ, #fw, #gr, #kl, #kʰj, #kʰw, kʰw, gl, gɹ (46)

Coda: **nt#(4)**, **nd#(2)**, **ns#(2)**, **ks#(2)**, nz#, sk#, ɹt#, ɹf#, ɹf#, ks, ɹk# (17)

Consonant Cluster Total for Stressed and Unstressed Syllables and Monosyllables

Monosyllable Consonant Cluster: **nt#(2)**, **#st(2)**, **ks#(2)**, #bl, #bɹ, #fɹ, nd#, nz#, #skɹ, #sk, #fmɹ, #fw, ɹt#, ɹf#, ɹf#, #kʰɹ, #kʰɹ, #kʰw, ɹk# (22)

First Syllable Consonant Cluster Stressed: #sk(5), #st(5), #fl(2), #pʰɹ, #sp, #stɹ, #spl, #skw, #gr, #kʰɹ, #kʰɹ, #kʰj (21)

First Syllable Consonant Cluster Unstressed: #sm, #kl, ks (3)

Second Syllable Consonant Cluster Stressed: pʰɹ, tʰɹ, nt#, sk#, kʰw, gl (6)

Second Syllable Consonant Cluster Unstressed: fl, nd#, nt#, ɹs#, sk, gɹ (6)

Third Syllable Consonant Cluster Stressed:

Third Syllable Consonant Cluster Unstressed: **st(2)**, bɹ, fɹ, ɹs# (5)

Fourth Syllable Consonant Cluster Stressed:

Fourth Syllable Consonant Cluster Unstressed:

Fifth Syllable Consonant Cluster Stressed:

Fifth Syllable Consonant Cluster Unstressed:

Consonant Cluster Total per Syllable

First Syllable Consonant Cluster: **#sk(5), #st(5), #fl(2)**, #p^hɪ, #sp, #sm, #stɪ, #spl, #skw, #gr, #k^hɪ, #kl, #k^hl, #k^hj, ks (24)Second Syllable Consonant Cluster: **nt#(2)**, p^hɪ, fl, t^hɪ, nd#, ɲs#, sk, sk#, k^hw, gl, gɪ (12)Third Syllable Consonant Cluster: **st(2)**, bɪ, fɪ, ns# (5)

Fourth Syllable Consonant Cluster:

Fifth Syllable Consonant Cluster:

Consonant Cluster Stressed and Unstressed Total

Consonant Cluster Stressed: #sk(5), #st(5), #fl(2), #p^hɪ, p^hɪ, t^hɪ, nt#, sk#, #sp, #stɪ, #spl, #skw, #gr, #k^hɪ, #k^hl, #k^hj, k^hw, gl (27)Consonant Cluster Unstressed: **st(2)**, bɪ, fl, fɪ, nd#, nt#, ɲs#, ns#, sk, #sm, #kl, ks, gɪ (14)

Consonant Cluster Total (absolute)

Narrow: **#st(7), #sk(6), nt#(4), #fl(2), nd#(2), st(2), ks#(2), #k^hɪ(2), #k^hl(2)**, #p^hɪ, p^hɪ, #bl, #bɪ, bɪ, fl, #fɪ, fɪ, t^hɪ, ɲs#, ns#, nz#, sk, sk#, #sp, #sm, #stɪ, #spl, #skw, #skɪ, #fɪmɪ, #fɪw, ɪt#, ɪf#, tf#, ks, #kl, #k^hj, #k^hw, k^hw, gl, gɪ, #gr, ɲk# (63)Broad: **sk(8), st(7), nt(4), fl(3), ks(3), kl(3), pɪ(2), bɪ(2), fɪ(2), nd(2), ns(2), st(2), kɪ(2), kw(2), gɪ(2)**, bl, tɪ, nz, sp, sm, stɪ, spl, skw, skɪ, fɪmɪ, fɪw, ɪt, ɪf, tf, kj, gl, ɲk (63)

63 total consonant clusters

Supra-Segments: Whole Syllables

Whole Syllable Total for Stressed and Unstressed Syllables and Monosyllables

Monosyllable Whole Syllable:

#skɪɪnt#, #k^hɪɪs#,#u^w#,#don#, #sto^w#, #ho#,

#jə#,

#eks#, #dɛv#, #dʒɛz#,

#fɪʌk#,

#blænt#, #bɪænz#, #mælf#, #skæd#, #k^hɪæɡ#, #klærk#,#ban#, #tʃa^ws#,#p^hand#, #staɪ#, #fɪwaks#, #fɪmɪak#, #ɪa#, #laɪf#, #k^haɪt#, #k^hwat# (27)**First Syllable Whole Syllable Stressed (all entries are word initial):****#fiⁱ(2), #aⁱ(2), #a(2)**,#iⁱ, #siⁱ, #wiⁱ,#k^hʌk,#u^w, #stu^w, #sku^w, #ju^w, #ju^wn, #k^hju^w, #grun,#p^hɪ, #skɪ, #splɪ,#eⁱ, #neⁱ, #steⁱ, #seⁱ, #geⁱ,#flo^w, #so^w, #sko^w,

#wə,

#ɛs, #t^hɛn, #skɛ, #k^hlɛp,

#ʌp,

#p^hɔ, #ɪɔn,#æ, #æɪn, #flæ, #næ, #næk, #stæt, #skæ, #stæb, #zæ, #ɪæn, #ɪæk, #k^hæm, #gɪæp,#aɪ, #p^hɪa, #dan, #naz, #sta, #span, #skwa, #stɪa, #zaɪ, #k^haɪ, #k^hɪa (60)

First Syllable Whole Syllable Unstressed (all entries are word initial):

#ɪ(2), #ə(2),

#ni^j,

#u^w, #fu^w, #dʒu^w, #gu^w, #xu^w, #hu^w,

#ɪn, #ɪm, #fɪks,

#kle^j,

#ko^w,

#bə, #tə, #sə, #kə,

#bə,

#ɛ,

#smɔ,

#pa, #ma, #wan (26)

Second Syllable Whole Syllable Stressed:

ma(2), maɪ(2),

sti^j,

t^hu^w#, dʒu^w#, ɹu^w#,

t^hɪsk#, k^hɪn,

fe^jzd#,

zo^w,

mʌn,

θɔ^j,

tʃæ, ɹæŋ, lænt#,

p^hɪa^j, t^ha^j#, ja^wf:#,

sa, k^han, k^has, k^hwa, gla (25)

Second Syllable Whole Syllable Unstressed:

s^əm#(3), tɪk#(2), rə(2),

vi^j#, ski^j#, wi^j#,

kʌ,

vu^wm#, ʃu^wt#, lu^w#,

fɪ, tɪp#, dʒɪnt#, nɪk#, lɪn#, kɪf#,

ʃʊɹ#, ʃʊt#,

fe^j#, le^jg#, le^j#, gle^j#,

po^w#, fo^w#, do#, no^wz#, ɹo^w, lo^w#,

p^hɪ#, pə#, p^hən, fləd̃#, fə, nət#, rəŋ#, sək#, sə, zəŋ, ɹə, ləŋs#, jə, kəŋ#, kə,

və, dəv#, dʒə#, nə#, θənd#, sə,

tɛz#,

fɔɹ#,

ta^j#,

taɪ^h#, ta#, tan#, dan#, kad̃# (61)

Third Syllable Whole Syllable Stressed:

ni^j (1)

Third Syllable Whole Syllable Unstressed:

no^w#(2),

li^j#, li^j,

ju^w#,

viŋ#, nɪs#, lɪn#,

te^j#, le^j, he^j,

bɹo^w#, sto^wn#, ɹo^w#,

b^hɪ#, məns#, fə#, fɹə, də#, stə, zə#, ɹəŋ#, ləs#, jə,

nəz#,

mɛɹɹ#, dɛɹɹ#,

la#, ka^j#,

t^hɑt#, haf# (31)

Fourth Syllable Whole Syllable Stressed:

Fourth Syllable Whole Syllable Unstressed:

ti¹#,

ʃɪs#,

ə#, əs#, gəs#, gəŋ# (6)

Fifth Syllable Whole Syllable Stressed:

Fifth Syllable Whole Syllable Unstressed:

Whole Syllable Total per Syllable

First Syllable Whole Syllable (all entries are word initial):

#fi¹(2), #u^w(2), #ɪ(2), #ə(2), #a¹(2), #a(2),

#i¹, #ni¹, #si¹, #wi¹,

#k^hʊk,

#fu^w, #dʒu^w, #stu^w, #sku^w, #ju^w, #ju^wn, #k^hju^w, #grun, #gu^w, #xu^w, #hu^w,

#ɪn, #ɪm, #p^hɪ, #fɪks, #skɪ, #splɪ,

#e¹, #ne¹, #ste¹, #se¹, #kle¹, #ge¹,

#flo^w, #so^w, #sko^w, #ko^w,

#bə, #tə, #sə, #kə,

#bə, #wə,

#ɛ, #ɛs, #t^hɛn, #skɛ, #k^hlɛp,

#ʌp,

#p^hɔ, #smɔ, #ɹɔn,

#æ, #æɪ, #flæ, #næ, #næk, #stæt, #skæ, #stæb, #zæ, #ɹæn, #ɹæk, #k^hæm, #gɹæp,

#aɪ, #pa, #p^hɪa, #ma, #dan, #naz, #sta, #span, #skwa, #stɪa, #zaɪ, #k^haɪ, #k^hɪa, #wan (86)

Second Syllable Whole Syllable:

s^əmɪ#(3), tɪk#(2), ma(2) maɪ(2),

vi¹#, ski¹#, sti¹, wi¹#,

kʌ,

vu^wm#, t^hu^w#, dʒu^w#, ʃu^wt#, ɹu^w#, lu^w#,

fɪ, tɪp#, t^hɪɪsk#, dʒɪnt#, nɪk#, lɪn#, kɪf#, k^hɪn,

ʃʊɹ#, ʃʊt#,

fe¹#, fe¹zd#, le¹g#, le¹#, gle¹#,

po^w#, fo^w#, do#, no^wz#, zo^w, ɹo^w, lo^w#,

pɹɪ#, pə#, p^hən, fləd^h#, fə, nət#, ɹəŋ#, rə(2), sək#, sə, zəŋ, ɹə, ləŋs#, jə, kəŋ#, kə,

və, dəv#, dʒə#, nə#, θənd#, sə,

tɛz#,

mʌn,

fɔɹ#, θɔɹ¹,

tʃæ, ɹæŋ, lænt#,

p^hɪa¹, ta¹#, t^ha¹#,

ta:^h#, ta#, tan#, dan#, ja^wfɪ#, sa, k^han, k^has, k^hwa, kad^h#, gla (86)

Third Syllable Whole Syllable:

no^w#(2),

ni¹, li¹#, li¹,

ju^w#,

viŋ#, nɪs#, lɪn#,

te¹#, le¹, he¹,

bɹo^w#, sto^wn#, ɹo^w#,

bɹɪ#, məns#, fə#, fɪə, də#, stə, ʒə#, ɹəŋ#, ləs#, jə,

nəz#,

mɛ¹ɹ#, dɛ¹t#,

la#, ka¹#,

t^haɪ#, haf# (32)

Fourth Syllable Whole Syllable:

tiʲ#,
ʃɪs#,
ə#, əs#, gəs#, gəŋ# (6)

Fifth Syllable Whole Syllable:

Whole Syllable Stressed and Unstressed Total

Whole Syllable Stressed:

#fiʲ(2), #aʲ(2), #a(2), ma(2) maɪ(2),

#iʲ, niʲ, #siʲ, stiʲ, #wiʲ,

#kʰʊk,

#uʷ, tʰuʷ#, dʒuʷ#, #stuʷ, #skuʷ, ɹuʷ#, #juʷ, #juʷn, #kʰjuʷ, #grun,

#pʰɪ, tʰɪsk#, #skɪ, #splɪ, kʰɪn,

#eʲ, feʲzd#, #neʲ, #steʲ, #seʲ, #geʲ,

#floʷ, #soʷ, #skoʷ, zoʷ,

#wə,

#ɛs, #tʰɛn, #skɛ, #kʰlɛp,

#ʌp, mʌn,

#pʰɔ, Өɔʲ, #ɹɔn,

#æ, #æɪ, #flæ, tʃæ, #næ, #næk, #stæt, #skæ, #stæb, #zæ, #ɹæn, ɹæŋ, #ɹæk, lænt#, #kʰæm, #gɹæp,

pʰɹaʲ, tʰaʲ#, jaʷfɪ#,

#aɪ, #pʰɹa, #dan, #naz, sa, #sta, #span, #skwa, #stɹa, #zaɪ, #kʰaɪ, #kʰɹa, kʰan, kʰas, kʰwa, gla (86)

Whole Syllable Unstressed:

səŋ#(3), #ɪ(2), tɪk#(2), lɪn#(2), noʷ#(2), #ə(2), rə(2), jə(2),

viʲ#, tiʲ#, #niʲ, skiʲ#, liʲ#, liʲ, wiʲ#,

kʊ,

#uʷ, #fuʷ, vuʷm#, #dʒuʷ, ʃuʷtʰ#, luʷ#, juʷ#, #guʷ, #xuʷ, #huʷ,

#ɪn, #ɪm, fɪ, #fɪks, vɪŋ#, tɪp#, dʒɪnt#, nɪk#, nɪs#, ʃɪs#, kɪf#,

ʃʊɹ#, ʃʊtʰ#,

feʲ#, teʲ#, leʲg#, leʲ#, leʲ, #kleʲ, gleʲ#, heʲ,

poʷ#, bɹoʷ#, foʷ#, doʷ, noʷz#, stoʷn#, ɹoʷ#, ɹoʷ, loʷ#, #koʷ,

ə#, əs#, pʰtʰ#, pə#, pʰən, bʰtʰ#, #bə, mənʰs#, flədʰ#, fə, fə#, fɹə, #tə, də#, nət#, rəŋ#, sək#, sə, #sə, stə, zəŋ, zə#, ɹə, ɹəŋ#, ləŋs#, ləs#, kəŋ#,

kə, #kə, gəs#, gəŋ#,

#bə, və, dəv#, dʒə#, nə#, nəz#, Өənd#, sə,

#ɛ, mɛɹɹ#, tɛz#, dɛɹtʰ#,

fɹɹ#, #smɔ,

taʲ#, la#, kaʲ#,

#pa, #ma, taʰ#, ta#, tan#, tʰatʰ#, dan#, kadʰ#, #wan, haf# (124)

Whole Syllable Total (absolute)

Narrow:

səŋ#(3), #fiʲ(2), #uʷ(2), #ɪ(2), tɪk#(2), lɪn#(2), noʷ#(2), #ə(2), rə(2), jə(2), #aʲ(2), #a(2), ma(2), maɪ(2),

#iʲ, viʲ#, tiʲ#, #niʲ, niʲ, #siʲ, stiʲ, skiʲ#, #skɹɪnt#, liʲ#, liʲ, #kʰɹɪs#, wiʲ#, #wiʲ,

kʊ, #kʰʊk,

#uʷ#, #fuʷ, vuʷm#, tʰuʷ#, #dʒuʷ, dʒuʷ#, #stuʷ, #skuʷ, ʃuʷtʰ#, ɹuʷ#, luʷ#, juʷ#, #juʷ, #juʷn, #kʰjuʷ, #guʷ, #grun, #xuʷ, #huʷ,

#ɪn, #ɪm, #pʰɪ, fɪ, #fɪks, vɪŋ#, tɪp#, tʰɪsk#, dʒɪnt#, nɪk#, nɪs#, #skɪ, #splɪ, ʃɪs#, kɪf#, kʰɪn,

ʃʊɹ#, ʃʊtʰ#,

#eʲ, feʲ#, feʲzd#, teʲ#, #neʲ, #steʲ, #seʲ, leʲg#, leʲ#, leʲ, #kleʲ, #geʲ, gleʲ#, heʲ,

poʷ#, bɹoʷ#, foʷ#, #floʷ, doʷ, #don#, noʷz#, stoʷn#, #stoʷ#, #soʷ, #skoʷ, zoʷ, ɹoʷ#, ɹoʷ, loʷ#, #koʷ, #hoʷ,

ə#, əs#, pʰtʰ#, pə#, pʰən, bʰtʰ#, #bə, mənʰs#, flədʰ#, fə, fə#, fɹə, #tə, də#, nət#, rəŋ#, sək#, sə, #sə, stə, zəŋ, zə#, ɹə, ɹəŋ#, ləŋs#, ləs#, kəŋ#,

kə, #kə, gəs#, gəŋ#,

#bə, və, dəv#, dʒə#, nə#, nəz#, Өənd#, sə, #wə, #jə#,

#ɛ, #ɛks#, #ɛs, mɛɹɹ#, tɛz#, #tʰɛn, dɛɹtʰ#, #dɛv#, #dʒɛz#, #skɛ, #kʰlɛp,

#ʌp, mʌn, #fɹʌk#,

#pʰɔ, fɹɹ#, Өɔʲ, #smɔ, #ɹɔn,

#æ, #æɪ, #blænt#, #bɹænz#, #mæɹf#, #flæ, tʃæ, #næ, #næk, #stæt, #skæ, #stæb, #skæd#, #zæ, #ɹæn, ɹæŋ, #ɹæk, lænt#, #kʰɹæg#,

#klæŋk#, #kʰæm, #gɹæp,

p^hjaⁱ, #ban#, taⁱ#, t^haⁱ#, #tʃa^ws#, la#, ja^wf: #, kaⁱ#,
 #aɪ, #pa, #p^hja, #p^hand#, #ma, ta^h#, ta#, tan#, t^ha^h#, #dan, dan#, #naz, sa, #sta, #span, #skwa, #stja, #staʔ#, #zaɪ, #fwaks#, #fmjak#,
 #ja#, #laɪf#, #k^haɪt#, #k^hwat#, #k^haɪ, #k^hja, k^han, k^has, k^hwa, kadʔ#, gla, #wan, haf# (238)

Broad:
**u(3), ə(3), s^əm(3), ma(3), fi(2), ni(2), li(2), wi(2), dʒu(2), ju(2), ɪ(2), tɪk(2), lɪn(2), le(2), no(2), ɹo(2), fə(2), rə(2), sə(2),
 jə(2), kə(2), a(2), ta(2),
 a(2), maɪ(2), ta(2), dan(2),**
 i, vi, ti, si, sti, ski, skɪnt, kɪs,
 kʌ, kʌk,
 fu, vum, tu, stu, sku, fuʔ, ɹu, lu, jun, kju, gu, grun, xu, hu,
 ɪn, ɪm, pɪ, fɪ, fɪks, vɪŋ, tɪp, tɪsk, dʒɪnt, nɪk, nɪs, skɪ, splɪ, fɪs, kɪf, kɪn,
 ʃʊɪ, ʃʊʔ,
 e, fe, fezd, te, ne, ste, se, leg, kle, ge, gle, he,
 po, bɹo, fo, flo, do, don, noz, ston, sto, so, sko, zo, lo, ko, ho,
 əs, pʰ, pə, pən, bʰ, bə, mənʃ, fləd, fɹə, tə, də, nət, rəŋ, sək, stə, zəŋ, zə, ɹə, ɹəŋ, ləŋs, ləs, kəŋ, gəs, gəŋ,
 bə, və, dəv, dʒə, nə, nəz, ʔənd, sə, wə, jə,
 ɛ, ɛks, ɛs, mɛɪ, tɛz, tɛn, dɛʔ, dɛv, dʒɛz, skɛ, klɛp,
 ʌp, mʌn, fɹʌk,
 pɔ, fɹɪ, ʔɔ, smɔ, ɹɔn,
 æ, æn, blænt, bɹænz, mæf, flæ, tʃæ, nə, næk, stæt, skæ, stæb, skæd, zæ, ɹæn, ɹæŋ, ɹæk, lænt, kɹæg, klæŋk, kæm, gɹæp,
 pɹa, ban, tʃas, la, jaf, ka,
 aɪ, pa, pɹa, pand, tan, taʔ, naz, sa, sta, span, skwa, stja, staʔ, zaɪ, fwaks, fmjak, ɹa, laɪf, kaɪt, kwat, kaɪ, kɹa, kan, kas, kwa, kad, gla,
 wan, haf (238)

238 total whole syllables

Supra-Segments: Whole Words

Whole Word Total per Word Length

Whole Monosyllables:

pahnd [p^hand], dev [dɛv], dohn [don], blant [blænt], stoh [sto^w], oo [u^w], rah [ɹa], malf [mæf], shmrahk [ʃmɹak], fruht [fɹʌk], skad [skæd], branz [brænz], lahrsh [laɪʃ], bahn [ban], yur [jʌ], kart [k^haɪt], chouse [tʃa^ws], kreeze [k^hɹiːz], krag [k^hɹæg], kwaht [k^hwat], ho [ho], schwahks [ʃwaks], jez [dʒɛz], klank [klæŋk], stall [staʔ], eks [ɛks], skreent [skɹiːnt]

Whole Bisyllables:

AHskee [a·skiⁱ], SKWAHkum [skwa·kəŋ], YOUfay [ju^w·feɪ], FEEtah [fiⁱ·taː^h], GROONdoh [grun·do], EHStah [ɛs·ta], KRAHnuhr [k^hɹa·nə], SKOOTip [sku^w·tɪp], NAKish [næ·kɪʃ], GAYden [geɪ·rəŋ], GRAPshur [gɹæp·ʃʊɪ], AHRvee [aɹ·viː], SPLIHnik [splɪ·nɪk], KLEPtik [k^hlɛp·tɪk], NAYvooom [neɪ·vu^wm], EYESum [aɪ·səŋ], FLOWtahh [flo^w·tan], STAYtez [steɪ·teɪz], RANfluht [ɹæn·fləd], STRAHfo [stja·fo^w], STATsum [stæt·səŋ], OOWee [u^w·wiː], SKIHsuhk [skɪ·sək], RAKtik [ɹæk·tɪk], PIHjuhr [p^hi·dʒə], NAHZdahn [naz·dan], SKAthurnd [skæ·ʔənd], KOOKsum [k^hʊk·səŋ], SEElayg [siː·leɪg], ANdurve [æn·dəv], KAMlin [k^hæm·lɪn], KAHRtie [k^haɪ·taɪ], ZAHRglay [zaɪ·gleɪ], AYlay [eɪ·leɪ], PRAHjint [p^hɹa·dʒɪnt], WEElunce [wiː·ləŋs], EEnohz [iː·no^wz], STAhnut [sta·nət], SPAHNshool [span·ʃu^wʔ], RAHNkahd [ɹɔn·kad], SAYlow [seɪ·lo^w], DAHNfor [dan·fɹɪ], AHpul [a·pʰ], ZApoe [zæ·po^w], TENloo [t^hɛn·lu^w],

wahnJOO [wan·dʒu^w], ehTRISK [ɛ·t^hɪsk], uhTYE [ə·t^haɪ], neeYOWF [niː·ja^wfɪ], smoROO [smɔ·ɹu^w], fooLANT [fu^w·lænt], koeTOO [ko^w·t^hu^w], buhFAYZD [bə·feɪzd] SKOWpuh [sko^w·pə]

Whole Trisyllables:

NAKsuhmunce [næk·sə·məns], Asuhrtahl [æ·sə·t^haʔ], YOUNyuhlus [ju^wn·jə·ləs], UPshoolee [ʌp·ʃʊʔ·liː], SKEHtuhkai [skɛ·rə·kaɪ], WURrowbro [wə·ɹo^w·bɹo^w], PORuhtay [p^hɔ·ɹə·teɪ], FLAkuhbul [flæ·kə·bʰ], STABvurnis [stæb·və·nɪs], STOOfunurz [stu^w·fə·nəz], EYEzunhahf [aɪ·zəŋ·haf], FEEkoolah [fiː·kʌ·la],

pahKAHsyou [pa·k^has·ju^w], kuhMAHRstone [kə·maɪ·sto^wn], imPRYveeng [ɪm·p^hɹaɪ·vɪŋ], hooMAHrow [hu^w·ma·ɹo^w], ooCHANoe [u^w·tʃæ·no^w], uhRANduh [ə·ɹæŋ·də], burMAHRLin [bə·maɪ·lɪn], klayMAHrun [kleɪ·ma·ɹəŋ], jooSTEEfuh [dʒu^w·stiː·fə], ihKINzhuh [ɪ·k^hɪn·zə], fiksTHOYdale [fɪks·ʔɔɪ·dɛʔ], ihGLAHnoe [ɪ·gla·no^w], suhKWAHmair [sə·k^hwa·mɛɪɹ]

Whole Tetrasyllables:

SOpunhaygun ['soʷ · pʰən · he˩ · gən], KYOUtuhlayus ['kʰjuʷ · rə · le˩ · əs],

tuhKHANyuhlee [tə · 'kʰən · jə · li˩], hooMUHNstuhtee [xuʷ · 'mən · stə · ti˩], gooSAHfruhgus [guʷ · 'sa · fə · gəs], mahZOEleeuh [ma · 'zoʷ · li˩ · ə],

infihNEEshis [ɪn · fɪ · 'ni˩ · ʃɪs]

Whole Pentasyllables:

	Syllable Receiving Stress					
	None	First	Second	Third	Fourth	Fifth
Word Length Total						
Monosyllabic: 27						
Bisyllabic: 54	0	45	9			
Trisyllabic: 25	0	12	13	0		
Tetrasyllabic: 7	0	2	4	1	0	
Pentasyllabic: 0	0	0	0	0	0	0
Total: 113	0	59	26	1	0	0



Question ID: g.

Segments

Segment Total for Stressed and Unstressed Syllables and Monosyllables according to Syllable Configuration

Monosyllable Onset: **#s(4), ʃ(4), #f(3), #d(3), #m(2), t(2), #f(2), w(2), #v, #t^h, #tʃ, #n, #ɹ, l, #k^h, k** (30)

Monosyllable Nucleus: **a(5), e^j(2), ə(2), ε(2), ɔ(2), i^j, u^w, ɪ, e#, o, ʌ, #ɔ, æ, a#** (22)

Monosyllable Coda: **t#(6), k#(5), s(4), ʃ(3), t(2), t#(2), g#(2), ŋ(2), p#, p, m#, n, n#, θ#, h#** (33)

First Syllable Segment Stressed Onset: ʃ(13), #k^h(8), #ʃ(7), #s(6), #d(5), #g(4), #w(4), #h(4), p(3), #f(3), #b(2), #t^h(2), t(2), #p^h, b, #m, #f, #v, r, #z, l, #k, k (73)

First Syllable Segment Stressed Nucleus: a(18), ɪ(10), ʌ(4), u^w(3), ε(3), æ(3), #a^j(3), i^j(2), o^w(2), a^j(2), u, #ɪ, e^j, ə, #ɔ, #æ, a, #a (58)

First Syllable Segment Stressed Coda: n(5), s(5), ʃ(5), m(3), ŋ(3), b, v, r, θ, z, t, g (28)

First Syllable Segment Unstressed Onset: **#m(5), #ʃ(5), #s(4), ʃ(4), #k(3), #f(2), t(2), #d(2), #g(2), p, #p^h, #dʒ, #r, #k^h, #h** (35)

First Syllable Segment Unstressed Nucleus: **ə(14), ɪ(3), i^j(2), u^w(2), e^j(2), #ə(2), a(2), #u^w, #ɪ, ə, ɔ, a, a^j, #a** (34)

First Syllable Segment Unstressed Coda: **ʃ(2), b, m, t, k, ŋ** (7)

Second Syllable Segment Stressed Onset: ʃ(5), l(5), b(4), n(4), t^h(3), d(3), v(2), k^h(2), t, s, ʃ, j, h (33)

Second Syllable Segment Stressed Nucleus: a(7), a^j(6), u^w(3), o^w(3), ɪ(2), ε(2), æ(2), i^j, e^j, ɔ (28)

Second Syllable Segment Stressed Coda: n(3), d#(2), b#, f, t#, n#, s#, z#, l#, k, k# (14)

Second Syllable Segment Unstressed Onset: **t(9), ʃ(9), n(6), s(6), l(6), d(5), m(4), k(4), p(3), b(3), r(3), g(3), f(2), v(2), j(2), p^h, dʒ, z, ʃ** (71)

Second Syllable Segment Unstressed Nucleus: **ə(13), ɪ(8), i^j#(6), ɹ#(5), a(5), o^w#(3), ɹ(2), ə(2), ə(2), ə(2), ə(2), ə(2), a^j(2), i^j, u^w, ɪ, e#, o^w, ə#, ε, æ, a^j#, a^w#** (64)

Second Syllable Segment Unstressed Coda: **d#(3), s#(3), n(2), n#(2), t#(2), p#, t#, t^h#, dʒ#, s, ʃ#, ʃ#, ŋ#** (20)

Third Syllable Segment Stressed Onset: f, t^h, ʃ, l, k^h (5)

Third Syllable Segment Stressed Nucleus: i^j, æ, a (3)

Third Syllable Segment Stressed Coda: k (1)

Third Syllable Segment Unstressed Onset: **t(5), ʃ(5), k(5), d(4), z(4), s(3), v(2), n(2), r(2), l(2), m, f, dʒ, ʃ, j** (39)

Third Syllable Segment Unstressed Nucleus: **ə(7), ɪ(6), ɹ#(4), u^w(3), e^j(3), i^j#(2), ə#(2), ə#(2), æ(2), i^j, i#, e^j#, ə(2), ə(2), a^j, a** (38)

Third Syllable Segment Unstressed Coda: **k#(4), s#(3), t#(2), s(2), t#(2), p#, n#, ʃ#, g^h#, ŋ#** (18)

Fourth Syllable Segment Stressed Onset:

Fourth Syllable Segment Stressed Nucleus:

Fourth Syllable Segment Stressed Coda:

Fourth Syllable Segment Unstressed Onset: **k(2), m, v, r, s, l** (7)

Fourth Syllable Segment Unstressed Nucleus: **ə(2), ə#(2), ɹ#(2), i^j#, u^w#, o^w#, ə#** (10)

Fourth Syllable Segment Unstressed Coda: **d#** (1)

Fifth Syllable Segment Stressed Onset:

Fifth Syllable Segment Stressed Nucleus:

Fifth Syllable Segment Stressed Coda:

Fifth Syllable Segment Unstressed Onset:

Fifth Syllable Segment Unstressed Nucleus:

Fifth Syllable Segment Unstressed Coda:

Segment Total for Stressed and Unstressed Onsets and Codas

Stressed Onset: ɟ(19), #k^h(8), #ɟ(7), l(7), #s(6), b(5), #d(5), t^h(4), n(4), #g(4), #w(4), #h(4), p(3), t(3), d(3), #f(3), k^h(3), #b(2), v(2), #t^h(2), #p^h, #m, #f, f, #v, r, s, #z, ʃ, j, #k, k, h (111)

Stressed Coda: n(8), s(5), ɟ(5), m(3), ŋ(3), d#(2), k(2), b, b#, f, v, t#, r, θ, s#, z, z#, l#, t, k#, g (42)

Unstressed Onset: ɟ(18), t(16), k(11), s(10), d(9), l(9), n(8), m(6), r(6), #m(5), v(5), z(5), #ɟ(5), p(4), #s(4), b(3), f(3), j(3), #k(3), g(3), #f(2), #d(2), dʒ(2), ʃ(2), #g(2), #p^h, p^h, #dʒ, #r, #k^h, #h (152)

Unstressed Coda: s#(6), d#(4), t#(4), k#(4), t#(3), n#(3), s(3), p#(2), n(2), ɟ(2), ɟ#(2), b, m, t^h#, dʒ#, f#, t, k, g^h#, ŋ (46)

Segment Total for Onsets and Codas

Onset: ɟ(41), t(21), l(17), #s(14), #ɟ(13), k(13), d(12), n(12), s(11), #d(10), #k^h(10), b(8), #m(8), p(7), v(7), m(6), #f(6), r(6), #g(6), z(5), #f(5), #h(5), f(4), t^h(4), j(4), #k(4), #w(4), #t^h(3), ʃ(3), k^h(3), g(3), #p^h(2), #b(2), #v(2), dʒ(2), w(2), p^h, #tʃ, #dʒ, #n, #r, r, #z, h (293)

Coda: s(12), n(11), t#(10), ɟ(10), k#(10), s#(7), d#(6), t#(6), ŋ(6), m(4), n#(4), t(4), p#(3), k(3), b(2), ɟ#(2), g#(2), ŋ#(2), p, b#, m#, f, v, t^h#, dʒ#, r, θ, θ#, z, z#, ʃ#, l#, g, g^h#, h# (121)

Segment Total for Stressed and Unstressed Syllables and Monosyllables

Monosyllable Segment: ɟ(7), t#(6), k#(5), #s(4), s(4), #f(3), #d(3), #m(2), t(2), #f(2), t(2), t#(2), g#(2), ŋ(2), w(2), p#, p, m#, #v, #t^h, #tʃ, #n, n, n#, θ#, #ɟ, l, #k^h, k, h# (63)

ɑ(5), e^j(2), ʌ(2), ε(2), ɔ(2), i^j, u^w, ɪ, e#, o, ʌ, #ɔ, æ, a# (22)

First Syllable Segment Stressed: ɟ(18), #k^h(8), #ɟ(7), #s(6), #d(5), n(5), s(5), #g(4), #w(4), #h(4), p(3), m(3), #f(3), ŋ(3), #b(2), b(2), #t^h(2), t(2), r(2), #p^h, #m, #f, #v, v, θ, #z, z, l, t, #k, k, g (101)

ɑ(18), ɪ(10), ʌ(4), u^w(3), ε(3), æ(3), #ɑ^j(3), i^j(2), o^w(2), a^j(2), u, #ɪ, e^j, ʌ, #ɔ, #æ, a, #ɑ (58)

First Syllable Segment Unstressed: ɟ(6), #m(5), #ɟ(5), #s(4), #k(3), #f(2), t(2), #d(2), #g(2), p, #p^h, b, m, #dʒ, #r, t, #k^h, k, ŋ, #h (42)

ə(14), ɪ(3), i^j(2), u^w(2), e^j(2), #ə(2), a(2), #u^w, #ɪ, ʌ, ɔ, a, a^j, #ɑ (34)

Second Syllable Segment Stressed: n(7), ɟ(5), l(5), b(4), t^h(3), d(3), v(2), d#(2), k^h(2), b#, f, t, t#, n#, s, s#, z#, ʃ, l#, j, k, k#, h (14)

ɑ(7), a^j(6), u^w(3), o^w(3), ɪ(2), ε(2), æ(2), i^j, e^j, ɔ (28)

Second Syllable Segment Unstressed: t(9), ɟ(9), n(8), s(7), l(6), d(5), ʌ#(5), m(4), k(4), p(3), b(3), d#(3), r(3), s#(3), g(3), ʌ#(2), f(2), v(2), n#(2), ʌ#(2), ʌ#(2), t#(2), ʌ#(2), j(2), p^h, p#, t#, t^h#, dʒ, dʒ#, z, ʃ, ʃ#, ɟ#, ŋ# (104)

ə(13), ɪ(8), i^j#(6), a(5), o^w#(3), ʌ(2), ʌ#(2), a^j(2), i^j, u^w, ʊ, e#, o^w, ə#, ε, æ, a^j#, a^w# (51)

Third Syllable Segment Stressed: f, t^h, ɟ, l, k^h, k (6)

i^j, æ, a (3)

Third Syllable Segment Unstressed: t(5), s(5), ɟ(5), k(5), d(4), z(4), ʌ#(4), k#(4), s#(3), v(2), t#(2), n(2), r(2), l(2), t#(2), p#, m, ʌ#(2), f, dʒ, n#, ʌ#(2), ʃ, ɟ#, j, g^h#, ŋ# (99)

ə(7), ɪ(6), u^w(3), e^j(3), i^j#(2), ə#(2), ʌ#(2), æ(2), i^j, i#, e^j#, a^j, a (32)

Fourth Syllable Segment Stressed:

Fourth Syllable Segment Unstressed: ʌ#(2), k(2), m, v, d#, r, s, l (10)

ə(2), ə#(2), i^j#, u^w#, o^w#, ʌ# (8)

Fifth Syllable Segment Stressed:

Fifth Syllable Segment Unstressed:

Segment Total by Syllable

First Syllable Segment: **ɹ(24), #ɹ(12), #s(10), #k^h(9), #d(7), #m(6), #g(6), n(5), s(5), #h(5), p(4), m(4), t(4), #k(4), ŋ(4), #w(4), b(3), #f(3), #ʃ(3), #p^h(2), #b(2), #t^h(2), r(2), ɭ(2), k(2), #v, v, #dʒ, #r, ʊ, #z, z, l, g** (143)

ɑ(20), ə(14), ɪ(13), u^w(5), i^j(4), ʌ(4), e^j(3), ɛ(3), æ(3), #a^j(3), a^j(3), #ɪ(2), o^w(2), #ə(2), ʌ(2), a(2), #a(2), #u^w, u, #ɔ, ɔ, #æ (92)

Second Syllable Segment: **n(15), ɹ(14), l(11), t(10), d(8), s(8), b(7), ɳ(5), k(5), m(4), v(4), s#(4), p(3), f(3), t^h(3), d#(3), r(3), j(3), g(3), ʌ#(2), t#(2), d#(2), n#(2), ʌ#(2), ʌ#(2), ʃ(2), t#(2), ɳ(2), k^h(2), p^h, p#, b#, t^h#, dʒ, dʒ#, z, z#, ʃ#, ɹ#, l#, k#, ŋ#, h** (118)

ə(13), a(12), ɪ(10), a^j(8), i^j#(6), u^w(4), o^w(4), o^w#(3), ɛ(3), æ(3), i^j(2), ʌ(2), ʌ#(2), ʌ, e#, e^j, ə#, ɔ, a^j#, a^w# (79)

Third syllable Segment: **ɹ(6), k(6), t(5), s(5), d(4), z(4), ɳ(4), k#(4), s#(3), l(3), f(2), v(2), t#(2), n(2), r(2), t#(2), p#, m, ʌ#(2), t^h, dʒ, n#, ʌ#(2), ʃ, ɹ#, j, k^h, g^h#, ŋ#** (105)

ə(7), ɪ(6), u^w(3), e^j(3), æ(3), i^j(2), i^j#(2), ə#(2), ʌ#(2), a(2), i#, e^j#, a^j (35)

Fourth Syllable Segment: **ɳ(2), k(2), m, v, d#, r, s, l** (10)

ə(2), ə#(2), i^j#, u^w#, o^w#, ʌ# (8)

Fifth Syllable Segment:

Segment Stressed and Unstressed Total

Stressed Segment: **ɹ(24), n(12), #k^h(8), #ɹ(7), l(7), b(6), #s(6), s(6), #d(5), t^h(4), #g(4), #w(4), #h(4), p(3), m(3), v(3), d(3), #ʃ(3), k^h(3), k(3), ŋ(3), #b(2), f(2), #t^h(2), d#(2), r(2), #p^h, b#, #m, #f, #v, t#, n#, ʊ, s#, #z, z, z#, ʃ, l#, t, j, #k, k#, g, h** (121)

ɑ(26), ɪ(12), a^j(8), u^w(6), æ(6), o^w(5), ɛ(5), i^j(4), ʌ(4), #a^j(3), e^j(2), u, #ɪ, ʌ, #ɔ, ɔ, #æ, a, #a (89)

Unstressed Segment: **ɹ(20), t(16), s(13), k(12), ɳ(11), n(10), d(9), l(9), m(7), r(6), s#(6), #m(5), v(5), z(5), #ɹ(5), p(4), b(4), d#(4), #s(4), t#(4), k#(4), ʌ#(3), ʌ#(3), f(3), t#(3), n#(3), ʌ#(3), j(3), #k(3), g(3), p#(2), #f(2), #d(2), dʒ(2), ʌ#(2), ʃ(2), ɹ#(2), ɳ(2), #g(2), ŋ#(2), #p^h, p^h, t^h#, #dʒ, dʒ#, #r, ʃ#, t, #k^h, g^h#, ŋ, #h** (255)

ə(36), ɪ(17), i^j#(9), a(8), u^w(6), e^j(5), ə#(5), ʌ#(5), i^j(4), o^w(4), a^j(4), ʌ(3), æ(3), #ə(2), i#, #u^w, u^w#, #ɪ, ʌ, e^j#, e#, o^w, ɛ, ɔ, a, a^j#, a^w#, #a (125)

Segment Total (absolute)

Narrow: **ɹ(51), n(23), s(23), t(21), l(17), k(16), #s(14), #ɹ(13), d(12), ɳ(11), b(10), m(10), t#(10), #d(10), #k^h(10), k#(10), p(8), #m(8), v(8), s#(7), #f(6), d#(6), r(6), z(6), t#(6), #g(6), ŋ(6), f(5), n#(5), #ʃ(5), #h(5), t^h(4), ɭ(4), j(4), #k(4), g(4), #w(4), p#(3), ʌ#(3), #t^h(3), ʌ#(3), ʃ(3), k^h(3), #p^h(2), #b(2), #v(2), dʒ(2), ʌ#(2), r(2), ɹ#(2), ɳ(2), g#(2), ŋ#(2), w(2), p^h, b#, m#, t^h#, #tʃ, #dʒ, dʒ#, #n, #r, ʊ, ʊ#, #z, z#, ʃ#, l#, g^h#, h, h#** (439)

ɑ(39), ə(36), ɪ(30), u^w(13), a^j(12), æ(10), i^j(9), i^j#(9), e^j(9), ɛ(8), o^w(6), ə#(5), ʌ#(5), ʌ(5), o^w#(4), ɔ(4), #a^j(3), #ɪ(2), e#(2), #ə(2), #ɔ(2), a(2), #a(2), i#, #u^w, u, u^w#, ʌ, e^j#, o, ʌ(6), #æ, a^j#, a^w#, a# (236)

Broad: **ɹ(66), s(44), k(44), t(39), n(34), d(28), ɭ(23), m(22), l(18), p(14), b(13), g(13), f(11), v(10), ʃ(9), z(8), ŋ(8), h(7), r(6), w(6), dʒ(4), j(4), r(3), ʊ(2), tʃ** (439)

ə(43), a(41), ɪ(32), a(20), i(19), u(16), e(12), o(11), ʌ(11), æ(11), ɛ(8), ɔ(6), ʌ(5), ʌ (236)

675 total segments

Supra-Segments: Consonant Clusters

Consonant Cluster Total for Stressed and Unstressed Syllables and Monosyllables according to Syllable Configuration

Monosyllable Consonant Cluster Onset (all entries are word initial): **#st(2), #k^hɿ(2), #fl, #dɿ, #sw, #skw, #fɿ** (9)

Monosyllable Consonant Cluster Coda (all entries are word final): **st#(2), ɿst#(2), ŋk#(2), nt#, ɿk#, ɿpθ#, ɿm#** (10)

First Syllable Consonant Cluster Stressed Onset (all entries are word initial): #k^hɿ(5), #spɿ(2), #gɿ(2) #p^hɿ, #bl, #vr, #t^hw, #dɿ, #sp, #st, #stɿ, #skɿ, #fb (19)

First Syllable Consonant Cluster Stressed Coda:

First Syllable Consonant Cluster Unstressed Onset (all entries are word initial): **#st(2), #dɿ, #sp, #k^hj** (5)

First Syllable Consonant Cluster Unstressed Coda:

Second Syllable Consonant Cluster Stressed Onset: st(2), pɿ, bj, bl, k^hɿ, k^hl (7)

Second Syllable Consonant Cluster Stressed Coda: nz#, nd# (2)

Second Syllable Consonant Cluster Unstressed Onset: **bj, fɿ, tɿ, dɿ, st** (5)

Second Syllable Consonant Cluster Unstressed Coda: **nd#, st#** (2)

Third Syllable Consonant Cluster Stressed Onset: fl, t^hɿ, kɿ (3)

Third Syllable Consonant Cluster Stressed Coda:

Third Syllable Consonant Cluster Unstressed Onset: **st** (1)

Third Syllable Consonant Cluster Unstressed Coda: **st#(2)** (2)

Fourth Syllable Consonant Cluster Stressed Onset:

Fourth Syllable Consonant Cluster Stressed Coda:

Fourth Syllable Consonant Cluster Unstressed Onset:

Fourth Syllable Consonant Cluster Unstressed Coda:

Fifth Syllable Consonant Cluster Stressed Onset:

Fifth Syllable Consonant Cluster Stressed Coda:

Fifth Syllable Consonant Cluster Unstressed Onset:

Fifth Syllable Consonant Cluster Unstressed Coda:

Consonant Cluster Total for Stressed and Unstressed Onsets and Codas

Stressed Onset: #k^hɿ(5), #spɿ(2), st(2), #gɿ(2), #p^hɿ, pɿ, bj, bl, #bl, fl, #vr, #t^hw, t^hɿ, #dɿ, #sp, #st, #stɿ, #skɿ, #fb, k^hɿ, kɿ, k^hl (29)

Stressed Coda: nz#, nd# (2)

Unstressed Onset: **#st(2), st(2), bj, fɿ, tɿ, dɿ, #dɿ, #sp, #k^hj** (11)

Unstressed Coda: **st#(3), nd#** (4)

Consonant Cluster Total for Onsets and Codas

Onset: **#k^hɿ(7), #st(5), st(4), #dɿ(3), bj(2), #sp(2), #spɿ(2), #gɿ(2), #p^hɿ, pɿ, bl, #bl, #fl, fl, fɿ, #vr, #t^hw, t^hɿ, tɿ, dɿ, #stɿ, #skɿ, #sw, #skw, #fb, #fɿ, k^hɿ, kɿ, k^hl, #k^hj** (49)

Coda: **st#(5), nd#(2), ɿst#(2), ŋk#(2), nt#, nz#, ɿk#, ɿpθ#, ɿm#** (16)

Consonant Cluster Total for Stressed and Unstressed Syllables and Monosyllables

Monosyllable Consonant Cluster: **#st(2), st#(2), ɿst#(2), #k^hɿ(2), ŋk#(2), #fl, #dɿ, nt#, #sw, #skw, #fɿ, ɿk#, ɿpθ#, ɿm#** (19)

First Syllable Consonant Cluster Stressed: #k^hɿ(5), #spɿ(2), #gɿ(2), #p^hɿ, #bl, #vr, #t^hw, #dɿ, #sp, #st, #stɿ, #skɿ, #fb (19)

First Syllable Consonant Cluster Unstressed: **#st(2), #dɿ, #sp, #k^hj** (5)

Second Syllable Consonant Cluster Stressed: st(2), pɿ, bj, bl, nz#, nd#, k^hɿ, k^hl (9)

Second Syllable Consonant Cluster Unstressed: **bj, fɿ, tɿ, dɿ, nd#, st, st#** (7)

Third Syllable Consonant Cluster Stressed: fl, t^hɿ, kɿ (3)

Third Syllable Consonant Cluster Unstressed: **st#(2), st** (3)

Fourth Syllable Consonant Cluster Stressed:

Fourth Syllable Consonant Cluster Unstressed:

Fifth Syllable Consonant Cluster Stressed:

Fifth Syllable Consonant Cluster Unstressed:

Consonant Cluster Total per Syllable

First Syllable Consonant Cluster: **#k^hɹ(5), #st(3), #dɹ(2), #sp(2), #spɹ(2), #gɹ(2), #p^hɹ, #bl, #vr, #t^hw, #stɹ, #skɹ, #fb, #k^hj** (24)

Second Syllable Consonant Cluster: **st(3), bj(2), nd#(2), pɹ, bl, fɹ, tɹ, dɹ, nz#, st#, k^hɹ, k^hl** (16)

Third Syllable Consonant Cluster: **st#(2), fl, t^hɹ, st, kɹ** (6)

Fourth Syllable Consonant Cluster:

Fifth Syllable Consonant Cluster:

Consonant Cluster Stressed and Unstressed Total

Consonant Cluster Stressed: #k^hɹ(5), #spɹ(2), st(2), #gɹ(2), #p^hɹ, pɹ, #bl, bl, bj, fl, #vr, #t^hw, t^hɹ, #dɹ, nz#, nd#, #sp, #st, #stɹ, #skɹ, #fb, k^hɹ, kɹ, k^hl (31)

Consonant Cluster Unstressed: **st#(3), #st(2), st(2), bj, fɹ, tɹ, #dɹ, dɹ, nd#, #sp, #k^hj** (15)

Consonant Cluster Total (absolute)

Narrow: **#k^hɹ(7), #st(5), st#(5), st(4), #dɹ(3), bj(2), nd#(2), #sp(2), #spɹ(2), ɹst#(2), #gɹ(2), ŋk#(2), #p^hɹ, pɹ, #bl, bl, #fl, fl, fɹ, #vr, #t^hw, t^hɹ, tɹ, dɹ, nz#, nt#, #stɹ, #skɹ, #skw, #sw, #fb, #fɹ, ɹk#, ɹpθ#, ɹm#, k^hɹ, kɹ, k^hl, #k^hj** (65)

Broad: **st(14), kɹ(9), dɹ(4), pɹ(2), bl(2), bj(2), fl(2), tɹ(2), nd(2), sp(2), spɹ(2), ɹst(2), gɹ(2), ŋk(2), fɹ, vr, tw, nz, nt, stɹ, skɹ, skw, sw, fb, fɹ, ɹk, ɹpθ, ɹm, kl, kj** (65)

65 total consonant clusters

Supra-Segments: Whole Syllables

Whole Syllable Total for Stressed and Unstressed Syllables and Monosyllables

Monosyllable Whole Syllable:

#fɹɹst#(2),
#t^hiɹn#,
#k^hɹu^wg#,
#nɪk#,
#meɪŋk#, #ve#, #tfeɪt#,
#ɹoɹm#,
#dæk#, #fæst#,
#skwɛɹ#, #fɹɛg#,
#swɹst#,
#ɹɹpθ#,
#dænt#,
#fla#,
#maɪk#, #dɹap#, #staɹ#, #stah#, #k^hɹaŋk# (22)

First Syllable Whole Syllable Stressed (all entries are word initial):

#ɹa(4), #aɹ(3), #k^hɹɹs(2),
#stiɹ, #k^hɹiɹ, #hiɹm,
#vrɹn, #k^hu^wn, #wu^w, #hu^w,
#ɹ, #t^hwɹn, #t^hɹɹ, #dɹɹ, #spɹ, #fɹ, #k^hɹɹ, #wɹn, #hɹ,
#spɹɛɹ,
#ɹo^w, #ho^w,
#fæ,
#dɛ, #dɛv, #zɛ,
#dɹɹɹ, #dɹs, #ɹɹs, #wɹɹɹ,
#ɹɹ,
#æ, #spɹæs, #ɹæn, #k^hɹæ,
#faɹ, #skɹaɹ, #kar,

#ag, #p^haɪ, #baθ, #blaz, #maɪ, #stɪa, #fbaɪ, #ɪam, #k^ha, #k^ham, #gɪab, #gɪa, #gaɪ, #ga (58)

First Syllable Whole Syllable Unstressed (all entries are word initial):

#ɪə(3), #ɪe^l(2), #ə(2), #stə(2), #kə(2),

#mi^j, #fi^j,

#u^w, #p^hɪu^w, #ɪu^wm,

#ɪ, #fiŋ, #dɪɪb, #spɪ,

#mə, #mət, #də, #dʒə, #sə, #k^hɪə, #gə,

#mə,

#kɔɪ,

#ra, #ha^j,

#ak, #ma, #gaɪ (34)

Second Syllable Whole Syllable Stressed:

ɪa(2),

ʃi^j,

bju^wn#, ɪu^wd#,

dɪb#, nɪ,

ste^j,

blo^w, t^ho^w, ɔ^w,

t^hek, nes#,

bɔ,

dæ, jæn, k^hæk#,

ba^t#, va^jnz#, va^jnd#, da^j, na^j, la^j, hal#,

t^ha, dan, na, ɪan, laf, k^hla (30)

Second Syllable Whole Syllable Unstressed:

nə(2), rə^t#(2), sə(2), ɪə(2),

pi^j#, pɪi^j#, bi^j#, si^j, sti^j#, zi^j#, ki^j#,

bju^w, lu^w#,

mis#, fɪɪn#, vis#, nɪ, nɪf#, nis, lɪn#, lɪŋ#,

ɪʊp#,

te#,

to^w#, sto^w, lo^w#, go^w#,

bə^t, mə#, məs#, və^t, tɪə, tə, dəmə#, dɪə, də^t#, dəmə#, rəŋ#, stəŋ#, ʃənd#, lən, lə, ɹə^t#, kət^h#, kə^t#, gəst#,

tə^h#, dʒə^hd#, nə, gə^h#,

pɛd#,

p^ha^w#, fa^j#, ɪa^j#, ka^j,

maɪ#, tət#, lɑdʒ# (62)

Third Syllable Whole Syllable Stressed:

t^hɪi^j,

k^hæ,

flak (3)

Third Syllable Whole Syllable Unstressed:

kə^t#(3), ləs#(2),

di#, ri^j#, zi^j, zi^j#,

nu^w, ɪu^wp#, ju^w#,

mɪk#, vɪŋ#, tɪg^h#, dʒɪst#, rɪk#, ɪt#,

ve^t#, te^j#, ɹe^j, ke^j,

tə, də#, nəŋ#, sə, stə, səmə#, zə^t#, zə#, ʃəs#, ɹəst#,

ə^h#, fə^h#,

dæk#, kɪæk#,

da^jn#,

taɪ# (38)

Fourth Syllable Whole Syllable Stressed:

Fourth Syllable Whole Syllable Unstressed:

siⁱ#,
ku^w#,
o^w#,
ə#, mə#, rəd#, lə#, ʔ#, kʔ#,
və# (10)

Fifth Syllable Whole Syllable Stressed:

Fifth Syllable Whole Syllable Unstressed:

Whole Syllable Total per Syllable

First Syllable Whole Syllable (all entries are word initial):

#ɪɑ(4), #ɪə(3), #aⁱ(3), #ɪ(2), #spɪ(2), #k^hɪs(2), #jeⁱ(2), #ə(2), #stə(2), #kə(2), #gaɪ(2),
#miⁱ, #fiⁱ, #stiⁱ, #k^hɪiⁱ, #hiⁱm,
#u^w, #p^hɪu^w, #vrɪn, #ɪu^wm, #k^hu^wn, #wu^w, #hu^w,
#fɪŋ, #t^hwɪn, #t^hɪt, #dɪŋ, #dɪɪb, #fɪ, #k^hɪɪ, #wɪn, #hɪ,
#spɪeⁱ,
#ɪo^w, #ho^w,
#mə, #mət, #də, #dʒə, #sə, #k^hɪə, #gə,
#mə, #fə,
#dɛ, #dɛv, #zɛ,
#dɪʌŋ, #dʌs, #ɪʌs, #wʌŋ,
#ɔɪ, #kɔɪ,
#æ, #spɪæs, #ɪæn, #k^hɪæ,
#faⁱ, #ra, #skɪaⁱ, #kar, #haⁱ,
#ag, #ak, #ma, #p^hɑɪ, #baθ, #blaz, #maɪ, #stɪɑ, #fbaɪ, #ɪam, #k^ha, #k^ham, #ɡɪab, #ɡɪɑ, #ga (92)

Second Syllable Whole Syllable:

nɪ(2), nə(2), rʔ(2), sə(2), ɪə(2), ɪɑ(2),
piⁱ#, pɪiⁱ#, biⁱ#, siⁱ, stiⁱ#, ziⁱ#, ʃiⁱ, kiⁱ#,
bju^w, bju^wn#, ɪu^wd#, lu^w#,
mɪs#, fɪɪn#, vɪs#, dɪb#, nɪf#, nɪs, lɪn#, lɪŋ#,
ɪʊp#,
te#, steⁱ,
to^w#, sto^w, blo^w, t^ho^w, ɪo^w, lo^w#, go^w#,
bʔ, mə#, məs#, vʔ, tʊə, tə, dʌm#, dɪə, dʔ#, dʌm#, rʌŋ#, stʌŋ#, ʃʌnd#, lən, lə, ʔ#, kətʔ#, kʔ#, ɡəst#,
tə#, dʒəd#, nə, ɡə#,
pɛd#, t^hɛk, nɛs#,
bɔ,
dæ, jæn, k^hɪæk#,
p^ha^w#, baɪt#, faɪt#, vaɪnz#, vaɪnd#, daⁱ, naⁱ, ɪaⁱ#, laⁱ, kaⁱ, hal#,
maɪ#, taɪt#, t^ha, dan, na, ɪan, laf, laɔʒ#, k^hɪɑ (92)

Third Syllable Whole Syllable:

kʔ(3), ləs(2),
t^hɪiⁱ, di#, riⁱ#, ziⁱ, ziⁱ#,
nu^w, ɪu^wp#, ju^w#,
mɪk#, vɪŋ#, tɪɡʷ#, dʒɪst#, rɪk#, ɪt#,
veɪt#, teɪ#, ɪeⁱ, keⁱ,
tə, də#, nʌŋ#, sə, stə, sʌm#, zʔ#, zə#, ʃəs#, ɹəst#,
ə#, fə#,
dæk#, k^hæ, kɪæk#,
daɪn#,
flak, taɪ# (41)

Fourth Syllable Whole Syllable:

siⁱ#,
ku^w#,

oʷ#,
ə#, mə#, rəd#, lə#, ʔ#, kʰʔ#,
və# (10)

Fifth Syllable Whole Syllable:

Whole Syllable Stressed and Unstressed Total

Whole Syllable Stressed:

#ɪɑ(4), #aʲ(3), #kʰɪs(2), ɪɑ(2),
tʰɪʲ, #stiʲ, ʃɪʲ, #kʰɪʲ, #hiʲm,
bjuʷn#, #vrɪn, ɪuʷd#, #kʰuʷn, #wuʷ, #huʷ,
#ɪ, #tʰwɪn, #tʰɪʲ, #dɪŋ, dɪb#, nɪ, #spɪ, #ʃɪ, #kʰɪ, #wɪn, #hɪ,
#spɪeʲ, steʲ,
bloʷ, tʰoʷ, ɪoʷ, #ɪoʷ, #hoʷ,
#ʃəʷ,
tʰɛk, #dɛ, #dɛv, nɛs#, #zɛ,
#dɪɪŋ, #dɪs, #ɪs, #wɪŋ,
#ɔɪ, bɔ,
#æ, dæ, #spɪæs, #ɪæn, jæn, kʰæ, #kʰɪæ, kʰɪæk#,
baʲt#, #faʲ, vaʲnz#, vaʲnd#, daʲ, naʲ, #skɪaʲ, laʲ, #kar, hal#,
#ag, #pʰaɪ, #baθ, #blaz, #maɪ, flak, tʰa, dan, na, #stɪa, #ʃbaɪ, #ɪam, ɪan, laf, kʰla #kʰa, #kʰam, #gɪab, #gɪa, #gaɪ, #ga (91)

Whole Syllable Unstressed:

kʰʔ(5), sə(3), #ɪə(3), zɪʲ(2), #ɪeʲ(2), #ə(2), mə#(2), tə(2), nə(2), rʰʔ(2) #stə(2), ɪə(2), ləs#(2), ʔʔ(2), #kə(2),
pɪʲ#, pɪʲʲ#, bɪʲ#, #mɪʲ, #fɪʲ, dɪʲ, sɪʲ, sɪʲʲ, stiʲ#, zɪʲ, kɪʲ#,
#uʷ, #pʰɪuʷ, bjuʷ, nuʷ, ɪuʷp#, #ɪuʷm, luʷ#, juʷ#, kuʷ#,
#ɪ, mɪs#, mɪk#, ʃɪn#, #fɪŋ, vɪs#, vɪŋ#, tɪgʷ#, #dɪɪb, dʒɪst#, nɪ, nɪʃ#, nɪs, rɪk#, #spɪ, ɪt#, lɪn#, lɪŋ#,
ɪʊp#,
veʲʲ#, te#, teʲʲ#, ɪeʲ, keʲ,
oʷ#, toʷ#, stoʷ, loʷ#, goʷ#,
ə#, bʔ, #mə, məs#, #mət, vʔ, tɪə, də#, dʰəŋ#, dɪə, dʰʔ, dʰəŋ#, #də, #dʒə, nʰəŋ#, rʰəŋ#, rəd#, #sə, stə, sʰəŋ#, stʰəŋ#, zʔʲ#, zə#, ʃʰənd#, ʃəs#,
ɪəst#, lən, lə, lə#, #kʰɪə, kətʷ#, gəst#, #gə,
ə#, #mə, fə#, və#, tə#, dʒəd#, nə, gə#,
pɛd#,
#kɔɪ,
dæk#, kɪæk#,
pʰaʷ#, faʲʲ#, daʲn#, #ra, ɪaʲ#, kaʲ, #haʲ,
#ak, #ma, maɪ#, taʲʲ#, taɪ#, ladʒ#, #gaɪ (144)

Whole Syllable Total (absolute)

Narrow:

kʰʔ(5), #ɪɑ(4), sə(3), #ɪə(3), #aʲ(3), zɪʲ(2), #ɪ(2), nɪ(2), #spɪ(2), #kʰɪs(2), #ɪeʲ(2), #ə(2), mə#(2), tə(2), nə(2), rʰʔ(2)
#stə(2), ɪə(2), ləs#(2),
ʔʔ(2), #kə(2), #fɔɪst#(2), ɪɑ(2), #gaɪ(2),
pɪʲ#, pɪʲʲ#, bɪʲ#, #mɪʲ, #fɪʲ, tʰɪʲ, #tʰɪʲn#, dɪʲ, rɪʲ#, sɪʲ, sɪʲʲ, #stiʲ, stiʲʲ#, zɪʲ, ʃɪʲ, kɪʲ#, #kʰɪʲ, #hiʲm,
#uʷ, #pʰɪuʷ, bjuʷ, bjuʷn#, #vrɪn, nuʷ, ɪuʷp#, #ɪuʷm, ɪuʷd#, luʷ#, juʷ#, kuʷ#, #kʰuʷn, #kʰɪuʷg#, #wuʷ, #huʷ,
mɪs#, mɪk#, ʃɪn#, #fɪŋ, vɪs#, vɪŋ#, tɪgʷ#, #tʰwɪn, #tʰɪʲ, #dɪŋ, dɪb#, #dɪɪb, dʒɪst#, nɪʃ#, nɪs, #nɪk#, rɪk#, #ʃɪ, ɪt#, lɪn#, lɪŋ#, #kʰɪ, #wɪn,
#hɪ,
ɪʊp#,
#meʲŋk#, veʲʲ#, #ve#, te#, teʲʲ#, #tʰeʲʲ#, #spɪeʲ, steʲ, ɪeʲ, keʲ,
oʷ#, bloʷ, tʰoʷ, toʷ#, stoʷ, ɪoʷ, #ɪoʷ, #ɪoʷm#, loʷ#, goʷ#, #hoʷ,
ə#, bʔ, #mə, məs#, #mət, vʔ, tɪə, də#, dʰəŋ#, dɪə, dʰʔ, dʰəŋ#, #də, #dʒə, nʰəŋ#, rʰəŋ#, rəd#, #sə, stə, sʰəŋ#, stʰəŋ#, zʔʲ#, zə#, ʃʰənd#, ʃəs#,
ɪəst#, lən, lə, lə#, #kʰɪə, kətʷ#, gəst#, #gə,
ə#, #mə, fə#, və#, tə#, #dæk#, dʒəd#, nə, #ʃə, #ʃəst#, gə#,
pɛd#, tʰɛk, #dɛ, #dɛv, nɛs#, #skwɛʲ#, #zɛ, #ʃɪɛg#,
#dɪɪŋ, #dɪs, #swɪst#, #ɪs, #wɪŋ,
#ɔɪ, #ɔɪpθ#, bɔ, #kɔɪ,
#æ, dæ, dæk#, #dænt#, #spɪæs, #ɪæn, jæn, kʰæ, #kʰɪæ, kʰɪæk#, kɪæk#,

pʰaʷ#, baʰt#, #faʰ, faʰ#, #fla#, vaʰnz#, vaʰnd#, daʰ, daʰn#, naʰ, #ra, #skaʰaʰ, ʰaʰ#, laʰ, kaʰ, #kar, #haʰ, hal#,
 #ak, #ag, #pʰaʰ, #baθ, #blaz, #ma, #maʰ, maʰ#, #maʰk#, flak, taʰ#, taʰ, tʰa, dan, #dʰap#, na, #staʰ#, #stah#, #stʰa, #fbaʰ, #ʰam, ʰan,
 ladʒ#, laf, kʰla #kʰa, #kʰam, #kʰaŋk#, #gʰab, #gʰa, #ga (257)

Broad:
**ʰa(6), ʰa(5), kʰ(5), sə(4), zi(3), ʰe(3), ə(3), mə(3), stə(3), a(3), si(2), sti(2), ɪ(2), ni(2), spi(2), kʰis(2), to(2), ʰo(2), tə(2),
 nə(2), rʰ(2), lə(2),**
ləs(2), ʰ(2), kə(2), fʰɪst(2), kʰæk(2), maʰ(2), gaʰ(2),
 pi, pʰi, bi, mi, fi, tʰi, tin, di, ri, fi, ki, kʰi, him,
 u, pʰu, bʰu, bʰun, vrun, nu, ʰup, ʰum, ʰud, lu, ju, ku, kun, kʰug, wu, hu,
 mʰs, mʰk, fʰɪn, fʰɪŋ, vʰs, vʰɪŋ, tʰɪg, twɪn, tʰɪ, dʰɪŋ, dʰɪb, dʰɪb, dʰɪst, nɪf, nʰs, nʰk, rʰk, fʰɪ, ʰɪt, lɪn, lɪŋ, kʰɪ, wɪn, hɪ,
 ʰup,
 mɛŋk, veʰ, ve, te, te, tʰet, spʰe, ste, ke,
 o, blo, sto, ʰoʰm, lo, go, ho,
 bʰ, mʰs, mʰt, vʰ, tʰə, də, dʰm, dʰə, dʰ, dʰm, də, dʰə, nʰŋ, rʰŋ, rəʰ, sʰm, stʰŋ, zʰ, zə, fʰənd, fʰəs, ʰəst, lən, kʰə, kət, gəst, gə,
 ə, mʰ, fʰə, vʰə, tʰə, dʰək, dʰəʰd, nʰə, fʰə, fʰəst, gʰə,
 pɛd, tɛk, dɛ, dɛv, nɛs, skwɛʰ, zɛ, fʰɛg,
 dʰaŋ, dʰas, swʰast, ʰas, wʰaŋ,
 ʰɪ, ʰpθ, bɔ, kɔʰ,
 æ, dæ, dæk, dænt, spʰæs, ʰæn, jæn, kæ, kʰæ,
 pa, bat, fa, faʰ, fla, vanz, vand, da, dan, na, ra, skaʰa, ʰa, la, ka, kar, ha, hal,
 ak, ag, pʰaʰ, baθ, blaz, ma, maʰk, flak, taʰ, taʰ, ta, dan, dʰap, na, staʰ, stah, stʰa, fbaʰ, ʰam, ʰan, ladʒ, laf, kla, ka, kam, kʰaŋk, gʰab, gʰa,
 ga (257)

257 total whole syllables

Supra-Segments: Whole Words

Whole Word Total per Word Length

Whole Monosyllables:

forst [fʰɪst](2), vay [ve], swust [swʰast], durk [dʰək], stah [stah], maynk [meʰŋk], nik [nɪk], mark [maʰk], teen [tʰɪn], krahnk [kʰaŋk], skwehl [skwɛʰ], dant [dænt], chait [tʰeʰt], stall [staʰ], shurst [ʃəst], drahp [dʰap], olpth [ɔʰpθ], shreg [ʃɛg], rolm [ʰoʰm], flah [fla], kroog [kʰuʰg]

Whole Bisyllables:

GAHRshuhnd [gʰaʰ · fʰənd], DINkee [dʰɪŋ · kiʰ], SHIHmuh [ʃɪ · mə], SHURloo [ʃə · luʷ], KRIHkul [kʰɪ · kʰ], KARtay [kar · te], RAHpee [ʰa · piʰ], SPRAYgoh [spʰeʰ · goʷ], MARmis [maʰ · mis], RANjurd [ʰæn · dʰəʰd], WUHNgur [wʰaŋ · gəʰ], STRAHvis [stʰa · vʰs], BLAHZleeng [blaz · lɪŋ], DEHfrin [dɛ · fʰɪn], KRISTuhm [kʰɪs · dʰm], KAHtoe [kʰa · toʷ], STEEkut [stiʰ · kət], TILLmar [tʰɪt · maʰ], ORfile [ɔʰ · faʰ], HISStee [hɪ · stiʰ], EYERup [aʰ · ʰup], RAHNish [ʰa · nɪʃ], KAHMpow [kʰam · pʰaʷ], GRAHblo [gʰab · loʷ], FAIduhn [faʰ · rʰŋ], RAHMmus [ʰa · mʰs], KREEdul [kʰɪʰ · rʰ], HEEMlin [hɪʰm · lɪn], KRISlodge [kʰɪs · ladʒ], BAHThrye [baθ · ʰaʰ], PAHRtul [pʰaʰ · rʰ], KOONtahl [kʰuʰn · taʰ], TWINdul [tʰwɪn · dʰ], EYEbee [aʰ · biʰ], SKRYuhl [skaʰ · ʰ], RUSpree [ʰas · piʰ], SHBAHRgust [ʃbaʰ · gəst], DUSTur [dʰas · təʰ], AHGduhm [ag · dʰm], DRUNGstuhn [dʰaŋ · stʰŋ], SPIHzee [spi · ziʰ], ROHped [ʰoʷ · pɛd],

dribDIB [dʰɪb · dʰɪb], uhVYNZ [ə · vaʰnz], murNESS [mʰ · nɛs], rayBYOUNE [ʰeʰ · bʰuʷn], korVYND [kɔʰ · vaʰnd], juhBITE [dʒə · baʰt], rahHAL [ra · hal], ruhKRAK [ʰə · kʰæk], hyROOD [hə · ʰuʷd]

Whole Trisyllables:

finkeyeyou [fɪŋ · kaʰ · juʷ],

KRANuhdyne [kʰæ · nə · daʰn], GRAHvuhlvail [gʰa · vʰ · veʰ], RAHMbyoulus [ʰam · bʰuʷ · ləs], VROONsuhdee [vrun · sə · di], EYEstorust [aʰ · stoʷ · ʰəst], Anihkul [ə · nɪ · kʰ], SPRASuhkul [spʰæs · tə · kʰ], IHruhtahr [ɪ · ʰə · taʰ], ZEHTruhfur [zɛ · tʰə · fəʰ], WOObuhloop [wʰuʷ · bʰ · ʰuʷp], RAHluhkul [ʰa · lə · kʰ], WINdruhlu [wɪn · dʰə · ləs], HOLunzee [hʰoʷ · lən · ziʰ], GAHNuril [gʰa · nə · ɪt],

ooNAIdee [uʷ · naʰ · riʰ], muhLYEur [mə · laʰ · ə], guhRAHjist [gə · ʰa · dʰɪst], duhSHEEveeng [də · fʰiʰ · vɪŋ], mulTAHsum [mʰt · tʰa · sʰm], meeYANDak [miʰ · jæn · dæk], uhRAHting [ə · ʰa · tɪŋ], kuhDYzul [kə · daʰ · zʰ], feeDAHnzuh [fiʰ · dan · zə], rayKLAHtay [ʰeʰ · kʰla · teʰ], stuhLAHFnum [stə · laf · nʰŋ], kruhSTAYshus [kʰɪə · steʰ · fəs], ruhTOMik [ʰə · tʰoʷ · mɪk], suhBLOWkrak [sə · bloʷ · kʰæk], stuhRAHNduh [stə · ʰan · də], spihNAHtik [spi · na · rɪk]

Whole Tetrasyllables:

DEVruh kaytud [ˈdɛv·ɹə·kɛʲ·rəd], HOOSuhnoovur [ˈhuʷ·sə·nuʷ·vəʃ],

kuhROWSuhmuh [kə·ˈɹoʷ·sə·mə], prooNIHstuhkoo [pʰɹuʷ·ˈnɪ·stə·kuʷ], roomTEKtuhkul [ɹuʷm·ˈtʰɛk·tə·kʰ], ruhDAzeeo [ɹə·ˈdæ·ziʲ·oʷ],
garBORrayul [ɡaɹ·ˈbɔ·ɹɛʲ·ʰ],

mahnuhKALuh [ma·nə·ˈkʰæ·lə], ahkseeFLAHKsee [ak·siʲ·ˈflak·siʲ], inisTREEuh [ɪ·nɪs·ˈtʰɹiʲ·ə]

Whole Pentasyllables:

	Syllable Receiving Stress					
	None	First	Second	Third	Fourth	Fifth
Word Length Total						
Monosyllabic: 22						
Bisyllabic: 51	0	42	9			
Trisyllabic: 31	1	14	16	0		
Tetrasyllabic: 10	0	2	5	3	0	
Pentasyllabic: 0	0	0	0	0	0	0
Total: 114	1	58	30	3	0	0

APPENDIX F

COMPLETE SEGMENTAL AND SUPRA-SEGMENTAL FREQUENCY DATA SHEETS

Segments

Segment Total for Stressed and Unstressed Syllables and Monosyllables according to Syllable Configuration

Monosyllable Onset (46):

ɹ(9), 19.56%

#s(5), #g(5), 10.86%

l(4), 8.69%

#f(3), #d(3), 6.52%

#p^h(2), k(2) 4.34%

Monosyllable Nucleus (26):

ʌ(8), 30.76%

a(5), 19.23%

ɛ(3), 11.53%

iⁱ(2), u^w(2), æ(2), æⁱ(2) 7.69%

Monosyllable Coda (29):

tʃ(4), 13.79%

p(3), k(3), 10.34%

t(2), d(2), ts(2), z(2), ʃ(2) 6.89%

First Syllable Segment Stressed Onset (81):

#g(11), 13.58%

ɹ(8), #w(8), 9.87%

#s(6), 7.40%

l(5), #k^h(5), 6.17%

#n(4), #l(4), k(4), 4.93%

#b(3), #f(3), #d(3), #ʃ(3), 3.70%

#p^h(2), #t^h(2) 2.46%**First Syllable Segment Stressed Nucleus (72):**

a(14), 19.44%

æ(11), 15.27%

ɪ(9), 12.50%

ʌ(6), 8.33%

iⁱ(5), 6.94%

ɛ(4), 5.55%

u^w(3), 4.16%#u^w(2), o^w(2), ʌ(2), ɔ(2), aⁱ(2), #a(2) 2.77%**First Syllable Segment Stressed Coda (34):**

k(9), 26.47%

m(5), 14.70%

n(3), s(3), t(3), 8.82%

p(2), ɹ(2), ŋ(2) 5.88%

First Syllable Segment Unstressed Onset (13):

#s(3) 23.07%

First Syllable Segment Unstressed Nucleus (16):

ə(6), 37.50%

u^w(3), #ɛ(3) 18.75%

First Syllable Segment Unstressed Coda (6):

n(2), k(2) 33.33%

Second Syllable Segment Stressed Onset (17):

s(3), 17.64%

b(2), t(2), w(2) 11.76%

Second Syllable Segment Stressed Nucleus (14):

æ(3), a(3) 21.42%

ʌ(2) 14.28%

Second Syllable Segment Stressed Coda (6):

ɹ(2) 33.33%

Second Syllable Segment Unstressed Onset (82):

s(11), 13.41%

b(7), ɹ(7), 8.53%

t(6), d(6), 7.31%

l(5), g(5), 6.09%

f(4), k(4), w(4), 4.87%

p(3), m(3), θ(3), z(3), ʃ(3), 3.65%

n(2), r(2) 2.43%

Second Syllable Segment Unstressed Nucleus (74):

ə(16), 21.62%

ɤ̃(10), a(10), 13.51%

ɪ(9), 12.16%

ĩ(6), 8.10%

ə̃(4), 5.40%

ɤ̃(3), 4.05%

õ(2), ɤ̃(2), ə̃(2) 2.70%

Second Syllable Segment Unstressed Coda (24):

n(4), 16.66%

b(2), f(2), s(2), ɹ(2) 8.33%

Third Syllable Segment Stressed Onset:

Third Syllable Segment Stressed Nucleus:

Third Syllable Segment Stressed Coda:

Third Syllable Segment Unstressed Onset (36):

l(8), 22.22%

ɹ(5), 13.88%

s(4), 11.11%

ʃ(3), k(3), 8.33%

t(2) 5.55%

Third Syllable Segment Unstressed Nucleus (29):

ə̃(4), a(4), 13.79%

ɪ(3), ə̃(3), 10.34%

ĩ(2)̃, ũ(2), ũ(2), ɤ̃(2) 6.89%

Third Syllable Segment Unstressed Coda (16):

s(3), 18.75%

n(2), z(2) 12.50%

Fourth Syllable Segment Stressed Onset:

Fourth Syllable Segment Stressed Nucleus:

Fourth Syllable Segment Stressed Coda:

Fourth Syllable Segment Unstressed Onset:

Fourth Syllable Segment Unstressed Nucleus:

Fourth Syllable Segment Unstressed Coda:

Fifth Syllable Segment Stressed Onset:

Fifth Syllable Segment Stressed Nucleus:

Fifth Syllable Segment Stressed Coda:

Fifth Syllable Segment Unstressed Onset:

Fifth Syllable Segment Unstressed Nucleus:

Fifth Syllable Segment Unstressed Coda:

Segment Total for Stressed and Unstressed Onsets and Codas

Stressed Onset (101):

#g(11), 10.89%
 ʃ(8), #w(8), 7.92%
 #s(6), l(6), 5.94%
 #k^h(5), 4.95%
 #n(4), s(4), #l(4), k(4), 3.96%
 #b(3), b(3), #f(3), t(3), #d(3), #f(3), 2.97%
 p(2), #p^h(2), m(2), #t^h(2), w(2) 1.98%

Stressed Coda (40):

k(9), 22.50%
 m(5), 12.50%
 ʃ(4), 10.00%
 n(3), s(3), t(3), ŋ(3), 7.50%
 p(2) 5.00%

Unstressed Onset (134):

s(15), 11.19%
 ʃ(14), l(14), 10.44%
 b(8), t(8), k(8), 5.97%
 d(7), f(7), 5.22%
 f(5), g(5), 3.73%
 p(4), m(4), z(4), w(4), 2.98%
 n(3), θ(3), #s(3), 2.23%
 r(2), j(2), h(2) 1.49%

Unstressed Coda (48):

n#(6), s#(6), 12.5%
 n(4), 8.33%
 f#(3), z#(3), 6.25%
 b#(2), t#(2), f#(2), ʃ#(2), k(2), k#(2) 4.16%

Segment Total for Onsets and Codas

Onset (281):

ʃ(31), 11.03%
 l(24), 8.54%
 s(19), 6.76%
 #g(17), 6.04%
 #s(14), k(14), 4.98%
 b(11), t(11), 3.91%
 d(8), #w(8), 2.84%
 p(7), m(7), #f(7), f(7), 2.49%
 #d(6), #k^h(6), w(6), 2.13%
 #b(5), f(5), #n(5), θ(5), z(5), #f(5), #l(5), g(5), 1.77%
 #p^h(4), #t^h(4), n(4), 1.42%
 j(3), 1.06%
 r(2), #j(2), #h(2), h(2) .71%

Coda (117):

k(12), 10.25%
 n#(7), n(7), s#(7), 5.98%
 m(6), k#(6), 5.12%
 tʃ#(5), z#(5), ʃ(5), 4.27%
 p#(4), f#(4), t#(4), f#(4), ʃ#(4), t(4), ŋ(4), 3.41%
 b#(3), d#(3), s(3), 2.56%
 p(2), ts#(2), dʒ#(2), g(2), g#(2) 1.70%

Segment Total for Stressed and Unstressed Syllables and Monosyllables

Monosyllable Segment (75):

ɹ(9), 12.00%
 #s(5), #g(5), 6.66%
 tʃ(4), l(4), 5.33%
 p(3), #f(3), #d(3), k(3), k(3), 4.00%
 #p^h(2), t(2), d(2), ts(2), z(2), ʃ(2) 2.66%

(26):

ʌ(8), 30.76%
 a(5), 19.23%
 ɛ(3), 11.53%
 iⁱ(2), u^w(2), æ(2), æⁱ(2) 7.69%

First Syllable Segment Stressed (115):

k(13), 11.30%
 #g(11), 9.56%
 ɹ(10), 8.69%
 #w(8), 6.95%
 m(6), #s(6), 5.21%
 l(5), #k^h(5), 4.34%
 #n(4), #l(4), 3.47%
 p(3), #b(3), #f(3), #d(3), n(3), s(3), #f(3), t(3), 2.60%
 #p^h(2), #t^h(2), ŋ(2) 1.73%

(72):

a(14), 19.44%
 æ(11), 15.27%
 ɪ(9), 12.50%
 ʌ(6), 8.33%
 iⁱ(5), 6.94%
 ɛ(4), 5.55%
 u^w(3), 4.16%
 #u^w(2), o^w(2), ə(2), ɔ(2), aⁱ(2), #a(2) 2.77%

First Syllable Segment Unstressed (19):

#s(3), k(3), 15.78%
 n(2) 10.52%

(16):

ə(6), 37.5%
 u^w(3), #ɛ(3) 18.75%

Second Syllable Segment Stressed (23):

s(3), 13.04%
 b(2), t(2), ɹ(2), w(2) 8.69%

(14):

æ(3), a(3), 21.42%
 ʌ(2) 14.28%

Second Syllable Segment Unstressed (122):

s(11), 9.01%
 ɹ(10), 8.19%
 ɹ(8), 6.55%
 b(7), 5.73%
 t(6), d(6), 4.91%
 l(5), g(5), 4.09%
 f(4), n(4), k(4), w(4), 3.27%
 p(3), m(3), n(3), θ(3), z(3), ʃ(3), ɹ(3), 2.45%

b#(2), f#(2), ə#(2), r(2), s#(2), ʃ#(2) 1.63%

(58):

ə(16), 27.58%

a(10), 17.24%

ɪ(9), 15.51%

iʃ#(6), 10.34%

ə#(4), 6.89%

oʷ#(2), ə#(2) 3.44%

Third Syllable Segment Stressed:

Third Syllable Segment Unstressed (56):

l(8), 14.28%

ʃ(5), 8.92%

s(4), 7.14%

s#(3), f(3), k(3), 5.35%

m(2), t(2), n(2), n#(2), z#(2), ʃ#(2) 3.57%

(25):

ə#(4), a(4), 16.00%

ɪ(3), ə(3), 12.00%

iʃ(2)#, uʷ(2), uʷ#(2) 8.00%

Fourth Syllable Segment Stressed:

Fourth Syllable Segment Unstressed:

Fifth Syllable Segment Stressed:

Fifth Syllable Segment Unstressed:

Segment Total by Syllable

First Syllable Segment (134):

k(16), 11.94%

#g(12), 8.95%

ʃ(11), 8.20%

#s(9), 6.71%

#w(8), 5.97%

m(6), 4.47%

n(5), #l(5), l(5), #kʰ(5), 3.73%

#b(4), #f(4), #n(4), #f(4), 2.98%

p(3), #tʰ(3), #d(3), s(3), t(3), ɲ(3), 2.23%

#pʰ(2), g(2), #j(2), #h(2) 1.49%

(72):

a(14), 19.44%

æ(11), 15.275%

ɪ(9), 12.50%

ʌ(6), 8.33%

iʃ(5), 6.94%

ɛ(4), 5.55%

uʷ(3), 4.16%

#uʷ(2), oʷ(2), ə#(2), ɔ(2), aʃ(2), #a(2) 2.77%

Second Syllable Segment (145):

s(14), 9.65%

ʃ(10), ʃ#(10), 6.89%

b(9), 6.20%

t(8), 5.51%

d(7), 4.82%

l(6), w(6), 4.13%

n#(5), g(5), 3.44%

p(4), m(4), f(4), θ(4), z(4), k(4), 2.75%
 n(3), ʃ(3), ɹ(3), ɹ̥(3), 2.06%
 b(2), f(2), ɹ̥(2), r(2), s(2), k(2) 1.37%

(72):
 ə(16), 22.22%
 a(13), 18.05%
 ɪ(9), 12.50%
 iː(6), 8.33%
 æ(4), 5.55%
 ʌ(3), 4.16%
 oʊ(2), 4.16%

Third syllable Segment (59):
 l(8), 13.55%
 s(5), ɹ(5), 8.47%
 t(3), s(3), ʃ(3), k(3), 5.08%
 b(2), m(2), n(2), ɹ̥(2), z(2), ɹ̥(2) 3.38%

(27):
 ə(4), a(4), 14.81%
 uʊ(3), ɪ(3), ə(3), 11.11%
 iː(2), uʊ(2), æ(2) 7.40%

Fourth Syllable Segment:

Fifth Syllable Segment:

Segment Stressed and Unstressed Total

Stressed Segment (140):
 k(13), 9.28%
 ɹ(12), 8.57%
 #g(11), 7.85%
 #w(8), 5.71%
 m(7), s(7), 5.00%
 #s(6), l(6), 4.28%
 #n(5), #kʰ(5), 3.57%
 p(4), #b(4), #l(4), 2.85%
 b(3), #f(3), t(3), #d(3), n(3), #ʃ(3), t(3), ɳ(3), 2.14%
 #pʰ(2), #tʰ(2), w(2) 1.42%

(88):
 a(17), 19.31%
 æ(15), 17.04%
 ɪ(9), 10.22%
 ʌ(8), 9.09%
 iː(5), ɛ(5), 5.68%
 uʊ(4), 4.54%
 ə(3), 3.40%
 #uʊ(2), oʊ(2), ɔ(2), aː(2), #a(2) 2.27%

Unstressed Segment (202):
 s(15), ɹ(15), 7.42%
 l(14), 6.93%
 ɹ̥(12), 5.94%
 k(10), 4.95%
 b(8), t(8), 3.96%
 d(7), n(7), ʃ(7), 3.46%
 n(6), s(6), g(6), 2.97%
 m(5), f(5), 2.47%

p(4), z(4), w(4), 1.98%
b#(3), f#(3), ə#(3), θ(3), #s(3), z#(3), ɹ(3), 1.48%
t#(2), ə#(2), r(2), f#(2), ɹ#(2), j(2), k#(2), h(2), .99%

(103):
ə(26), 25.24%
a(15), 14.56%
ɪ(12), 11.65%
i#(8), 7.76%
u#(6), 5.82%
o#(4), ə#(4), ɔ#(4), 3.88%
ɔ(3), #ɛ(3), æ(3), 2.91%
i(2), u(2), o(2), a(2) 1.94%

Segment Total (absolute)

Narrow (411):
ɹ(36), 8.75%
k(26), 6.32%
l(24), 5.83%
s(22), 5.35%
#g(17), 4.13%
#s(14), 3.40%
m(13), 3.16%
b(12), ɹ#(12), 2.91%
t(11), n(11), 2.67%
p(9), 2.18%
d(8), f(8), #w(8), 1.94%
#f(7), s#(7), g(7), 1.70%
#d(6), #n(6), n#(6), k#(6), w(6), 1.45%
#b(5), f(5), ʃ#(5), θ(5), z(5), z#(5), #f(5), #l(5), #k^h(5), 1.21%
p#(4), #p^h(4), b#(4), f#(4), #t^h(4), t#(4), f#(4), ʃ(4), ɹ(4), .97%
d#(3), ə#(3), ɹ#(3), ɹ(3), j(3), .72%
v(2), ts#(2), dʒ#(2), ə#(2), r(2), #j(2), k^h(2), g#(2), #h(2), h(2) .48%

(216):
a(37), 17.12%
ə(26), 12.03%
ɪ(21), 9.72%
æ(20), 9.25%
ʌ(16), 7.40%
i(9), 4.16%
i#(8), u#(8), ɛ(8), 3.70%
u#(7), 3.24%
ɔ(6), 2.77%
o#(4), o#(4), ə#(4), ɔ#(4), 1.85%
#ɛ(3), ɔ(3), a(3), 1.38%
#u(2), #ɪ(2), æ(2), a#(2), #a(2) .92%

Broad (411):
s(43), 10.46%
ɹ(39), k(39), 9.48%
n(28), 6.81%
g(27), 6.56%
l(25), 6.08%
b(22), 5.35%
p(20), t(20), ʃ(20), 4.86%
d(17), f(17), 4.13%
f(16), 3.89%

m(14), w(14), 3.40%
 z(11), 2.67%
 tʃ(6), 2.77%
 θ(5), j(5), ɨ(5), 1.21%
 dʒ(4), h(4), .97%
 v(3), .72%
 ts(2), r(2) .48%

(216):
 a(41), 18.98%
 ə(30), 13.88%
 æ(24), 11.11%
 ɪ(23), 10.64%
 i(19), 8.79%
 u(18), 8.33%
 ʌ(17), 7.87%
 ɛ(11), 5.09%
 ʌ(10), 4.62%
 o(8), 3.70%
 ʌ(7), 3.24%
 ɔ(5) 2.31%

627 total segments

Supra-Segments: Consonant Clusters

Consonant Cluster Total for Stressed and Unstressed Syllables and Monosyllables according to Syllable Configuration

Monosyllable Consonant Cluster Onset (all entries are word initial) (19):

#gl(3), 15.78%
 #dʒ(2), #sk(2) 10.52%

Monosyllable Consonant Cluster Coda (all entries are word final):

First Syllable Consonant Cluster Stressed Onset (all entries are word initial) (18):

#sk(4), 22.22%
 #gl(3), #gʒ(3), 16.66%
 #kʰʒ(2) 11.11%

First Syllable Consonant Cluster Stressed Coda:

First Syllable Consonant Cluster Unstressed Onset (all entries are word initial):
 First Syllable Consonant Cluster Unstressed Coda:

Second Syllable Consonant Cluster Stressed Onset:

Second Syllable Consonant Cluster Stressed Coda:

Second Syllable Consonant Cluster Unstressed Onset (6):
 st(2) 33.33%

Second Syllable Consonant Cluster Unstressed Coda:

Third Syllable Consonant Cluster Stressed Onset:

Third Syllable Consonant Cluster Stressed Coda:

Third Syllable Consonant Cluster Unstressed Onset:

Third Syllable Consonant Cluster Unstressed Coda:

Fourth Syllable Consonant Cluster Stressed Onset:

Fourth Syllable Consonant Cluster Stressed Coda:

Fourth Syllable Consonant Cluster Unstressed Onset:

Fourth Syllable Consonant Cluster Unstressed Coda:

Fifth Syllable Consonant Cluster Stressed Onset:

Fifth Syllable Consonant Cluster Stressed Coda:

Fifth Syllable Consonant Cluster Unstressed Onset:

Fifth Syllable Consonant Cluster Unstressed Coda:

Consonant Cluster Total for Stressed and Unstressed Onsets and Codas

Stressed Onset (24):

#sk(4), 16.66%

#gl(3), #gl(3), 12.50%

st(2), #k^hɹ(2) 8.33%

Stressed Coda:

Unstressed Onset (11):

st(3) 27.27%

Unstressed Coda:

Consonant Cluster Total for Onsets and Codas

Onset (54):

#sk(6), #gl(6), 11.11%

st(5), 9.25%

#gl(4), 7.40%

#k^hɹ(3), 5.55%

#fɹ(2), #t^hɹ(2), #dɹ(2), sp(2) 3.70%

Coda:

Consonant Cluster Total for Stressed and Unstressed Syllables and Monosyllables

Monosyllable Consonant Cluster (25):

#gl(3), 12.00%

#dɹ(2), #sk(2) 8.00%

First Syllable Consonant Cluster Stressed (20):

#sk(4), 20.00%

#gl(3), #gl(3), 15.00%

#k^hɹ(2) 10.00%

First Syllable Consonant Cluster Unstressed:

Second Syllable Consonant Cluster Stressed:

Second Syllable Consonant Cluster Unstressed (8):

st(2) 25.00%

Third Syllable Consonant Cluster Stressed:

Third Syllable Consonant Cluster Unstressed:

Fourth Syllable Consonant Cluster Stressed:

Fourth Syllable Consonant Cluster Unstressed:

Fifth Syllable Consonant Cluster Stressed:

Fifth Syllable Consonant Cluster Unstressed:

Consonant Cluster Total per Syllable

First Syllable Consonant Cluster (21):

#sk(4), 19.04%

#gl(3), #gl(3), 14.28%

#k^hɹ(2), 9.52%

Second Syllable Consonant Cluster (13):

st(3) 23.07%

Third Syllable Consonant Cluster (9):

st(2) 22.22%

Fourth Syllable Consonant Cluster:

Fifth Syllable Consonant Cluster:

Consonant Cluster Stressed and Unstressed Total

Consonant Cluster Stressed (27):

#sk(4), 14.81%

#gl(3), #gɹ(3), 11.11%

st(2), #kʰɹ(2) 7.40%

Consonant Cluster Unstressed (16):

st(3) 18.75%

Consonant Cluster Total (absolute)**Narrow (68):**

#sk(6), #gl(6), 8.82%

st(5), 7.35%

#gɹ(4), 5.88%

#kʰɹ(3), 4.41%

#fɹ(2), #tʰɹ(2), #dɹ(2), sp(2) 2.94%

Broad (68):

sk(7), 10.29%

gl(6), 8.82%

st(5), gɹ(5), 7.35%

kɹ(4), 5.88%

pɹ(2), fɹ(2), tɹ(2), dɹ(2), sp(2), fm(2), ŋk(2) 2.94%

68 total consonant clusters

Supra-Segments: Whole Syllables**Whole Syllable Total for Stressed and Unstressed Syllables and Monosyllables****Monosyllable Whole Syllable:****First Syllable Whole Syllable Stressed (all entries are word initial):**

First Syllable Whole Syllable Unstressed (all entries are word initial):

Second Syllable Whole Syllable Stressed (14):

bæ(2) 14.28%

Second Syllable Whole Syllable Unstressed (74):

bʰ#(3), gə(3), 4.05%

kɔʷ#(2), sʰ#(2), zʰ#(2) 2.70%

Third Syllable Whole Syllable Stressed:

Third Syllable Whole Syllable Unstressed (29):

lə#(2) 6.89%

Fourth Syllable Whole Syllable Stressed:

Fourth Syllable Whole Syllable Unstressed:

Fifth Syllable Whole Syllable Stressed:

Fifth Syllable Whole Syllable Unstressed:

Whole Syllable Total per Syllable**First Syllable Whole Syllable (all entries are word initial) (88):**

#luʷ(2), #guʷ(2) 2.27%

Second Syllable Whole Syllable (88):

bʰ#(3), gə(3), 3.40%

kɔʷ#(2), sʰ#(2), zʰ#(2), bæ(2), 2.27%

Third Syllable Whole Syllable (31):

lə#(2) 6.45%

Fourth Syllable Whole Syllable:

Fifth Syllable Whole Syllable:

Whole Syllable Stressed and Unstressed Total

Whole Syllable Stressed (87):

bæ(2) 2.29%

Whole Syllable Unstressed (124):

bɪ#(3), gə(3), 2.41%

fuʷ#(2), koʷ#(2), sɪ#(2), sə(2), zɪ#(2), lə#(2) 1.61%

Whole Syllable Total (absolute)

Narrow (237):

bɪ#(3), gə(3), 1.26%

fuʷ#(2), #luʷ(2), #guʷ(2), koʷ#(2), sɪ#(2), sə(2), zɪ#(2), lə#(2), bæ(2), #wa(2) .84%

Broad (237):

bɪ(4), 1.68%

sə(3), zɪ(3), lə(3), gə(3), 1.26%

di(2), ki(2), fu(2), lu(2), gu(2), ko(2), sɪ(2), ɹə(2), bæ(2), θæ(2), aɪ(2), da(2) .84%

237 total whole syllables

Supra-Segments: Whole Words

	Syllable Receiving Stress					
	None	First	Second	Third	Fourth	Fifth
Word Length Total						
Monosyllabic: 22.80%						
Bisyllabic: 50.00%	0	94.73%/75.00%	5.26%/23.07%			
Trisyllabic: 24.56%	3.57%/100%	64.28%/25.00%	28.57%/61.53%	3.57%/50.00%		
Tetrasyllabic: 1.75%	0	0	100%/15.38%	0	0	
Pentasyllabic: .87%	0	0	0	100%/50.00%	0	0
Stressed Syllable Total:		82.75%	14.94%	2.29%	0	0

Table Key: The “Word Length Total” column figure represents the percentage of words that is of that word length. For the cells inside the “Syllable Receiving Stress” columns, the amount on top indicates what percentage of a particular word length was stressed on that syllable. The number on the bottom indicates, for all the words that received stress on a particular syllable, what percentage of these words were of a particular word length. The “Stressed Syllable Total” row indicates what percentage of words was stressed on a particular syllable. Note that monosyllables were not analyzed as receiving stress and the “None” cell in the “Stressed Syllable Total” row is inapplicable.

For all 114 whole words there are no repeated words.

Segments

Segment Total for Stressed and Unstressed Syllables and Monosyllables according to Syllable Configuration

Monosyllable Onset (54):

#s(14), l(14), 25.92%

#l(3), 5.55%

#p^h(2), p(2), #b(2), m(2), ʃ(2), #g(2) 3.70%

Monosyllable Nucleus (32):

ɪ(6), 18.75%

æ(4), 12.50%

i^j(3), eⁱ(3), 9.37%

ɛ(2), ʌ(2), a(2) 6.25%

Monosyllable Coda (40):

k#(7), 17.5%

f#(4), 10.00%

t#(3), z#(3), 7.50%

m#(2), m(2), f#(2), s(2), s#(2), ʃ(2), g#(2) 5.00%

First Syllable Segment Stressed Onset (89):

#s(17), 19.10%

ʃ(8), #g(8), 8.98%

l(7), 7.86%

#k^h(6), 6.74%

#p^h(5), 5.61%

#n(4), 4.49%

#b(3), #d(3), k(3), w(3), #h(3), 3.37%

p(2), #f(2), #ʃ(2), #l(2), j(2), #w(2) 2.24%

First Syllable Segment Stressed Nucleus (67):

ɪ(11), 16.41%

u^w(8), æ(8), a(8), 11.94%

ʌ(5), 7.46%

i^j(4), 5.97%

eⁱ(3), ɛ(3), aⁱ(3), 4.47%

u^w(2) 2.98%

First Syllable Segment Stressed Coda (21):

ʃ(6), 28.57%

m(3), n(3), k(3), 14.28%

s(2), ʃ(2) 9.52%

First Syllable Segment Unstressed Onset (15):

#s(3), 20.00%

#dʒ(2), ʃ(2) 13.33%

First Syllable Segment Unstressed Nucleus (13):

ə(6), 46.15%

æ(2), a(2) 15.38%

First Syllable Segment Unstressed Coda (4):

ʃ(2) 50.00%

Second Syllable Segment Stressed Onset (12):

l(4), 33.33%

d(2), n(2) 16.66%

Second Syllable Segment Stressed Nucleus (11):

eⁱ(2) 18.18%

Second Syllable Segment Stressed Coda:

Second Syllable Segment Unstressed Onset (77):

f(7), l(7), 9.09%

t(6), s(6), ɹ(6), g(6), 7.79%

ɔ̃(5), k(5), 6.49%

n(4), w(4), 5.19%

m(3), r(3), j(3), 3.89%

p(2), b(2), d(2), θ(2) 2.59%

Second Syllable Segment Unstressed Nucleus (70):

ɤ̃#(11), 15.71%

ə(10), 14.28%

a(8), 11.42%

iⁱ(7), 10.00%

u^w(5), 7.14%

u^w#(4), ɪ(4), 5.71%

ə#(3), 4.28%

iⁱ#(2), eⁱ(2), o^w#(2), o^w(2), ə̃#(2), 2.85%

Second Syllable Segment Unstressed Coda (19):

s#(5), 26.31%

d#(3), 15.78%

f#(2), n#(2), t#(2), k#(2) 10.52%

Third Syllable Segment Stressed Onset (4):

ɹ(2) 50.00%

Third Syllable Segment Stressed Nucleus (4):

a(3) 75.00%

Third Syllable Segment Stressed Coda:

Third Syllable Segment Unstressed Onset (24):

f(4), 16.66%

t(3), l(3), g(3), 12.50%

s(2), ɹ(2), j(2), k(2) 8.33%

Third Syllable Segment Unstressed Nucleus (21):

ɪ(4), ə(4), 19.04%

iⁱ(2) 9.52%

Third Syllable Segment Unstressed Coda (13):

s#(4), 30.76%

k#(2) 15.38%

Fourth Syllable Segment Stressed Onset:

Fourth Syllable Segment Stressed Nucleus:

Fourth Syllable Segment Stressed Coda:

Fourth Syllable Segment Unstressed Onset:

Fourth Syllable Segment Unstressed Nucleus (6):

o^w#(2) 33.33%

Fourth Syllable Segment Unstressed Coda:

Fifth Syllable Segment Stressed Onset:

Fifth Syllable Segment Stressed Nucleus:

Fifth Syllable Segment Stressed Coda:

Fifth Syllable Segment Unstressed Onset:

Fifth Syllable Segment Unstressed Nucleus:

Fifth Syllable Segment Unstressed Coda:

Segment Total for Stressed and Unstressed Onsets and Codas

Stressed Onset (105):

#s(17), 16.19%
 l(11), 10.47%
 ʃ(10), 9.52%
 #g(8), 7.61%
 #k^h(6), 6.66%
 #p^h(5), 5.71%
 #n(4), n(4), 3.80%
 #b(3), #d(3), k(3), w(3), #h(3), 2.85%
 p(2), m(2), #f(2), d(2), #ʃ(2), #l(2), j(2), k^h(2), #w(2) 1.90%

Stressed Coda (27):

t(6), 22.22%
 k(4), 14.81%
 m(3), n(3), s(3), 11.11%
 t(2), ʃ(2) 7.40%

Unstressed Onset (122):

f(12), 9.83%
 ʃ(11), l(11), 9.01%
 t(9), g(9), 7.37%
 s(8), 6.55%
 k(7), 5.73%
 dʒ(5), n(5), j(5), w(5), 4.09%
 b(4), m(4), r(4), 3.27%
 d(3), #s(3), 2.45%
 p(2), #dʒ(2), θ(2) 1.63%

Unstressed Coda (32):

s#(5), 15.62%
 d#(4), k#(4), 12.50%
 n#(3), t#(3), 9.37%
 f#(2), s(2), ʃ(2) 6.25%

Segment Total for Onsets and Codas

Onset (281):

l(36), 12.81%
 #s(34), 12.09%
 ʃ(23), 8.18%
 f(12), 4.27%
 k(11), #g(11), 3.91%
 t(9), n(9), s(9), g(9), w(9), 3.20%
 m(8), #k^h(8), 2.84%
 #p^h(7), j(7), 2.49%
 p(6), 2.13%
 #b(5), b(5), d(5), dʒ(5), #n(5), #l(5), 1.77%
 r(4), 1.42%
 #m(3), #f(3), #d(3), #ʃ(3), #h(3), 1.06%
 #tʃ(2), #dʒ(2), θ(2), ʃ(2), k^h(2), #w(2) .71%

Coda (99):

k#(11), 11.11%
 s(7), s#(7), 7.07%
 m(6), ʃ(6), t(6), 6.06%
 k(5), 5.05%
 f#(4), t#(4), d#(4), n(4), z#(4), ʃ#(4), t#(4), 4.04%

n#(3), 3.03%
m#(2), t(2), tʃ#(2), ɹ#(2), g#(2), ŋ(2) 2.02%

Segment Total for Stressed and Unstressed Syllables and Monosyllables

Monosyllable Segment (89):

#s(14), l(14), 15.73%
k#(7), 7.86%
m(4), f#(4), ɹ(4), 4.49%
p(3), t#(3), z#(3), #l(3), 3.37%
#p^h(2), #b(2), m#(2), f#(2), s(2), s#(2), #g(2), g#(2) 2.24%

(32):

ɪ(6), 18.75%
æ(4), 12.50%
i^j(3), e^j(3), 9.37%
ɛ(2), ʌ(2), a(2) 6.25%

First Syllable Segment Stressed (110):

#s(17), 15.45%
ɹ(10), 9.09%
#g(8), 7.27%
l(7), 6.365%
t(6), k(6), #k^h(6), 5.45%
#p^h(5), 4.54%
m(4), #n(4), n(4), 3.63%
#b(3), #d(3), w(3), #h(3), 2.72%
p(2), #f(2), t(2), s(2), #ɹ(2), #l(2), j(2), #w(2) 1.81%

(67):

ɪ(11), 16.41%
u^w(8), æ(8), a(8), 11.94%
ʌ(5), 7.46%
i^j(4), 5.97%
e^j(3), ɛ(3), a^j(3), 4.47%
u^w(2) 2.98%

First Syllable Segment Unstressed (19):

ɹ(4), 21.05%
#s(3), 15.78%
m(2), #dʒ(2) 10.52%

(13):

ə(6), 46.15%
æ(2), a(2) 15.38%

Second Syllable Segment Stressed (16):

l(4), 25.00%
d(2), n(2), s(2) 12.50%

(11):

e^j(2) 18.18%

Second Syllable Segment Unstressed (111):

ɹ̥#(11), 9.90%
f(7), l(7), 6.30%
t(6), s(6), ɹ(6), g(6), 5.40%
dʒ(5), s#(5), k(5), 4.50%
n(4), w(4), 3.60%
m(3), d#(3), r(3), j(3), 2.70%
p(2), b(2), f#(2), d(2), n#(2), ɹ̥#(2), θ(2), t#(2), k#(2) 1.80%

(55):
 ə(10), 18.18%
 ɑ(8), 14.54%
 i^ɪ(7), 12.72%
 u^ʊ(5), 9.09%
 u^ʊ#(4), ɪ(4), 7.27%
 ə#(3), 5.45%
 i^ɪ#(2), e^ɪ(2), o^ʊ#(2), o^ʊ(2) 3.63%

Third Syllable Segment Stressed (6):
 ɹ(2) 33.33%

(4):
 ɑ(3) 75.00%

Third Syllable Segment Unstressed (38):
 f(4), s#(4), 10.52%
 t(3), s(3), l(3), g(3), k(3), 7.89%
 ɹ(2), j(2), k#(2) 5.26%

(20):
 ɪ(4), ə(4), 20.00%
 i^ɪ(2) 10.00%

Fourth Syllable Segment Stressed:

Fourth Syllable Segment Unstressed:

(5):
 o^ʊ#(2) 40.00%

Fifth Syllable Segment Stressed:
 Fifth Syllable Segment Unstressed:

Segment Total by Syllable

First Syllable Segment (129):
 #s(20), 15.50%
 ɹ(14), 10.85%
 #g(9), 6.97%
 l(7), #k^h(7), 5.42%
 m(6), t(6), k(6), 4.65%
 #p^h(5), 3.87%
 #n(4), n(4), 3.10%
 #b(3), #f(3), #d(3), s(3), #l(3), w(3), #h(3), 2.32%
 p(2), #m(2), t(2), #tʃ(2), #dʒ(2), #ɹ(2), j(2), #w(2) 1.55%

(80):
 ɪ(11), 13.75%
 æ(10), ɑ(10), 12.50%
 u^ʊ(8), 10.00%
 ə(6), 7.50%
 i^ɪ(5), ʌ(5), 6.25%
 ɛ(4), 5.00%
 e^ɪ(3), a^ɪ(3), 3.75%
 #u^ʊ(2), u^ʊ(2) 2.50%

Second Syllable Segment (127):
 l(11), ɹ#(11), 8.66%
 s(8), 6.29%
 f(7), 5.51%
 t(6), n(6), ɹ(6), g(6), 4.72%

ɔ̃(5), s#(5), k(5), 3.93%
 m(4), d(4), w(4), 3.14%
 b(3), d#(3), r(3), j(3), 2.36%
 p(2), f#(2), n#(2), ʔ#(2), θ(2), t#(2), k#(2) 1.57%

(66):
 ə(10), 15.15%
 a(9), 13.63%
 iː(7), 10.60%
 uː(6), 9.09%
 uʷ(5), 7.57%
 ɪ(4), eː(4), 6.06%
 iː#(3), oʷ(3), ʌ#(3), 4.54%
 oʷ#(2), ʌ(2), ɛ(2), aː(2) 3.03%

Third syllable Segment (44):
 f(4), s#(4), ɹ(4), k(4), 9.09%
 t(3), s(3), l(3), g(3), 6.81%
 n(2), t#(2), j(2), k#(2) 4.54%

(24):
 ɪ(4), ə(4), a(4), 16.66%
 iː(2), uː(2) 8.33%

Fourth Syllable Segment:

(5):
 oʷ(2)# 40.00%

Fifth Syllable Segment:

Segment Stressed and Unstressed Total

Stressed Segment (132):

#s(17), 12.87%
 ɹ(12), 9.09%
 l(11), 8.33%
 #g(8), 6.06%
 n(7), k(7), 5.30%
 t(6), #kʰ(6), 4.54%
 #pʰ(5), m(5), 3.78%
 #n(4), s(4), 3.03%
 #b(3), t(3), #d(3), w(3), #h(3), 2.27%
 p(2), #f(2), d(2), #tʃ(2), #ɹ(2), #l(2), j(2), kʰ(2), #w(2) 1.51%

(82):
 a(12), 14.63%
 ɪ(11), 13.41%
 uː(9), 10.97%
 æ(8), 9.75%
 ʌ(6), 7.31%
 eː(5), 6.09%
 iː(4), ɛ(4), aː(4), 4.87%
 uʷ(3), 3.65%
 oʷ(2) 2.43%

Unstressed Segment (172):

ɹ(13), 7.55%
 f(12), ʔ#(12), 6.97%
 l(11), 6.39%
 s(10), 5.81%

t(9), s#(9), g(9), 5.23%
k(8), 4.65%
m(5), dʒ(5), n(5), w(5), 2.90%
b(4), d#(4), r(4), k#(4), 2.32%
d(3), n#(3), #s(3), t#(3), 1.74%
p(2), ʔm#(2), f#(2), #dʒ(2), ʔn#(2), θ(2), j(2) 1.16%

(93):
ə(20), 21.50%
a(11), 11.82%
iʲ(10), 10.75%
ɪ(8), 8.60%
uʷ(6), 6.45%
uʷ#(5), oʷ#(5), 5.37%
iʲ#(4), æ(4), 4.30%
eʲ(3), ʌ#(3), 3.22%
oʷ(2), ə#(2), ɛ(2), aʲ(2) 2.15%

Segment Total (absolute)

Narrow (397):
l(36), 9.06%
#s(34), 8.56%
ɹ(29), 7.30%
s(16), k(16), 4.03%
m(14), 3.52%
n(13), 3.27%
f(12), t(12), ɬ#(12), 3.02%
s#(11), k#(11), #g(11), 2.77%
g(9), w(9), 2.26%
#kʰ(8), 2.01%
#pʰ(7), p(7), 1.76%
#l(6), t(6), 1.51%
#b(5), b(5), d(5), dʒ(5), #n(5), 1.25%
f#(4), t#(4), d#(4), r(4), z#(4), ʃ#(4), t#(4), j(4), 1.00%
#m(3), #f(3), #d(3), #tʃ(3), n#(3), #ɹ(3), #h(3), .75%
m#(2), ʔm#(2), #dʒ(2), ʔn#(2), θ(2), z(2), ʃ(2), ɹ#(2), kʰ(2), g#(2), ŋ(2), #w(2) .50%

(207):
ɪ(25), a(25), 12.07%
ə(20), 9.66%
uʷ(19), 9.17%
iʲ(17), 8.21%
æ(16), 7.72%
eʲ(11), 5.31%
ɛ(8), ʌ(8), 3.86%
uʷ#(6), aʲ(6), 2.89%
iʲ#(5), oʷ#(5), oʷ(5), 2.41%
ʌ#(4), 1.93%
ʌ(3), 1.44%
#iʲ(2), #uʷ(2), ə#(2), a(2) .96%

Broad (397):
s(62), 15.61%
l(42), 10.57%
k(39), 9.82%
ɹ(34), 8.56%
n(23), t(23), 5.79%
g(22), 5.54%

m(21), 5.28%
 f(19), 4.78%
 t(18), 4.53%
 p(17), 4.28%
 d(12), 3.02%
 b(11), w(11), 2.77%
 ɖ(7), z(7), 1.76%
 ʃ(6), 1.51%
 j(5), 1.25%
 ʈʂ(4), r(4), h(4), 1.00%
 ʊ(2), ŋ(2) .50%

(207):
 u(28), 13.52%
 a(27), 13.04%
 ɪ(26), 12.56%
 i(24), 11.59%
 ə(22), 10.62%
 æ(18), 8.69%
 e(12), 5.79%
 o(11), a(11), 5.31%
 ɛ(9), 4.34%
 ʌ(8), 3.86%
 ʌ(7) 3.38%

604 total segments

Supra-Segments: Consonant Clusters

Consonant Cluster Total for Stressed and Unstressed Syllables and Monosyllables according to Syllable Configuration

Monosyllable Consonant Cluster Onset (all entries are word initial) (19):

#sl(8), 42.10%
 #bl(2), #spl(2) 10.52%

Monosyllable Consonant Cluster Coda (all entries are word final) (8):

st#(2) 25.00%

First Syllable Consonant Cluster Stressed Onset (all entries are word initial) (25):

#pʰl(2), #fl(2), #sp(2), #dʌ(2), #kʰl(2), #gʌ(2) 8.00%

First Syllable Consonant Cluster Stressed Coda:

First Syllable Consonant Cluster Unstressed Onset (all entries are word initial):

First Syllable Consonant Cluster Unstressed Coda:

Second Syllable Consonant Cluster Stressed Onset:

Second Syllable Consonant Cluster Stressed Coda:

Second Syllable Consonant Cluster Unstressed Onset (8):

st(2) 25.00%

Second Syllable Consonant Cluster Unstressed Coda:

Third Syllable Consonant Cluster Stressed Onset:

Third Syllable Consonant Cluster Stressed Coda:

Third Syllable Consonant Cluster Unstressed Onset (5):

st(2) 40.00%

Third Syllable Consonant Cluster Unstressed Coda:

Fourth Syllable Consonant Cluster Stressed Onset:

Fourth Syllable Consonant Cluster Stressed Coda:

Fourth Syllable Consonant Cluster Unstressed Onset:

Fourth Syllable Consonant Cluster Unstressed Coda:

Fifth Syllable Consonant Cluster Stressed Onset:

Fifth Syllable Consonant Cluster Stressed Coda:

Fifth Syllable Consonant Cluster Unstressed Onset:

Fifth Syllable Consonant Cluster Unstressed Coda:

Consonant Cluster Total for Stressed and Unstressed Onsets and Codas

Stressed Onset (26):

#p^hl(2), #fl(2), #dɹ(2), #sp(2), #k^hɹ(2), #gɹ(2) 7.69%

Stressed Coda:

Unstressed Onset (17):

st(4), 23.52%

gl(2) 11.76%

Unstressed Coda:

Consonant Cluster Total for Onsets and Codas

Onset (62):

#sl(9), 14.51%

st(4), 6.45%

#bl(3), #sm(3), #k^hɹ(3), #gɹ(3), 4.83%

#p^hl(2), #fl(2), #dɹ(2), #sp(2), #sk(2), #spl(2), gl(2) 3.22%

Coda (11):

st#(3) 27.27%

Consonant Cluster Total for Stressed and Unstressed Syllables and Monosyllables

Monosyllable Consonant Cluster (27):

#sl(8), 29.62%

#bl(2), st#(2), #spl(2) 7.40%

First Syllable Consonant Cluster Stressed (26):

#p^hl(2), #fl(2), #dɹ(2), #sp(2), #k^hɹ(2), #gɹ(2) 7.69%

First Syllable Consonant Cluster Unstressed:

Second Syllable Consonant Cluster Stressed:

Second Syllable Consonant Cluster Unstressed (8):

st(2) 25.00%

Third Syllable Consonant Cluster Stressed:

Third Syllable Consonant Cluster Unstressed (7):

st(2) 28.57%

Fourth Syllable Consonant Cluster Stressed:

Fourth Syllable Consonant Cluster Unstressed:

Fifth Syllable Consonant Cluster Stressed:

Fifth Syllable Consonant Cluster Unstressed:

Consonant Cluster Total per Syllable

First Syllable Consonant Cluster (29):

#k^hɹ(3), #gɹ(3), 10.34%

#p^hl(2), #fl(2), #dɹ(2), #sp(2), #sm(2) 6.89%

Second Syllable Consonant Cluster (9):

st(2) 22.22%

Third Syllable Consonant Cluster (7):

st(2) 28.57%

Fourth Syllable Consonant Cluster:

Fifth Syllable Consonant Cluster:

Consonant Cluster Stressed and Unstressed Total

Consonant Cluster Stressed (27):

#p^hl(2), #fl(2), #dɹ(2), #sp(2), #k^hɹ(2), #gɹ(2) 7.40%

Consonant Cluster Unstressed (19):

st(4), 21.05%

gɹ(2), gl(2) 10.52%

Consonant Cluster Total (absolute)

Narrow (73):

#sl(9), 12.32%

st(4), 5.47%

#bl(3), st#(3), #sm(3), #k^hɹ(3), #gɹ(3), 4.10%

#p^hl(2), #fl(2), #dɹ(2), #sp(2), #spl(2), #sk(2), #skɹ(2), gɹ(2), gl(2) 2.73%

Broad (73):

sl(9), 12.32%

st(8), 10.95%

gɹ(5), 6.84%

bl(3), sm(3), kɹ(3), gl(3), 4.10%

pl(2), fl(2), dɹ(2), sp(2), spl(2), sk(2), skɹ(2), kl(2), ks(2) 2.73%

73 total consonant clusters

Supra-Segments: Whole Syllables

Whole Syllable Total for Stressed and Unstressed Syllables and Monosyllables

Monosyllable Whole Syllable:

First Syllable Whole Syllable Stressed (all entries are word initial) (67):

#sæ(2) 2.98%

First Syllable Whole Syllable Unstressed (all entries are word initial) (15):

#sə(2) 13.33%

Second Syllable Whole Syllable Stressed:

Second Syllable Whole Syllable Unstressed (71):

rɪ#(2), lə(2), ɪ#(2), fə#(2) 2.81%

Third Syllable Whole Syllable Stressed:

Third Syllable Whole Syllable Unstressed:

Fourth Syllable Whole Syllable Stressed:

Fourth Syllable Whole Syllable Unstressed:

Fifth Syllable Whole Syllable Stressed:

Fifth Syllable Whole Syllable Unstressed:

Whole Syllable Total per Syllable

First Syllable Whole Syllable (all entries are word initial) (82):

#u^w(2), #sə(2), #sæ(2) 2.43%

Second Syllable Whole Syllable (82):

rɪ#(2), lə(2), ɪ#(2), fə#(2) 2.43%

Third Syllable Whole Syllable:

Fourth Syllable Whole Syllable:

Fifth Syllable Whole Syllable:

Whole Syllable Stressed and Unstressed Total

Whole Syllable Stressed (82):

#sæ(2) 2.43%

Whole Syllable Unstressed (113):

niⁱ(2), fɪ^t#, rə^t#, #sə(2), lə(2), ə^t#, kə^t#, fə^t-(2) 1.76%

Whole Syllable Total (absolute)

Narrow (227):

niⁱ(2), #u^w(2), fɪ^t#, rə^t#, #sə(2), lə(2), ə^t#, kə^t#, fə^t-(2), #sæ(2) .88%

Broad (227):

u(3), la(3), 1.32%

ɔ̃(2), ni(2), gu(2), fɪ(2), ɹo(2) bə(2), rə(2), sə(2), lə(2), ə(2), kə(2), fə(2), skɪlɪm(2), sæ(2), la(2), na(2) .88%

227 total whole syllables

Supra-Segments: Whole Words

	Syllable Receiving Stress					
	None	First	Second	Third	Fourth	Fifth
Word Length Total						
Monosyllabic: 28.07%						
Bisyllabic: 50.00%	0	92.98%/79.10%	7.01%/36.36%			
Trisyllabic: 16.66%	0	68.42%/19.40%	26.31%/45.45%	5.26%/25.00%		
Tetrasyllabic: 5.26%	0	16.66%/1.49%	33.33%/18.18%	50.00%/75.00%	0	
Pentasyllabic: 0	0	0	0	0	0	0
Stressed Syllable Total:		81.70%	13.41%	4.87%	0	0

Table Key: The “Word Length Total” column figure represents the percentage of words that is of that word length. For the cells inside the “Syllable Receiving Stress” columns, the amount on top indicates what percentage of a particular word length was stressed on that syllable. The number on the bottom indicates, for all the words that received stress on a particular syllable, what percentage of these words were of a particular word length. The “Stressed Syllable Total” row indicates what percentage of words was stressed on a particular syllable. Note that monosyllables were not analyzed as receiving stress and the “None” cell in the “Stressed Syllable Total” row is inapplicable.

For all 114 whole words there are no repeated words.

Segments

Segment Total for Stressed and Unstressed Syllables and Monosyllables according to Syllable Configuration

Monosyllable Onset (42):

#s(6), l(6), 14.28%
w(5), 11.90%
#b(4), #f(4), 9.52%
ʃ(3), 7.14%
#z(2), k(2), #w(2) 4.76%

Monosyllable Nucleus (27):

u^w(6), ɪ(6), 22.22%
i^j(3), 11.11%
#u^w(2), o^w(2), a^j(2), a(2) 7.40%

Monosyllable Coda (29):

ʃ#(8), 27.58%
s#(4), 13.79%
m#(3), t#(3), 10.34%
p#(2), m(2), f#(2), v#(2) 6.89%

First Syllable Segment Stressed Onset (71):

#w(12), 16.90%
#s(10), 14.08%
#l(7), 9.85%
#k^h(6), 8.45%
ʃ(5), 7.04%
#f(4), l(4), 5.63%
#v(3), #t^h(3), #g(3), 4.22%
#p^h(2) 2.81%

First Syllable Segment Stressed Nucleus (63):

u^w(11), 17.46%
ɪ(9), æ(9), 14.28%
i^j(8), 12.69%
a(5), 7.93%
e^j(4), 6.34%
ʌ(3), 4.76%
ʊ(2), ε(2), a^j(2) 3.17%

First Syllable Segment Stressed Coda (17):

n(3), s(3), 17.64%
p(2), m(2), f(2), ʃ(2), t(2) 11.76%

First Syllable Segment Unstressed Onset (25):

#k(3), #h(3) 12.00%
#b(2), #m(2), #f(2), l(2), #k^h(2) 8.00%

First Syllable Segment Unstressed Nucleus (25):

ə(7), 28.00%
a(4), 16.00%
o^w(2), ε(2) 8.00%

First Syllable Segment Unstressed Coda:

Second Syllable Segment Stressed Onset (20):

l(4), 20.00%
t^h(3), 15.00%

f(2), d(2), n(2), ʃ(2) 10.00%

Second Syllable Segment Stressed Nucleus (20):

a(4), 20.00%

æ(3), 15.00%

i^ɪ(2), u^w(2), ɪ(2), ε(2), ɔ(2) 10.00%

Second Syllable Segment Stressed Coda (8):

n#(3) 37.50%

Second Syllable Segment Unstressed Onset (69):

t(9), 13.04%

ʃ(6), l(6), 8.69%

v(5), z(5), 7.24%

r(4), 5.79%

p(3), m(3), f(3), n(3), s(3), k(3), 4.34%

b(2), ʈ(2), ʒ(2), g(2), w(2) 2.89%

Second Syllable Segment Unstressed Nucleus (67):

i^ɪ#(8), ɪ(8), 11.94%

a(7), 10.44%

i^ɪ(5), ə^ɪ#(5), 7.46%

ə#(4), ə(4), ə^ɪ#(4), 5.97%

ə(3), ə^ɪ(3), 4.47%

u^w#(2), ə(2), æ(2), a^ɪ#(2), a#(2) 2.98%

Second Syllable Segment Unstressed Coda (17):

n#(5), 29.41%

ʃ#(3), 17.64%

ʃ#(2), k#(2) 11.76%

Third Syllable Segment Stressed Onset:

Third Syllable Segment Stressed Nucleus:

Third Syllable Segment Stressed Coda:

Third Syllable Segment Unstressed Onset (31):

ʃ(8), 25.80%

p^h(3), f(3), s(3), l(3), 9.67%

w(2) 6.45%

Third Syllable Segment Unstressed Nucleus (28):

i^ɪ(4), i^ɪ#(4), ɪ(4), 14.28%

ə#(3), ɔ(3), 10.71%

ə(2), ə(2), a#(2) 7.14%

Third Syllable Segment Unstressed Coda (12):

ʃ#(2), ʃ#(2) 16.66%

Fourth Syllable Segment Stressed Onset:

Fourth Syllable Segment Stressed Nucleus:

Fourth Syllable Segment Stressed Coda:

Fourth Syllable Segment Unstressed Onset:

Fourth Syllable Segment Unstressed Nucleus (6):

ə(3) 50.00%

Fourth Syllable Segment Unstressed Coda (4):

s#(2) 50.00%

Fifth Syllable Segment Stressed Onset:

Fifth Syllable Segment Stressed Nucleus:

Fifth Syllable Segment Stressed Coda:

Fifth Syllable Segment Unstressed Onset:

Fifth Syllable Segment Unstressed Nucleus:

Fifth Syllable Segment Unstressed Coda:

Segment Total for Stressed and Unstressed Onsets and Codas

Stressed Onset (93):

#w(12), 12.90%
 #s(10), 10.75%
 l(9), 9.67%
 #l(7), 7.52%
 #k^h(6), 6.45%
 ɹ(5), 5.37%
 #f(4), 4.30%
 #v(3), #t^h(3), t^h(3), d(3), n(3), #g(3), 3.22%
 #p^h(2), f(2), ʃ(2), w(2) 2.15%

Stressed Coda (27):

s(4), 14.81%
 n(3), n#(3), ɹ(3), t(3), 11.11%
 p(2), m(2), f(2), s#(2) 7.40%

Unstressed Onset (133):

ɹ(15), 11.27%
 l(11), 8.27%
 t(10), 7.51%
 f(6), v(6), r(6), (6), z(6), 4.51%
 m(5), n(5), k(5), w(5), 3.75%
 p(3), p^h(3), j(3), #k(3), #h(3), 2.25%
 #b(2), b(2), #m(2), #f(2), t^h(2), tʃ(2), θ(2), ʒ(2), ʃ(2), #k^h(2), g(2), h(2) 1.50%

Unstressed Coda (37):

n#(6), 16.21%
 ʃ#(5), 13.51%
 ɹ#(4), ŋ#(4), 10.81%
 s#(3), k#(3), 8.10%
 z#(2), ɹ(2) 5.40%

Segment Total for Onsets and Codas

Onset (267):

l(26), 9.73%
 ɹ(23), 8.61%
 #s(16), 5.99%
 #w(15), 5.61%
 w(12), 4.49%
 t(11), 4.11%
 #f(10), 3.74%
 f(8), n(8), #l(8), #k^h(8), 2.99%
 v(7), z(7), k(7), 2.62%
 #b(6), m(6), r(6), s(6), 2.24%
 p(5), #t^h(5), t^h(5), 1.87%
 #m(4), d(4), ʃ(4), j(4), #h(4), 1.49%
 #p^h(3), p^h(3), #v(3), #ɹ(3), #k(3), #g(3), g(3), 1.12%
 b(2), #t(2), tʃ(2), θ(2), #z(2), ʒ(2), h(2) .74%

Coda (93):

ʃ#(13), 13.97%
 n#(9), s#(9), 9.67%
 m(5), s(5), ɹ(5), 5.37%
 n(4), ɹ#(4), t(4), t#(4), ŋ#(4), 4.30%
 p#(3), m#(3), k#(3), 3.22%
 p(2), f(2), f#(2), v#(2), t#(2), d#(2), z#(2), k(2) 2.15%

Segment Total for Stressed and Unstressed Syllables and Monosyllables

Monosyllable Segment (71):

f#(8), 11.26%
 #s(6), l(6), 8.45%
 w(5), 7.04%
 #b(4), #f(4), s#(4), 5.63%
 m#(3), ɹ(3), t#(3), k(3), 4.22%
 p#(2), m(2), f#(2), v#(2), #z(2), #w(2) 2.81%

(27):

u^w(6), ɪ(6), 22.22%
 i^j(3), 11.11%
 #u^w(2), o^w(2), a^j(2), a(2) 7.40%

First Syllable Segment Stressed (88):

#w(12), 13.63%
 #s(10), 11.36%
 ɹ(7), #l(7), 7.95%
 #k^h(6), 6.81%
 #f(4), n(4), l(4), 4.54%
 p(3), #v(3), #t^h(3), s(3), #g(3), 3.40%
 #p^h(2), m(2), f(2), t(2) 2.27%

(63):

u^w(11), 17.46%
 ɪ(9), æ(9), 14.28%
 i^j(8), 12.69%
 a(5), 7.93%
 e^j(4), 6.34%
 ʌ(3), 4.76%
 ʊ(2), ε(2), a^j(2) 3.17%

First Syllable Segment Unstressed (29):

#k(3), #h(3), 10.34%
 #b(2), #m(2), #f(2), ɹ(2), l(2), #k^h(2) 6.89%

(24):

ə(7), 29.16%
 a(4), 16.66%
 o^w(2), ε(2) 8.33%

Second Syllable Segment Stressed (28):

l(4), 14.28%
 t^h(3), n#(3), 10.71%
 f(2), d(2), n(2), f(2) 7.14%

(20):

a(4), 20.00%
 æ(3), 15.00%
 i^j(2), u^w(2), ɪ(2), ε(2), ɔ(2) 10.00%
 Second Syllable Segment Unstressed (99):

t(9), 9.09%
 ɹ(6), l(6), 6.06%
 v(5), n#(5), ʔn#(5), z(5), 5.05%
 r(4), s(4), ʔ#(4), 4.04%
 p(3), m(3), f(3), n(3), ʔn(3), f#(3), k(3), 3.03%
 b(2), tʃ(2), ʒ(2), ɹ#(2), k#(2), g(2), w(2) 2.02%

(54):

iⁱ#(8), ɪ(8), 14.81%
 a(7), 12.96%
 iⁱ(5), 9.25%
 ə#(4), ə(4), 7.40%
 ʌ(3), 5.55%
 u^w#(2), ə#(2), æ(2), aⁱ#(2), a#(2) 3.70%

Third Syllable Segment Stressed:

Third Syllable Segment Unstressed (43):

ɹ(9), 20.93%
 p^h(3), f(3), s(3), l(3), 6.97%
 ʃ#(2), ɹ#(2), w(2) 4.65%

(28):

iⁱ(4), iⁱ#(4), ɪ(4), 14.28%
 ə#(3), ɔ(3), 10.71%
 ə(2), ə#(2), a#(2) 7.14%

Fourth Syllable Segment Stressed:

Fourth Syllable Segment Unstressed (9):

s#(2) 22.22%

(6):

ə(3) 50.00%

Fifth Syllable Segment Stressed:

Fifth Syllable Segment Unstressed:

Segment Total by Syllable

First Syllable Segment (117):

#w(13), 11.11%
 #s(10), 8.54%
 ɹ(9), 7.69%
 #l(8), #k^h(8), 6.83%
 #f(6), l(6), 5.12%
 n(5), 4.27%
 #t^h(4), #h(4), 3.41%
 p(3), #m(3), m(3), #v(3), s(3), #k(3), #g(3), 2.56%
 #p^h(2), #b(2), f(2), #ɹ(2), t(2), w(2) 1.70%

(87):

u^w(12), 13.79%
 iⁱ(9), ɪ(9), æ(9), a(9), 10.34%
 ə(7), 8.04%
 eⁱ(4), 4.59%
 ʌ(3), 3.44%
 #ɪ(2), ʊ(2), o^w(2), ε(2), ε(2), ɔ(2), aⁱ(2), #a(2) 2.29%

Second Syllable Segment (127):

l(10), 7.87%
 t(9), 7.08%
 n#(8), 6.29%
 ɹ(7), 5.51%
 v(6), z(6), 4.72%
 f(5), n(5), ə#(5), 3.93%
 m(4), t^h(4), r(4), s(4), ʔ#(4), k(4), 3.14%
 p(3), d(3), ə#(3), ʃ(3), ʃ#(3), g(3), w(3), 2.36%
 b(2), tʃ(2), ʒ(2), ɹ#(2), k#(2) 1.57%

(74):
 a(11), 14.86%
 ɪ(10), 13.51%
 iⁱ#(8), 10.81%
 iⁱ(7), 9.45%
 æ(5), 6.75%
 ə#(4), ə(4), 5.40%
 ʌ(3), 4.05%
 u^w#(2), u^w(2), ə#(2), ɛ(2), ɔ(2), aⁱ#(2), a#(2) 2.70%

Third syllable Segment (47):
 ɹ(9), 19.14%
 s(4), l(4), 8.51%
 p^h(3), f(3), 6.38%
 s#(2), f#(2), ɹ#(2), w(2) 4.25%

(32):
 iⁱ#(5), ɪ(5), 15.62%
 iⁱ(4), 12.50%
 ə#(3), ɔ(3), 9.37%
 ə(2), ə#(2), a#(2) 6.25%

Fourth Syllable Segment (9):
 s#(2) 22.22%

(6):
 ə(3) 50.00%

Fifth Syllable Segment:

Segment Stressed and Unstressed Total

Stressed Segment (120):
 #w(12), 10.00%
 #s(10), 8.33%
 l(9), 7.50%
 ɹ(8), 6.66%
 #l(7), 5.83%
 n(6), #k^h(6), 5.00%
 #f(4), f(4), s(4), 3.33%
 p(3), m(3), #v(3), #t^h(3), t^h(3), d(3), n#(3), t(3), #g(3), 2.50%
 #p^h(2), s#(2), z(2), f(2), w(2) 1.66%

(87):
 u^w(13), 14.94%
 ɪ(12), æ(12), 13.79%
 iⁱ(10), 11.49%
 a(9), 10.34%
 eⁱ(5), ɛ(5), 5.74%
 ʌ(3), ɔ(3), aⁱ(3), 3.44%
 ʊ(2) 2.29%

Unstressed Segment (184):
 ɹ(17), 9.23%
 l(11), 5.97%
 t(10), 5.43%
 s(7), 3.80%
 m(6), f(6), v(6), n(6), n#(6), r(6), z(6), 3.26%
 ɹ#(5), f#(5), k(5), w(5), 2.71%
 ɹ#(4), ɹ#(4), ɹ#(4), 2.17%

p(3), p^h(3), ʔη(3), s#(3), j(3), #k(3), k#(3), #h(3), 1.63%
 #p(2), b(2), #b(2), #m(2), #f(2), t^h(2), tʃ(2), θ(2), z#(2), ʒ(2), ʃ(2), #k^h(2), g(2), h(2) 1.08%

(114):
 ə(16), 14.03%
 ɪ(14), 12.28%
 iⁱ#(13), 11.40%
 a(11), 9.64%
 iⁱ(10), 8.77%
 ə#(7), 6.14%
 ʌ(4), ə#(4), ɔ(4), a#(4), 3.50%
 aⁱ#(3), aⁱ(3), 2.63%
 u^w#(2), u^w(2), o^w(2), ε(2), æ(2) 1.75%

Segment Total (absolute)

Narrow (375):
 ɹ(28), 7.46%
 l(26), 6.93%
 #s(16), 4.26%
 #w(15), 4.00%
 ʃ#(13), 3.46%
 n(12), w(12), 3.20%
 m(11), t(11), s(11), 2.93%
 #f(10), f(10), 2.66%
 n#(9), s#(9), k(9), 2.40%
 z(8), #l(8), #k^h(8), 2.13%
 p(7), v(7), 1.86%
 #b(6), r(6), 1.60%
 #t^h(5), t^h(5), ʔη#(5), 1.33%
 #m(4), d(4), ʃ(4), ɹ#(4), ɬ(4), t#(4), j(4), η#(4), #h(4), 1.06%
 p#(3), #p^h(3), p^h(3), m#(3), #v(3), ʔη(3), #ɹ(3), #k(3), k#(3), #g(3), g(3), .80%
 #p(2), b(2), f#(2), v#(2), t#(2), #t(2), d#(2), tʃ(2), θ(2), #z(2), z#(2), ʒ(2), h(2) .53%

(228):
 ɪ(32), 14.03%
 iⁱ(23), 10.08%
 a(22), 9.64%
 u^w(21), 9.21%
 ə(16), 7.01%
 iⁱ#(14), æ(14), 6.14%
 ε(8), aⁱ(8), 3.50%
 ə#(7), ɔ(7), 3.07%
 eⁱ(6), 2.63%
 o^w(5), 2.19%
 ʌ(4), ə#(4), a#(4), 1.75%
 u^w#(3), ʊ(3), ʌ(3), aⁱ#(3), 1.31%
 #u^w(2), #ɪ(2), o^w#(2), #a(2) .87%

Broad (375):
 s(36), 9.60%
 ɹ(35), 9.33%
 l(34), 9.06%
 n(29), 7.73%
 w(28), 7.46%
 t(26), 6.93%
 f(23), k(23), 6.13%
 m(19), 5.06%
 p(18), 4.80%

ʃ(17), 4.53%
 t̪(13), 3.46%
 v(12), z(12), 3.20%
 b(8), 2.13%
 d(6), r(6), g(6), h(6), 1.60%
 j(5), 1.33%
 ŋ(4), 1.06%
 tʃ(3), .80%
 θ(2), ʒ(2) .53%

(228):
 i(38), 16.66%
 ɪ(34), 14.91%
 u(28), a(28), 12.28%
 ə(24), 10.52%
 ʌ(15), 6.57%
 æ(14), 6.14%
 o(11), 4.82%
 ɛ(9), 3.94%
 ʌ(8), 3.50%
 ɔ(7), 3.07%
 e(6), 2.63%
 ʊ(3), ʌ(3) 1.31%

603 total segments

Supra-Segments: Consonant Clusters

Consonant Cluster Total for Stressed and Unstressed Syllables and Monosyllables according to Syllable Configuration

Monosyllable Consonant Cluster Onset (all entries are word initial) (16):

#fl(3), #sw(3), 18.75%
 #sk(2) 12.50%

Monosyllable Consonant Cluster Coda (all entries are word final):

First Syllable Consonant Cluster Stressed Onset (all entries are word initial):
First Syllable Consonant Cluster Stressed Coda:

First Syllable Consonant Cluster Unstressed Onset (all entries are word initial) (4):
 #bl(2) 50.00%

First Syllable Consonant Cluster Unstressed Coda:

Second Syllable Consonant Cluster Stressed Onset:
Second Syllable Consonant Cluster Stressed Coda:

Second Syllable Consonant Cluster Unstressed Onset (4):
 tɹ(2) 50.00%

Second Syllable Consonant Cluster Unstressed Coda:

Third Syllable Consonant Cluster Stressed Onset:
Third Syllable Consonant Cluster Stressed Coda:

Third Syllable Consonant Cluster Unstressed Onset (3):
 pʰɹ(2) 66.66%

Third Syllable Consonant Cluster Unstressed Coda:

Fourth Syllable Consonant Cluster Stressed Onset:
Fourth Syllable Consonant Cluster Stressed Coda:
 Fourth Syllable Consonant Cluster Unstressed Onset:
 Fourth Syllable Consonant Cluster Unstressed Coda:

Fifth Syllable Consonant Cluster Stressed Onset:

Fifth Syllable Consonant Cluster Stressed Coda:

Fifth Syllable Consonant Cluster Unstressed Onset:

Fifth Syllable Consonant Cluster Unstressed Coda:

Consonant Cluster Total for Stressed and Unstressed Onsets and Codas

Stressed Onset:

Stressed Coda:

Unstressed Onset (10):

p^hɪ(2), #bɪ(2), tɪ(2) 20.00%

Unstressed Coda:

Consonant Cluster Total for Onsets and Codas

Onset (39):

#fl(4), #sw(4), 10.25%

#bɪ(3), 7.69%

p^hɪ(2), #fɪ(2), tɪ(2), #sk(2) 5.12%

Coda:

Consonant Cluster Total for Stressed and Unstressed Syllables and Monosyllables

Monosyllable Consonant Cluster (20):

#fl(3), #sw(3), 15.00%

#sk(2) 10.00%

First Syllable Consonant Cluster Stressed:

First Syllable Consonant Cluster Unstressed (4):

#bɪ(2) 50.00%

Second Syllable Consonant Cluster Stressed:

Second Syllable Consonant Cluster Unstressed (6):

tɪ(2) 33.33%

Third Syllable Consonant Cluster Stressed:

Third Syllable Consonant Cluster Unstressed (4):

p^hɪ(2) 50.00%

Fourth Syllable Consonant Cluster Stressed:

Fourth Syllable Consonant Cluster Unstressed:

Fifth Syllable Consonant Cluster Stressed:

Fifth Syllable Consonant Cluster Unstressed:

Consonant Cluster Total per Syllable

First Syllable Consonant Cluster (15):

#bɪ(2) 13.33%

Second Syllable Consonant Cluster (8):

tɪ(2) 25.00%

Third Syllable Consonant Cluster (4):

p^hɪ(2) 50.00%

Fourth Syllable Consonant Cluster:

Fifth Syllable Consonant Cluster:

Consonant Cluster Stressed and Unstressed Total

Consonant Cluster Stressed:

Consonant Cluster Unstressed (15):
p^hɪ(2), #bl(2), tɪ(2) 13.33%

Consonant Cluster Total (absolute)

Narrow (48):
#fl(4), #sw(4), 8.33%
#bl(3), 6.25%
p^hɪ(2), #fɪ(2), tɪ(2), #sk(2) 4.16%

Broad (48):
fl(4), sw(4), 8.33%
pɪ(3), bl(3), tɪ(3), kl(3), 6.25%
fɪ(2), sk(2) 4.16%

48 total consonant clusters

Supra-Segments: Whole Syllables

Whole Syllable Total for Stressed and Unstressed Syllables and Monosyllables

Monosyllable Whole Syllable:

First Syllable Whole Syllable Stressed (all entries are word initial) (62):

#wu^w(4), 6.45%
#wɪ(3), 4.83%
#siⁱ(2), #wɑ(2) 3.22%

First Syllable Whole Syllable Unstressed (all entries are word initial) (25):

#kə(4) 16.00%

Second Syllable Whole Syllable Stressed:

Second Syllable Whole Syllable Unstressed (66):

ziⁱ#(2), p^hɪ#(2), t^əŋ#(2) 3.03%

Third Syllable Whole Syllable Stressed:

Third Syllable Whole Syllable Unstressed (28):

p^hɪiⁱ#(2) 7.14%

Fourth Syllable Whole Syllable Stressed:

Fourth Syllable Whole Syllable Unstressed (6):

əs#(2) 33.33%

Fifth Syllable Whole Syllable Stressed:

Fifth Syllable Whole Syllable Unstressed:

Whole Syllable Total per Syllable

First Syllable Whole Syllable (all entries are word initial) (87):

#wu^w(4), #kə(4), 4.59%
#wɪ(3), #wɑ(3), 3.44%
#siⁱ(2), #fɛ(2) 2.29%

Second Syllable Whole Syllable (87):

ziⁱ#(2), t^əŋ#(2) 2.29%

Third Syllable Whole Syllable (32):

p^hɪiⁱ#(2) 6.25%

Fourth Syllable Whole Syllable (6):

əs#(2) 33.33%

Fifth Syllable Whole Syllable:

Whole Syllable Stressed and Unstressed Total

Whole Syllable Stressed (87):

#wu^w(4), 4.59%

#wɪ(3), 3.44%

#siⁱ(2), #wa(2) 2.29%

Whole Syllable Unstressed (127):

#kə(4), 3.14%

p^hɹiⁱ#(2), viⁱ(2), ziⁱ#(2), ɹiⁱ(2), əs#(2), p^h#(2), t^hɹ#(2), ha#(2) 1.57%

Whole Syllable Total (absolute)

Narrow (241):

#wu^w(4), #kə(4), 1.65%

#siⁱ(3), #wɪ(3), #wa(3), 1.24%

p^hɹiⁱ#(2), viⁱ(2), ziⁱ#(2), ɹiⁱ(2), leⁱ(2), əs#(2), p^h#(2), t^hɹ#(2), #fɛ(2), ha#(2) .82%

Broad (241):

kə(5), 2.07%

ɹi(4), wu(4), wa(4), 1.65%

vi(3), si(3), lu(3), wɪ(3), le(3), 1.24%

pɹi(2), zi(2), li(2), o(2), əs(2), p^h(2), nə(2), lə(2), sə(2), fɛ(2), mə(2), a(2) ma(2), la(2), ha(2) .82%

241 total whole syllables

Supra-Segments: Whole Words

	Syllable Receiving Stress					
	None	First	Second	Third	Fourth	Fifth
Word Length Total						
Monosyllabic: 23.68%						
Bisyllabic: 48.24%	0	90.90%/80.64%	9.09%/23.80%			
Trisyllabic: 22.80%	0	42.30%/17.74%	46.15%/57.14%	11.53%/75.00%		
Tetrasyllabic: 3.50%	0	25.00%/1.61%	75.00%/14.28%	0	0	
Pentasyllabic: 1.75%	0	0	50.00%/4.76%	50.00%/25.00%	0	0
Stressed Syllable Total:		71.26%	24.13%	4.59%	0	0

Table Key: The “Word Length Total” column figure represents the percentage of words that is of that word length. For the cells inside the “Syllable Receiving Stress” columns, the amount on top indicates what percentage of a particular word length was stressed on that syllable. The number on the bottom indicates, for all the words that received stress on a particular syllable, what percentage of these words were of a particular word length. The “Stressed Syllable Total” row indicates what percentage of words was stressed on a particular syllable. Note that monosyllables were not analyzed as receiving stress and the “None” cell in the “Stressed Syllable Total” row is inapplicable.

For all 114 whole words there are no repeated words.

Question ID: V. the feeling experienced by a death-row inmate after being pardoned or exonerated

Segments

Segment Total for Stressed and Unstressed Syllables and Monosyllables according to Syllable Configuration

Monosyllable Onset (18):

#w(5), 27.77%

#f(2), ɹ(2), #g(2) 11.11%

Monosyllable Nucleus (17):

i^ɪ(3), ʌ(3), 17.64%

ɪ(2) 11.76%

Monosyllable Coda (25):

m#(3), t#(3), 12.00%

f#(2), s#(2), t(2), t#(2), h#(2) 8.00%

First Syllable Segment Stressed Onset (68):

ɹ(7), 10.29%

l(6), #g(6), 8.82%

#w(4), 5.88%

#p^h(3), p(3), #b(3), #m(3), #f(3), #t^h(3), #s(3), #j(3), #k^h(3), 4.41%

#v(2), #d(2), #n(2), #z(2), #ɹ(2), #l(2), #h(2) 2.94%

First Syllable Segment Stressed Nucleus (63):

ɪ(14), 22.22%

æ(11), 17.46%

a(10), 15.87%

#a(7), 11.11%

i^ɪ(6), 9.52%a^ʊ(3), 4.76%

ɛ(2), #æ(2) 3.17%

First Syllable Segment Stressed Coda (25):

n(8), 32.00%

t(4), k(4), 16.00%

m(2), s(2), ɹ(2) 8.00%

First Syllable Segment Unstressed Onset (26):

#f(3), #k(3), 11.53%

#p^h(2), #d(2), #dʒ(2), #ɹ(2), l(2) 7.69%

First Syllable Segment Unstressed Nucleus (34):

ə(6), 17.64%

æ(5), 14.70%

ɪ(3), #ɛ(3), 8.82%

i^ɪ(2), ə(2), #a(2) 5.88%

First Syllable Segment Unstressed Coda (12):

k(4), 33.33%

m(2), s(2) 16.66%

Second Syllable Segment Stressed Onset (38):

s(6), 15.78%

t(4), l(4), 10.52%

b(3), n(3), 7.89%

p^h(2), z(2), ɹ(2), j(2), k^h(2), g(2) 5.26%**Second Syllable Segment Stressed Nucleus (28):**

æ(8), 28.57%

ɛ(5), 17.85%

u^w(3), ɪ(3), 10.71%
ɔ(2) 7.14%

Second Syllable Segment Stressed Coda (18):

n[#](2), n(2), ʃ(2), t(2), t[#](2) 11.11%

Second Syllable Segment Unstressed Onset (77):

s(13), 16.88%
f(7), t(7), l(7), 9.09%
b(6), 7.79%
n(5), ɹ(5), 6.49%
w(4), 5.19%
m(3), d(3), k(3), g(3), 3.89%
p(2), r(2), z(2) 2.59%

Second Syllable Segment Unstressed Nucleus (69):

ə(13), 18.84%
ɪ(9), 13.04%
iⁱ#(7), ə(7), 10.14%
əŋ[#](5), a(5), 7.24%
əŋ(4), 5.79%
ɛ̃(3), ɛ(3), 4.34%
iⁱ(2), o^w#(2), a[#](2) 2.89%

Second Syllable Segment Unstressed Coda (22):

d[#](5), 22.72%
s[#](4), 18.18%
n[#](3), 13.63%
t[#](2), n(2), ʃ[#](2) 9.09%

Third Syllable Segment Stressed Onset (7):

f(2) 28.57%

Third Syllable Segment Stressed Nucleus (6):

iⁱ(2) 33.33%

Third Syllable Segment Stressed Coda:

Third Syllable Segment Unstressed Onset (41):

t(8), 19.51%
ɹ(6), 14.63%
m(4), s(4), 9.75%
n(3), g(3), 7.31%
b(2), ʃ(2) 4.87%

Third Syllable Segment Unstressed Nucleus (40):

ɪ(8), 20.00%
ə(5), 12.50%
əŋ[#](4), 10.00%
iⁱ(2), eⁱ#(2), ɛ̃[#](2) 5.00%

Third Syllable Segment Unstressed Coda (18):

s[#](4), 22.22%
t[#](3), 16.66%
k[#](2) 11.11%

Fourth Syllable Segment Stressed Onset:

Fourth Syllable Segment Stressed Nucleus (2):

eⁱ(2) 100%

Fourth Syllable Segment Stressed Coda:

Fourth Syllable Segment Unstressed Onset (9):
m(2), f(2), ɹ(2) 22.22%

Fourth Syllable Segment Unstressed Nucleus (10):
ə(3), 30.00%
aː(2) 20.00%

Fourth Syllable Segment Unstressed Coda (7):
s#(3) 42.85%

Fifth Syllable Segment Stressed Onset:
Fifth Syllable Segment Stressed Nucleus:
Fifth Syllable Segment Stressed Coda:

Fifth Syllable Segment Unstressed Onset (2):
f(2) 100%

Fifth Syllable Segment Unstressed Nucleus (2):
əŋ#(2) 100%

Fifth Syllable Segment Unstressed Coda:

Segment Total for Stressed and Unstressed Onsets and Codas

Stressed Onset (114):
l(12), 10.52%
ɹ(10), 8.77%
#g(6), s(6), 5.26%
n(5), 4.38%
p(4), t(4), #w(4), 3.50%
#pʰ(3), b(3), #b(3), #m(3), #f(3), f(3), #tʰ(3), #s(3), #j(3), #kʰ(3), kʰ(3), 2.63%
pʰ(2), #v(2), #d(2), #n(2), #z(2), z(2), #ɹ(2), #l(2), j(2), g(2), w(2), #h(2) 1.75%

Stressed Coda (45):
n(10), 22.22%
t(6), 13.33%
k(5), 11.11%
f(4), 8.88%
m(3), t#(3), 6.66%
n#(2), s(2), ɹ(2) 4.44%

Unstressed Onset (155):
s(17), 10.96%
t(16), 10.32%
ɹ(14), 9.03%
l(11), 7.09%
m(9), 5.80%
b(8), f(8), n(8), 5.16%
f(7), g(7), 4.51%
w(5), 3.22%
d(4), 2.58%
p(3), #f(3), #k(3), k(3), 1.93%
#pʰ(2), #d(2), #dʒ(2), dʒ(2), r(2), θ(2), z(2), #ɹ(2), j(2) 1.29%

Unstressed Coda (59):
s#(11), 18.64%
t#(7), 11.86%
d#(6), 10.16%
n#(5), k(5), 8.47%
n(3), 5.08%
m(2), n(2), s(2), f#(2), ɹ(2), k#(2) 3.38%

Segment Total for Onsets and Codas

Onset (287):

ɹ(26), 9.05%
s(23), l(23), 8.01%
t(20), 6.96%
n(13), 4.52%
b(11), f(11), 3.83%
m(10), #w(10), 3.48%
g(9), 3.13%
#f(8), #g(8), 2.78%
p(7), ʃ(7), w(7), 2.43%
#p^h(5), d(5), 1.74%
#b(4), #m(4), #t^h(4), #d(4), #s(4), #z(4), z(4), #ɹ(4), #j(4), j(4), #k^h(4), 1.39%
#v(3), #ɟ(3), #k(3), k(3), k^h(3), #h(3), 1.04%
p^h(2), ɟ(2), #n(2), r(2), θ(2), #ʃ(2), #l(2) .69%

Coda (129):

s#(14), 10.85%
n(12), 9.30%
t#(11), k(11), 8.52%
t(9), 6.97%
n#(7), 5.42%
m(6), d#(6), t#(6), 4.65%
ʃ(5), ɹ(5), 3.87%
s(4), 3.10%
m#(3), f#(3), n(3), ʃ#(3), k#(3), 2.32%
p(2), f(2), z#(2), h#(2) 1.55%

Segment Total for Stressed and Unstressed Syllables and Monosyllables

Monosyllable Segment (43):

#w(5), 11.62%
m#(3), t#(3), ɹ(3), 6.97%
#f(2), f#(2), s#(2), t(2), t#(2), #g(2), h#(2) 4.65%

(17):

i^j(3), ʌ(3), 17.64%
ɪ(2) 11.76%

First Syllable Segment Stressed (93):

ɹ(9), 9.67%
n(8), 8.60%
l(6), #g(6), 6.45%
t(4), k(4), #w(4), 4.30%
#p^h(3), p(3), #b(3), #m(3), m(3), #f(3), #t^h(3), #s(3), #j(3), #k^h(3), 3.22%
#v(2), #d(2), #n(2), s(2), #z(2), #ɹ(2), #l(2), #h(2) 2.15%

(63):

ɪ(14), 22.22%
æ(11), 17.46%
a(10), 15.87%
#a(7), 11.11%
i^j(6), 9.52%
a^w(3), 4.76%
ɛ(2), #æ(2) 3.17%

First Syllable Segment Unstressed (38):

k(4), 10.52%
#f(3), #k(3), 7.89%
#p^h(2), m(2), #d(2), #ɟ(2), s(2), #ɹ(2), ɹ(2), l(2) 5.26%

(34):
ə(6), 17.64%
æ(5), 14.70%
ɪ(3), #ɛ(3), 8.82%
i^j(2), ə(2), #a(2) 5.88%

Second Syllable Segment Stressed (56):

s(6), 10.71%
n(5), 8.92%
t(4), l(4), 7.14%
b(3), z(3), 5.35%
p^h(2), n#(2), f(2), ɹ(2), t(2), t#(2), j(2), k^h(2), g(2) 3.57%

(28):

æ(8), 28.57%
ɛ(5), 17.85%
u^w(3), ɪ(3), 10.71%
ɔ(2) 7.14%

Second Syllable Segment Unstressed (113):

s(13), 11.50%
f(7), t(7), n(7), l(7), 6.19%
b(6), ɹ(6), 5.30%
d#(5), əŋ#(5), 4.42%
əŋ(4), s#(4), w(4), 3.53%
p(3), m(3), d(3), n#(3), ɹ̥(3), k(3), g(3), 2.65%
t#(2), r(2), z(2), f#(2) 1.76%

(55):

ə(13), 23.63%
ɪ(9), 16.36%
i^j#(7), ə(7), 12.72%
a(5), 9.09%
ɛ(3), 5.45%
i^j(2), o^w#(2), a#(2) 3.63%

Third Syllable Segment Stressed (9):

f(2) 22.22%

(6):

i^j(2) 33.33%

Third Syllable Segment Unstressed (66):

t(8), 12.12%
ɹ(6), 9.09%
m(4), n(4), əŋ#(4), s(4), s#(4), 6.06%
t#(3), f(3), g(3), 4.54%
b(2), ɹ̥t#(2), k#(2) 3.03%

(33):

ɪ(8), 24.24%
ə(5), 15.15%
i^j(2), eⁱ#(2) 6.06%

Fourth Syllable Segment Stressed:

(2):
eⁱ(2) 100%

Fourth Syllable Segment Unstressed (16):

s#(3), 18.75%

m(2), t#(2), f(2), ɹ(2) 12.50%

(10):

ə(3), 30.00%

aⁱ(2) 20.00%

Fifth Syllable Segment Stressed:

Fifth Syllable Segment Unstressed (4):

əŋ#(2), f(2) 50.00%

Segment Total by Syllable

First Syllable Segment (131):

ɹ(11), 8.39%

n(9), 6.87%

l(8), k(8), 6.10%

#f(6), #g(6), 4.58%

#p^h(5), m(5), t(5), #w(5), 3.81%

#m(4), #d(4), #s(4), s(4), #ɹ(4), #k^h(4), 3.05%

p(3), #b(3), #v(3), #t^h(3), #z(3), #j(3), #k(3), 2.29%

#dʒ(2), #n(2), #l(2), #h(2) 1.52%

(97):

ɪ(17), 17.52%

æ(16), 16.49%

a(11), 11.34%

#a(9), 9.27%

iⁱ(8), 8.24%

ə(6), 6.18%

#ε(4), 4.12%

ε(3), #æ(3), a^w(3), 3.095

u^w(2), ə(2), #aⁱ(2) 2.06%

Second Syllable Segment (169):

s(19), 11.24%

n(12), 7.10%

t(11), l(11), 6.50%

b(9), 5.32%

f(8), ɹ(8), 4.73%

d#(5), n#(5), əŋ#(5), s#(5), z(5), g(5), 2.95%

p(4), m(4), d(4), əŋ(4), k(4), w(4), 2.36%

t#(3), f(3), ət(3), j(3), 1.77%

p^h(2), r(2), f#(2), t(2), t#(2), k^h(2) 1.18%

(83):

ə(13), 15.66%

ɪ(12), 14.45%

ε(8), æ(8), 9.63%

iⁱ#(7), ə(7), 8.43%

a(5), 6.02%

u^w(4), 4.81%

iⁱ(3), 3.61%

o^w#(2), o^w(2), ɔ(2), a#(2) 2.40%

Third syllable Segment (75):

t(8), 10.66%

ɹ(7), 9.33%

n(5), 6.66%

m(4), əŋ#(4), s(4), s#(4), f(4), 5.33%

f(3), t#(3), g(3), 4.00%

b(2), l(2), ɸ(2), k(2), w(2) 2.66%

(39):

ɪ(8), 20.51%

ə(5), 12.82%

i^j(4), 10.25%

u^w(2), e^l(2), a(2) 5.12%

Fourth Syllable Segment (19):

s#(3), 15.78%

m(2), t#(2), n(2), f(2), ɹ(2), l(2) 10.52%

(11):

ə(3), 27.27%

eⁱ(2) a^j(2) 18.18%

Fifth Syllable Segment (4):

ɸ#(2), f(2) 50.00%

Segment Stressed and Unstressed Total

Stressed Segment (158):

n(15), 9.49%

ɹ(12), l(12), 7.59%

s(8), 5.06%

t(6), #g(6), 3.79%

k(5), 3.16%

p(4), m(4), f(4), t(4), f(4), #w(4), 2.53%

#p^h(3), b(3), #b(3), #m(3), #f(3), #t^h(3), #s(3), z(3), #j(3), #k^h(3), k^h(3), 1.89%

p^h(2), #v(2), #d(2), #n(2), n#(2), #z(2), #ɹ(2), #l(2), j(2), g(2), w(2), #h(2) 1.26%

(99):

æ(19), 19.19%

ɪ(17), 17.17%

a(11), 11.11%

i^j(9), 9.09%

ɛ(7), #a(7), 7.07%

u^w(5), 5.05%

eⁱ(4), 4.04%

a^w(3), 3.03%

ʊ(2), o^w(2), ʌ(2), ɔ(2), #æ(2) 2.02%

Unstressed Segment (238):

s(19), 7.98%

t(16), ɹ(16), 6.72%

n(13), 5.46%

ɸ#(12), 5.04%

m(11), s#(11), l(11), 4.62%

b(8), f(8), f(8), k(8), g(8), 3.36%

t#(7), 2.94%

d#(6), 2.52%

n#(5), ɸ(5), w(5), 2.10%

p(4), d(4), 1.68%

#f(3), ɸ(3), ɸ#(3), #k(3), 1.26%

#p^h(2), #d(2), d(2), #d(2), r(2), θ(2), z(2), f#(2), #ɹ(2), j(2), k#(2) .84%

(130):

ə(27), 20.76%

ɪ(21), 16.15%

ʌ(10), 7.69%
 i^j#(9), 6.92%
 a(7), 5.38%
 i^j(6), 4.61%
 ɛ(5), æ(5), 3.84%
 a#(4), 3.07%
 u^w(3), o^w#(3), #ɛ(3), aⁱ(3), 2.30%
 eⁱ#(2), ʌ#(2), ɔ(2), #a(2) 1.53%

Segment Total (absolute)

Narrow (439):

ɹ(31), 7.06%
 n(28), 6.37%
 s(27), 6.15%
 l(23), 5.23%
 t(20), 4.55%
 m(16), 3.64%
 s#(14), k(14), 3.18%
 f(13), 2.96%
 b(12), ʌ#(12), ʃ(12), 2.73%
 t#(11), 2.50%
 g(10), #w(10), 2.27%
 p(9), ʈ(9), 2.05%
 #f(8), #g(8), 1.82%
 n#(7), w(7), 1.59%
 d#(6), 1.36%
 #p^h(5), d(5), ʌ#(5), z(5), 1.13%
 #b(4), #m(4), #t^h(4), #d(4), #s(4), #z(4), #ɹ(4), ʈ#(4), j(4), #j(4), #k^h(4), .91%
 m#(3), f#(3), #v(3), #dʒ(3), ʃ#(3), ʈ#(3), ʈ#(3), k^h(3), #k(3), k#(3), #h(3), .68%
 p^h(2), ʈf(2), dʒ(2), #n(2), r(2), θ(2), z#(2), #f(2), #l(2), h#(2) .45%

(246):

ɹ(40), 16.26%
 ʌ(27), 10.97%
 æ(24), 9.75%
 a(19), 7.72%
 i^j(18), 7.31%
 ɛ(12), 4.87%
 ʌ(10), 4.06%
 i^j#(9), u^w(9), #a(9), 3.65%
 ʌ(5), 2.03%
 eⁱ(4), #ɛ(4), ɔ(4), a^w(4), aⁱ(4), a#(4), 1.62%
 ʊ(3), o^w#(3), o^w(3), #æ(3), 1.21%
 u^w#(2), eⁱ#(2), ʌ#(2), ʌ#(2), #aⁱ(2) .81%

Broad (439):

n(54), 12.30%
 s(45), 10.25%
 t(38), 8.65%
 ɹ(35), 7.97%
 k(28), 6.37%
 l(25), 5.69%
 m(24), f(24), 5.46%
 ʈ(19), g(19), 4.32%
 p(17), d(17), ʃ(17), w(17), 3.87%
 b(16), 3.64%
 z(11), 2.50%

j(8), 1.82%
h(6), 1.36%
ɔ̃(5), 1.13%
v(4), .91%
θ(3), .68%
tʃ(2), r(2) .45%

(246):
ɪ(42), 17.07%
ɑ(34), 13.82%
i(30), ə(30), 12.19%
æ(28), 11.38%
ɛ(17), 6.91%
u(13), ʌ(13), a(13), 5.28%
e(7), 2.84%
o(6), 2.43%
ʌ(5), ɔ(5), 2.03%
ʊ(3) 1.21%

685 total segments

Supra-Segments: Consonant Clusters

Consonant Cluster Total for Stressed and Unstressed Syllables and Monosyllables according to Syllable Configuration

Monosyllable Consonant Cluster Onset (all entries are word initial) (3):
#gɪ(3) 100%

Monosyllable Consonant Cluster Coda (all entries are word final):

First Syllable Consonant Cluster Stressed Onset (all entries are word initial) (13):
#gɪ(2) 15.38%

First Syllable Consonant Cluster Stressed Coda:

First Syllable Consonant Cluster Unstressed Onset (all entries are word initial):
First Syllable Consonant Cluster Unstressed Coda:

Second Syllable Consonant Cluster Stressed Onset (9):
st(2) 22.22%

Second Syllable Consonant Cluster Stressed Coda:

Second Syllable Consonant Cluster Unstressed Onset (7):
st(2) 28.57%

Second Syllable Consonant Cluster Unstressed Coda:

Third Syllable Consonant Cluster Stressed Onset:
Third Syllable Consonant Cluster Stressed Coda:

Third Syllable Consonant Cluster Unstressed Onset (4):
st(3) 75.00%

Third Syllable Consonant Cluster Unstressed Coda:

Fourth Syllable Consonant Cluster Stressed Onset:
Fourth Syllable Consonant Cluster Stressed Coda:

Fourth Syllable Consonant Cluster Unstressed Onset:
Fourth Syllable Consonant Cluster Unstressed Coda:

Fifth Syllable Consonant Cluster Stressed Onset:
Fifth Syllable Consonant Cluster Stressed Coda:
Fifth Syllable Consonant Cluster Unstressed Onset:
Fifth Syllable Consonant Cluster Unstressed Coda:

Consonant Cluster Total for Stressed and Unstressed Onsets and Codas

Stressed Onset (24):

fl(2), st(2), #gɹ(2) 8.33%

Stressed Coda:

Unstressed Onset (15):

st(5) 33.33%

Unstressed Coda (8):

nt#(3) 37.50%

Consonant Cluster Total for Onsets and Codas

Onset (42):

st(7), 16.66%

#gɹ(5), 11.90%

fl(3), 7.14%

#fɹ(2), #fl(2), #vl(2), sn(2) 4.76%

Coda (18):

nt#(3), 16.66%

ft#(2), ks#(2) 11.11%

Consonant Cluster Total for Stressed and Unstressed Syllables and Monosyllables

Monosyllable Consonant Cluster (12):

#gɹ(3) 25.00%

First Syllable Consonant Cluster Stressed (13):

#gɹ(2) 15.38%

First Syllable Consonant Cluster Unstressed:

Second Syllable Consonant Cluster Stressed (10):

st(2) 20.00%

Second Syllable Consonant Cluster Unstressed (10):

st(2) 20.00%

Third Syllable Consonant Cluster Stressed:

Third Syllable Consonant Cluster Unstressed (7):

st(3) 42.85%

Fourth Syllable Consonant Cluster Stressed:

Fourth Syllable Consonant Cluster Unstressed:

Fifth Syllable Consonant Cluster Stressed:

Fifth Syllable Consonant Cluster Unstressed:

Consonant Cluster Total per Syllable

First Syllable Consonant Cluster (18):

#fɹ(2), #fl(2), #vl(2), #gɹ(2) 11.11%

Second Syllable Consonant Cluster (20):

fl(2), st(2), sn(2), st(2) 10.00%

Third Syllable Consonant Cluster (9):

st(3) 33.33%

Fourth Syllable Consonant Cluster:

Fifth Syllable Consonant Cluster:

Consonant Cluster Stressed and Unstressed Total**Consonant Cluster Stressed (25):**

fl(2), st(2), #gɹ(2) 8.00%

Consonant Cluster Unstressed (23):

st(5), 21.73%

ŋt#(2) 8.69%

Consonant Cluster Total (absolute)

Narrow (60):

st(7), 11.66%

#gɹ(5), 8.33%

fl(3), 5.00%

#fɹ(2), #fl(2), #vl(2), ŋt#(2), sn(2), ft#(2), ks#(2) 3.33%

Broad (60):

st(7), 11.66%

gɹ(6), 10.00%

fl(5), 8.33%

nt(3), ks(3), kɹ(3), 5.00%

fɹ(2), vl(2), sp(2), sn(2), ft(2) 3.33%

60 total consonant clusters

Supra-Segments: Whole Syllables

Whole Syllable Total for Stressed and Unstressed Syllables and Monosyllables

Monosyllable Whole Syllable:

First Syllable Whole Syllable Stressed (all entries are word initial) (61):

#a(3), 4.91%

#dɪn(2), #æ(2), #aʔ(2) 3.27%

First Syllable Whole Syllable Unstressed (all entries are word initial) (36):

#ɹiʔ(2), #ɛk(2) 5.55%

Second Syllable Whole Syllable Stressed:

Second Syllable Whole Syllable Unstressed (69):

liʔ#(2), də(2), nə(2), sʰŋ#(2), fə(2) 2.89%

Third Syllable Whole Syllable Stressed:

Third Syllable Whole Syllable Unstressed:

Fourth Syllable Whole Syllable Stressed:

Fourth Syllable Whole Syllable Unstressed:

Fifth Syllable Whole Syllable Stressed:

Fifth Syllable Whole Syllable Unstressed (2):

fʰŋ#(2) 100%

Whole Syllable Total per Syllable

First Syllable Whole Syllable (all entries are word initial) (97):

#ɹiʔ(3), #ɛk(3), #æ(3), #a(3), #aʔ(3), 3.09%

#dɪn(2), #flæ(2), #aʔ(2) 2.06%

Second Syllable Whole Syllable (97):

liʔ#(2), də(2), nə(2), sʰŋ#(2), fə(2) 2.06%

Third Syllable Whole Syllable:

Fourth Syllable Whole Syllable:

Fifth Syllable Whole Syllable (2):

fʰŋ#(2) 100%

Whole Syllable Stressed and Unstressed Total

Whole Syllable Stressed (97):

#a(3), 3.09%

#dɪn(2), #æ(2), #aʔ(2) 2.06%

Whole Syllable Unstressed (157):

ʃəŋ#(4), 2.54%

mɪnt#(3), 1.91%

miʔ(2), #ɪʔ(2), ɪʔ#(2), liʔ#(2), pə(2), də(2), nə(2), səŋ#(2), ʃəs#(2) fə(2), #ɛk(2), tɑ#(2) 1.27%

Whole Syllable Total (absolute)

Narrow (270):

ʃəŋ#(4), #a(4), 1.48%

#ɪʔ(3), mɪnt#(3), #ɛk(3), #æ(3), #aʔ(3), 1.11%

miʔ(2), ɪʔ#(2), liʔ#(2), #dɪn(2), pə(2), də(2), nə(2), səŋ#(2), ʃəs#(2) fə(2), #flæ(2), #aʔ(2), tɑ#(2) .74%

Broad (270):

ɪi(5), 1.85%

li(4), ʃəŋ(4), a(4), 1.48%

mi(3), mɪnt(3), pə(3), nə(3), fə(3), ɛk(3), æ(3), aʔ(3), 1.11%

kɪi(2), dɪn(2), wʊf(2), e(2), ə(2), bəʔ(2), də(2), dʒə(2), səŋ(2), zə(2), ʃəs(2) ɪə(2), kə(2), sə(2), flæ(2), kə(2), a(2), tɑ(2), na(2), ga(2) .74%

270 total whole syllables

Supra-Segments: Whole Words

	Syllable Receiving Stress					
	None	First	Second	Third	Fourth	Fifth
Word Length Total						
Monosyllabic: 14.91%						
Bisyllabic: 45.61%	0	80.76%/68.85%	19.23%/35.71%			
Trisyllabic: 28.94%	0	54.54%/29.50%	39.39%/46.42%	6.06%/33.33%		
Tetrasyllabic: 6.94%	0	10.00%/1.63%	50.00%/17.85%	40.00%/66.66%	0	
Pentasyllabic: 1.75%	0	0	0	0	100%/100%	0
Stressed Syllable Total:		62.88%	28.86%	6.18%	2.06%	0

Table Key: The “Word Length Total” column figure represents the percentage of words that is of that word length. For the cells inside the “Syllable Receiving Stress” columns, the amount on top indicates what percentage of a particular word length was stressed on that syllable. The number on the bottom indicates, for all the words that received stress on a particular syllable, what percentage of these words were of a particular word length. The “Stressed Syllable Total” row indicates what percentage of words was stressed on a particular syllable. Note that monosyllables were not analyzed as receiving stress and the “None” cell in the “Stressed Syllable Total” row is inapplicable.

For all 114 whole words there are no repeated words

Segments**Segment Total for Stressed and Unstressed Syllables and Monosyllables according to Syllable Configuration****Monosyllable Onset (29):**

#b(4), ɹ(4), 13.79%
 #f(3), l(3), 10.34%
 #z(2), #l(2), #k^h(2), #g(2) 6.89%

Monosyllable Nucleus (20):

o^w(3), ʌ(3), a(3), 15.00%
 ɔ(2), #a(2) 10.00%

Monosyllable Coda (31):

d#(4), 12.90%
 ɹ(3), 9.67%
 m#(2), f#(2), t#(2), n(2), k#(2), h#(2) 6.45%

First Syllable Segment Stressed Onset (70):

#d(10), 14.28%
 #s(9), 12.85%
 #b(5), #m(5), ɹ(5), 7.14%
 #f(4), #k^h(4), 5.71%
 #t^h(3), #ɹ(3), #l(3), #g(3), #w(3), 4.28%
 #p^h(2), #f(2) 2.85%

First Syllable Segment Stressed Nucleus (63):

æ(13), 20.63%
 a(10), 15.87%
 u^w(7), ɪ(7), 11.11%
 i^j(6), 9.52%
 ɛ(4), 6.34%
 o^w(3), ʌ(3), 4.76%
 ʊ(2), ʌ(2), ɔ(2) 3.17%

First Syllable Segment Stressed Coda (26):

m(6), 23.07%
 n(4), ɹ(4), 15.38%
 p(2), t(2), g(2) 7.69%

First Syllable Segment Unstressed Onset (17):

#d(3), 17.64%
 #p^h(2), #m(2), #f(2), #s(2), #h(2) 11.76%

First Syllable Segment Unstressed Nucleus (25):

ə(6), 24.00%
 #a(3), 12.00%
 i^j(2), ɪ(2), #ə(2), æ(2) 8.00%

First Syllable Segment Unstressed Coda (3):

n(2) 66.66%

Second Syllable Segment Stressed Onset (22):

ɹ(5), 22.72%
 l(3), 13.63%
 t^h(2), d(2), s(2), k^h(2) 9.09%

Second Syllable Segment Stressed Nucleus (20):

æ(5), 25.00%

eⁱ(2), o^w(2), ε(2), a(2) 10.00%

Second Syllable Segment Stressed Coda (12):

d#(3), 25.00%

n(2) 16.66%

Second Syllable Segment Unstressed Onset (72):

n(9), 12.50%

t(7), k(7), 9.72%

b(6), s(6), g(6), 8.33%

d(5), ɹ(5), l(5), 6.94%

m(3), f(3), r(3), 4.16%

p(2), z(2) 2.77%

Second Syllable Segment Unstressed Nucleus (68):

ɪ(13), 19.11%

ə(10), 14.70%

ɑ(7), 10.29%

o^w#(6), 8.82%

ə#(5), 7.35%

ɹŋ(3), ɹɹ#(3), ɹŋ#(3), 4.41%

iⁱ#(2), ɹŋ#(2) 2.94%

Second Syllable Segment Unstressed Coda (34):

s#(7), 20.58%

n#(5), 14.70%

t#(4), 11.76%

d#(2), s(2), ɹ(2), ɹ#(2), k(2) 5.88%

Third Syllable Segment Stressed Onset:

Third Syllable Segment Stressed Nucleus:

Third Syllable Segment Stressed Coda:

Third Syllable Segment Unstressed Onset (28):

ɹ(4), 14.28%

f(3), n(3), s(3), 10.71%

θ(2), k(2) 7.14%

Third Syllable Segment Unstressed Nucleus (25):

ɑ(4), 16.00%

iⁱ#(3), o^w#(3), ə(3), 12.00%

eⁱ(2), eⁱ#(2), ə#(2) 8.00%

Third Syllable Segment Unstressed Coda:

Fourth Syllable Segment Stressed Onset:

Fourth Syllable Segment Stressed Nucleus:

Fourth Syllable Segment Stressed Coda:

Fourth Syllable Segment Unstressed Onset (9):

m(2), f(2), r(2) 22.22%

Fourth Syllable Segment Unstressed Nucleus (10):

ɪ(3), ə#(3) 30.00%

Fourth Syllable Segment Unstressed Coda (3):

n#(2) 66.66%

Fifth Syllable Segment Stressed Onset:

Fifth Syllable Segment Stressed Nucleus:

Fifth Syllable Segment Stressed Coda:

Fifth Syllable Segment Unstressed Onset:

Fifth Syllable Segment Unstressed Nucleus:

Fifth Syllable Segment Unstressed Coda:

Sixth Syllable Segment Unstressed Onset:
 Sixth Syllable Segment Unstressed Nucleus:
 Sixth Syllable Segment Unstressed Coda:

Segment Total for Stressed and Unstressed Onsets and Codas

Stressed Onset (97):

#d(10), ɹ(10), 10.30%
 #s(9), 9.27%
 #b(5), #m(5), 5.15%
 #f(4), l(4), #k^h(4), k^h(4), 4.12%
 #t^h(3), t^h(3), s(3), #ɹ(3), #l(3), #g(3), #w(3), 3.09%
 #p^h(2), m(2), t(2), d(2), #f(2) 2.06%

Stressed Coda (38):

m(7), 18.42%
 n(6), 15.78%
 ɹ(4), 10.52%
 d#(3), t(3), 7.89%
 p(2), s(2), g(2) 5.26%

Unstressed Onset (128):

n(13), 10.15%
 ɹ(10), 7.81%
 s(9), k(9), 7.03%
 f(8), t(8), l(8), 6.25%
 b(7), g(7), 5.46%
 m(6), d(6), r(6), 4.68%
 #d(3), θ(3), z(3), 2.34%
 #p^h(2), p(2), #m(2), #f(2), v(2), #s(2), f(2), w(2), #h(2) 1.56%

Unstressed Coda (46):

n#(10), 21.73%
 s#(8), 17.39%
 t#(4), 8.69%
 d#(3), n(3), s(3), 6.52%
 t(2), t#(2), k(2) 4.34%

Segment Total for Onsets and Codas

Onset (254):

ɹ(24), 9.44%
 l(15), 5.90%
 #d(14), 5.51%
 n(13), 5.11%
 #s(12), s(12), 4.72%
 #b(10), t(10), 3.93%
 #f(9), k(9), 3.54%
 b(8), m(8), f(8), d(8), 3.14%
 #m(7), #k^h(7), g(7), 2.75%
 r(6), 2.36%
 #l(5), #g(5), 1.96%
 #p^h(4), #t^h(4), #ɹ(4), k^h(4), #w(4), 1.57%
 p(3), t^h(3), θ(3), #z(3), z(3), #f(3), w(3), 1.18%
 v(2), #n(2), f(2), #h(2) .78%

Coda (115):

n#(12), 10.43%
 n(11), 9.56%

d#(10), 8.69%
 s#(9), 7.82%
 m(8), 6.95%
 ɹ(7), 6.085%
 t#(6), 5.21%
 s(5), t(5), 4.34%
 m#(3), f#(3), k#(3), 2.60%
 p(2), z#(2), ʃ#(2), ɹ#(2), t#(2), k(2), g(2), ŋ#(2), x#(2), h#(2) 1.73%

Segment Total for Stressed and Unstressed Syllables and Monosyllables

Monosyllable Segment (60):

ɹ(7), 11.66%
 #b(4), d#(4), 6.66%
 #f(3), l(3), 5.00%
 m#(2), f#(2), t#(2), n(2), #z(2), #l(2), k#(2), #k^h(2), #g(2), h#(2) 3.33%

(20):

o^w(3), ʌ(3), a(3), 15.00%
 ɔ(2), #a(2) 10.00%

First Syllable Segment Stressed (96):

#d(10), 10.41%
 #s(9), ɹ(9), 9.37%
 m(7), 7.29%
 #b(5), #m(5), 5.20%
 #f(4), n(4), #k^h(4), 4.16%
 p(3), #t^h(3), #ɹ(3), #l(3), #g(3), #w(3), 3.12%
 #p^h(2), #ʃ(2), t(2), g(2) 2.08%

(63):

æ(13), 20.63%
 a(10), 15.87%
 u^w(7), ɪ(7), 11.11%
 i^j(6), 9.52%
 ε(4), 6.34%
 o^w(3), ʌ(3), 4.76%
 ʊ(2), ʌ(2), ɔ(2) 3.17%

First Syllable Segment Unstressed (20):

#d(3), 15.00%
 #p^h(2), #m(2), #f(2), n(2), #s(2), #h(2) 10.00%

(25):

ə(6), 24.00%
 #a(3), 12.00%
 i^j(2), ɪ(2), #ə(2), æ(2) 8.00%

Second Syllable Segment Stressed (34):

ɹ(5), 14.70%
 d#(3), s(3), l(3), 8.82%
 m(2), t^h(2), d(2), n(2), k^h(2) 5.88%

(20):

æ(5), 25.00%
 e^j(2), o^w(2), ε(2), a(2) 10.00%

Second Syllable Segment Unstressed (118):

n(10), 8.47%
 k(9), 7.62%

s(8), 6.77%
t(7), s#(7), 5.93%
b(6), g(6), 5.08%
d(5), n#(5), ɹ(5), l(5), 4.23%
t#(4), 3.38%
ʷm#(3), m(3), f(3), ʷn(3), r(3), z(3), ɬ#(3), 2.54%
p(2), d#(2), ʷn#(2), ɬ(2), ɬ#(2) 1.69%

(56):
ɪ(13), 23.21%
ə(10), 17.85%
a(7), 12.50%
oʷ#(6), 10.71%
æ#(5), 8.92%
iʲ#(2) 3.57%

Third Syllable Segment Stressed:

Third Syllable Segment Unstressed (34):
#ɹ(4), 11.76%
f(3), n(3), s(3), 8.82%
θ(2), k(2) 5.88%

(23):
a(4), 17.39%
iʲ#(3), oʷ#(3), ə(3), 13.04%
eʲ(2), eʲ#(2), æ#(2) 8.69%

Fourth Syllable Segment Stressed:

Fourth Syllable Segment Unstressed (13):
m(2), f(2), n#(2), r(2) 15.38%

(9):
ɪ(3), ə#(3) 33.33%

Fifth Syllable Segment Stressed:

Fifth Syllable Segment Unstressed:

Sixth Syllable Segment Unstressed:

Segment Total by Syllable

First Syllable Segment (116):
#d(13), 11.20%
#s(11), 9.48%
ɹ(9), 7.75%
#m(7), m(7), 6.03%
#b(6), #f(6), n(6), 5.17%
#kʰ(5), 4.31%
#pʰ(4), 3.44%
p(3), #tʰ(3), #ɹ(3), #l(3), #g(3), #w(3), 2.58%
s(2), #f(2), l(2), ɬ(2), g(2), #h(2) 1.72%

(88):
æ(15), 17.04%
a(10), 11.36%
ɪ(9), 10.22%
iʲ(8), uʷ(8), 9.09%
ə(6), 6.81%

o^w(4), ə(4), ε(4), 4.54%
 #a(3), 3.40%
 ʊ(2), #ə(2), ʌ(2), ɔ(2) 2.27%

Second Syllable Segment (152):

n(12), 7.89%
 s(11), 7.23%
 ɹ(10), 6.57%
 k(9), 5.92%
 t(8), l(8), 5.26%
 b(7), d(7), s#(7), 4.60%
 n#(6), g(6), 3.94%
 m(5), d#(5), 3.28%
 t#(4), 2.63%
 ʔm#(3), f(3), ʔn(3), r(3), z(3), ʔt#(3), t(3), 1.97%
 p(2), t^h(2), ʔn#(2), ɹ#(2), t#(2), k^h(2), w(2) 1.31%

(76):

ɪ(14), 18.42%
 ə(10), 13.15%
 a(9), 11.84%
 o^w#(6), æ(6), 7.89%
 ə#(5), 6.57%
 eⁱ(3), o^w(3), 3.94%
 iⁱ#(2), u^w(2), ε(2), ɔ(2) 2.63%

Third syllable Segment (38):

s(4), #ɹ(4), 10.52%
 f(3), n(3), 7.89%
 t(2), θ(2), k(2) 5.26%

(26):

iⁱ#(4), a(4), 15.38%
 o^w#(3), ə(3), 11.53%
 eⁱ(2), eⁱ#(2), ə#(2), aⁱ(2) 7.69%

Fourth Syllable Segment (13):

m(2), f(2), n#(2), r(2) 15.38%

(9):

ɪ(3), ə#(3) 33.33%

Fifth Syllable Segment:

Sixth Syllable Segment:

Segment Stressed and Unstressed Total

Stressed Segment (135):

ɹ(14), 10.37%
 #d(10), 7.40%
 m(9), #s(9), 6.66%
 n(6), 4.44%
 #b(5), #m(5), s(5), 3.70%
 #f(4), l(4), #k^h(4), k^h(4), 2.96%
 p(3), t^h(3), #t^h(3), d#(3), d(3), #ɹ(3), #l(3), t(3), #g(3), #w(3), 2.22%
 #p^h(2), t(2), #f(2), g(2) 1.48%

(87):

æ(18), 20.68%
 a(12), 13.79%
 u^w(9), 10.34%

ɪ(8), 9.19%
 i^j(6), ε(6), 6.89%
 o^w(5), 5.74%
 e^j(4), 4.59%
 ǣ(3), ɔ(3), 3.44%
 ʊ(2), ʌ(2), aⁱ(2) 2.29%

Unstressed Segment (189):

n(16), 8.46%
 s(12), 6.34%
 k(11), 5.82%
 n#(10), 5.29%
 f(8), t(8), s#(8), l(8), 4.23%
 b(7), g(7), 3.70%
 m(6), d(6), r(6), ɹ(6), 3.17%
 ʔn#(4), t#(4), z(4), #ɹ(4), ʔ#(4), 2.11%
 #d(3), d#(3), ʔn(3), ʔn#(3), Θ(3), 1.58%
 p(2), #p^h(2), #m(2), #f(2), v(2), #s(2), f(2), t(2), t#(2), w(2), #h(2) 1.05%

(115):

ɪ(20), ə(20), 17.39%
 a(11), 9.56%
 o^w#(9), 7.82%
 ǣ#(7), 6.08%
 i^j#(5), 4.34%
 ə#(4), ǣ(4), 3.47%
 i^j(3), e^j#(3), e^j(3), æ(3), #a(3), 2.60%
 u^w(2), o^w(2), #ə(2) 1.73%

Segment Total (absolute)

Narrow (384):

ɹ(27), 7.03%
 n(24), 6.25%
 s(17), 4.42%
 b(16), m(16), 4.16%
 l(15), 3.90%
 #d(14), 3.64%
 n#(12), #s(12), 3.12%
 k(11), 2.86%
 #b(10), t(10), d#(10), 2.60%
 #f(9), f(9), d(9), s#(9), g(9), 2.34%
 #ɹ(8), 2.08%
 #m(7), #k^h(7), 1.82%
 t#(6), r(6), 1.56%
 p(5), #l(5), t(5), #g(5), 1.30%
 #p^h(4), ʔn#(4), #t^h(4), z(4), ʔ#(4), k^h(4), #w(4), 1.04%
 m#(3), f#(3), t^h(3), ʔn(3), ʔn#(3), Θ(3), #z(3), #f(3), k#(3), w(3), .78%
 v(2), #n(2), z#(2), f(2), f#(2), ɹ#(2), t#(2), ɳ#(2), x#(2), #h(2), h#(2) .52%

(222):

ɪ(29), 13.06%
 a(26), 11.71%
 æ(22), 9.90%
 ə(20), 9.00%
 u^w(12), 5.40%
 i^j(10), o^w(10), 4.50%
 o^w#(9), 4.05%
 e^j(7), ǣ(7), ǣ#(7), ε(7), 3.15%

iⁱ#(6), ɔ(6), 2.70%
 ʌ(5), #a(5), 2.25%
 ə#(4), 1.80%
 ʊ(3), eⁱ#(3), aⁱ(3), 1.35%
 #ə(2), #ʌ(2) .90%

Broad (384):
 n(44), 11.45%
 s(38), 9.89%
 ʃ(37), 9.63%
 d(35), 9.11%
 m(30), 7.81%
 b(26), k(26), 6.77%
 t(23), 5.98%
 f(21), l(21), 5.46%
 g(14), 3.64%
 tʃ(12), 3.12%
 p(9), z(9), 2.34%
 ʃ(7), w(7), 1.82%
 r(6), 1.56%
 h(5), 1.30%
 dʒ(4), 1.04%
 θ(3), ɳ(3), x(3), .78%
 v(2), tʃ(2), r(2) .52%

(222):
 a(32), 14.41%
 ɪ(29), 13.06%
 ə(26), 11.71%
 æ(22), 9.90%
 o(20), 9.00%
 i(17), 7.65%
 ʌ(15), 6.75%
 u(14), 6.30%
 e(11), 4.95%
 ɛ(8), 3.60%
 ʌ(7), a(7), 3.15%
 ɔ(6), 2.70%
 ʊ(3), 1.35%
 ø(2) .90%

606 total segments

Supra-Segments: Consonant Clusters

Consonant Cluster Total for Stressed and Unstressed Syllables and Monosyllables according to Syllable Configuration

Monosyllable Consonant Cluster Onset (all entries are word initial) (8):
 #bl(2), #gʃ(2) 25.00%

Monosyllable Consonant Cluster Coda (all entries are word final):

First Syllable Consonant Cluster Stressed Onset (all entries are word initial):

First Syllable Consonant Cluster Stressed Coda:

First Syllable Consonant Cluster Unstressed Onset (all entries are word initial):

First Syllable Consonant Cluster Unstressed Coda:

Second Syllable Consonant Cluster Stressed Onset:

Second Syllable Consonant Cluster Stressed Coda:

Second Syllable Consonant Cluster Unstressed Onset:

Second Syllable Consonant Cluster Unstressed Coda (8):

ŋt#(2), st#(2) 25.00%

Third Syllable Consonant Cluster Stressed Onset:

Third Syllable Consonant Cluster Stressed Coda:

Third Syllable Consonant Cluster Unstressed Onset (4):

st(2) 50.00%

Third Syllable Consonant Cluster Unstressed Coda:

Fourth Syllable Consonant Cluster Stressed Onset:

Fourth Syllable Consonant Cluster Stressed Coda:

Fourth Syllable Consonant Cluster Unstressed Onset:

Fourth Syllable Consonant Cluster Unstressed Coda:

Fifth Syllable Consonant Cluster Stressed Onset:

Fifth Syllable Consonant Cluster Stressed Coda:

Fifth Syllable Consonant Cluster Unstressed Onset:

Fifth Syllable Consonant Cluster Unstressed Coda:

Consonant Cluster Total for Stressed and Unstressed Onsets and Codas

Stressed Onset:

Stressed Coda:

Unstressed Onset (11):

st(3) 27.27%

Unstressed Coda (8):

ŋt#(2), st#(2) 25.00%

Consonant Cluster Total for Onsets and Codas

Onset (29):

st(4), #gɹ(4), 13.79%

#fl(3), 10.34%

#bl(2), #dɹ(2), #kʰɹ(2) 6.89%

Coda (17):

ŋt#(2), st#(2) 11.76%

Consonant Cluster Total for Stressed and Unstressed Syllables and Monosyllables

Monosyllable Consonant Cluster (15):

#bl(2), #gɹ(2) 13.33%

First Syllable Consonant Cluster Stressed:

First Syllable Consonant Cluster Unstressed:

Second Syllable Consonant Cluster Stressed:

Second Syllable Consonant Cluster Unstressed (13):

ŋt#(2), st#(2) 15.38%

Third Syllable Consonant Cluster Stressed:

Third Syllable Consonant Cluster Unstressed (4):

st(2) 50.00%

Fourth Syllable Consonant Cluster Stressed:

Fourth Syllable Consonant Cluster Unstressed:

Fifth Syllable Consonant Cluster Stressed:

Fifth Syllable Consonant Cluster Unstressed:

Consonant Cluster Total per Syllable

First Syllable Consonant Cluster (9):

#fl(2), #gɹ(2) 22.22%

Second Syllable Consonant Cluster (18):
ŋt#(2), st#(2), st(2) 11.11%

Third Syllable Consonant Cluster (4):
st(2) 50.00%

Fourth Syllable Consonant Cluster:

Fifth Syllable Consonant Cluster:

Consonant Cluster Stressed and Unstressed Total

Consonant Cluster Stressed:

Consonant Cluster Unstressed (19):
st(3), ŋt#(2), st#(2) 10.52%

Consonant Cluster Total (absolute)

Narrow (46):
st(4), #gɹ(4), 8.69%
#fl(3), 6.52%
#bl(2), #dɹ(2), ŋt#(2), st#(2), #kʰɹ(2) 4.34%

Broad (46):
st(6), 13.04%
gɹ(5), 10.86%
kɹ(4), 8.69%
fl(3), dɹ(3), 6.52%
bl(2), nt(2) 4.34%

46 total consonant clusters

Supra-Segments: Whole Syllables

Whole Syllable Total for Stressed and Unstressed Syllables and Monosyllables

Monosyllable Whole Syllable:

First Syllable Whole Syllable Stressed (all entries are word initial) (65):
#diʲ(2), #siʲ(2), #buʷ(2), #dɛ(2), #sæ(2), #maɹ(2), #kʰa(2) 3.07%

First Syllable Whole Syllable Unstressed (all entries are word initial) (23):
#ə(2), #sə(2), #a(2) 8.69%

Second Syllable Whole Syllable Stressed:

Second Syllable Whole Syllable Unstressed (68):
noʷ#(2), loʷ#(2), ʷm#(2), rʷŋ#(2), gʷt#(2) 2.94%

Third Syllable Whole Syllable Stressed:

Third Syllable Whole Syllable Unstressed (25):
ɹiʲ#(2), nə(2) 8.00%

Fourth Syllable Whole Syllable Stressed:

Fourth Syllable Whole Syllable Unstressed:

Fifth Syllable Whole Syllable Stressed:

Fifth Syllable Whole Syllable Unstressed:

Sixth Syllable Whole syllable Unstressed:

Whole Syllable Total per Syllable

First Syllable Whole Syllable (all entries are word initial) (88):

#diⁱ(2), #siⁱ(2), #bu^w(2), #dis(2), #ə(2), #sə(2), #sæ(2), #a(2), #ma(2), #maɪ(2), #k^ha(2) 2.27%

Second Syllable Whole Syllable (88):

no^w#(2), lo^w#(2), əm̩#(2), rəŋ#(2), gəʔ#(2) 2.27%

Third Syllable Whole Syllable (28):

jiⁱ#(2), nə(2) 7.14%

Fourth Syllable Whole Syllable:

Fifth Syllable Whole Syllable:

Sixth Syllable Whole Syllable:

Whole Syllable Stressed and Unstressed Total

Whole Syllable Stressed (89):

#diⁱ(2), #siⁱ(2), #bu^w(2), #dɛ(2), #sæ(2), #maɪ(2), #k^ha(2) 2.24%

Whole Syllable Unstressed (128):

mɪn#(3), no^w#(3), nə(3), 2.34%

jiⁱ#(2), lo^w#(2), #ə(2), əm̩#(2), fə(2), rəŋ#(2), θə(2), #sə(2), gəʔ#(2), rə#(2), #a(2) 1.56%

Whole Syllable Total (absolute)

Narrow (242):

mɪn#(3), no^w#(3), 1.23%

#diⁱ(2), #siⁱ(2), jiⁱ#(2), #bu^w(2), #dis(2), leⁱ(2), lo^w#(2), #ə(2), əm̩#(2), fə(2), nə(3), rəŋ#(2), θə(2), #sə(2), gəʔ#(2), rə#(2), #dɛ(2), #sæ(2), #a(2),
ba(2), #maɪ(2), #k^ha(2) .82%

Broad (242):

di(3), ji(3), mɪn(3), no(3), so(3), ə(3), nə(3), sə(3), kə(3), kə(3), ka(3), 1.23%

fi(2), si(2), ki(2), bu(2), lu(2), dis(2), fɪn(2), se(2), le(2), bo(2), lo(2), əm̩(2), mə(2), fə(2), rəŋ(2), θə(2), gəʔ(2), rə(2), dɛ(2), sæ(2),
læd(2), a(2), ba(2), maɪ(2) .82%

Supra-Segments: Whole Words

	Syllable Receiving Stress						
	None	First	Second	Third	Fourth	Fifth	Sixth
Word Length Total							
Monosyllabic: 22.12%							
Bisyllabic: 53.09%	0	86.66%/81.25%	13.33%/40.00%				
Trisyllabic: 15.92%	0	44.44%/12.50%	50.00%/45.00%	5.55%/33.33%			
Tetrasyllabic: 7.07%	0	37.50%/4.68%	37.50%/15.00%	25.00%/66.66%	0		
Pentasyllabic: .88%	0	100%/1.56%	0	0	0	0	
Hexasyllabic: .88%	0	0	0	0	0	100%/100%	0
Stressed Syllable Total:		72.72%	22.72%	3.40%	0	1.13%	0

Table Key: The “Word Length Total” column figure represents the percentage of words that is of that word length. For the cells inside the “Syllable Receiving Stress” columns, the amount on top indicates what percentage of a particular word length was stressed on that syllable. The number on the bottom indicates, for all the words that received stress on a particular syllable, what percentage of these words were of a particular word length. The “Stressed Syllable Total” row indicates what percentage of words was stressed on a particular syllable. Note that monosyllables were not analyzed as receiving stress and the “None” cell in the “Stressed Syllable Total” row is inapplicable.

For all 113 whole words there are no repeated words.

Segments

Segment Total for Stressed and Unstressed Syllables and Monosyllables according to Syllable Configuration

Monosyllable Onset (30):

ɹ(5), 16.66%
l(4), 13.33%
#p^h(3), #ɹ(3), 10.00%
#f(2), #s(2), #j(2), #k^h(2), #g(2), #w(2) 6.66%

Monosyllable Nucleus (24):

ɪ(4), 16.66%
æ(3), 12.50%
i^j(2), u^w(2), a^j(2), #a(2) 8.33%

Monosyllable Coda (31):

t[#](5), 16.12%
k(4), k[#](4), 12.90%
s[#](3), 9.67%
d[#](2) 6.45%

First Syllable Segment Stressed Onset (47):

ɹ(9), 19.14%
#s(8), 17.02%
#b(5), 10.63%
#f(4), l(4), k(4), #k^h(4), #w(4), 8.51%
#t^h(3), #h(3), 6.38%
#v(2), t(2), #ɹ(2), #l(2) 4.25%

First Syllable Segment Stressed Nucleus (61):

a(11), 18.03%
æ(8), 13.11%
ɪ(6), ε(6), 9.83%
ʌ(5), 8.19%
#æ(4), 6.55%
#a(3), 4.91%
u^w(2), eⁱ(2), o^w(2), #ə(2), #aⁱ(2) 3.27%

First Syllable Segment Stressed Coda (32):

ɹ(9), 28.12%
k(7), 21.87%
n(5), 15.62%
m(3), 9.37%
s(2), t(2) 6.25%

First Syllable Segment Unstressed Onset (23):

#s(3), l(3), 13.04%
#m(2), #f(2), #d(2), #k(2) 8.69%

First Syllable Segment Unstressed Nucleus (29):

ɪ(7), 24.13%
ə(6), 20.68%
#ə(3), #ε(3), 10.34%
i^j(2), a(2) 6.89%

First Syllable Segment Unstressed Coda (11):

k(4), 36.36%
s(3), 27.27%
ɹ(2) 18.18%

Second Syllable Segment Stressed Onset (35):

ɹ(9), 25.71%
 s(6), 17.14%
 t(4), 11.42%
 l(3), 8.57%
 tʰ(2), k(2), kʰ(2), ɡ(2) 5.71%

Second Syllable Segment Stressed Nucleus (27):

æ(6), 22.22%
 ɪ(4), 14.81%
 iʲ(3), a(3), 11.11%
 uʷ(2), eʲ(2), ɛ(2) 7.40%

Second Syllable Segment Stressed Coda (20):

dʱ(5), n(5), 25.00%
 tʰ(2), ɹ(2), ŋ(2) 10.00%

Second Syllable Segment Unstressed Onset (67):

ɹ(8), 11.94%
 t(7), 10.44%
 ɡ(5), 7.46%
 p(4), b(4), f(4), s(4), ʃ(4), 5.97%
 d(3), n(3), r(3), j(3), k(3), 4.47%
 l(2), h(2) 2.98%

Second Syllable Segment Unstressed Nucleus (63):

ɪ(9), ə(9), 14.28%
 ʌ̥(7), 11.11%
 uʷ(6), ʌ(6), 9.52%
 a(4), 6.34%
 iʲ(3), oʷ(3), 4.76%
 ʌ̥(2), ʌ̥ŋ(2), ʌ(2), æ(2) 3.17%

Second Syllable Segment Unstressed Coda (32):

dʱ(6), nʱ(6), 18.75%
 kʱ(4), 12.50%
 fʱ(3), ʃʱ(3), ɹʱ(3), 9.37%
 tʱ(2) 6.25%

Third Syllable Segment Stressed Onset:**Third Syllable Segment Stressed Nucleus:****Third Syllable Segment Stressed Coda:****Third Syllable Segment Unstressed Onset (26):**

n(4), ɹ(4), 15.38%
 t(3), 11.53%
 b(2), d(2), ʃ(2), l(2), ɡ(2) 7.69%

Third Syllable Segment Unstressed Nucleus (25):

ə(4), 16.00%
 iʲ(3), ɪ(3), ʌ̥ŋ(3), 12.00%
 eʲ(2) 8.00%

Third Syllable Segment Unstressed Coda (7):

nʱ(2) 28.57%

Fourth Syllable Segment Stressed Onset:**Fourth Syllable Segment Stressed Nucleus:****Fourth Syllable Segment Stressed Coda:****Fourth Syllable Segment Unstressed Onset (7):**

n(2) 28.57%

Fourth Syllable Segment Unstressed Nucleus (9):
ə#(4) 44.44%

Fourth Syllable Segment Unstressed Coda:

Fifth Syllable Segment Stressed Onset:
Fifth Syllable Segment Stressed Nucleus:
Fifth Syllable Segment Stressed Coda:
Fifth Syllable Segment Unstressed Onset:
Fifth Syllable Segment Unstressed Nucleus:
Fifth Syllable Segment Unstressed Coda:

Segment Total for Stressed and Unstressed Onsets and Codas

Stressed Onset (100):

ɹ(18), 18.00%
#s(8), 8.00%
l(7), 7.00%
t(6), s(6), k(6), 6.00%
#b(5), 5.00%
#f(4), #k^h(4), #w(4), 4.00%
#t^h(3), #h(3), 3.00%
#v(2), t^h(2), #ɹ(2), #l(2), k^h(2), g(2) 2.00%

Stressed Coda (52):

ɹ(11), 21.15%
n(10), 19.23%
k(8), 15.38%
d#(5), 9.61%
m(3), s(3), ŋ(3), 5.76%
t#(2), t(2) 3.84%

Unstressed Onset (116):

ɹ(12), 10.34%
t(11), 9.48%
n(9), 7.75%
l(7), g(7), 6.03%
b(6), d(6), f(6), 5.17%
p(5), r(5), s(5), 4.31%
f(4), j(4), 3.44%
#s(3), k(3), 2.58%
#m(2), #f(2), #d(2), z(2), #k(2), h(2) 1.72%

Unstressed Coda (56):

d#(8), n#(8), 14.28%
k#(5), 8.92%
k(4), 7.14%
f#(3), t#(3), s(3), f#(3), ɹ#(3), 5.35%
s#(2), ɹ(2), t(2) 3.57%

Segment Total for Onsets and Codas

Onset (246):

ɹ(35), 14.22%
t(18), l(18), 7.31%
#s(13), 5.28%
s(11), 4.47%
n(9), k(9), g(9), 3.65%
#f(8), 3.25%
b(7), d(7), 2.84%
p(6), f(6), #ɹ(6), #k^h(6), #w(6), 2.43%
#p^h(5), #b(5), f(5), r(5), #h(5), 2.03%

j(4), #g(4), 1.62%
 #m(3), #v(3), t^h(3), #t^h(3), #d(3), #j(3), 1.21%
 p^h(2), m(2), #ɟ(2), #n(2), #z(2), z(2), #f(2), #l(2), #k(2), k^h(2), h(2) .81%

Coda (139):

k(16), 11.51%
 d#(15), 10.79%
 ɹ(14), 10.07%
 n(12), 8.63%
 t#(10), 7.19%
 k#(9), 6.47%
 n#(8), 5.75%
 s(6), 4.31%
 s#(5), t(5), 3.59%
 m(4), f#(4), ɹ#(4), 2.87%
 m#(3), f#(3), ɳ(3), 2.15%
 tʃ#(2), z(2) 1.43%

Segment Total for Stressed and Unstressed Syllables and Monosyllables

Monosyllable Segment (61):

ɹ(6), 9.83%
 t#(5), 8.19%
 l(4), k(4), k#(4), 6.55%
 #p^h(3), s#(3), #ɹ(3), 4.91%
 #f(2), #s(2), d#(2), #j(2), #k^h(2), #g(2), #w(2) 3.27%

(24):

ɪ(4), 16.66%
 æ(3), 12.50%
 iⁱ(2), u^w(2), a^w(2), aⁱ(2), #a(2) 8.33%

First Syllable Segment Stressed (96):

ɹ(18), 18.75%
 k(11), 11.45%
 #s(8), 8.33%
 #b(5), n(5), 5.20%
 #f(4), l(4), #k^h(4), #w(4), 4.16%
 m(3), t(3), #t^h(3), #h(3), 3.12%
 #v(2), s(2), #ɹ(2), #l(2), t(2) 2.08%

(61):

a(11), 18.03%
 æ(8), 13.11%
 ɪ(6), ε(6), 9.83%
 ʌ(5), 8.19%
 #æ(4), 6.55%
 #a(3), 4.91%
 u^w(2), eⁱ(2), o^w(2), #ə(2), #aⁱ(2) 3.27%

First Syllable Segment Unstressed (34):

k(4), 11.76%
 #s(3), s(3), l(3), 8.82%
 #m(2), #f(2), #d(2), ɹ(2), #k(2) 5.88%

(29):

ɪ(7), 24.13%
 ə(6), 20.68%
 #ə(3), #ε(3), 10.34%
 iⁱ(2), a(2) 6.89%

Second Syllable Segment Stressed (55):

ɹ(11), 20.00%
 s(7), 12.72%
 d#(5), n(5), 9.09%
 t(4), 7.27%
 l(3), k(3), 5.45%
 tʰ(2), tʃ(2), kʰ(2), g(2), ŋ(2) 3.63%

(27):

æ(6), 22.22%
 ɪ(4), 14.81%
 iʲ(3), a(3), 11.11%
 uʷ(2), eʲ(2), ɛ(2) 7.40%

Second Syllable Segment Unstressed (112):

ɹ(8), 7.14%
 t(7), ʈʂ(7), 6.25%
 d#(6), n#(6), 5.35%
 g(5), 4.46%
 p(4), b(4), f(4), s(4), ʃ(4), k#(4), 3.57%
 f#(3), d(3), n(3), r(3), ʃ#(3), ɹ#(3), j(3), k(3), 2.67%
 tʃ#(2), ʈʂ#(2), l(2), ʈ(2), h(2) 1.78%

(50):

ɪ(9), ə(9), 18.00%
 uʷ(6), ʌ(6), 12.00%
 a(4), 8.00%
 iʲ#(3), oʷ#(3), 6.00%
 ʌ#(2), æ(2) 4.00%

Third Syllable Segment Stressed:**Third Syllable Segment Unstressed (38):**

n(4), ɹ(4), 10.52%
 t(3), ʈʂ#(3), 7.89%
 b(2), d(2), n#(2), ʃ(2), l(2), g(2) 5.26%

(20):

ə(4), 20.00%
 iʲ(3), ɪ(3), 15.00%
 eʲ(2) 10.00%

Fourth Syllable Segment Stressed:**Fourth Syllable Segment Unstressed (13):**

n(2) 15.38%

(9):

ə#(4) 44.44%

Fifth Syllable Segment Stressed:**Fifth Syllable Segment Unstressed:****Segment Total by Syllable****First Syllable Segment (130):**

ɹ(20), 15.38%
 k(15), 11.53%
 #s(8), 6.15%
 l(7), 5.38%
 #f(6), n(6), 4.61%

#b(5), 3.84%
 #k^h(4), #w(4), #h(4), 3.07%
 #m(3), m(3), #v(3), t(3), #t^h(3), #s(3), s(3), #ɹ(3), 2.30%
 #p^h(2), #d(2), #n(2), s(2), #l(2), t(2), #k(2), #g(2) 1.53%

(90):
 ɪ(13), a(13), 14.44%
 æ(9), 10.00%
 ə(6), ɛ(6), 6.66%
 ʌ(5), 5.55%
 #ɛ(4), #æ(4), #a(4), 4.44%
 i^j(3), #ə(3), 3.33%
 #i^j(2), u^w(2), eⁱ(2), o^w(2), #ə(2), #aⁱ(2) 2.22%

Second Syllable Segment (167):
 ɹ(19), 11.37%
 t(11), d#(11), s(11), 6.58%
 n(8), 4.79%
 ʔ#(7), g(7), 4.19%
 n#(6), k(6), 3.59%
 p(5), b(5), f(5), l(5), 2.99%
 t#(4), d(4), ʃ(4), k#(4), 2.39%
 f#(3), t^h(3), r(3), ʃ#(3), ɹ#(3), j(3), 1.79%
 m#(2), ʔŋ#(2), ʔt(2), k^h(2), ŋ(2), h(2) 1.19%

(77):
 ɪ(13), 16.88%
 ə(9), 11.68%
 u^w(8), æ(8), 10.38%
 a(7), 9.09%
 ʌ(6), 7.79%
 i^j#(3), i^j(3), o^w#(3), 3.89%
 eⁱ(2), ə#(2), ɛ(2) 2.59%

Third Syllable Segment (39):
 n(4), ɹ(4), 10.25%
 t(3), ʔŋ#(3), 7.69%
 b(2), d(2), n#(2), ʃ(2), l(2), g(2) 5.12%

(21):
 ə(4), 19.04%
 i^j(3), ɪ(3), 14.28%
 eⁱ(2) 9.52%

Fourth Syllable Segment (13):
 n(2) 15.38%

(9):
 ə#(4) 44.44%

Fifth Syllable Segment:

Segment Stressed and Unstressed Total

Stressed Segment (152):

ɹ(29), 19.07%
 k(14), 9.21%
 n(10), 6.57%
 s(9), 5.92%
 #s(8), 5.26%

t(7), l(7), 4.60%
 #b(5), d#(5), 3.28%
 m(4), #f(4), #k^h(4), #w(4), 2.63%
 #t^h(3), ŋ(3), #h(3), 1.97%
 #v(2), t^h(2), t#(2), #ɹ(2), #l(2), t(2), k^h(2), g(2) 1.31%

(89):
 æ(15), 16.85%
 a(14), 15.73%
 ɪ(10), 11.23%
 ɛ(8), 8.98%
 ʌ(6), 6.74%
 i^j(4), u^w(4), e^j(4), #æ(4), 4.49%
 o^w(3), #a(3), 3.37%
 #ə(2), #a^j(2) 2.24%

Unstressed Segment (197):
 ɹ(14), 7.10%
 t(11), 5.58%
 n(10), 5.07%
 d#(8), n#(8), s(8), ɳ#(8), 4.06%
 l(7), k(7), g(7), 3.55%
 b(6), d(6), ʃ(6), 3.04%
 p(5), ʷŋ#(5), r(5), k#(5), 2.53%
 f(4), j(4), 2.03%
 f#(3), t#(3), #s(3), z(3), ʃ#(3), ɹ#(3), 1.52%
 #m(2), ʷm#(2), #f(2), #d(2), s#(2), t(2), ɳ(2), #k(2), h(2) 1.01%

(108):
 ɪ(20), ə(20), 18.51%
 ʌ(7), a(7), 6.48%
 u^w(6), ə#(6), 5.55%
 i^j(5), 4.62%
 i^j#(4), o^w#(4), 3.70%
 e^j(3), #ə(3), #ɛ(3), ɛ(3), æ(3), 2.77%
 e^j#(2), ə#(2) 1.85%

Segment Total (absolute)

Narrow (410):
 ɹ(49), 11.95%
 k(25), 6.09%
 n(21), 5.12%
 t(19), 4.63%
 l(18), 4.39%
 s(17), 4.14%
 d#(15), 3.65%
 #s(13), 3.17%
 t#(10), 2.43%
 k#(9), g(9), 2.19%
 #f(8), n#(8), ɳ#(8), 1.95%
 b(7), d(7), 1.70%
 p(6), m(6), f(6), ʃ(6), #ɹ(6), #k^h(6), #w(6), 1.46%
 #p^h(5), #b(5), ʷŋ#(5), r(5), s#(5), t(5), #h(5), 1.21%
 z(4), ʃ#(4), ɹ#(4), j(4), #g(4), .97%
 m#(3), #m(3), f#(3), #v(3), #t^h(3), t^h(3), #d(3), #j(3), ŋ(3), .73%
 p^h(2), ʷm#(2), tʃ#(2), #dʒ(2), #n(2), θ(2), #z(2), #ʃ(2), #l(2), ɳ(2), #k(2), k^h(2), h(2) .48%

(221):

ɪ(34), 15.38%
 ʌ(22), 9.95%
 æ(21), 9.50%
 ə(20), 9.04%
 u^w(12), 5.42%
 i^j(11), ɛ(11), 4.97%
 ʌ(8), 3.61%
 eⁱ(7), ʌ(7), 3.16%
 ə[#](6), #a(6), 2.71%
 #æ(5), 2.26%
 i[#](4), o^w#(4), ʌ[#](4), #ɛ(4), aⁱ(4), a^w(4), 1.80%
 #i^j(3), o^w(3), #ə(3), 1.35%
 u^w#(2), eⁱ#(2), ɔ(2), #aⁱ(2), a[#](2) .90%

Broad (410):
 ɹ(60), 14.63%
 k(45), 10.97%
 n(37), 9.02%
 s(36), 8.78%
 t(35), 8.53%
 d(26), 6.34%
 l(20), 4.87%
 f(18), 4.39%
 ʰ(16), 3.90%
 p(14), m(14), g(14), 3.41%
 b(12), ʃ(12), 2.92%
 j(7), h(7), 1.70%
 z(6), w(6), 1.46%
 v(5), r(5), 1.21%
 ɟ(4), ŋ(4), .97%
 tʃ(3), .73%
 θ(2) .48%

(221):
 ɪ(35), 15.83%
 ʌ(30), 13.57%
 ə(29), 13.12%
 æ(26), 11.76%
 i(20), 9.04%
 ɛ(16), 7.23%
 u(14), 6.33%
 ʌ(12), 5.42%
 a(11), 4.97%
 e(9), 4.07%
 ʌ(8), 3.61%
 o(7), 3.16%
 ɔ(2) .90%

631 total segments

Supra-Segments: Consonant Clusters

Consonant Cluster Total for Stressed and Unstressed Syllables and Monosyllables according to Syllable Configuration

Monosyllable Consonant Cluster Onset (all entries are word initial):

Monosyllable Consonant Cluster Coda (all entries are word final) (7):

kt[#](3) 42.85%

First Syllable Consonant Cluster Stressed Onset (all entries are word initial) (13):

#k^hɹ(3), 23.07%

#sk(2) 15.38%

First Syllable Consonant Cluster Stressed Coda:

First Syllable Consonant Cluster Unstressed Onset (all entries are word initial):

First Syllable Consonant Cluster Unstressed Coda:

Second Syllable Consonant Cluster Stressed Onset (7):

st(2) 28.57%

Second Syllable Consonant Cluster Stressed Coda (5):

nd#(2) 40.00%

Second Syllable Consonant Cluster Unstressed Onset:

Second Syllable Consonant Cluster Unstressed Coda:

Third Syllable Consonant Cluster Stressed Onset:

Third Syllable Consonant Cluster Stressed Coda:

Third Syllable Consonant Cluster Unstressed Onset:

Third Syllable Consonant Cluster Unstressed Coda:

Fourth Syllable Consonant Cluster Stressed Onset:

Fourth Syllable Consonant Cluster Stressed Coda:

Fourth Syllable Consonant Cluster Unstressed Onset:

Fourth Syllable Consonant Cluster Unstressed Coda:

Fifth Syllable Consonant Cluster Stressed Onset:

Fifth Syllable Consonant Cluster Stressed Coda:

Fifth Syllable Consonant Cluster Unstressed Onset:

Fifth Syllable Consonant Cluster Unstressed Coda:

Consonant Cluster Total for Stressed and Unstressed Onsets and Codas

Stressed Onset (20):

#k^hɹ(3), 15.00%

#sk(2), st(2) 10.00%

Stressed Coda (7):

nd#(2) 28.57%

Unstressed Onset:

Unstressed Coda (5):

ɹd#(3) 60.00%

Consonant Cluster Total for Onsets and Codas

Onset (36):

#fɹ(3), #k^hɹ(3), 8.33%

#p^hl(2), #sk(2), #stɹ(2), stɹ(2), st(2), #gɹ(2), #gl(2) 5.55%

Coda (19):

ɹd#(3), kt#(3), 15.78%

nd#(2) 10.52%

Consonant Cluster Total for Stressed and Unstressed Syllables and Monosyllables

Monosyllable Consonant Cluster (16):

kt#(3) 18.75%

First Syllable Consonant Cluster Stressed (15):

#k^hɹ(3), 20.00%

#sk(2) 13.33%

First Syllable Consonant Cluster Unstressed:

Second Syllable Consonant Cluster Stressed (12):

nd#(2), st(2) 16.66%

Second Syllable Consonant Cluster Unstressed:

Third Syllable Consonant Cluster Stressed:

Third Syllable Consonant Cluster Unstressed:

Fourth Syllable Consonant Cluster Stressed:

Fourth Syllable Consonant Cluster Unstressed:

Fifth Syllable Consonant Cluster Stressed:

Fifth Syllable Consonant Cluster Unstressed:

Consonant Cluster Total per Syllable

First Syllable Consonant Cluster (20):

#k^hɹ(3), 15.00%

#fɹ(2), #sk(2) 10.00%

Second Syllable Consonant Cluster (16):

nd#(2), st(2), stɹ(2) 12.50%

Third Syllable Consonant Cluster:

Fourth Syllable Consonant Cluster:

Fifth Syllable Consonant Cluster:

Consonant Cluster Stressed and Unstressed Total

Consonant Cluster Stressed (27):

#k^hɹ(3), 11.11%

nd#(2), #sk(2), st(2) 7.40%

Consonant Cluster Unstressed (12):

ɫd#(2) 16.66%

Consonant Cluster Total (absolute)

Narrow (55):

#fɹ(3), st(3), #k^hɹ(3), kt#(3), 5.45%

#p^hl(2), nd#(2), #sk(2), #stɹ(2), stɹ(2), ɫd#(2), #gɹ(2), #gl(2) 3.63%

Broad (55):

st(5), kɹ(5), 9.09%

stɹ(4), 7.27%

fɹ(3), sk(3), ɫd(3), kt(3), 5.45%

pl(2), tɹ(2), nd(2), kl(2), ks(2), gɹ(2), gl(2) 3.63%

55 total consonant clusters

Supra-Segments: Whole Syllables

Whole Syllable Total for Stressed and Unstressed Syllables and Monosyllables

Monosyllable Whole Syllable:

First Syllable Whole Syllable Stressed (all entries are word initial) (61):

#wo^w(2), #ə(2), #t^hɛɹ(2), #æk(2), 3.27%

First Syllable Whole Syllable Unstressed (all entries are word initial) (29):

#ə(3), 10.34%

#dis(2), #sɪ(2), #ɛk(2), 6.89%

Second Syllable Whole Syllable Stressed (30):

tɹn#(2), 6.66%

Second Syllable Whole Syllable Unstressed (60):

p^hɹ#(2), 3.33%

Third Syllable Whole Syllable Stressed:

Third Syllable Whole Syllable Unstressed:

Fourth Syllable Whole Syllable Stressed:

Fourth Syllable Whole Syllable Unstressed (9):

ə#(2), 22.22%

Fifth Syllable Whole Syllable Stressed:

Fifth Syllable Whole Syllable Unstressed:

Whole Syllable Total per Syllable

First Syllable Whole Syllable (all entries are word initial) (90):

#ə(3), 3.33%

#iⁱ(2), #dis(2), #si(2), #wo^w(2), #ə(2), #εk(2), #t^hεɪ(2), #æk(2), 2.22%

Second Syllable Whole Syllable (90):

tɪn#(2), p^ɪ#(2), 2.22%

Third Syllable Whole Syllable:

Fourth Syllable Whole Syllable (9):

ə#(2), 22.22%

Fifth Syllable Whole Syllable:

Whole Syllable Stressed and Unstressed Total

Whole Syllable Stressed (92):tɪn#(2), #wo^w(2), #ə(2), #t^hεɪ(2), #æk(2), 2.17%

Whole Syllable Unstressed (123):

#ə(5), 4.06%

ɹiⁱ#(2), #dis(2), #si(2), p^ɪ#(2), də(2), #εk(2) 1.62%

Whole Syllable Total (absolute)

Narrow (239):

#ə(5), 2.09%

tɪn#(3), 1.25%

#iⁱ(2), ɹiⁱ#(2), #dis(2), #si(2), #wo^w(2), p^ɪ#(2), #ə(2), də(2), #εk(2), #t^hεɪ(2), #æk(2) .83%

Broad (239):

ə(5), 2.09%

ɹi(4), 1.67%

tɪn(3), æk(3), 1.25%

i(2), ɹu(2), ɪn(2), dis(2), si(2), ɹɪŋ(2), stɹe(2), wo(2), p^ɪ(2), nə(2), ʃə(2) kə(2), ə(2), də(2), εk(2), tɹɪ(2), a(2), ɹɪ(2), ɹɪk(2), bə(2) .83%

239 total whole syllables

Supra-Segments: Whole Words

	Syllable			Receiving	Stress	
	None	First	Second	Third	Fourth	Fifth
Word Length Total						
Monosyllabic: 21.05%						
Bisyllabic: 56.14%	0	81.25%/85.24%	18.75%/42.85%			
Trisyllabic: 14.91%	0	35.29%/9.83%	64.70%/39.28%	0		
Tetrasyllabic: 7.89%	0	33.33%/4.91%	55.55%/17.85%	11.11%/100%	0	
Pentasyllabic: 0	0	0	0	0	0	0
Stressed Syllable Total:		67.77%	31.11%	1.11%	0	0

Table Key: The “Word Length Total” column figure represents the percentage of words that is of that word length. For the cells inside the “Syllable Receiving Stress” columns, the amount on top indicates what percentage of a particular word length was stressed on that syllable. The number on the bottom indicates, for all the words that received stress on a particular syllable, what percentage of these words were of a particular word length. The “Stressed Syllable Total” row indicates what percentage of words was stressed on a particular syllable. Note that monosyllables were not analyzed as receiving stress and the “None” cell in the “Stressed Syllable Total” row is inapplicable.

For all 114 whole words there are no repeated words.

Segments**Segment Total for Stressed and Unstressed Syllables and Monosyllables according to Syllable Configuration****Monosyllable Onset (16):**#b(2), #s(2), l(2), #k^h(2), #w(2) 12.50%**Monosyllable Nucleus (12):**

a(3), 25.00%

ɪ(2), ɒ^w(2), æ(2) 16.66%**Monosyllable Coda (16):**n(2), k[#](2) 12.50%**First Syllable Segment Stressed Onset (51):**

#s(7), #l(7), 13.72%

#p^h(5), 9.80%#k^h(4), 7.84%

#m(3), #f(3), #d(3), l(3), #w(3), 5.88%

#t^h(2), #ɹ(2), #g(2) 3.92%**First Syllable Segment Stressed Nucleus (56):**

a(9), 16.07%

i^j(8), ɪ(8), 14.28%

æ(5), 8.92%

u^w(4), ε(4), 7.14%

#a(3), 5.35%

#i^j(2), o(2), ɒ^w(2), a^j(2) 3.57%**First Syllable Segment Stressed Coda (26):**

n(10), 38.46%

ɹ(4), 15.38%

t(3), 11.53%

s(2) 7.69%

First Syllable Segment Unstressed Onset (36):

#b(6), 16.66%

#s(4), #k^h(4), 11.11%

#d(3), #ɹ(3), #k(3), 8.33%

#m(2), #z(2) 5.55%

First Syllable Segment Unstressed Nucleus (46):

ə(11), 23.91%

ɪ(4), a(4), #a(4), 8.69%

i^j(3), #ə(3), 6.52%#u^w(2), ɒ^w(2), ε(2) 4.34%**First Syllable Segment Unstressed Coda (11):**

n(6), 54.54%

ɹ(2) 18.18%

Second Syllable Segment Stressed Onset (39):

l(7), 17.94%

ɹ(6), 15.38%

t^h(3), n(3), s(3), z(3), 7.69%p^h(2), b(2), d(2), w(2) 5.12%**Second Syllable Segment Stressed Nucleus (36):**

a(7), 19.44%

i^j(6), 16.66%

u^w(4), ɪ(4), 11.11%

æ(3), 8.33%

eⁱ(2), ɛ(2) 5.55%

Second Syllable Segment Stressed Coda (15):

n(2), ɹ#(2), t#(2) 13.33%

Second Syllable Segment Unstressed Onset (73):

s(7), 9.58%

f(6), d(6), l(6), 8.21%

b(5), t(5), k(5), 6.84%

w(4), 5.47%

p^h(3), m(3), ɹ(3), 4.10%

v(2), n(2), z(2), f(2), j(2), g(2) 2.73%

Second Syllable Segment Unstressed Nucleus (67):

ə(14), 20.89%

ɪ(6), a(6), 8.95%

əŋ#(4), ɛ(4), 5.97%

o^w#(3), ɹt#(3), æ(3), 4.47%

iⁱ(2), iⁱ#(2), u^w(2), o#(2), əŋ(2), ə#(2), ʌ(2) 2.98%

Second Syllable Segment Unstressed Coda (22):

n#(5), 22.72%

n(4), 18.18%

d#(3), 13.63%

s#(2), k#(2) 9.09%

Third Syllable Segment Stressed Onset:

Third Syllable Segment Stressed Nucleus (8):

eⁱ(2) 25.00%

Third Syllable Segment Stressed Coda:

Third Syllable Segment Unstressed Onset (45):

l(6), 13.33%

ɹ(5), 11.11%

t(4), n(4), w(4), 8.88%

s(3), 6.66%

b(2), f(2), r(2), ʃ(2), j(2), k(2) 4.44%

Third Syllable Segment Unstressed Nucleus (43):

o^w#(6), 13.95%

ə(5), 11.62%

ə#(4), a(4), 9.30%

iⁱ(3), 6.97%

u^w#(2), eⁱ#(2), ɹt#(2), əŋ#(2), ə#(2), a#(2) 4.65%

Third Syllable Segment Unstressed Coda (10):

d#(3), 30.00%

n#(2) 20.00%

Fourth Syllable Segment Stressed Onset:

Fourth Syllable Segment Stressed Nucleus:

Fourth Syllable Segment Stressed Coda:

Fourth Syllable Segment Unstressed Onset (11):

l(3), 27.27%

m(2), ɹ(2) 18.18%

Fourth Syllable Segment Unstressed Nucleus (15):

ə#(3), 20.00%

ɪ(2), ɒʷ#(2), a(2), a#(2) 13.33%

Fourth Syllable Segment Unstressed Coda (4):

n#(2) 50.00%

Fifth Syllable Segment Stressed Onset:

Fifth Syllable Segment Stressed Nucleus:

Fifth Syllable Segment Stressed Coda:

Fifth Syllable Segment Unstressed Onset:

Fifth Syllable Segment Unstressed Nucleus:

Fifth Syllable Segment Unstressed Coda:

Segment Total for Stressed and Unstressed Onsets and Codas

Stressed Onset (99):

l(11), 11.11%

#s(7), ɹ(7), #l(7), 7.07%

#p^h(5), n(5), 5.05%

t^h(4), s(4), z(4), #k^h(4), 4.04%

#m(3), #f(3), #d(3), d(3), #w(3), 3.03%

p^h(2), b(2), #t^h(2), #ɹ(2), k(2), #g(2), w(2) 2.02%

Stressed Coda (41):

n(12), 29.26%

ɹ(5), 12.19%

s(3), ʰ(3), 7.31%

z(2), ɹ#(2), ʰ#(2), k(2) 4.87%

Unstressed Onset (165):

l(15), 9.09%

ɹ(12), 7.27%

s(11), 6.66%

t(9), w(9), 5.45%

f(8), 4.84%

b(7), d(7), k(7), 4.24%

#b(6), m(6), n(6), 3.63%

#s(4), f(4), j(4), #k^h(4), 2.42%

p^h(3), #d(3), r(3), z(3), #ɹ(3), #k(3), g(3), 1.81%

#m(2), v(2), t^h(2), θ(2), #z(2), h(2) 1.21

Unstressed Coda (50):

n(10), 20.00%

n#(9), 18.00%

d#(6), 12.00%

ɹ(4), 8.00%

s#(3), ʰ(3), k#(3), 6.00%

t^h#(2), z#(2) 4.00%

Segment Total for Onsets and Codas

Onset (280):

l(28), 10.00%

ɹ(20), 7.14%

s(15), 5.35%

#s(13), 4.64%

n(11), w(11), 3.92%

#k^h(10), 3.57%

b(9), t(9), k(9), 3.21%

#b(8), f(8), #l(8), 2.85%

m(7), z(7), 2.50%

#p^h(6), t^h(6), #d(6), 2.14%

p^h(5), #m(5), #f(5), #ɹ(5), #w(5), 1.78%

f(4), j(4), #k(4), g(4), 1.42%
p(3), v(3), #t^h(3), r(3), #z(3), #g(3), h(3), 1.07%
θ(2), #f(2), k^h(2), #h(2) .71%

Coda (107):

n(24), 22.42%
n#(10), ɹ(10), 9.34%
d#(7), ɹ#(7), 6.54%
t(6), 5.60%
s#(5), k#(5), 4.67%
t#(4), 3.73%
t#(3), t^h#(3), s(3), z(3), k(3), 2.80%
z#(2), ɲ(2), ɲ#(2) 1.86%

Segment Total for Stressed and Unstressed Syllables and Monosyllables

Monosyllable Segment (41):

#b(2), n(2), #s(2), ɹ(2), l(2), #k^h(2), k#(2), #w(2), ɪ(2), o^w#(2), æ(2) 4.87%

(12):

a(3), 25.00%
ɪ(2), o^w#(2), æ(2) 16.66%

First Syllable Segment Stressed (77):

n(11), 14.28%
#s(7), #l(7), 9.09%
#p^h(5), 6.49%
ɹ(4), #k^h(4), 5.19%
#m(3), #f(3), #d(3), l(3), t(3), #w(3), 3.89%
#t^h(2), s(2), #ɹ(2), #g(2) 2.59%

(56):

a(9), 16.07%
i^j(8), ɪ(8), 14.28%
æ(5), 8.92%
u^w(4), ε(4), 7.14%
#a(3), 5.35%
#i^j(2), o(2), o^w(2), a^j(2) 3.57%

First Syllable Segment Unstressed (47):

#b(6), n(6), 12.76%
#s(4), #k^h(4), 8.51%
#d(3), #ɹ(3), ɹ(3), #k(3), 6.38%
#m(2), #z(2) 4.25%

(46):

ə(11), 23.91%
ɪ(4), a(4), #a(4), 8.69%
i^j(3), #ə(3), 6.52%
#u^w(2), o^w(2), ε(2) 4.34%

Second Syllable Segment Stressed (54):

ɹ(7), l(7), 12.96%
n(5), s(4), z(4), 9.25%
t^h(3), 5.55%
p^h(2), b(2), d(2), ɹ#(2), t#(2), k(2), w(2) 3.70%

(36):

a(7), 19.44%
i^j(6), 16.66%
u^w(4), ɪ(4), 11.11%

æ(3), 8.33%
eⁱ(2), ε(2) 5.55%

Second Syllable Segment Unstressed (106):

s(7), 6.60%
f(6), d(6), n(6), l(6), 5.66%
b(5), t(5), n#(5), k(5), 4.71%
ʷη#(4), w(4), 3.77%
p^h(3), m(3), d#(3), ɹ(3), ɤ#(3), 2.83%
v(2), ʷη(2), s#(2), z(2), ʃ(2), j(2), k#(2), g(2) 1.88%

(56):

ə(14), 25.00%
ɪ(6), a(6), 10.71%
ε(4), 7.14%
o^w#(3), æ(3), 5.35%
i^j(2), iⁱ#(2), u^w(2), o#(2), ə#(2), ʌ(2) 3.57%

Third Syllable Segment Stressed:

(8):

eⁱ(2) 25.00%

Third Syllable Segment Unstressed (61):

l(6), 9.83%
ɹ(5), 8.19%
t(4), n(4), w(4), 6.55%
d#(3), s(3), 4.91%
b(2), f(2), n#(2), ʷη#(2), r(2), ʃ(2), ɤ#(2), j(2), k(2) 3.27%

(37):

o^w#(6), 16.21%
ə(5), 13.51%
ə#(4), a(4), 10.81%
i^j(3), 8.10%
u^w#(2), eⁱ#(2), ʌ#(2), a#(2) 5.40%

Fourth Syllable Segment Stressed:

Fourth Syllable Segment Unstressed (15):

l(3), 20.00%
m(2), n#(2), ɹ(2) 13.33%

(15):

ə#(3), 20.00%
ɪ(2), o^w#(2), a(2), a#(2) 13.33%

Fifth Syllable Segment Stressed:

Fifth Syllable Segment Unstressed:

Segment Total by Syllable

First Syllable Segment (124):

n(17), 13.70%
#s(11), 8.87%
#l(8), #k^h(8), 6.45%
ɹ(7), 5.64%
#b(6), #d(6), 4.83%
#p^h(5), #m(5), #ɹ(5), 4.03%
#f(4), t(4), #k(4), 3.22%
#t^h(3), #z(3), l(3), #g(3), #w(3), 2.41%
s(2), k(2), #h(2) 1.61%

(102):
 a(13), 12.74%
 ɪ(12), 11.76%
 i^j(11), ə(11), 10.78%
 #a(7), 6.86%
 ɛ(6), æ(6), 5.88%
 u^w(5), 4.90%
 o^w(4), 3.92%
 #u^w(3), #ə(3), 2.94%
 #i^j(2), o(2), ɔ(2), aⁱ(2) 1.96%

Second Syllable Segment (160):
 l(13), 8.12%
 n(11), s(11), 6.87%
 ɹ(10), 6.25%
 d(8), 5.00%
 b(7), k(7), 4.37%
 f(6), n#(6), z(6), w(6), 3.75%
 p^h(5), t(5), 3.12%
 m(4), t^h(4), ʔη#(4), 2.50%
 v(3), d#(3), s#(3), ʃ(3), ɹ#(3), ʔ#(3), g(3), 1.87%
 p(2), t#(2), t^ʔ#(2), ʔη(2), t#(2), j(2), k^h(2), k#(2) 1.25%

(92):
 ə(14), 15.21%
 a(13), 14.13%
 ɪ(10), 10.86%
 i^j(8), 8.69%
 u^w(6), ɛ(6), æ(6), 6.52%
 o^w#(3), 3.26%
 i^j#(2), eⁱ#(2), e^j(2), o#(2), ə#(2), ʔ(2), a#(2) 2.17%

Third syllable Segment (69):
 l(7), 10.14%
 ɹ(6), 8.69%
 n(5), 7.24%
 t(4), s(4), w(4), 5.79%
 d#(3), k(3), 4.34%
 b(2), f(2), d(2), n#(2), ʔη#(2), r(2), z(2), ʃ(2), ʔ#(2), j(2) 2.89%

(45):
 o^w#(6), 13.33%
 ə(5), 11.11%
 ə#(4), a(4), 8.88%
 i^j(3), ʔ#(3), 6.66%
 u^w#(2), eⁱ#(2), e^j(2), a#(2) 4.44%

Fourth Syllable Segment (16):
 l(3), 18.75%
 m(2), n#(2), ɹ(2) 12.50%

(16):
 ə#(3), a(3), 18.75%
 ɪ(2), o^w#(2), a#(2) 12.50%

Fifth Syllable Segment:

Segment Stressed and Unstressed Total

Stressed Segment (140):

n(17), 12.14%
 ɹ(12), 8.57%
 l(11), 7.85%
 #s(7), s(7), #l(7), 5.00%
 z(6), 4.28%
 #p^h(5), 3.57%
 t^h(4), d(4), #k^h(4), 2.85%
 k(4), b(3), #m(3), #f(3), #d(3), ʔ(3), #w(3), 2.14%
 p^h(2), p(2), #t^h(2), #ɹ(2), ɹ#(2), ʔ#(2), #g(2), w(2) 1.42%

(101):

a(17), 16.83%
 iⁱ(14), 13.86%
 ɪ(12), 11.88%
 u^w(9), 8.91%
 æ(8), 7.92%
 ε(6), 5.94%
 eⁱ(5), 4.95%
 o(4), 3.96%
 o^w(3), aⁱ(3), #a(3), 2.97%
 #iⁱ(2), ɔ(2) 1.98%

Unstressed Segment (230):

n(16), 6.95%
 l(15), 6.52%
 ɹ(14), 6.08%
 s(11), 4.78%
 t(9), n#(9), w(9), 3.91%
 f(8), k(8), 3.47%
 b(7), m(7), d(7), 3.04%
 #b(6), d#(6), ʔ#(6), 2.60%
 ʔ#(5), 2.17%
 #s(4), f(4), j(4), #k^h(4), 1.73%
 p^h(3), #d(3), r(3), s#(3), z(3), #ɹ(3), ʔ(3), #k(3), k#(3), g(3), 1.30%
 #m(2), ʔ#(2), v(2), t^h(2), t^w(2), ʔ#(2), θ(2), z#(2), #z(2), h(2) .86%

(156):

ə(30), 19.23%
 a(16), 10.25%
 ɪ(13), 8.33%
 o^w#(11), 7.05%
 ə#(10), 6.41%
 iⁱ(9), 5.76%
 ε(7), 4.48%
 eⁱ#(5), æ(5), a#(5), 3.20%
 iⁱ#(4), ə(4), #a(4), 2.56%
 u^w(3), u^w#(3), #ə(3), a#(3), 1.92%
 #u^w(2), ʊ(2), o#(2), o^w(2), ə#(2) 1.28%

Segment Total (absolute)

Narrow (411):

n(35), 8.51%
 ɹ(28), l(28), 6.81%
 s(18), 4.37%
 #s(13), 3.16%
 d(11), w(11), 2.67%
 b(10), t(10), n#(10), z(10), #k^h(10), 2.43%

#b(8), m(8), f(8), #l(8), k(8), 1.94%
d#(7), 1.70%
#p^h(6), t^h(6), #d(6), əŋ#(6), t(6), 1.45%
p^h(5), #m(5), #f(5), s#(5), ʃ(5), #ɹ(5), ʌ#(5), k#(5), #w(5), 1.21%
p(4), ɹ#(4), t#(4), j(4), #k(4), g(4), .97%
v(3), #t^h(3), t#(3), t^ʰ#(3), r(3), #z(3), #g(3), h(3), .72%
əŋ#(2), əŋ(2), θ(2), z#(2), #f(2), ʒ(2), k^h(2), ŋ#(2), ŋ(2), #h(2) .48%

(269):
a(36), 13.38%
ə(30), 11.15%
ɪ(27), 10.03%
iⁱ(24), 8.92%
æ(15), 5.57%
o^w#(13), ε(13), 4.83%
u^w(12), 4.46%
ə#(10), 3.71%
#a(7), 2.60%
eⁱ#(6), o^w(6), a#(6), 2.23%
eⁱ(5), 1.85%
iⁱ#(4), o(4), ə(4), ɔ(4), aⁱ(4), 1.48%
#u^w(3), u^w#(3), #ə(3), ə#(3), a#(3), 1.11%
#iⁱ(2), ʊ(2), o#(2), a^w(2) .74%

Broad (411):
n(54), 13.13%
s(37), ɹ(37), l(37), 9.00%
k(29), 7.05%
t(25), 6.08%
d(24), 5.83%
b(19), 4.62%
m(16), t(16), w(16), 3.89%
p(15), z(15), 3.64%
f(14), 3.40%
ʃ(8), 1.94%
g(7), 1.70%
j(5), h(5), 1.21%
θ(4), ŋ(4), .97%
v(3), r(3), .72%
ʒ(2) .48%

(269):
a(49), 18.21%
ə(43), 15.98%
i(32), 11.89%
ɪ(28), 10.40%
o(25), 9.29%
u(19), 7.06%
æ(17), 6.31%
ε(15), 5.57%
a(13), 4.83%
e(12), 4.46%
ə(7), 2.60%
ɔ(4), 1.48%
ʌ(3), 1.11%
ʊ(2) .74%

680 total segments

Supra-Segments: Consonant Clusters

Consonant Cluster Total for Stressed and Unstressed Syllables and Monosyllables according to Syllable Configuration

Monosyllable Consonant Cluster Onset (all entries are word initial):

Monosyllable Consonant Cluster Coda (all entries are word final):

First Syllable Consonant Cluster Stressed Onset (all entries are word initial):

First Syllable Consonant Cluster Stressed Coda:

First Syllable Consonant Cluster Unstressed Onset (all entries are word initial):

First Syllable Consonant Cluster Unstressed Coda:

Second Syllable Consonant Cluster Stressed Onset:

Second Syllable Consonant Cluster Stressed Coda:

Second Syllable Consonant Cluster Unstressed Onset:

Second Syllable Consonant Cluster Unstressed Coda:

Third Syllable Consonant Cluster Stressed Onset:

Third Syllable Consonant Cluster Stressed Coda:

Third Syllable Consonant Cluster Unstressed Onset (4):

st(2) 50.00%

Third Syllable Consonant Cluster Unstressed Coda:

Fourth Syllable Consonant Cluster Stressed Onset:

Fourth Syllable Consonant Cluster Stressed Coda:

Fourth Syllable Consonant Cluster Unstressed Onset:

Fourth Syllable Consonant Cluster Unstressed Coda:

Fifth Syllable Consonant Cluster Stressed Onset:

Fifth Syllable Consonant Cluster Stressed Coda:

Fifth Syllable Consonant Cluster Unstressed Onset:

Fifth Syllable Consonant Cluster Unstressed Coda:

Consonant Cluster Total for Stressed and Unstressed Onsets and Codas

Stressed Onset:

Stressed Coda:

Unstressed Onset (11):

st(2) 18.18%

Unstressed Coda:

Consonant Cluster Total for Onsets and Codas

Onset (20):

st(2), #k^hl(2) 10.00%

Coda:

Consonant Cluster Total for Stressed and Unstressed Syllables and Monosyllables

Monosyllable Consonant Cluster:

First Syllable Consonant Cluster Stressed:

First Syllable Consonant Cluster Unstressed:

Second Syllable Consonant Cluster Stressed:

Second Syllable Consonant Cluster Unstressed:

Third Syllable Consonant Cluster Stressed:

Third Syllable Consonant Cluster Unstressed (6):

st(2) 33.33%

Fourth Syllable Consonant Cluster Stressed:

Fourth Syllable Consonant Cluster Unstressed:

Fifth Syllable Consonant Cluster Stressed:

Fifth Syllable Consonant Cluster Unstressed:

Consonant Cluster Total per Syllable

First Syllable Consonant Cluster:

Second Syllable Consonant Cluster:

Third Syllable Consonant Cluster (6):
st(2) 33.33%

Fourth Syllable Consonant Cluster:

Fifth Syllable Consonant Cluster:

Consonant Cluster Stressed and Unstressed Total

Consonant Cluster Stressed:

Consonant Cluster Unstressed (17):
st(2) 11.76%

Consonant Cluster Total (absolute)

Narrow (32):
st(2), #k^hl(2) 6.25%

Broad (32):
kl(3), 9.37%
fl(2), fɹ(2), st(2), spl(2) tɹ(2), kw(2) 6.25%

32 total consonant clusters

Supra-Segments: Whole Syllables

Whole Syllable Total for Stressed and Unstressed Syllables and Monosyllables

Monosyllable Whole Syllable:

First Syllable Whole Syllable Stressed (all entries are word initial) (57):
#i^l(2), #p^hɹ(2) 3.50%

First Syllable Whole Syllable Unstressed (all entries are word initial) (45):
#ə(3), 6.66%
#ɹi^l(2), #u^w(2), #də(2), #a(2) 4.44%

Second Syllable Whole Syllable Stressed:

Second Syllable Whole Syllable Unstressed (67):
p^hə(2), də(2), s^əŋ#(2), sə(2) 2.98%

Third Syllable Whole Syllable Stressed:

Third Syllable Whole Syllable Unstressed (44):
lo^w#(2) 4.54%

Fourth Syllable Whole Syllable Stressed:

Fourth Syllable Whole Syllable Unstressed:

Fifth Syllable Whole Syllable Stressed:

Fifth Syllable Whole Syllable Unstressed:

Whole Syllable Total per Syllable

First Syllable Whole Syllable (all entries are word initial) (102):
#u^w(3), #ə(3), #a(3), 2.94%

#iⁱ(2), #ɹiⁱ(2), #k^hiⁱ(2), #bu^w(2), #p^hɪ(2), #də(2) 1.96%

Second Syllable Whole Syllable (102):
p^hə(2) də(2), s^əŋ#(2), sə(2) 1.96%

Third Syllable Whole Syllable (52):
lo^w#(2) 3.84%

Fourth Syllable Whole Syllable:
Fifth Syllable Whole Syllable:

Whole Syllable Stressed and Unstressed Total

Whole Syllable Stressed (101):
#iⁱ(2), #p^hɪ(2) 1.98%

Whole Syllable Unstressed (172):
lo^w#(3), #ə(3), 1.74%

#ɹiⁱ(2), #u^w(2), ɹeⁱ#(2), o^w#(2), ə#(2), p^hə(2) də(2), #də(2), nə(2), rə(2), s^əŋ#(2), sə(2), lə#(2), k^əɪ#(2), fə(2), #a(2) 1.16%

Whole Syllable Total (absolute)

Narrow (285):

#u^w(3), lo^w#(3), #ə(3), #a(3), 1.05%

#iⁱ(2), #ɹiⁱ(2), liⁱ(2), #k^hiⁱ(2), #bu^w(2), #p^hɪ(2), ɹeⁱ#(2), o^w#(2), ə#(2), p^hə(2) də(2), #də(2), nə(2), rə(2), s^əŋ#(2), sə(2), lə#(2), k^əɪ#(2), fə(2) .70%

Broad (285):

lo(5), ə(5), 1.75%

də(4), ta(4), 1.40%

i(3), ɹi(3), u(3), ɹe(3), we(3), so(3), ko(3), pə(3), mə(3), sə(3), lə(3), a(3), 1.05%

pi(2), ti(2), di(2), ni(2), li(2), ki(2), bu(2), nu(2), ɹu(2), lu(2), pi(2), lɪn(2), ki(2), o(2), to(2), bə(2), nə(2), rə(2), stə(2), s^əŋ(2), ɹə(2), k^əɪ(2), kə(2), gə(2), fə(2), də(2), nə(2), kæn(2), paɪ(2), ta(2), laŋ(2) .70%

285 total whole syllables

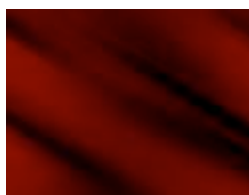
Supra-Segments: Whole Words

	Syllable Receiving Stress					
	None	First	Second	Third	Fourth	Fifth
Word Length Total						
Monosyllabic: 10.52%						
Bisyllabic: 43.85%	0	80.00%/71.42%	20.00%/27.77%			
Trisyllabic: 32.45%	5.40%/100%	37.83%/25.00%	54.05%/55.55%	2.70%/16.66%		
Tetrasyllabic: 11.40%	0	15.38%/3.57%	46.15%/16.66%	38.46%/83.33%	0	
Pentasyllabic: 1.75%	0	0	0	50.00%/16.66%	50.00%/100%	0
Stressed Syllable Total:		56.56%	36.36%	6.06%	1.01%	0

Table Key: The “Word Length Total” column figure represents the percentage of words that is of that word length. For the cells inside the “Syllable Receiving Stress” columns, the amount on top indicates what percentage of a particular word length was stressed on that syllable. The number on the bottom indicates, for all the words that received stress on a particular syllable, what percentage of these words were of a particular word length. The “Stressed Syllable Total” row indicates what percentage of words was stressed on a particular syllable. Note that monosyllables were not analyzed as receiving stress and the “None” cell in the “Stressed Syllable Total” row is inapplicable.

For all 114 whole words there are no repeated words.

Question ID: Z.



Segments

Segment Total for Stressed and Unstressed Syllables and Monosyllables according to Syllable Configuration

Monosyllable Onset (41):

#b(4), #s(4), ɹ(4), l(4), 9.75%

#f(3), #ɹ(3), 7.31%

#p^h(2), #f(2), t(2), w(2) 4.87%

Monosyllable Nucleus (28):

a(7), 25.00%

iⁱ(3), ɪ(3), ε(3), æ(3), 10.71%

o^w(2), ʌ(2) 7.14%

Monosyllable Coda (36):

d#(5), 13.88%

z#(4), 11.11%

ʃ#(3), t(3), 8.33%

m#(2), f#(2), t#(2), n(2) 5.55%

First Syllable Segment Stressed Onset (70):

#s(11), #ɹ(11), 15.71%

#m(6), 8.57%

ɹ(5), #l(5), 7.14%

#b(4), w(4), 5.71%

#f(3), #w(3), 4.28%

#f(2), #v(2), #d(2), n(2), l(2), #k^h(2) 2.85%

First Syllable Segment Stressed Nucleus (57):

a(11), 19.29%

ɪ(8), 14.03%

iⁱ(7), æ(7), 12.28%

ε(6), 10.52%

u^w(4), eⁱ(4), 7.01%

o^w(3), 5.26%

aⁱ(2) 3.50%

First Syllable Segment Stressed Coda (27):

n(7), ɹ(7), 25.92%

z(2), t(2), k(2), g(2) 7.40%

First Syllable Segment Unstressed Onset (26):

#f(4), #s(4), #ɹ(4), 15.38%

#d(3), l(3) 11.53%

First Syllable Segment Unstressed Nucleus (28):

ə(12), 42.85%

#ə(3), 10.71%

iⁱ(2), u^w(2), æ(2) 7.14%

First Syllable Segment Unstressed Coda (4):

n(3) 75.00%

Second Syllable Segment Stressed Onset (32):

ɹ(5), l(5), 15.62%
f(3), j(3), 9.37%
m(2), t^h(2), n(2), s(2), w(2) 6.25%

Second Syllable Segment Stressed Nucleus (27):

eⁱ(4), o^w(4), æ(4), 14.81%
ɪ(3), a(3), 11.11%
u^w(2), ε(2) 7.40%

Second Syllable Segment Stressed Coda (18):

n(4), 22.22%
t[#](2), n[#](2), f[#](2) 11.11%

Second Syllable Segment Unstressed Onset (59):

z(8), 13.55%
l(7), 11.86%
n(6), 10.16%
d(5), s(5), 8.47%
f(4), t(4), ɹ(4), 6.77%
k(3), 5.08%
b(2), r(2), k^h(2) 3.38%

Second Syllable Segment Unstressed Nucleus (58):

ɪ(8), ə(8), 13.79%
a(6), 10.34%
əŋ[#](5), 8.62%
iⁱ[#](3), o^w[#](3), əŋ(3), ɹ^h[#](3), ʌ[#](3), 5.17%
u^w[#](2), o^w(2), əŋ[#](2), ʌ(2) 3.44%

Second Syllable Segment Unstressed Coda (24):

n[#](7), 29.16%
t[˞][#](4), d[#](4), 16.66%
k[#](3) 12.50%

Third Syllable Segment Stressed Onset:

Third Syllable Segment Stressed Nucleus:

Third Syllable Segment Stressed Coda:

Third Syllable Segment Unstressed Onset (25):

n(5), ɹ(5), 20.00%
f(4), 16.00%
s(3), ʒ(3), 12.00%
d(2) 8.00%

Third Syllable Segment Unstressed Nucleus (23):

ə(6), 26.08%
əŋ[#](3), ə[#](3), 13.04%
iⁱ[#](2), iⁱ(2), ɪ(2), eⁱ(2) 8.69%

Third Syllable Segment Unstressed Coda (8):

t[˞][#](2), s[#](2) 25.00%

Fourth Syllable Segment Stressed Onset:

Fourth Syllable Segment Stressed Nucleus:

Fourth Syllable Segment Stressed Coda:

Fourth Syllable Segment Unstressed Onset:

Fourth Syllable Segment Unstressed Nucleus (6):

ə(2) 33.33%

Fourth Syllable Segment Unstressed Coda (4):

d[˞][#](2) 50.00%

Fifth Syllable Segment Stressed Onset:

Fifth Syllable Segment Stressed Nucleus:**Fifth Syllable Segment Stressed Coda:**

Fifth Syllable Segment Unstressed Onset:

Fifth Syllable Segment Unstressed Nucleus:

Fifth Syllable Segment Unstressed Coda:

Segment Total for Stressed and Unstressed Onsets and Codas

Stressed Onset (103):

#s(11), #ɹ(11), 10.67%

ɹ(10), 9.70%

l(8), 7.76%

#m(6), w(6), 5.82%

#l(5), 4.85%

#b(4), n(4), j(4), 3.88%

f(3), #f(3), #w(3), 2.91%

m(2), #f(2), #v(2), t^h(2), t(2), #d(2), s(2), #k^h(2) 1.94%**Stressed Coda (45):**

n(11), 24.44%

ɹ(7), 15.55%

k(3), 6.66%

t#(2), n#(2), s(2), z(2), f#(2), t(2), g(2) 4.44%

Unstressed Onset (115):

n(12), 10.43%

ɹ(10), l(10), 8.69%

s(8), z(8), 6.95%

d(7), 6.08%

t(6), 5.21%

f(5), f(5), 4.34%

#f(4), #s(4), #ɹ(4), k(4), 3.47%

#d(3), r(3), ʒ(3), 2.60%

b(2), m(2), θ(2), k^h(2), w(2) 1.73%

Unstressed Coda (39):

n#(8), 20.51%

t̃#(6), 15.38%

d#(5), 12.82%

s#(4), 10.25%

n(3), k#(3), 7.69%

t#(2), d̃#(2), s(2) 5.12%

Segment Total for Onsets and Codas

Onset (259):

ɹ(24), 9.26%

l(22), 8.49%

#s(19), 7.33%

#ɹ(18), 6.94%

n(16), 6.17%

t(10), s(10), w(10), 3.86%

#b(8), #m(8), #f(8), f(8), d(8), z(8), 3.08%

#d(6), #f(6), #l(6), 2.31%

f(5), j(5), 1.93%

m(4), #k^h(4), k(4), 1.54%b(3), #v(3), r(3), #z(3), ʒ(3), k^h(3), #w(3), 1.15%#p^h(2), p(2), v(2), #t^h(2), t^h(2), #dʒ(2), θ(2), g(2), #h(2) .77%

Coda (120):

n(16), 13.33%

d#(11), 9.16%
 n#(10), 8.33%
 ʌ(8), 6.66%
 t̃#(7), 5.83%
 t#(6), s#(6), f#(6), 5.00%
 s(5), z#(5), ʔ(5), k#(5), 4.16%
 d̃#(3), k(3), 2.50%
 m#(2), f#(2), z(2), ɹ#(2), g(2) 1.66%

Segment Total for Stressed and Unstressed Syllables and Monosyllables

Monosyllable Segment (77):

d#(5), ʌ(5), 6.49%
 #b(4), #s(4), z#(4), l(4), 5.19%
 #f(3), f#(3), #ɹ(3), ʔ(3), 3.89%
 #p^h(2), m#(2), f#(2), #f(2), t#(2), t(2), n(2), w(2) 2.59%

(28):

a(7), 25.00%
 i^j(3), ɪ(3), ε(3), æ(3), 10.71%
 o^w(2), ʌ(2) 7.14%

First Syllable Segment Stressed (97):

ʌ(12), 12.37%
 #s(11), #ɹ(11), 11.34%
 n(9), 9.27%
 #m(6), 6.18%
 #l(5), 5.15%
 #b(4), w(4), 4.12%
 #f(3), #w(3), 3.09%
 p(2) #f(2), #v(2), #d(2), z(2), l(2), ʔ(2), #k^h(2), k(2), g(2) 2.06%

(57):

a(11), 19.29%
 ɪ(8), 14.03%
 i^j(7), æ(7), 12.28%
 ε(6), 10.52%
 u^w(4), eⁱ(4), 7.01%
 o^w(3), 5.26%
 aⁱ(2) 3.50%

First Syllable Segment Unstressed (30):

#f(4), #s(4), #ɹ(4), 13.33%
 #d(3), n(3), l(3) 10.00%

(28):

ə(12), 42.85%
 #ə(3), 10.71%
 i^j(2), u^w(2), æ(2) 7.14%

Second Syllable Segment Stressed (50):

n(6), 12.00%
 ʌ(5), l(5), 10.00%
 f(3), s(3), j(3), 6.00%
 m(2), t^h(2), t#(2), n#(2), f#(2), w(2) 4.00%

(27):

eⁱ(4), o^w(4), æ(4), 14.81%
 ɪ(3), a(3), 11.11%
 u^w(2), ε(2) 7.40%

Second Syllable Segment Unstressed (97):

z(8), 8.24%

n#(7), l(7), 7.21%

n(6), 6.18%

d(5), ɹŋ#(5), s(5), 5.15%

f(4), t(4), tʰ(4), d#(4), ɹ(4), 4.12%

ɹŋ(3), ɹʰ(3), k(3), k#(3), 3.09%

b(2), ɹm#(2), r(2), kʰ(2) 2.06%

(44):

ɪ(8), ə(8), 18.18%

a(6), 13.63%

iʰ(3), oʷ(3), ʌ#(3), 6.81%

uʷ(2), oʷ(2), ʌ(2) 4.54%

Third Syllable Segment Stressed:

Third Syllable Segment Unstressed (36):

n(5), ɹ(5), 13.88%

s(4), ʃ(4), 11.11%

ɹŋ#(3), ʒ(3), 8.33%

tʰ#(2), d(2), s#(2) 5.55%

(20):

ə(6), 30.00%

ə#(3), 15.00%

iʰ#(2), iʰ(2), ɪ(2), eʲ(2) 10.00%

Fourth Syllable Segment Stressed:

Fourth Syllable Segment Unstressed (10):

dʷ#(2) 20.00%

(4):

ə(2) 50.00%

Fifth Syllable Segment Stressed:

Fifth Syllable Segment Unstressed:

Segment Total by Syllable

First Syllable Segment (127):

#s(15), #ɹ(15), 11.81%

n(12), ɹ(12), 9.44%

#m(7), 5.51%

#f(6), 4.72%

#d(5), #l(5), l(5), w(5), 3.93%

#b(4), 3.14%

#v(3), #ʃ(3), #kʰ(3), k(3), #w(3), 2.36%

p(2) s(2), z(2), #z(2), t(2), g(2) 1.57%

(81):

ə(12), a(12), 14.81%

iʰ(9), æ(9), 11.11%

ɪ(8), 9.87%

uʷ(6), ɛ(6), 7.40%

eʲ(4), oʷ(4), 4.93%

#ə(3), 3.70%

#iʰ(2), aʲ(2) 2.46%

Second Syllable Segment (147):

n(12), l(12), 8.16%

n#(9), ɹ(9), 6.12%
 s(8), z(8), 5.44%
 f(7), 4.76%
 d(6), 4.08%
 t(5), d#(5), ʔŋ#(5), 3.40%
 t̃#(4), j(4), k(4), k#(4), 2.72%
 b(3), m(3), t#(3), ʔŋ(3), f#(3), ʔt#(3), k^h(3), w(3), 2.04%
 ʔm̥#(2), v(2), t^h(2), r(2), s#(2), g(2) 1.36%

(71):
 ɪ(11), 15.49%
 a(9), 12.67%
 ə(8), 11.26%
 o^w(6), 8.45%
 eⁱ(4), æ(4), 5.63%
 i^j#(3), o^w#(3), ə#(3), 4.22%
 i^j(2), u^w#(2), u^w(2), ə(2), ε(2) 2.81%

Third syllable Segment (38):
 n(5), ɹ(5), 13.15%
 s(4), f(4), 10.52%
 ʔŋ#(3), ʒ(3), 7.89%
 t̃#(2), d(2), s#(2) 5.26%

(20):
 ə(6), 30.00%
 ə#(3), 15.00%
 i^j#(2), i^j(2), ɪ(2), eⁱ(2) 10.00%

Fourth Syllable Segment (11):
 d̃#(2) 18.18%

(5):
 ə(2) 40.00%

Fifth Syllable Segment:

Segment Stressed and Unstressed Total

Stressed Segment (148):
 ɹ(17), 11.48%
 n(15), 10.13%
 #s(11), #ɹ(11), 7.43%
 l(8), 5.40%
 #m(6), w(6), 4.05%
 #l(5), 3.37%
 #b(4), s(4), j(4), 2.70%
 f(3), #f(3), k(3), g(3), #w(3), 2.02%
 p(2) m(2), #f(2), #v(2), t(2), t^h(2), #d(2), d(2), z(2), f#(2), t̃(2), #k^h(2), 1.35%

(85):
 a(14), 16.47%
 ɪ(11), æ(11), 12.94%
 ε(9), 10.58%
 i^j(8), eⁱ(8), 9.41%
 o^w(7), 8.23%
 u^w(6), 7.05%
 ɔ(2), aⁱ(2), a^w(2) 2.35%

Unstressed Segment (174):
 n(15), 8.62%

s(10), ɹ(10), l(10), 5.74%
 ʌ̃(9), 5.17%
 n(8), z(8), 4.59%
 d(7), 4.02%
 t(6), t̃(6), 3.44%
 f(5), d(5), ʃ(5), 2.87%
 #f(4), #s(4), s(4), #ɹ(4), k(4), 2.29%
 ʌ̃(3), #d(3), ʌ̃(3), r(3), ʒ(3), ʌ̃(3), k(3), 1.72%
 b(2), m(2), t(2), d̃(2), θ(2), k^h(2), w(2) 1.14%

(97):
 ə(28), 28.86%
 ɪ(10), 10.30%
 a(8), 8.24%
 iⁱ(5), iⁱ(5), 5.15%
 o^w(4), o^w(4), 4.12%
 #ə(3), ə(3), ʌ(3), ʌ(3), 3.09%
 u^w(2), u^w(2), eⁱ(2), eⁱ(2), æ(2) 2.06%

Segment Total (absolute)

Narrow (399):
 n(32), ɹ(32), 8.02%
 l(22), 5.51%
 #s(19), 4.76%
 #ɹ(18), 4.51%
 s(15), 3.75%
 d(11), 2.75%
 t(10), n(10), z(10), w(10), 2.50%
 f(9), d(9), ʌ̃(9), 2.25%
 #b(8), #m(8), #f(8), 2.00%
 t̃(7), k(7), 1.75%
 t(6), #d(6), s(6), #f(6), ʃ(6), #l(6), 1.50%
 z(5), ʃ(5), ʔ(5), j(5), k(5), 1.25%
 b(4), m(4), ʒ(4), #k^h(4), g(4), 1.00%
 p(3), ʌ̃(3), #v(3), d̃(3), ʌ̃(3), r(3), #z(3), ʌ̃(3), k^h(3), #w(3), .75%
 #p^h(2), m(2), f(2), v(2), #t^h(2), t^h(2), #d̃(2), θ(2), ɹ(2), ʔ(2), #h(2) .50%

(210):
 a(29), 13.80%
 ə(28), 13.33%
 ɪ(24), 11.42%
 iⁱ(16), æ(16), 7.61%
 o^w(13), ɛ(13), 6.19%
 eⁱ(11), 5.23%
 u^w(8), 3.80%
 iⁱ(5), o^w(5), 2.38%
 eⁱ(3), #ə(3), ə(3), ʌ(3), ʌ(3), aⁱ(3), 1.42%
 #iⁱ(2), u^w(2), #ɪ(2), ʌ(2), ɔ(2), a^w(2) .95%

Broad (399):
 n(54), 13.53%
 ɹ(52), 13.03%
 s(40), 10.02%
 d(29), 7.26%
 l(28), 7.01%
 t(27), 6.76%
 f(19), k(19), 4.76%

z(18), ʃ(18), 4.51%
 m(17), 4.26%
 b(13), w(13), 3.25%
 t(11), 2.75%
 p(6), g(6), 1.50%
 v(5), ʒ(5), j(5), 1.25%
 r(3), h(3), .75%
 dʒ(2), θ(2) .50%

(210):
 ə(34), 16.19%
 ʌ(33), 15.71%
 ɪ(26), 12.38%
 i(24), 11.42%
 ɒ(18), 8.57%
 æ(17), 8.09%
 e(14), ɛ(14), 6.66%
 u(10), 4.76%
 ʌ(6), a(6), 2.85%
 ʌ(3), ɔ(3) 1.42%

609 total segments

Supra-Segments: Consonant Clusters

Consonant Cluster Total for Stressed and Unstressed Syllables and Monosyllables according to Syllable Configuration

Monosyllable Consonant Cluster Onset (all entries are word initial) (13):

#bl(2) 15.38%

Monosyllable Consonant Cluster Coda (all entries are word final):

First Syllable Consonant Cluster Stressed Onset (all entries are word initial) (15):

#sw(3), 20.00%

#bɹ(2) 13.33%

First Syllable Consonant Cluster Stressed Coda:

First Syllable Consonant Cluster Unstressed Onset (all entries are word initial):

First Syllable Consonant Cluster Unstressed Coda:

Second Syllable Consonant Cluster Stressed Onset:

Second Syllable Consonant Cluster Stressed Coda:

Second Syllable Consonant Cluster Unstressed Onset (3):

bl(2) 66.66%

Second Syllable Consonant Cluster Unstressed Coda:

Third Syllable Consonant Cluster Stressed Onset:

Third Syllable Consonant Cluster Stressed Coda:

Third Syllable Consonant Cluster Unstressed Onset:

Third Syllable Consonant Cluster Unstressed Coda:

Fourth Syllable Consonant Cluster Stressed Onset:

Fourth Syllable Consonant Cluster Stressed Coda:

Fourth Syllable Consonant Cluster Unstressed Onset:

Fourth Syllable Consonant Cluster Unstressed Coda:

Fifth Syllable Consonant Cluster Stressed Onset:

Fifth Syllable Consonant Cluster Stressed Coda:

Fifth Syllable Consonant Cluster Unstressed Onset:

Fifth Syllable Consonant Cluster Unstressed Coda:

Consonant Cluster Total for Stressed and Unstressed Onsets and Codas

Stressed Onset (20):

#sw(3), 15.00%
#bɹ(2) 10.00%

Stressed Coda:

Unstressed Onset (9):
bl(2) 22.22%

Unstressed Coda (5):
st#(2) 40.00%

Consonant Cluster Total for Onsets and Codas

Onset (42):
#sw(4), 9.52%
#bɹ(3), bl(3), #fl(3), 7.14%
#sp(2), #stɹ(2), #fw(2), #kʰɹ(2) 4.76%

Coda (19):
st#(3), 15.78%
nz#(2), td#(2) 10.52%

Consonant Cluster Total for Stressed and Unstressed Syllables and Monosyllables

Monosyllable Consonant Cluster (23):
#bl(2) 8.69%

First Syllable Consonant Cluster Stressed (18):

#sw(3), 16.66%
#bɹ(2), #sn(2) 11.11%

First Syllable Consonant Cluster Unstressed:

Second Syllable Consonant Cluster Stressed:

Second Syllable Consonant Cluster Unstressed (7):
bl(2) 28.57%

Third Syllable Consonant Cluster Stressed:

Third Syllable Consonant Cluster Unstressed:

Fourth Syllable Consonant Cluster Stressed:

Fourth Syllable Consonant Cluster Unstressed:

Fifth Syllable Consonant Cluster Stressed:

Fifth Syllable Consonant Cluster Unstressed:

Consonant Cluster Total per Syllable

First Syllable Consonant Cluster (22):
#sw(4), 18.18%
#bɹ(2), #fl(2), #sn(2) 9.09%

Second Syllable Consonant Cluster (13):
bl(3) 23.07%

Third Syllable Consonant Cluster:

Fourth Syllable Consonant Cluster:

Fifth Syllable Consonant Cluster:

Consonant Cluster Stressed and Unstressed Total

Consonant Cluster Stressed (24):

#sw(3), 12.50%

#bɹ(2) 8.33%

Consonant Cluster Unstressed (14):

bl(2), st#(2) 14.28%

Consonant Cluster Total (absolute)

Narrow (61):

#sw(4), 6.55%

bl(3), #fl(3), st#(3), 4.91%

#bl(2), #bɹ(2), #sn(2), #sp(2), #stɹ(2), #fw(2), #kʰɹ(2) 3.27%

Broad (61):

bl(5), st(5), 8.19%

fl(4), sw(4), 6.55%

bɹ(3), 4.91%

mj(2), fɹ(2), dɹ(2), ns(2), nz(2), sn(2), sp(2), stɹ(2), fw(2), ɫd(2), kɹ(2) 3.27%

61 total consonant clusters

Supra-Segments: Whole Syllables

Whole Syllable Total for Stressed and Unstressed Syllables and Monosyllables

Monosyllable Whole Syllable:

First Syllable Whole Syllable Stressed (all entries are word initial):

First Syllable Whole Syllable Unstressed (all entries are word initial) (28):

#ə(3), 10.71%

#də(2), #sə(2), #ɹə(2) 7.14%

Second Syllable Whole Syllable Stressed (27):

tʰeɪ(2) 7.40%

Second Syllable Whole Syllable Unstressed (58):

loʷ#(2), sə(2), zʷm#(2), kʷŋ#(2), ɹad#(2) 3.44%

Third Syllable Whole Syllable Stressed:

Third Syllable Whole Syllable Unstressed (23):

ɹiɪ#(2) 8.69%

Fourth Syllable Whole Syllable Stressed:

Fourth Syllable Whole Syllable Unstressed:

Fifth Syllable Whole Syllable Stressed:

Fifth Syllable Whole Syllable Unstressed:

Whole Syllable Total per Syllable

First Syllable Whole Syllable (all entries are word initial) (85):

#ə(3), 3.52%

#iɪ(2), #ziɪ(2), #də(2), #sə(2), #ɹə(2) 2.35%

Second Syllable Whole Syllable (85):

tʰeɪ(2), loʷ#(2), sə(2), zʷm#(2), kʷŋ#(2), ɹad#(2) 2.35%

Third Syllable Whole Syllable (23):

ɹiɪ#(2) 8.69%

Fourth Syllable Whole Syllable:

Fifth Syllable Whole Syllable:

Whole Syllable Stressed and Unstressed Total

Whole Syllable Stressed (85):

t^heⁱ(2) 2.35%

Whole Syllable Unstressed (116):

#ə(3), ʌd#(3), 2.58%

ziⁱ#(2), ʝiⁱ#(2), lo^w#(2), də(2), #də(2), sə(2), #sə(2), zəṁ#(2), #ʌə(2), kəŋ#(2) 1.72%

Whole Syllable Total (absolute)

Narrow (229):

#ə(3) ʌd#(3), 1.31%

#iⁱ(2), ziⁱ#(2), ʝiⁱ#(2), t^heⁱ(2), #ʌo^w(2), lo^w#(2), də(2), #də(2), sə(2), #sə(2), zəṁ#(2), #ʌə(2), kəŋ#(2) .87%

Broad (229):

ʌo(4), də(4), sə(4), 1.74%

zi(3), te(3), ə(3) ʌd(3), ʌa(3), 1.31%

i(2), min(2), siʌ(2), ʝi(2), li(2), ʌon(2), lo(2), mə(2), fə(2), rəd(2), zəṁ(2), ʒə(2), ʌə(2), kəŋ(2), lɛ(2), sæ(2) .87%

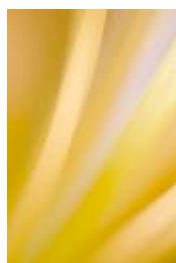
229 total whole syllables

Supra-Segments: Whole Words

	Syllable Receiving Stress					
	None	First	Second	Third	Fourth	Fifth
Word Length Total						
Monosyllabic: 24.77%						
Bisyllabic: 54.86%	0	80.64%/87.71%	19.35%/44.44%			
Trisyllabic: 14.15%	0	43.75%/12.28%	56.25%/33.33%	0		
Tetrasyllabic: 5.30%	0	0	100%/22.22%	0	0	
Pentasyllabic: .88%	0	0	0	0	100%/100%	0
Stressed Syllable Total:		67.05%	31.76%	0	1.17%	0

Table Key: The “Word Length Total” column figure represents the percentage of words that is of that word length. For the cells inside the “Syllable Receiving Stress” columns, the amount on top indicates what percentage of a particular word length was stressed on that syllable. The number on the bottom indicates, for all the words that received stress on a particular syllable, what percentage of these words were of a particular word length. The “Stressed Syllable Total” row indicates what percentage of words was stressed on a particular syllable. Note that monosyllables were not analyzed as receiving stress and the “None” cell in the “Stressed Syllable Total” row is inapplicable.

For all 113 whole words there are no repeated words.



Question ID: a.

Segments

Segment Total for Stressed and Unstressed Syllables and Monosyllables according to Syllable Configuration

Monosyllable Onset (36):

#s(4), ɹ(4), 11.11%

l(3), #j(3), 8.33%

#b(2), #t^h(2), #d(2), #l(2), #k^h(2), w(2) 5.55%

Monosyllable Nucleus (25):

ɪ(5), 20.00%

ɑ(4), 16.00%

ʌ(2), a^w(2) 8.00%

Monosyllable Coda (28):

t^h(6), 21.42%

n^h(5), 17.85%

f^h(3), 10.71%

t^h(2) 7.14%

First Syllable Segment Stressed Onset (75):

#s(11), 14.66%

ɹ(10), 13.33%

#f(7), l(7), 9.33%

#b(6), 8.00%

#l(5), 6.66%

#ɹ(4), #j(4), 5.33%

#p^h(3), w(3), 4.00%

#d(2), #f(2), #k^h(2) 2.66%

First Syllable Segment Stressed Nucleus (57):

ɪ(13), 22.80%

ɑ(10), 17.54%

æ(8), 14.03%

i^l(7), 12.28%

ɛ(6), a^l(6), 10.52%

u^w(2), e^l(2) 3.50%

First Syllable Segment Stressed Coda (24):

n(8), 33.33%

s(4), 16.66%

ɹ(3), k(3), 12.50%

t(2) 8.33%

First Syllable Segment Unstressed Onset (29):

#s(4), l(4), 13.79%

#f(3), #k(3), 10.34%

#b(2), #m(2), #t(2), #d(2), #j(2), #g(2), #w(2) 6.89%

First Syllable Segment Unstressed Nucleus (30):

ə(6), ɑ(6), 20.00%

i^j(3), u^w(3), #a(3), 10.00%
#ə(2), ε(2) 6.66%

First Syllable Segment Unstressed Coda (5):
t(3) 60.00%

Second Syllable Segment Stressed Onset (28):

l(7), 25.00%
ɹ(6), 21.42%
d(3), 10.71%
b(2), n(2), s(2), f(2) 7.14%

Second Syllable Segment Stressed Nucleus (28):

u^w(4), 14.28%
ɪ(3), eⁱ#(3), a^j(3), a(3), 10.71%
eⁱ(2), ε(2) 7.14%

Second Syllable Segment Stressed Coda (11):

n#(3), 27.27%
t#(2) 18.18%

Second Syllable Segment Unstressed Onset (61):

t(9), 14.75%
s(6), 9.83%
b(5), m(5), ɹ(5), l(5), 8.19%
p(4), f(4), n(4), 6.55%
r(3), 4.91%
d(2), g(2) 3.27%

Second Syllable Segment Unstressed Nucleus (59):

ə(10), 16.94%
a(7), 11.86%
ɤ#(6), 10.16%
i^j#(5), 8.47%
ɪ(4), əɲ#(4), 6.77%
o^w#(3), ʌ(3), aⁱ(3), 5.08%
i^j(2), u^w(2), ə#(2), ʌ#(2) 3.38%

Second Syllable Segment Unstressed Coda (17):

n#(4), 23.52%
v#(2), s#(2), k#(2) 11.76%

Third Syllable Segment Stressed Onset:

Third Syllable Segment Stressed Nucleus:

Third Syllable Segment Stressed Coda:

Third Syllable Segment Unstressed Onset (31):

n(5), 16.12%
t(3), ɹ(3), 9.67%
b(2), f(2), v(2), s(2), z(2), j(2), k(2), g(2) 6.45%

Third Syllable Segment Unstressed Nucleus (31):

a(6), 19.35%
ə#(5), 16.12%
i^j#(2), ɪ(2), əɲ#(2), ɤ#(2), ʌ#(2) 6.45%

Third Syllable Segment Unstressed Coda (14):

n#(2), s#(2), ɹ(2), t#(2), k#(2) 14.28%

Fourth Syllable Segment Stressed Onset:

Fourth Syllable Segment Stressed Nucleus:

Fourth Syllable Segment Stressed Coda:

Fourth Syllable Segment Unstressed Onset:

Fourth Syllable Segment Unstressed Nucleus (5):
ə(2) 40.00%

Fourth Syllable Segment Unstressed Coda (4):
s#(2) 50.00%

Fifth Syllable Segment Stressed Onset:
Fifth Syllable Segment Stressed Nucleus:
Fifth Syllable Segment Stressed Coda:
Fifth Syllable Segment Unstressed Onset:
Fifth Syllable Segment Unstressed Nucleus:
Fifth Syllable Segment Unstressed Coda:

Segment Total for Stressed and Unstressed Onsets and Codas

Stressed Onset (105):

ɹ(16), 15.23%
l(15), 14.28%
#s(11), 10.47%
#f(7), 6.66%
#b(6), 5.71%
#l(5), 4.76%
#ɹ(4), #j(4), w(4), 3.80%
#p^h(3), d(3), n(3), 2.85%
b(2), #d(2), s(2), #f(2), ʃ(2), #k^h(2) 1.90%

Stressed Coda (35):

n(9), 25.71%
s(4), 11.42%
n#(3), ɹ(3), k(3), 8.57%
t#(2), t(2) 5.71%

Unstressed Onset (125):

t(13), 10.40%
l(10), 8.00%
n(9), 7.20%
s(8), ɹ(8), 6.40%
b(7), 5.60%
m(6), f(6), 4.80%
p(5), 4.00%
r(4), #s(4), g(4), 3.20%
#f(3), v(3), z(3), j(3), #k(3), k(3), 2.40%
#b(2), #m(2), #t(2), #d(2), d(2), θ(2), #j(2), #g(2), #w(2) 1.60%

Unstressed Coda (40):

n#(7), 17.50%
s#(6), 15.00%
k#(4), t(4), 10.00%
m#(2), v#(2), t#(2), n(2), ɹ(2), t#(2) 5.00%

Segment Total for Onsets and Codas

Onset (266):

ɹ(28), l(28), 10.52%
#s(19), 7.14%
t(14), 5.26%
n(12), 4.51%
#f(11), 4.13%
#b(10), s(10), 3.75%
b(9), #j(9), 3.38%
#l(7), w(7), 2.63%
p(6), m(6), f(6), #d(6), 2.25%

d(5), 1.87%
 #p^h(4), r(4), z(4), #ɹ(4), j(4), #k^h(4), #g(4), g(4), 1.50%
 #m(3), v(3), #t^h(3), #t(3), #f(3), f(3), #k(3), k(3), #w(3), 1.12%
 #p(2), #v(2), θ(2), #h(2) .75%

Coda (103):
 n#(15), 14.56%
 n(11), 10.67%
 t#(10), 9.70%
 t(7), 6.79%
 s#(6), ɹ(6), 5.82%
 s(5), 4.85%
 t#(4), k#(4), 3.88%
 m#(3), v#(3), f#(3), k(3), 2.91%
 ɹ#(2), l#(2) 1.94%

Segment Total for Stressed and Unstressed Syllables and Monosyllables

Monosyllable Segment (63):
 t#(6), 9.52%
 n#(5), ɹ(5), 7.93%
 #s(4), 6.34%
 f#(3), l(3), #j(3), 4.76%
 p(2), #b(2), #t^h(2), #d(2), #l(2), t#(2), #k^h(2), w(2) 3.17%

(25):
 ɪ(5), 20.00%
 a(4), 16.00%
 ʌ(2), a^w(2) 8.00%

First Syllable Segment Stressed (99):

ɹ(13), 13.13%
 #s(11), 11.11%
 n(8), l(8), 8.08%
 #f(7), 7.07%
 #b(6), 6.06%
 #l(5), 5.05%
 s(4), #ɹ(4), #j(4), 4.04%
 #p^h(3), k(3), w(3), 3.03%
 #d(2), #f(2), t(2), #k^h(2) 2.02%

(57):
 ɪ(13), 22.80%
 a(10), 17.54%
 æ(8), 14.03%
 i^l(7), 12.28%
 ε(6), a^l(6), 10.52%
 u^w(2), e^l(2) 3.50%

First Syllable Segment Unstressed (34):

#s(4), l(4), 11.76%
 #f(3), t(3), #k(3), 8.82%
 #b(2), #m(2), #t(2), #d(2), #j(2), #g(2), #w(2) 5.88%

(30):
 ə(6), a(6), 20.00%
 i^l(3), u^w(3), #a(3), 10.00%
 #ə(2), ε(2) 6.66%

Second Syllable Segment Stressed (39):

l(7), 17.94%
ɹ(6), 15.38%
d(3), n#(3), n(3), 7.69%
b(2), t#(2), s(2), ʃ(2) 5.12%

(28):
u^w(4), 14.28%
ɪ(3), eⁱ#(3), aⁱ(3), a(3), 10.71%
eⁱ(2), ε(2) 7.14%

Second Syllable Segment Unstressed (91):
t(9), 9.89%
s(6), ɸ#(6), 6.59%
b(5), m(5), ɹ(5), l(5), 5.49%
p(4), f(4), n(4), n#(4), ɸŋ#(4), 4.39%
r(3), 3.29%
v#(2), d(2), s#(2), k#(2), g(2) 2.19%

(46):
ə(10), 21.73%
a(7), 15.21%
iⁱ#(5), 10.86%
ɪ(4), 8.69%
o^w#(3), ʌ(3), aⁱ(3), 6.52%
iⁱ(2), u^w(2), ə#(2), ʌ#(2) 4.34%

Third Syllable Segment Stressed:

Third Syllable Segment Unstressed (50):
n(6), 12.00%
ɹ(5), 10.00%
t(3), 6.00%
b(2), f(2), v(2), n#(2), ɸŋ#(2), s(2), s#(2), z(2), t#(2), ɸ#(2), j(2), k(2), k#(2), g(2) 4.00%

(26):
a(6), 23.07%
ə#(5), 19.23%
iⁱ#(2), ɪ(2), ʌ#(2) 7.69%

Fourth Syllable Segment Stressed:

Fourth Syllable Segment Unstressed (8):
s#(2) 25.00%

(4):
ə(2) 50.00%

Fifth Syllable Segment Stressed:

Fifth Syllable Segment Unstressed:

Segment Total by Syllable

First Syllable Segment (133):
#s(15), 11.11%
ɹ(13), 9.62%
l(12), 8.88%
#f(10), 7.40%
n(9), 6.66%
#b(8), 5.92%
#j(6), 4.44%
#l(5), t(5), 3.70%

#d(4), s(4), #ɹ(4), 2.96%
 #p^h(3), #m(3), #t(3), #k(3), k(3), #g(3), w(3), #w(3), 2.22%
 #f(2), #k^h(2) 1.48%

(87):
 ɪ(16), 18.39%
 a(13), 14.94%
 æ(9), aⁱ(9), 10.34%
 i^j(8), ɛ(8), 9.19%
 u^w(6), 6.89%
 e^j(4), 4.59%
 eⁱ#(3), 3.44%
 o^w(2) 2.29%

Second Syllable Segment (130):
 l(12), 9.23%
 ɹ(11), 8.46%
 t(10), 7.69%
 s(8), 6.15%
 b(7), n(7), n#(7), 5.38%
 ɳ#(6), 4.61%
 m(5), d(5), 3.84%
 p(4), f(4), ɳ#(4), 3.07%
 v#(3), t#(3), r(3), 2.30%
 s#(2), z(2), ʃ(2), ɹ#(2), j(2), k#(2), g(2), w(2) 1.53%

(74):
 ə(11), 14.86%
 a(10), 13.51%
 ɪ(7), 9.45%
 u^w(6), aⁱ(6), 8.10%
 i^j#(5), 6.75%
 i^j(3), e^j#(3), o^w#(3), ə(3), ɛ(3), 4.05%
 eⁱ(2), ə#(2), ə̃#(2), a#(2) 2.70%

Third syllable Segment (51):
 n(6), 11.76%
 ɹ(5), 9.80%
 t(3), 5.88%
 b(2), f(2), v(2), n#(2), ɳ#(2), s(2), s#(2), z(2), l(2), t#(2), ɳ#(2), j(2), k(2), k#(2), g(2) 3.92%

(27):
 a(6), 22.22%
 ə#(5), 18.51%
 i^j#(2), ɪ(2), e^j(2), ə̃#(2) 7.40%

Fourth Syllable Segment (9):
 s#(2) 22.22%

(5):
 ə(2) 40.00%

Fifth Syllable Segment:

Segment Stressed and Unstressed Total

Stressed Segment (140):
 ɹ(19), 13.57%
 l(16), 11.42%
 n(12), 8.57%

#s(11), 7.85%
 #f(7), 5.00%
 #b(6), s(6), 4.28%
 #l(5), 3.57%
 #ɹ(4), #j(4), w(4), 2.85%
 #p^h(3), d(3), n#(3), k(3), 2.14%
 b(2), t#(2), #d(2), #f(2), ʃ(2), t(2), #k^h(2) 1.42%

(87):
 ɪ(16), 18.39%
 a(14), 16.09%
 æ(9), aⁱ(9), 10.34%
 iⁱ(8), ɛ(8), 9.19%
 u^w(6), 6.89%
 eⁱ(5), 5.74%
 eⁱ#(3), 3.44%
 o^w(2) 2.29%

Unstressed Segment (184):
 t(14), 7.60%
 n(11), 5.97%
 ɹ(10), l(10), 5.43%
 s(8), ɳ#(8), 4.34%
 b(7), n#(7), ʔ#(7), 3.80%
 m(6), f(6), s#(6), 3.26%
 p(5), 2.71%
 r(4), #s(4), t(4), k#(4), g(4), 2.17%
 #f(3), v(3), z(3), j(3), #k(3), k(3), 1.63%
 #b(2), #m(2), m#(2), v#(2), #t(2), t#(2), d(2), #d(2), ʔ#(2), θ(2), t#(2), #j(2), #g(2), #w(2) 1.08%

(107):
 ə(19), a(19), 17.75%
 iⁱ(7), iⁱ#(7), ɪ(7), ə#(7), 6.54%
 u^w(5), ʌ(5), 4.67%
 ə#(4), ɛ(4), 3.73%
 o^w#(3), aⁱ(3), #a(3), 2.805
 eⁱ(2), eⁱ#(2), #ə(2), a#(2) 1.86%

Segment Total (absolute)

Narrow (387):
 ɹ(34), 8.78%
 l(29), 7.49%
 n(23), 5.94%
 #s(19), 4.90%
 t(15), n#(15), s(15), 3.87%
 #f(11), 2.84%
 #b(10), t#(10), 2.58%
 b(9), #j(9), 2.32%
 ɳ#(8), 2.06%
 p(7), m(7), f(7), ʔ#(7), #l(7), t(7), w(7), 1.80%
 #d(6), s#(6), k(6), 1.55%
 d(5), g(5), 1.29%
 #p^h(4), r(4), z(4), #ɹ(4), t#(4), j(4), #k^h(4), k#(4), #g(4), #w(4), 1.03%
 #m(3), m#(3), v(3), v#(3), #t^h(3), #t(3), #f(3), ʃ(3), ʃ#(3), #k(3), .77%
 #p(2), #v(2), ʔ#(2), θ(2), ɹ#(2), l#(2), #h(2) .51%

(219):

a(37), 16.89%
 ɪ(28), 12.78%
 ə(20), 9.13%
 i^j(16), 7.30%
 ɛ(13), aⁱ(13), 5.93%
 u^w(11), 5.02%
 æ(10), 4.56%
 i^j#(8), eⁱ(8), 3.65%
 ə#(7), 3.19%
 eⁱ#(5), ə(5), 2.28%
 ə#(4), 1.82%
 o^w(3), o^w#(3), ɔ(3), #a(3), a#(3), 1.36%
 u^w#(2), #ə(2), ʌ(2), æⁱ(2), a^w(2) .91%

Broad (387):
 n(47), 12.14%
 s(40), ʃ(40), 10.33%
 l(38), 9.81%
 t(33), 8.52%
 b(20), ʔ(20), 5.16%
 f(19), 4.90%
 k(17), 4.39%
 p(14), m(14), 3.61%
 d(13), j(13), 3.35%
 w(11), 2.84%
 ʃ(9), g(9), 2.32%
 v(8), 2.06%
 z(6), 1.55%
 r(4), 1.03%
 tʃ(2), θ(2), ɨ(2), h(2) .51%

(219):
 a(45), 20.54%
 ə(29), 13.24%
 ɪ(28), 12.78%
 i(25), 11.415%
 a(18), 8.21%
 u(14), e(14), 6.39%
 ɛ(13), 5.93%
 æ(12), 5.47%
 ə(9), 4.10%
 o(7), 3.19%
 ɔ(3), 1.36%
 ʌ(2) .91%

606 total segments

Supra-Segments: Consonant Clusters

Consonant Cluster Total for Stressed and Unstressed Syllables and Monosyllables according to Syllable Configuration

Monosyllable Consonant Cluster Onset (all entries are word initial):
 Monosyllable Consonant Cluster Coda (all entries are word final):

First Syllable Consonant Cluster Stressed Onset (all entries are word initial) (16):

#bɹ(3), #fɹ(3), 18.75%
 #bl(2), #fl(2), #sw(2) 12.50%

First Syllable Consonant Cluster Stressed Coda:

First Syllable Consonant Cluster Unstressed Onset (all entries are word initial):

First Syllable Consonant Cluster Unstressed Coda:

Second Syllable Consonant Cluster Stressed Onset:

Second Syllable Consonant Cluster Stressed Coda:

Second Syllable Consonant Cluster Unstressed Onset:

Second Syllable Consonant Cluster Unstressed Coda:

Third Syllable Consonant Cluster Stressed Onset:

Third Syllable Consonant Cluster Stressed Coda:

Third Syllable Consonant Cluster Unstressed Onset:

Third Syllable Consonant Cluster Unstressed Coda:

Fourth Syllable Consonant Cluster Stressed Onset:

Fourth Syllable Consonant Cluster Stressed Coda:

Fourth Syllable Consonant Cluster Unstressed Onset:

Fourth Syllable Consonant Cluster Unstressed Coda:

Fifth Syllable Consonant Cluster Stressed Onset:

Fifth Syllable Consonant Cluster Stressed Coda:

Fifth Syllable Consonant Cluster Unstressed Onset:

Fifth Syllable Consonant Cluster Unstressed Coda:

Consonant Cluster Total for Stressed and Unstressed Onsets and Codas

Stressed Onset (19):

#bɹ(3), #fɹ(3), 15.78%

#bl(2), #fl(2), #sw(2) 10.52%

Stressed Coda:

Unstressed Onset (9):

stɹ(2) 22.22%

Unstressed Coda:

Consonant Cluster Total for Onsets and Codas

Onset (39):

#bɹ(4), #fl(4), 10.25%

#bl(3), #fɹ(3), #sw(3), 7.69%

#p^hɹ(2), bɹ(2), st(2), stɹ(2) 5.12%

Coda (8):

ŋt#(2) 25.00%

Consonant Cluster Total for Stressed and Unstressed Syllables and Monosyllables

Monosyllable Consonant Cluster:

First Syllable Consonant Cluster Stressed (16):

#bɹ(3), #fɹ(3), 18.75%

#bl(2), #fl(2), #sw(2) 12.50%

First Syllable Consonant Cluster Unstressed:

Second Syllable Consonant Cluster Stressed:

Second Syllable Consonant Cluster Unstressed:

Third Syllable Consonant Cluster Stressed:

Third Syllable Consonant Cluster Unstressed:

Fourth Syllable Consonant Cluster Stressed:

Fourth Syllable Consonant Cluster Unstressed:

Fifth Syllable Consonant Cluster Stressed:

Fifth Syllable Consonant Cluster Unstressed:

Consonant Cluster Total per Syllable

First Syllable Consonant Cluster (19):

#bɪ(3), #fɪ(3), 15.78%
#bl(2), #fl(2), #sw(2) 10.52%

Second Syllable Consonant Cluster (8):
st(2) 25.00%

Third Syllable Consonant Cluster:

Fourth Syllable Consonant Cluster:

Fifth Syllable Consonant Cluster:

Consonant Cluster Stressed and Unstressed Total

Consonant Cluster Stressed (20):
#bɪ(3), #fɪ(3), 15.00%
#bl(2), #fl(2), #sw(2) 10.00%

Consonant Cluster Unstressed (12):
stɪ(2) 16.66%

Consonant Cluster Total (absolute)

Narrow (47):
#bɪ(4), #fl(4), 8.51%
#bl(3), #fɪ(3), #sw(3), 6.38%
#pʰɪ(2), bɪ(2), st(2), stɪ(2) 4.25%

Broad (47):
bɪ(6), 12.76%
fl(4), 8.51%
pɪ(3), bl(3), fɪ(3), sw(3), st(3), 6.38%
nt(2), stɪ(2) 4.25%

47 total consonant clusters

Supra-Segments: Whole Syllables

Whole Syllable Total for Stressed and Unstressed Syllables and Monosyllables

Monosyllable Whole Syllable:

First Syllable Whole Syllable Stressed (all entries are word initial) (57):
#bɪɪⁱ(2), #su^w(2), #saⁱ(2), #la(2) 3.50%

First Syllable Whole Syllable Unstressed (all entries are word initial) (30):
#ə(2), #a(2), #wa(2) 6.66%

Second Syllable Whole Syllable Stressed (28):
lu^w(2), leⁱ#(2) 7.14%

Second Syllable Whole Syllable Unstressed (59):
ə(2), rə(2), fə(2) 3.38%

Third Syllable Whole Syllable Stressed:

Third Syllable Whole Syllable Unstressed (30):
nə#(2) 6.66%

Fourth Syllable Whole Syllable Stressed:
Fourth Syllable Whole Syllable Unstressed:

Fifth Syllable Whole Syllable Stressed:
Fifth Syllable Whole Syllable Unstressed:

Whole Syllable Total per Syllable

First Syllable Whole Syllable (all entries are word initial) (87):

#bɪiⁱ(2), #su^w(2), #ə(2), #flɔ(2), #saⁱ(2), #a(2), #la(2), #wa(2) 2.29%

Second Syllable Whole Syllable (87):

lu^w(2), leⁱ#(2), ə(2) rə(2), fə(2), jan#(2) 2.29%

Third Syllable Whole Syllable (31):

nə#(2) 6.45%

Fourth Syllable Whole Syllable:

Fifth Syllable Whole Syllable:

Whole Syllable Stressed and Unstressed Total

Whole Syllable Stressed (87):

#bɪiⁱ(2), #su^w(2), lu^w(2), leⁱ#(2), #saⁱ(2), #la(2) 2.29%

Whole Syllable Unstressed (125):

ə(3), nə#(3), fə(3), 2.40%

#ə(2), bɪə#(2), fɪ#(2), rə(2), #a(2), #wa(2) 1.60%

Whole Syllable Total (absolute)

Narrow (239):

ə(3), nə#(3), fə(3), 1.25%

#bɪiⁱ(2), #su^w(2), lu^w(2), leⁱ#(2), #ə(2), bɪə#(2), fɪ#(2), rə(2), #flɔ(2), #saⁱ(2), #a(2), #la(2), jan#(2), #wa(2) .83%

Broad (239):

ə(5), 2.09%

nə(4), la(4), 1.67%

le(3), fə(3), ja(3), 1.25%

bɪi(2), si(2), su(2), lu(2), sɪ(2), fɪn(2), lɪ(2), te(2), ze(2), ɹe(2), lo(2), bɪə(2), fɪ(2), tə(2), də(2), rə(2), ɹə(2), gə(2), flɔ(2), dæn(2), sa(2), a(2),
ɹa(2), jan(2), kan(2), wa(2) .83%

239 total whole syllables

Supra-Segments: Whole Words

	Syllable Receiving Stress					
	None	First	Second	Third	Fourth	Fifth
Word Length Total						
Monosyllabic: 23.00%						
Bisyllabic: 48.67%	0	74.54%/71.92%	25.45%/50.00%			
Trisyllabic: 23.00	0	57.69%/26.31%	42.30%/39.28%	0		
Tetrasyllabic: 4.42%	0	20.00%/1.75%	60.00%/10.71%	20.00%/100%	0	
Pentasyllabic: .88%	0	0	0	0	100%/100%	0
Stressed Syllable Total:		65.51%	32.18%	1.14%	1.14%	0

Table Key: The “Word Length Total” column figure represents the percentage of words that is of that word length. For the cells inside the “Syllable Receiving Stress” columns, the amount on top indicates what percentage of a particular word length was stressed on that syllable. The number on the bottom indicates, for all the words that received stress on a particular syllable, what percentage of these words were of a particular word length. The “Stressed Syllable Total” row indicates what percentage of words was stressed on a particular syllable. Note that monosyllables were not analyzed as receiving stress and the “None” cell in the “Stressed Syllable Total” row is inapplicable.

For all 113 whole words there are no repeated words.



Question ID: b.

Segments

Segment Total for Stressed and Unstressed Syllables and Monosyllables according to Syllable Configuration

Monosyllable Onset (36):

#s(5), 13.88%

#b(4), 11.11%

l(3), #k^h(3), #w(3), 8.33%

#m(2), m(2), #v(2), #f(2), w(2) 5.55%

Monosyllable Nucleus (30):

iⁱ(4), u^w(4), a(4), 13.33%

æ(2), ε(2), aⁱ(2) 6.66%

Monosyllable Coda (28):

t#(5), 17.85%

n#(4), 14.28%

f#(3), 10.71%

b#(2), z#(2), ɹ(2), t(2) 7.14%

First Syllable Segment Stressed Onset (74):

#k^h(11), 14.86%

#w(10), 13.51%

l(9), 12.16%

#b(8), #s(8), 10.81%

ɹ(6), 8.10%

#p^h(4), 5.40%

#t^h(3), #d(3), w(3), 4.05%

#h(2) 2.70%

First Syllable Segment Stressed Nucleus (62):

æ(10), a(10), 16.12%

ɪ(9), ε(9), 14.51%

u^w(6), 9.67%

eⁱ(3), #a(3), 4.83%

iⁱ(2), o^w(2) 3.22%

First Syllable Segment Stressed Coda (22):

n(8), 36.36%

m(3), ɹ(3), 13.63%

f(2), t(2) 9.09%

First Syllable Segment Unstressed Onset (19):

#h(4), 21.05%

#b(3), #s(3), 15.78%

#d(2), l(2) 10.52%

First Syllable Segment Unstressed Nucleus (23):

ə(6), 26.08%

#a(3), a(3), 13.04%

#ə(2), aⁱ(2) 8.69%

First Syllable Segment Unstressed Coda (3):

n(2) 66.66%

Second Syllable Segment Stressed Onset (19):

f(3), ɹ(3), 15.78%

pʰ(2), b(2), w(2) 10.52%

Second Syllable Segment Stressed Nucleus (20):

iʲ(3), eʲ(3), a(3), 15.00%

uʷ(2), ɪ(2) 10.00%

Second Syllable Segment Stressed Coda (10):

n(2), ɹ#(2), ɹ(2) 20.00%

Second Syllable Segment Unstressed Onset (66):

l(11), 16.66%

ɹ(9), 13.63%

b(8), 12.12%

t(6), 9.09%

f(5), 7.57%

m(4), 6.06%

d(3), n(3), s(3), ʃ(3), k(3), 4.54%

v(2) 3.03%

Second Syllable Segment Unstressed Nucleus (64):

ə(9), 14.06%

iʲ#(8), 12.50%

əɭ#(7), 10.93%

ɪ(5), oʷ#(5), ə#(5), 7.81%

əŋ#(3), ə(3), a(3), 4.68%

iʲ(2), uʷ(2), eʲ(2), əŋ#(2) 3.12%

Second Syllable Segment Unstressed Coda (15):

dʷ#(2), n#(2), s#(2), ʃ#(2), k#(2) 13.33%

Third Syllable Segment Stressed Onset:**Third Syllable Segment Stressed Nucleus (2):**

iʲ(2) 100%

Third Syllable Segment Stressed Coda:**Third Syllable Segment Unstressed Onset (30):**

t(4), ɹ(4), 13.33%

n(3), r(3), l(3), 10.00%

j(2) 6.66%

Third Syllable Segment Unstressed Nucleus (27):

ə(6), 22.22%

ɪ(4), 14.81%

əŋ#(3), a(3), 11.11%

iʲ(2), əɭ#(2) 7.40%

Third Syllable Segment Unstressed Coda (11):

s#(3), 27.27%

n#(2), ɹ#(2) 18.18%

Fourth Syllable Segment Stressed Onset:**Fourth Syllable Segment Stressed Nucleus:****Fourth Syllable Segment Stressed Coda:****Fourth Syllable Segment Unstressed Onset (5):**

ɹ(2), 40.00%

Fourth Syllable Segment Unstressed Nucleus (9):

iʲ#(2), ə(2), əŋ#(2) 22.22%

Fourth Syllable Segment Unstressed Coda (3):

s#(2) 66.66%

Fifth Syllable Segment Stressed Onset:
Fifth Syllable Segment Stressed Nucleus:
Fifth Syllable Segment Stressed Coda:
Fifth Syllable Segment Unstressed Onset:
Fifth Syllable Segment Unstressed Nucleus:
Fifth Syllable Segment Unstressed Coda:

Segment Total for Stressed and Unstressed Onsets and Codas

Stressed Onset (96):

#k^h(11), 11.45%
l(10), #w(10), 10.41%
ɹ(9), 9.37%
#b(8), #s(8), 8.33%
w(5), 5.20%
#p^h(4), 4.16%
f(3), #t^h(3), #d(3), n(3), 3.12%
p^h(2), b(2), #h(2) 2.08%

Stressed Coda (33):

n(10), 30.30%
ɹ(5), 15.15%
m(3), 9.09%
ʃ(2), tʃ(2) 6.06%

Unstressed Onset (120):

ɹ(16), l(16), 13.33%
b(9), 7.50%
t(6), n(6), t(6), 5.00%
f(5), r(5), 4.16%
m(4), d(4), s(4), ʃ(4), k(4), #h(4), 3.33%
#b(3), v(3), #s(3), j(3), 2.50%
#d(2), z(2), g(2), w(2) 16.66%

Unstressed Coda (32):

s#(7), 21.87%
n#(4), k#(4), 12.50%
ɹ#(3), 9.37%
dʰ#(2), n(2), ʃ#(2), tʃ#(2) 6.25%

Segment Total for Onsets and Codas

Onset (252):

l(29), 11.50%
ɹ(26), 10.31%
#s(16), 6.34%
#b(15), 5.95%
#k^h(14), 5.55%
#w(13), 5.15%
b(11), 4.36%
n(9), w(9), 3.57%
f(8), 3.17%
m(7), 2.77%
t(6), #d(6), t(6), #h(6), 2.38%
#p^h(5), r(5), s(5), k(5), 1.98%
v(4), d(4), ʃ(4), j(4), 1.58%
#m(3), #v(3), #t^h(3), #ʃ(3), 1.19%
#p(2), p^h(2), p(2), #f(2), t^h(2), z(2), g(2) .79%

Coda (93):

n(12), 12.90%

n#(8), s#(8), ɹ(8), 8.60%

ɹ#(6), 6.45%

t#(5), f#(5), 5.37%

z#(4), t(4), k#(4), 4.305

m(3), dʰ(3), 3.22%

p#(2), b#(2), f#(2), s(2), ʃ(2), t#(2) 2.15%

Segment Total for Stressed and Unstressed Syllables and Monosyllables

Monosyllable Segment (64):

t#(5), #s(5), 7.81%

#b(4), n#(4), 6.25%

ʃ#(3), ɹ(3), l(3), #kʰ(3), #w(3), 4.68%

b#(2), #m(2), m(2), #v(2), z#(2), #f(2), t(2), w(2) 3.12%

(30):

iʲ(4), uʷ(4), a(4), 13.33%

æ(2), ɛ(2), aʲ(2) 6.66%

First Syllable Segment Stressed (96):

#kʰ(11), 11.45%

#w(10), 10.41%

ɹ(9), l(9), 9.37%

#b(8), n(8), #s(8), 8.33%

#pʰ(4), 4.16%

m(3), #tʰ(3), #d(3), w(3), 3.12%

p(2), ʃ(2), t(2), k(2), #h(2) 2.08%

(62):

æ(10), a(10), 16.12%

ɪ(9), ɛ(9), 14.51%

uʷ(6), 9.67%

eʲ(3), #a(3), 4.83%

iʲ(2), oʷ(2) 3.22%

First Syllable Segment Unstressed (22):

#h(4) 18.18%

#b(3), #s(3), 13.63%

#d(2), n(2), ɹ(2), l(2) 9.09%

(23):

æ(6), 26.08%

#a(3), a(3), 13.04%

#ə(2), aʲ(2) 8.69%

Second Syllable Segment Stressed (29):

ɹ(5), 17.24%

f(3), n(3), 10.34%

pʰ(2), b(2), ɹ#(2), w(2) 6.89%

(20):

iʲ(3), eʲ(3), a(3), 15.00%

uʷ(2), ɪ(2) 10.00%

Second Syllable Segment Unstressed (95):

l(11), 11.57%

ɹ(9), 9.47%

b(8), 8.42%

ɹ#(7), 7.36%

t(6), 6.31%
 f(5), 5.26%
 m(4), 4.21%
 ʔm#(3), d(3), n(3), s(3), f(3), k(3), 3.15%
 v(2), dʱ#(2), n#(2), ʔn#(2), s#(2), f#(2), k#(2) 2.10%

(45):
 ə(9), 20.00%
 iʲ#(8), 17.77%
 ɪ(5), oʷ#(5), ə#(5), 11.11%
 ʌ(3), a(3), 6.66%
 iʲ(2), uʷ(2), eʲ(2) 4.44%

Third Syllable Segment Stressed:

(2):
 iʲ(2) 100%

Third Syllable Segment Unstressed (47):
 t(4), ɹ(4), 8.51%
 n(3), ʔn#(3), r(3), s#(3), l(3), 6.38%
 n#(2), ɹ#(2), ʔɹ#(2), j(2) 4.25%

(21):
 ə(6), 28.57%
 ɪ(4), 19.04%
 a(3), 14.28%
 iʲ(2) 9.52%

Fourth Syllable Segment Stressed:

Fourth Syllable Segment Unstressed (10):
 ʔm#(2), s#(2), ɹ(2) 20.00%

(7):
 iʲ#(2), ə(2) 28.57%

Fifth Syllable Segment Stressed:

Fifth Syllable Segment Unstressed:

Segment Total by Syllable

First Syllable Segment (118):
 #b(11), #s(11), ɹ(11), l(11), #kʰ(11), 9.32%
 n(10), #w(10), 8.47%
 #h(6), 5.08%
 #d(5), 4.23%
 #pʰ(4), w(4), 3.38%
 m(3), #tʰ(3), 2.54%
 p(2), f(2), t(2), k(2) 1.69%

(85):
 a(13), 15.29%
 ɪ(10), æ(10), 11.76%
 ɛ(9), 10.58%
 uʷ(7), 8.23%
 ə(6), #a(6), 7.05%
 eʲ(3), oʷ(3), 3.52%
 #iʲ(2), iʲ(2), #ə(2), ʌ(2), aʲ(2) 2.35%

Second Syllable Segment (124):

ɹ(14), 11.29%
 l(12), 9.67%

b(10), 8.06%
 f(8), 6.45%
 ɸ(7), 5.64%
 n(6), t(6), 4.83%
 m(4), s(4), 3.22%
 ʔm̥(3), v(3), d(3), dʱ(3), ʃ(3), ɹ(3), k(3), 2.41%
 pʰ(2), n̥(2), ʔn̥(2), s̥(2), z̥(2), ʃ̥(2), j̥(2), k̥(2), w(2) 1.61%

(70):
 ə(9), 12.85%
 i̯(8), 11.42%
 ɪ(7), 10.00%
 a(6), 8.57%
 i̯(5), e̯(5), o̯(5), ʌ(5), 7.14%
 u̯(4), ʌ(4), 5.71%
 ɛ(2) 2.85%

Third syllable Segment (49):
 t(4), n(4), ɹ(4), 8.16%
 ʔn̥(3), r(3), s̥(3), l(3), 6.12%
 n̥(2), ɹ̥(2), ɸ̥(2), j̥(2) 4.08%

(23):
 ə(6), 26.08%
 i̯(4), ɪ(4), 17.39%
 a(3) 13.04%

Fourth Syllable Segment (11):
 ʔm̥(2), s̥(2), ɹ̥(2) 18.18%

(8):
 i̯(2), ə(2) 25.00%

Fifth Syllable Segment:

Segment Stressed and Unstressed Total

Stressed Segment (128):
 ɹ(14), 10.93%
 n(13), 10.15%
 #kʰ(11), 8.59%
 l(10), #w(10), 7.81%
 #b(8), #s(8), 6.25%
 w(5), 3.90%
 #pʰ(4), m(4), 3.12%
 f(3), #tʰ(3), #d(3), 2.34%
 p(2), pʰ(2), b(2), v(2), s(2), ʃ(2), ɹ̥(2), t̥(2), k̥(2), #h(2) 1.56%

(85):
 a(13), 15.29%
 ɪ(11), ɛ(11), 12.94%
 æ(10), 11.76%
 u̯(8), 9.41%
 i̯(7), 8.23%
 e̯(6), 7.05%
 #a(3), 3.52%
 o̯(2), ʌ(2), ɔ̯(2) 2.35%

Unstressed Segment (175):
 ɹ̥(17), 9.71%

l(16), 9.14%
b(9), ɹ̥tʰ(9), 5.14%
n(8), 4.57%
s#(7), 4.00%
ɹ̥m#(6), t(6), t̥(6), 3.42%
f(5), ɹ̥n#(5), r(5), 2.85%
m(4), d(4), n#(4), s(4), ʃ(4), k(4), k#(4), #h(4), 2.28%
#b(3), v(3), #s(3), z(3), ɹ̥#(3), j(3), 1.71%
#d(2), d̥#(2), ʃ#(2), t̥#(2), g(2), w(2) 1.14%

(97):
ə(24), 24.74%
ɪ(11), 11.34%
i̥#(10), 10.30%
a(9), 9.27%
oʷ#(6), 6.18%
ə#(5), 5.15%
i̥(4), ə(4), 4.12%
uʷ(3), ḁ(3), #a(3), 3.09%
e̥(2), oʷ(2), #ə(2), ə#(2) 2.06%

Segment Total (absolute)

Narrow (367):
ɹ̥(34), 9.26%
l(29), 7.90%
n(21), 5.72%
#s(16), 4.35%
#b(15), 4.08%
#kʰ(14), 3.81%
#w(13), 3.54%
b(11), 2.99%
m(10), t̥(10), 2.72%
ɹ̥tʰ(9), w(9), 2.45%
f(8), n#(8), s#(8), 2.17%
s(7), 1.90%
ɹ̥m#(6), t(6), #d(6), ʃ(6), ɹ̥#(6), k(6), #h(6), 1.63%
#pʰ(5), v(5), t̥#(5), ɹ̥n#(5), r(5), ʃ#(5), 1.36%
z#(4), j(4), k#(4), 1.08%
p(3), #m(3), #tʰ(3), d̥#(3), z(3), #ʃ(3), .81%
#p(2), p#(2), pʰ(2), b#(2), #f(2), f#(2), #v(2), tʰ(2), #(2), g(2) .54%

(212):
a(26), 12.26%
ə(24), 11.32%
ɪ(22), 10.37%
i̥(15), uʷ(15), 7.07%
ɛ(14), 6.60%
æ(12), 4.71%
i̥#(10), 4.71%
e̥(9), 4.24%
ə(8), 3.77%
#a(7), 3.30%
oʷ#(6), ḁ(6), 2.83%
oʷ(5), ə#(5), 2.35%
ɔ(3), 1.41%
#i̥(2), uʷ#(2), #ə(2), ə#(2), ɛ̥(2), aʷ(2) .94%

Broad (367):

ʃ(40), 10.89%
 n(36), 9.80%
 s(31), 8.44%
 l(30), 8.17%
 b(28), 7.62%
 k(25), 6.81%
 t(22), w(22), 5.99%
 m(20), 5.44%
 t(16), 4.35%
 p(14), d(14), ʃ(14), 3.81%
 f(12), 3.26%
 v(8), z(8), 2.17%
 h(6), 1.63%
 r(5), j(5), 1.36%
 g(4) 1.08%

(212):
 a(34), 16.03%
 i(28), ə(28), 13.20%
 ɪ(23), 10.84%
 u(20), 9.43%
 ɛ(19), 8.96%
 ʌ(13), æ(13), 6.13%
 o(12), 5.66%
 ɑ(11), 5.18%
 e(10), 4.71%
 ɔ(3), 1.41%
 ʌ(2) .94%

579 total segments

Supra-Segments: Consonant Clusters

Consonant Cluster Total for Stressed and Unstressed Syllables and Monosyllables according to Syllable Configuration

Monosyllable Consonant Cluster Onset (all entries are word initial) (8):

#sm(2) 25.00%

Monosyllable Consonant Cluster Coda (all entries are word final) (6):

nt#(2) 33.33%

First Syllable Consonant Cluster Stressed Onset (all entries are word initial) (18):

#bl(5), 27.77%

#tʰɹ(2), #sw(2), #kʰɹ(2) 11.11%

First Syllable Consonant Cluster Stressed Coda:

First Syllable Consonant Cluster Unstressed Onset (all entries are word initial):

First Syllable Consonant Cluster Unstressed Coda:

Second Syllable Consonant Cluster Stressed Onset:

Second Syllable Consonant Cluster Stressed Coda:

Second Syllable Consonant Cluster Unstressed Onset (3):

st(2), 66.66%

Second Syllable Consonant Cluster Unstressed Coda:

Third Syllable Consonant Cluster Stressed Onset:

Third Syllable Consonant Cluster Stressed Coda:

Third Syllable Consonant Cluster Unstressed Onset:

Third Syllable Consonant Cluster Unstressed Coda:

Fourth Syllable Consonant Cluster Stressed Onset:

Fourth Syllable Consonant Cluster Stressed Coda:

Fourth Syllable Consonant Cluster Unstressed Onset:
Fourth Syllable Consonant Cluster Unstressed Coda:

Fifth Syllable Consonant Cluster Stressed Onset:
Fifth Syllable Consonant Cluster Stressed Coda:
Fifth Syllable Consonant Cluster Unstressed Onset:
Fifth Syllable Consonant Cluster Unstressed Coda:

Consonant Cluster Total for Stressed and Unstressed Onsets and Codas

Stressed Onset (19):
#bl(5), 26.31%
#t^hɹ(2), #sw(2), #k^hɹ(2) 10.52%

Stressed Coda:

Unstressed Onset (9):
st(2) 22.22%

Unstressed Coda:

Consonant Cluster Total for Onsets and Codas

Onset (36):
#bl(7), 19.44%
#p^hl(2), #bɹ(2), #t^hɹ(2), #sm(2), st(2), #sw(2), #k^hɹ(2), #k^hw(2) 5.55%

Coda (7):
nt#(2) 28.57%

Consonant Cluster Total for Stressed and Unstressed Syllables and Monosyllables

Monosyllable Consonant Cluster (14):
nt#(2), #sm(2) 14.28%

First Syllable Consonant Cluster Stressed (18):
#bl(5), 27.77%
#t^hɹ(2), #sw(2), #k^hɹ(2) 11.11%

First Syllable Consonant Cluster Unstressed:

Second Syllable Consonant Cluster Stressed:

Second Syllable Consonant Cluster Unstressed (4):
st(2) 50.00%

Third Syllable Consonant Cluster Stressed:
Third Syllable Consonant Cluster Unstressed:

Fourth Syllable Consonant Cluster Stressed:
Fourth Syllable Consonant Cluster Unstressed:

Fifth Syllable Consonant Cluster Stressed:
Fifth Syllable Consonant Cluster Unstressed:

Consonant Cluster Total per Syllable

First Syllable Consonant Cluster (22):
#bl(6), 27.27%
#t^hɹ(2), #sw(2), #k^hɹ(2) 9.09%

Second Syllable Consonant Cluster (5):
st(2) 40.00%

Third Syllable Consonant Cluster:

Fourth Syllable Consonant Cluster:

Fifth Syllable Consonant Cluster:

Consonant Cluster Stressed and Unstressed Total

Consonant Cluster Stressed (19):

#bl(5), 26.31%

#tʰɹ(2), #sw(2), #kʰɹ(2) 10.52%

Consonant Cluster Unstressed (10):

st(2) 20.00%

Consonant Cluster Total (absolute)

Narrow (43):

#bl(7), 16.27%

#pʰl(2), #bɹ(2), #tʰɹ(2), ntʰ(2), #sm(2), st(2), #sw(2), #kʰw(2), #kʰɹ(2) 4.65%

Broad (43):

bl(7), 16.27%

pl(4), 9.30%

st(3), kw(3), 6.97%

bɹ(2), tɹ(2), dɹ(2), nt(2), sm(2), sw(2), kɹ(2) 4.65%

43 total consonant clusters

Supra-Segments: Whole Syllables

Whole Syllable Total for Stressed and Unstressed Syllables and Monosyllables

Monosyllable Whole Syllable:

First Syllable Whole Syllable Stressed (all entries are word initial) (57):

#kʰuʷ(2), #wɪ(2), #bleʲ(2), #dɛ(2), #a(2) 3.50%

First Syllable Whole Syllable Unstressed (all entries are word initial) (25):

#ə(2), #a(2) 8.00%

Second Syllable Whole Syllable Stressed:

Second Syllable Whole Syllable Unstressed (61):

liʲ(2), loʷ(2), mʲ(2), bə(2) 3.27%

Third Syllable Whole Syllable Stressed:

Third Syllable Whole Syllable Unstressed:

Fourth Syllable Whole Syllable Stressed:

Fourth Syllable Whole Syllable Unstressed:

Fifth Syllable Whole Syllable Stressed:

Fifth Syllable Whole Syllable Unstressed:

Whole Syllable Total per Syllable

First Syllable Whole Syllable (all entries are word initial) (82):

#a(4), #wɪ(3), #iʲ(2), #kʰuʷ(2), #bleʲ(2), #ə(2), #dɛ(2) 2.43%

Second Syllable Whole Syllable (82):

loʷ(2), mʲ(2), bə(2), 2.43%

Third Syllable Whole Syllable (30):

niʲ(2) 6.66%

Fourth Syllable Whole Syllable:

Fifth Syllable Whole Syllable:

Whole Syllable Stressed and Unstressed Total

Whole Syllable Stressed (82):

#kʰuʷ(2), #wɪ(2), #bleʲ(2), #dɛ(2), #a(2) 2.43%

Whole Syllable Unstressed (123):

liⁱ#(2), ɹɪk#(2), lo^w#(2), #ə(2), mɛt#(2), bɛɹ#(2), #a(2) 1.62%

Whole Syllable Total (absolute)

Narrow (237):

#a(4), 1.68%

#wɪ(3), 1.26%

#iⁱ(2), niⁱ(2), niⁱɹ#(2), liⁱ#(2), #k^hu^w(2), ɹɪk#(2), #bleⁱ(2), lo^w#(2), #ə(2), mɛt#(2), bɛɹ#(2), #dɛ(2) .84%

Broad (237):

a(4), 1.68%

mi(3), li(3), wɪ(3), lo(3), ə(3), 1.26%

i(2), ti(2), ni(2), niɹ(2), ɹi(2), ku(2), ɹɪk(2), ble(2), to(2) əs(2), bɛt(2), mɛt(2), də(2), bɛɹ(2), vɛɹ(2), dɛ(2), nɛ(2), bæ(2) .84%

237 total whole syllables

Supra-Segments: Whole Words

	Syllable			Receiving	Stress	
	None	First	Second	Third	Fourth	Fifth
Word Length Total						
Monosyllabic: 26.54%						
Bisyllabic: 46.90%	0	88.67%/81.03%	11.32%/28.57%			
Trisyllabic: 17.69%	0	50.00%/17.24%	50.00%/47.61%	0		
Tetrasyllabic: 7.96%	0	11.11%/1.72%	55.55%/23.80%	33.33%/100%	0	
Pentasyllabic: .88%	0	0	0	0	100%/100%	0
Stressed Syllable Total:		69.87%	25.30%	3.61%	1.20%	0

Table Key: The “Word Length Total” column figure represents the percentage of words that is of that word length. For the cells inside the “Syllable Receiving Stress” columns, the amount on top indicates what percentage of a particular word length was stressed on that syllable. The number on the bottom indicates, for all the words that received stress on a particular syllable, what percentage of these words were of a particular word length. The “Stressed Syllable Total” row indicates what percentage of words was stressed on a particular syllable. Note that monosyllables were not analyzed as receiving stress and the “None” cell in the “Stressed Syllable Total” row is inapplicable.

For all 113 whole words there are no repeated words.



Question ID: c.

Segments

Segment Total for Stressed and Unstressed Syllables and Monosyllables according to Syllable Configuration

Monosyllable Onset (19):

ɹ(4), 21.05%

#p^h(2), #b(2), #f(2) 10.52%

Monosyllable Nucleus (14):

iⁱ(2), ɪ(2), æ(2), a(2) 14.28%

Monosyllable Coda (19):

f#(5), 26.31%

t#(2) 10.52%

First Syllable Segment Stressed Onset (69):

ɹ(8), 11.59%

#s(7), 10.14%

#m(6), l(6), #k^h(6), 8.69%

#p^h(4), #b(4), #f(4), #g(4), 5.79%

#d(3), #dʒ(3), #z(3), 4.34%

#t^h(2), #ɹ(2), #k(2), k(2), #w(2) 2.89%

First Syllable Segment Stressed Nucleus (61):

a(11), 18.03%

ɪ(9), æ(9), 14.75%

iⁱ(6), ε(6), 9.83%

u^w(3), eⁱ(3), ʌ(3), aⁱ(3), 4.91%

ə(2), #a(2) 3.27%

First Syllable Segment Stressed Coda (29):

n(6), ɹ(6), 20.68%

m(3), k(3), 10.34%

d(2) 6.89%

First Syllable Segment Unstressed Onset (33):

#k(6), 18.18%

#b(5), #m(5), ɹ(5), 15.15%

#g(3), 9.09%

#n(2) 6.06%

First Syllable Segment Unstressed Nucleus (38):

ə(8), 21.05%

ε(4), a(4), 10.52%

#a(3), 7.89%

u(2), #ə(2), əŋ(2), #æ(2), æ(2) 5.26%

First Syllable Segment Unstressed Coda (12):

ɹ(4), 33.33%

m(2) 16.66%

Second Syllable Segment Stressed Onset (31):

t^h(6), ɹ(6), 19.35%

b(4), 12.90%
m(2), f(2), z(2), l(2) 6.45%

Second Syllable Segment Stressed Nucleus (26):

ɛ(5), 19.23%
æ(4), 15.38%
i^j(3), a(3), 11.53%
u^w#(2), u^w(2), eⁱ(2) 7.69%

Second Syllable Segment Stressed Coda (11):

n#(2), k#(2) 18.18%

Second Syllable Segment Unstressed Onset (82):

t(9), l(9), 10.97%
ɹ(8), 9.75%
f(6), s(6), 7.31%
p(5), r(5), 6.09%
m(4), d(4), n(4), 4.87%
b(3), z(3), g(3), 3.65%
t^h(2), dʒ(2), θ(2), ʃ(2), j(2) 2.43%

Second Syllable Segment Unstressed Nucleus (72):

ə(15), 20.83%
ɪ(9), a(9), 12.50%
i^j#(7), 9.72%
i^j(4), 5.55%
æ#(3), 4.16%
u^w(2), o^w(2), ə#(2), ɹ^l#(2), ɹ^m#(2), ɹⁿ(2), ɹ(2), aⁱ(2) 2.77%

Second Syllable Segment Unstressed Coda (27):

n#(6), 22.22%
ʃ#(3), ɹ#(3), 11.11%
t#(2), n(2), s#(2), k#(2) 7.40%

Third Syllable Segment Stressed Onset:

Third Syllable Segment Stressed Nucleus (6):

a(2) 33.33%

Third Syllable Segment Stressed Coda:

Third Syllable Segment Unstressed Onset (42):

ɹ(6), 14.28%
l(5), 11.90%
t(4), d(4), 9.52%
m(3), n(3), ʃ(3), 7.14%
z(2) 4.76%

Third Syllable Segment Unstressed Nucleus (34):

a(6), 17.64%
i^j(4), ə(4), 11.76%
ɪ(3), o^w#(3), ə#(3), ɹ^l#(3), aⁱ(3), 8.82%
i^j#(2), ɹⁿ#(2) 5.88%

Third Syllable Segment Unstressed Coda (22):

n#(4), 18.18%
d#(3), s#(3), k#(3), 13.63%
ɹ(2) 9.09%

Fourth Syllable Segment Stressed Onset:

Fourth Syllable Segment Stressed Nucleus:

Fourth Syllable Segment Stressed Coda:

Fourth Syllable Segment Unstressed Onset (11):

t(4) 36.36%

Fourth Syllable Segment Unstressed Nucleus (13):

i^h#(3), ə#(3), 23.07%

ə(2) 15.38%

Fourth Syllable Segment Unstressed Coda:

Fifth Syllable Segment Stressed Onset:

Fifth Syllable Segment Stressed Nucleus:

Fifth Syllable Segment Stressed Coda:

Fifth Syllable Segment Unstressed Onset:

Fifth Syllable Segment Unstressed Nucleus:

Fifth Syllable Segment Unstressed Coda:

Segment Total for Stressed and Unstressed Onsets and Codas

Stressed Onset (112):

ɹ(15), 13.39%

l(8), 7.14%

t^h(7), #s(7), 6.25%

#m(6), #k^h(6), 5.35%

#p^h(4), #b(4), b(4), #f(4), f(4), #g(4), 3.57%

#d(3), #dʒ(3), #z(3), 2.67%

p(2), m(2), #t^h(2), n(2), z(2), #ɹ(2), j(2), #k(2), k^h(2), k(2), #w(2) 1.78%

Stressed Coda (42):

n(8), 19.04%

ɹ(7), 16.66%

m(4), 9.52%

k(3), 7.14%

b(2), d(2), n#(2), t(2), k#(2) 4.76%

Unstressed Onset (169):

ɹ(20), 11.83%

t(17), 10.05%

l(15), 8.87%

d(9), 5.32%

n(8), s(8), 4.73%

m(7), r(7), 4.14%

p(6), f(6), #k(6), 3.55%

#b(5), #m(5), z(5), ʃ(5), g(5), 2.95%

b(4), 2.36%

t^h(3), dʒ(3), θ(3), j(3), k(3), #g(3), 1.77%

#n(2) 1.18%

Unstressed Coda (63):

n#(10), 15.87%

ɹ(6), k#(6), 9.52%

s#(5), 7.93%

d#(4), n(4), ɹ#(4), 6.34%

t#(3), ʃ#(3), 4.76%

m(2), t^h#(2), z#(2) 3.17%

Segment Total for Onsets and Codas

Onset (300):

ɹ(39), 13.00%

l(23), 7.66%

t(17), 5.66%

#b(11), #m(11), 3.66%

m(10), f(10), t^h(10), d(10), n(10), 3.33%

p(8), b(8), s(8), #s(8), #k^h(8), #k(8), 2.66%
 #f(7), r(7), z(7), #g(7), 2.33%
 #p^h(6), g(6), 2.00%
 f(5), j(5), k(5), 1.66%
 #d(4), #dʒ(4), dʒ(4), #ɹ(4), 1.33%
 θ(3), #z(3), #w(3), 1.00%
 #v(2), #t^h(2), #n(2), #f(2), k^h(2), w(2) .66%

Coda (124):

ɹ(14), 11.29%
 n#(13), n(13), 10.48%
 k#(9), 7.25%
 f#(8), 6.45%
 m(7), s#(7), 5.64%
 t#(5), d#(5), 4.03%
 ɹ#(4), 3.22%
 d(3), s(3), t(3), k(3), 2.41%
 p(2), b(2), t^h#(2), d^h#(2), z#(2), t#(2) 1.61%

Segment Total for Stressed and Unstressed Syllables and Monosyllables

Monosyllable Segment (38):

f#(5), ɹ(5), 13.15%
 #p^h(2), #b(2), m(2), #f(2), t#(2) 5.26%

(14):

i^l(2), ɪ(2), æ(2), a(2) 14.28%

First Syllable Segment Stressed (104):

ɹ(14), 13.46%
 #s(7), 6.73%
 #m(6), n(6), l(6), #k^h(6), 5.76%
 k(5), 4.80%
 #p^h(4), #b(4), #f(4), #g(4), 3.84%
 m(3), #d(3), #dʒ(3), #z(3), 2.88%
 p(2), f(2), #t^h(2), d(2), #ɹ(2), #k(2), #w(2) 1.92%

(61):

a(11), 18.03%
 ɪ(9), æ(9), 14.75%
 i^l(6), ε(6), 9.83%
 u^w(3), eⁱ(3), ʌ(3), aⁱ(3), 4.91%
 ʌ(2), #a(2) 3.27%

First Syllable Segment Unstressed (47):

ɹ(9), 19.14%
 #k(6), 12.76%
 #b(5), #m(5), 10.63%
 #g(3), 6.38%
 m(2), ɹ̃(2), #n(2) 4.25%

(36):

ə(8), 22.22%
 ε(4), a(4), 11.11%
 #a(3), 8.33%
 u(2), #ə(2), #æ(2), æ(2) 5.55%

Second Syllable Segment Stressed (42):

ɹ(7), 16.66%
 t^h(6), 14.28%

b(5), 11.90%
m(3), 7.14%
f(2), n#(2), n(2), z(2), l(2), k#(2) 4.76%

(26):
ɛ(5), 19.23%
æ(4), 15.38%
i^j(3), a(3), 11.53%
u^w#(2), u^w(2), e^j(2) 7.69%

Second Syllable Segment Unstressed (115):
t(9), l(9), 7.82%
ɹ(8), 6.95%
f(6), n#(6), n(6), s(6), 5.21%
p(5), r(5), 4.34%
m(4), d(4), 3.47%
b(3), z(3), f#(3), ɹ#(3), g(3), 2.60%
ʔŋ#(2), t^h(2), t#(2), dʒ(2), ʔŋ(2), θ(2), s#(2), f(2), ʔ#(2), j(2), k#(2) 1.73%

(66):
ə(15), 22.72%
ɪ(9), a(9), 13.63%
i^j#(7), 10.60%
i^j(4), 6.06%
æ#(3), 4.54%
u^w(2), o^w(2), ə#(2), æ(2), a^j(2) 3.03%

Third Syllable Segment Stressed (8):
n(2) 25.00%

(6):
a(2) 33.33%

Third Syllable Segment Unstressed (69):
ɹ(8), 11.59%
l(5), 7.24%
t(4), d(4), n(4), n#(4), 5.79%
m(3), d#(3), s#(3), f(3), ʔ#(3), k#(3), 4.34%
ʔŋ#(2), z(2) 2.89%

(29):
a(6), 20.68%
i^j(4), ə(4), 13.79%
ɪ(3), o^w#(3), ə#(3), a^j(3), 10.34%
i^j#(2) 6.89%

Fourth Syllable Segment Stressed:

Fourth Syllable Segment Unstressed (14):
t(4) 28.57%

(12):
i^j#(3), ə#(3), 25.00%
ə(2) 16.66%

Fifth Syllable Segment Stressed:

Fifth Syllable Segment Unstressed:

Segment Total by Syllable

First Syllable Segment (151):
ɹ(23), 15.23%

#m(11), 7.28%
 #b(9), 5.96%
 #k(8), 5.29%
 n(7), #s(7), l(7), #k^h(7), #g(7), 4.63%
 m(5), #f(5), k(5), 3.31%
 #p^h(4), #ɕ(4), 2.64%
 #d(3), d(3), #z(3), #ɹ(3), 1.98%
 p(2), f(2), #v(2), #t^h(2), #n(2), ʷ(2), s(2), #w(2) 1.32%

(97):
 a(15), 15.46%
 æ(11), 11.34%
 ɪ(10), ɛ(10), 10.30%
 ə(8), 8.24%
 i^j(7), 7.21%
 #a(5), 5.15%
 u^w(4), eⁱ(4), 4.12%
 ʌ(3), #æ(3), aⁱ(3), 3.09%
 u(2), o^w(2), #ə(2) 2.06%

Second Syllable Segment (157):
 ɹ(15), 9.55%
 l(11), 7.00%
 t(9), 5.73%
 b(8), f(8), t^h(8), n#(8), n(8), 5.09%
 m(7), 4.45%
 p(6), s(6), 3.82%
 d(5), r(5), z(5), 3.18%
 k#(4), g(4), 2.54%
 ɕ(3), s#(3), f#(3), ɹ#(3), j(3), 1.91%
 ʷ(2), t#(2), d^w#(2), ʷ(2), ʰ(2), f(2), ɕ#(2) 1.27%

(92):
 ə(15), 16.30%
 a(12), 13.04%
 ɪ(10), 10.86%
 i^j#(7), i^j(7), 7.60%
 ɛ(5), æ(5), 5.43%
 u^w(4), 4.34%
 u^w#(3), o^w(3), ʌ(3), ʌ#(3), aⁱ(3), 3.26%
 eⁱ(2), ə#(2) 2.17%

Third syllable Segment (77):
 ɹ(9), 11.68%
 n(6), 7.79%
 l(5), 6.49%
 t(4), d(4), n#(4), 5.19%
 m(3), d#(3), s#(3), f(3), ɕ#(3), k#(3), 3.89%
 t^h(2), ʷ(2), z(2), j(2) 2.59%

(35):
 a(8), 22.85%
 i^j(4), ə(4), 11.42%
 ɪ(3), o^w#(3), ə#(3), aⁱ(3), 8.57%
 i^j#(2) 5.71%

Fourth Syllable Segment (14):
 t(4) 28.57%

(12):
iⁱ#(3), ə#(3), 25.00%
ə(2) 16.66%

Fifth Syllable Segment:

Segment Stressed and Unstressed Total

Stressed Segment (154):

ɹ(22), 14.28%
n(10), 6.49%
l(8), 5.19%
t^h(7), #s(7), 4.54%
b(6), #m(6), m(6), #k^h(6), 3.89%
f(5), k(5), 3.24%
#p^h(4), #b(4), #f(4), #g(4), 2.59%
p(3), #d(3), d(3), #dʒ(3), #z(3), 1.94%
#t^h(2), n#(2), z(2), #ɹ(2), t(2), j(2), k^h(2), #k(2), k#(2), #w(2) 1.29%

(93):

a(16), 17.20%
æ(13), 13.97%
ɛ(12), 12.90%
ɪ(10), 10.75%
iⁱ(9), 9.67%
u^w(5), eⁱ(5), 5.37%
aⁱ(4), 4.30%
ə(3), ʌ(3), 3.22%
u^w#(2), o^w(2), #a(2) 2.15%

Unstressed Segment (248):

ɹ(26), 10.48%
t(17), 6.85%
l(16), 6.45%
n(12), 4.83%
d(10), n#(10), 4.03%
m(9), s(9), 3.62%
r(7), 2.82%
p(6), f(6), s#(6), z(6), #k(6), k#(6), g(6), 2.41%
#b(5), #m(5), ɹ#(5), 2.01%
b(4), d#(4), əŋ(4), ɹ#(4), 1.61%
t^h(3), t#(3), dʒ(3), əŋ#(3), θ(3), ʃ#(3), j(3), k(3), #g(3), 1.20%
əŋ#(2), t^h#(2), #n(2), z#(2), ʃ(2) .80%

(143):

ə(29), 20.27%
a(19), 13.28%
ɪ(15), 10.48%
iⁱ#(12), 8.39%
iⁱ(9), 6.29%
ə#(8), 5.59%
aⁱ(5), 3.49%
o^w#(4), ɛ(4), æ(4), 2.79%
u^w(3), o^w(3), ə(3), ə#(3), #a(3), 2.09%
u(2), eⁱ#(2), #ə(2), #æ(2) 1.39%

Segment Total (absolute)

Narrow (425):

ɹ(53), 12.47%
 l(24), 5.64%
 n(23), 5.41%
 t(18), 4.23%
 m(17), 4.00%
 d(13), n#(13), 3.05%
 #b(11), #m(11), f(11), s(11), 2.58%
 p(10), b(10), t^h(10), 2.35%
 k#(9), 2.11%
 #s(8), s#(8), z(8), ʃ#(8), #k^h(8), #k(8), k(8), 1.88%
 #f(7), r(7), #g(7), g(7), 1.64%
 #p^h(6), 1.41%
 t#(5), d#(5), ɹ#(5), j(5), 1.17%
 #d(4), #dʒ(4), dʒ(4), ɹ#(4), ɹ#(4), #ɹ(4), .94%
 ɹ#(3), θ(3), #z(3), ʃ(3), k(3), #w(3), .70%
 ɹ#(2), #v(2), #t^h(2), t#(2), d#(2), #n(2), z#(2), #f(2), t#(2), k^h(2), w(2) .47%

(265):
 a(37), 13.96%
 ə(29), 10.94%
 ɪ(27), 10.18%
 i^j(20), 7.54%
 æ(19), 7.16%
 ɛ(17), 6.41%
 i^j#(12), 4.52%
 aⁱ(9), 3.39%
 u^w(8), ə#(8), 3.01%
 eⁱ(6), o^w(6), ɹ(6), 2.26%
 o^w#(5), #a(5), 1.88%
 u^w#(3), ɹ#(3), ʌ(3), #æ(3), 1.13%
 u(2), eⁱ#(2), #ə(2), ɔ(2), a(2) .75%

Broad (425):
 ɹ(61), 14.35%
 n(45), 10.58%
 t(37), 8.70%
 k(36), 8.47%
 m(30), 7.05%
 s(27), 6.35%
 l(25), 5.88%
 d(24), 5.64%
 b(21), 4.94%
 f(18), 4.23%
 p(17), 4.00%
 g(16), 3.76%
 z(13), ʃ(13), 3.05%
 k(11), 2.58%
 dʒ(9), 2.11%
 r(7), 1.64%
 j(6), 1.41%
 w(5), 1.17%
 v(4), .94%
 θ(3), .70%
 tʃ(2), ʒ(2), ɨ(2) .47%

(265):
 a(44), 16.60%
 ə(39), 14.71%

i(33), 12.45%
 ɪ(28), 10.56%
 æ(23), 8.67%
 ɛ(19), 7.16%
 u(13), o(13), a(13), 4.90%
 ʌ(10), 3.77%
 e(8), 3.01%
 ʌ(3), ɔ(3) 1.13%

690 total segments

Supra-Segments: Consonant Clusters

Consonant Cluster Total for Stressed and Unstressed Syllables and Monosyllables according to Syllable Configuration

Monosyllable Consonant Cluster Onset (all entries are word initial) (2):

#bɹ(2) 100%

Monosyllable Consonant Cluster Coda (all entries are word final):

First Syllable Consonant Cluster Stressed Onset (all entries are word initial) (17):

#fɹ(3), #gɹ(3), 17.64%

#pʰl(2) 11.76%

First Syllable Consonant Cluster Stressed Coda:

First Syllable Consonant Cluster Unstressed Onset (all entries are word initial) (5):

#bɹ(3) 60.00%

First Syllable Consonant Cluster Unstressed Coda:

Second Syllable Consonant Cluster Stressed Onset (6):

bɹ(2), tʰɹ(2) 33.33%

Second Syllable Consonant Cluster Stressed Coda:

Second Syllable Consonant Cluster Unstressed Onset:

Second Syllable Consonant Cluster Unstressed Coda:

Third Syllable Consonant Cluster Stressed Onset:

Third Syllable Consonant Cluster Stressed Coda:

Third Syllable Consonant Cluster Unstressed Onset:

Third Syllable Consonant Cluster Unstressed Coda:

Fourth Syllable Consonant Cluster Stressed Onset:

Fourth Syllable Consonant Cluster Stressed Coda:

Fourth Syllable Consonant Cluster Unstressed Onset:

Fourth Syllable Consonant Cluster Unstressed Coda:

Fifth Syllable Consonant Cluster Stressed Onset:

Fifth Syllable Consonant Cluster Stressed Coda:

Fifth Syllable Consonant Cluster Unstressed Onset:

Fifth Syllable Consonant Cluster Unstressed Coda:

Consonant Cluster Total for Stressed and Unstressed Onsets and Codas

Stressed Onset (23):

#fɹ(3), #gɹ(3), 13.04%

#pʰl(2), bɹ(2), tʰɹ(2) 8.69%

Stressed Coda:

Unstressed Onset (12):

#bɹ(3), 25.00%

st(2) 16.66%

Unstressed Coda:

Consonant Cluster Total for Onsets and Codas

Onset (37):

#bɹ(5), 13.51%

bɹ(3), #fɹ(3), #gɹ(3), 8.10%

#pʰl(2), tʰɹ(2), tɹ(2), st(2), #kʰɹ(2) 5.40%

Coda:

Consonant Cluster Total for Stressed and Unstressed Syllables and Monosyllables

Monosyllable Consonant Cluster (4):

#bɹ(2) 50.00%

First Syllable Consonant Cluster Stressed (17):

#fɹ(3), #gɹ(3), 17.64%

#pʰl(2) 11.76%

First Syllable Consonant Cluster Unstressed (5):

#bɹ(3) 60.00%

Second Syllable Consonant Cluster Stressed (7):

bɹ(2), tʰɹ(2) 28.57%

Second Syllable Consonant Cluster Unstressed:

Third Syllable Consonant Cluster Stressed:

Third Syllable Consonant Cluster Unstressed:

Fourth Syllable Consonant Cluster Stressed:

Fourth Syllable Consonant Cluster Unstressed:

Fifth Syllable Consonant Cluster Stressed:

Fifth Syllable Consonant Cluster Unstressed:

Consonant Cluster Total per Syllable

First Syllable Consonant Cluster (22):

#bɹ(3), #fɹ(3), #gɹ(3), 13.63%

#pʰl(2), #kʰɹ(2) 9.09%

Second Syllable Consonant Cluster (13):

bɹ(3), 23.07%

tʰɹ(2) 15.38%

Third Syllable Consonant Cluster:

Fourth Syllable Consonant Cluster:

Fifth Syllable Consonant Cluster:

Consonant Cluster Stressed and Unstressed Total

Consonant Cluster Stressed (24):

#fɹ(3), #gɹ(3), 12.50%

#pʰl(2), bɹ(2), tʰɹ(2) 8.33%

Consonant Cluster Unstressed (16):

#bɹ(3), 18.75%

st(2) 12.50%

Consonant Cluster Total (absolute)

Narrow (44):

#bɹ(5), 11.36%

bɹ(3), #fɹ(3), #gɹ(3), 6.81%

#pʰl(2), tʰɹ(2), tɹ(2), st(2), #kʰɹ(2) 4.54%

Broad (44):

bɹ(8), 18.18%

fɹ(4), tɹ(4), gɹ(4), 9.09%

kɹ(3), 6.81%

pl(2), bl(2), st(2) 4.54%

44 total consonant clusters

Supra-Segments: Whole Syllables

Whole Syllable Total for Stressed and Unstressed Syllables and Monosyllables

Monosyllable Whole Syllable:

First Syllable Whole Syllable Stressed (all entries are word initial) (62):

#mɛ(2) 3.22%

First Syllable Whole Syllable Unstressed (all entries are word initial) (37):

#ə(2), #mə(2), #kən(2), #aɹ(2) 5.40%

Second Syllable Whole Syllable Stressed:

Second Syllable Whole Syllable Unstressed (71):

piⁱ#(2), ziⁱ#(2), rə(2), fə(2), tə(2) 2.81%

Third Syllable Whole Syllable Stressed:

Third Syllable Whole Syllable Unstressed (39):

ʃɪs#(2), lo^w#(2) 5.12%

Fourth Syllable Whole Syllable Stressed:

Fourth Syllable Whole Syllable Unstressed (13):

tiⁱ#(2) 15.38%

Fifth Syllable Whole Syllable Stressed:

Fifth Syllable Whole Syllable Unstressed:

Whole Syllable Total per Syllable

First Syllable Whole Syllable (all entries are word initial) (99):

#aɹ(3), 3.03%

#ə(2), #mə(2), #kən(2), #bə(2), #mɛ(2), #æ(2) 2.02%

Second Syllable Whole Syllable (99):

piⁱ#(2), ziⁱ#(2), rə(2), fə(2), tə(2) 2.02%

Third Syllable Whole Syllable (47):

ʃɪs#(2), lo^w#(2) 4.25%

Fourth Syllable Whole Syllable (13):

tiⁱ#(2) 15.38%

Fifth Syllable Whole Syllable:

Whole Syllable Stressed and Unstressed Total

Whole Syllable Stressed (98):

#mɛ(2) 2.04%

Whole Syllable Unstressed (161):

piⁱ#(2), tiⁱ#(2), niⁱ#(2), ziⁱ#(2), liⁱ#(2), ʃɪs#(2), ɹeⁱ#(2), lo^w#(2), #ə(2), pə(2), #mə(2), dʒə(2), rə(2), lə(2), lə(2), #kən(2), fə(2), tə(2),

#aɹ(2) 1.24%

Whole Syllable Total (absolute)

Narrow (273):

#aɪ(3), 1.09%

piⁱ#(2), tiⁱ#(2), niⁱ#(2), ziⁱ#(2), liⁱ#(2), ʃɪs#(2), ɹeⁱ#(2), lo^w#(2), #ə(2), pə(2), #mə(2), dʒə(2), rə(2), lə#(2), lə(2), #kən(2), #bə(2), fə(2),
tə#(2), #mɛ(2), #æ(2), fa(2), #faɪ(2) .73%

Broad (273):

li(4), ə(4), mə(4), lə(4), 1.46%

ti(3), ni(3), zi(3), pə(3), dʒə(3), bə(3), tə(3), mɛ(3), aɪ(3), faɪ(3), 1.09%

pi(2), bɹi(2), di(2), ri(2), mɪf(2), ʃɪs(2), ɹe(2), to(2), lo(2), go(2), fə(2), rə(2), ɹə(2), kə(2), kən(2), fə(2), æ(2), fa(2), na(2) .73%

273 total whole syllables

Supra-Segments: Whole Words

	Syllable Receiving Stress					
	None	First	Second	Third	Fourth	Fifth
Word Length Total						
Monosyllabic: 12.38%						
Bisyllabic: 46.01%	0	80.76%/67.74%	19.23%/35.71%			
Trisyllabic: 30.08%	2.94%/100%	58.82%/32.25%	32.35%/39.28%	5.88%/25.00%		
Tetrasyllabic: 10.61%	0	0	58.33%/25.00%	41.66%/62.50%	0	
Pentasyllabic: .88%	0	0	0	100%/12.50%	0	0
Stressed Syllable Total:		63.26%	28.57%	8.16%	0	0

Table Key: The “Word Length Total” column figure represents the percentage of words that is of that word length. For the cells inside the “Syllable Receiving Stress” columns, the amount on top indicates what percentage of a particular word length was stressed on that syllable. The number on the bottom indicates, for all the words that received stress on a particular syllable, what percentage of these words were of a particular word length. The “Stressed Syllable Total” row indicates what percentage of words was stressed on a particular syllable. Note that monosyllables were not analyzed as receiving stress and the “None” cell in the “Stressed Syllable Total” row is inapplicable.

For all 113 whole words there are no repeated words.



Question ID: d.

Segments

Segment Total for Stressed and Unstressed Syllables and Monosyllables according to Syllable Configuration

Monosyllable Onset (28):

#s(6), 21.42%

ʃ(3), w(3), 10.71%

p(2), #f(2), l(2), k(2) 7.14%

Monosyllable Nucleus (15):

ɛ(3), 20.00%

i(2), a(2) 13.33%

Monosyllable Coda (19):

t#(4), 21.05%

f#(3), 15.78%

n#(2), ʃ#(2), t(2) 10.52%

First Syllable Segment Stressed Onset (101):

#s(27), 26.73%

#k^h(12), 11.88%

w(9), 8.91%

ʃ(6), #l(6), 5.94%

#b(4), 3.96%

#m(3), #ʃ(3), l(3), #g(3), #w(3), 2.97%

p(2), m(2), t(2), #r(2), #f(2), k(2) 1.98%

First Syllable Segment Stressed Nucleus (79):

ɪ(15), 18.98%

a(14), 17.72%

eⁱ(6), ǣ(6), æ(6), 7.59%

o^w(5), 6.32%

iⁱ(4), u^w(4), aⁱ(4), 5.06%

ɛ(3), 3.79%

#ǣ(2) 2.53%

First Syllable Segment Stressed Coda (29):

n(9), 31.03%

t(4), ŋ(4), 13.79%

m(3), ʃ(3), 10.34%

p(2), s(2) 6.89%

First Syllable Segment Unstressed Onset (20):

#s(5), 25.00%

#k(2) 10.00%

First Syllable Segment Unstressed Nucleus (20):

ɪ(5), 25.00%

ǣ(4), 20.00%

ǣ(2), #a(2) 10.00%

First Syllable Segment Unstressed Coda:

Second Syllable Segment Stressed Onset (20):

ɹ(4), 20.00%
tʰ(2), s(2), l(2), w(2) 10.00%

Second Syllable Segment Stressed Nucleus (16):

ɑ(5), 31.25%
ɪ(3), 18.75%
ə(2) 12.50%

Second Syllable Segment Stressed Coda (9):

n(2), ɹ#(2) 22.22%

Second Syllable Segment Unstressed Onset (84):

l(12), 14.28%
ɹ(8), 9.52%
z(7), g(7), 8.33%
t(6), 7.14%
p(5), v(5), w(5), 5.95%
n(4), 4.76%
b(3), m(3), d(3), r(3), k(3), 3.57%
ð(2), s(2), j(2) 2.38%

Second Syllable Segment Unstressed Nucleus (137):

ə(15), 10.94%
iʃ(14), 10.21%
əʃ(10), 7.29%
ɪ(8), 5.83%
ɑ(6), 4.37%
əŋ(4), ɛ(4), 2.91%
ə(3), a(3), 2.18%
oʷ(2), əʃ(2), əŋ(2), ə(2) 1.45%

Second Syllable Segment Unstressed Coda (29):

n#(6), 20.68%
d#(5), 17.24%
p#(2), tʰ#(2), dʰ#(2), s#(2), t#(2), k#(2) 6.89%

Third Syllable Segment Stressed Onset:

Third Syllable Segment Stressed Nucleus:

Third Syllable Segment Stressed Coda:

Third Syllable Segment Unstressed Onset (25):

n(5), l(5), 20.00%
ɹ(4), 16.00%
s(3), 12.00%
k(2) 8.00%

Third Syllable Segment Unstressed Nucleus (21):

ɪ(5), 23.80%
ə#(4), 19.04%
iʃ(2), ɑ(2) 9.52%

Third Syllable Segment Unstressed Coda (12):

s#(4), 33.33%
ŋ#(2) 16.66%

Fourth Syllable Segment Stressed Onset:

Fourth Syllable Segment Stressed Nucleus:

Fourth Syllable Segment Stressed Coda:

Fourth Syllable Segment Unstressed Onset:

Fourth Syllable Segment Unstressed Nucleus (8):

ə#(4) 50.00%

Fourth Syllable Segment Unstressed Coda (3):
s#(2) 66.66%

Fifth Syllable Segment Stressed Onset:
Fifth Syllable Segment Stressed Nucleus:
Fifth Syllable Segment Stressed Coda:
Fifth Syllable Segment Unstressed Onset:
Fifth Syllable Segment Unstressed Nucleus:
Fifth Syllable Segment Unstressed Coda:

Segment Total for Stressed and Unstressed Onsets and Codas

Stressed Onset (125):

#s(27), 21.60%
#k^h(12), 9.60%
w(11), 8.80%
ɹ(10), 8.00%
#l(6), l(6), 4.80%
#b(4), m(4), 3.20%
#m(3), t^h(3), #ɹ(3), k(3), #g(3), #w(3), 2.40%
p(2), v(2), t(2), #r(2), s(2), #f(2) 1.60%

Stressed Coda (38):

n(11), 28.94%
t(4), ŋ(4), 10.52%
m(3), ɹ(3), 7.89%
p(2), s(2), ɹ#(2) 5.26%

Unstressed Onset (135):

l(18), 13.33%
ɹ(14), 10.37%
n(9), z(9), 6.66%
g(7), 5.18%
p(6), v(6), t(6), s(6), k(6), w(6), 4.44%
#s(5), 3.70%
b(4), m(4), 2.96%
d(3), r(3), f(3), j(3), 2.22%
ð(2), #k(2) 1.48%

Unstressed Coda (48):

s#(8), 16.66%
n#(7), 14.58%
d#(6), 12.50%
k#(3), 6.25%
p#(2), t#(2), t^h#(2), d^h#(2), n(2), s(2), f#(2), ɹ#(2), t#(2), ŋ#(2) 4.16%

Segment Total for Onsets and Codas

Onset (288):

#s(38), 13.19%
ɹ(27), 9.37%
l(26), 9.02%
w(20), 6.94%
#k^h(12), 4.16%
k(11), 3.81%
p(10), n(10), 3.47%
m(9), z(9), 3.12%
v(8), t(8), s(8), 2.77%
#l(7), g(7), 2.43%
b(5), #ɹ(5), #g(5), #w(5), 1.73%
#b(4), #m(4), #f(4), f(4), j(4), 1.38%

t^h(3), d(3), r(3), 1.04%
#f(2), #t^h(2), #r(2), ʃ(2), #k(2), #h(2) .69%

Coda (105):

n(14), 13.33%
n#(9), 8.57%
s#(8), 7.61%
t#(6), d#(6), f#(6), ɹ#(6), t(6), 5.71%
m(4), s(4), ɹ(4), t#(4), k#(4), ŋ(4), 3.80%
p#(3), 2.85%
p(2), t^h#(2), d^h#(2), k(2), ŋ#(2) 1.90%

Segment Total for Stressed and Unstressed Syllables and Monosyllables

Monosyllable Segment (62):

#s(6), 9.67%
t#(4), 6.45%
f#(3), ɹ(3), k(3), w(3), ε(3), 4.83%
p(2), m(2), n#(2), #f(2), ɹ#(2), l(2), t(2), i^j(2), a(2) 3.22%

(15):

ε(3), 20.00%
i^j(2), a(2) 13.33%

First Syllable Segment Stressed (130):

#s(27), 20.76%
#k^h(12), 9.23%
n(9), ɹ(9), w(9), 6.92%
#l(6), 4.61%
m(5), 3.84%
p(4), #b(4), t(4), ŋ(4), 3.07%
#m(3), #ɹ(3), l(3), k(3), #g(3), #w(3), 2.30%
v(2), t(2), #r(2), s(2), #f(2) 1.53%

(79):

ɪ(15), 18.98%
a(14), 17.72%
e^j(6), ə(6), æ(6), 7.59%
o^w(5), 6.32%
i^j(4), u^w(4), a^j(4), 5.06%
ε(3), 3.79%
#ə(2) 2.53%

First Syllable Segment Unstressed (25):

#s(5), 20.00%
ɹ(2), #k(2) 8.00%

(19):

ɪ(5), 26.31%
ə(4), 21.05%
ə(2), #a(2) 10.52%

Second Syllable Segment Stressed (29):

ɹ(4), 13.79%
t^h(2), n(2), s(2), ɹ#(2), l(2), w(2) 6.89%

(16):

a(5), 31.25%
ɪ(3), 18.75%
ə(2) 12.50%

Second Syllable Segment Unstressed (132):

l(12), 9.09%
ɤ̥#(10), 7.57%
ɹ(8), 6.06%
z(7), g(7), 5.30%
t(6), n#(6), 4.54%
p(5), v(5), d#(5), n(5), w(5), 3.78%
ɤ̥ɹ#(4), 3.03%
b(3), m(3), d(3), r(3), k(3), 22.72%
p#(2), ɤ̥m#(2), t̥#(2), d̥#(2), ð(2), s(2), s#(2), t#(2), ɤ̥t(2), j(2), k#(2) 1.51%

(64):

ə(15), 23.43%
i̥#(14), 21.87%
ɹ(8), 12.50%
a(6), 9.37%
ɛ(4), 6.25%
æ(3), a(3), 4.68%
o̥#(2), ə#(2) 3.12%

Third Syllable Segment Stressed:

Third Syllable Segment Unstressed (39):

n(5), l(5), 12.82%
s(4), s#(4), ɹ(4), 10.25%
k(2), ɹ#(2) 5.12%

(19):

ɹ(5), 26.31%
ə#(4), 21.05%
i̥(2), a(2) 10.52%

Fourth Syllable Segment Stressed:

Fourth Syllable Segment Unstressed (10):

s#(2) 20.00%

(7):

ə#(4) 57.14%

Fifth Syllable Segment Stressed:

Fifth Syllable Segment Unstressed:

Segment Total by Syllable

First Syllable Segment (155):

#s(32), 20.64%
#k^h(12), 7.74%
ɹ(11), 7.09%
n(10), w(10), 6.45%
#l(7), 4.51%
p(5), m(5), 3.22%
#b(4), #m(4), #ɹ(4), t(4), k(4), #g(4), ɹ(4), #w(4), 2.58%
s(3), l(3), 1.93%
v(2), t(2), #r(2), #f(2), #k(2), #h(2) 1.29%

(98):

ɹ(20), 20.40%
a(15), 15.30%
æ(8), 8.16%
eⁱ(6), æ(6), 6.12%

iⁱ(5), o^w(5), 5.10%
u^w(4), ə(4), aⁱ(4), 4.08%
ɛ(3), #a(3), 3.06%
ʊ(2), #ə(2), ɔ(2), #æ(2) 2.04%

Second Syllable Segment (161):

l(14), 8.69%
ɹ(12), 7.45%
ɹ̥#(10), 6.21%
n(7), z(7), g(7), w(7), 4.34%
v(6), t(6), n#(6), 3.72%
p(5), d#(5), 3.10%
b(4), m(4), ɹ̥#(4), s(4), k(4), 2.48%
d(3), r(3), ɹ#(3), t#(3), k#(3), 1.86%
p#(2), ɹ̥#(2), f(2), t^h(2), t^h#(2), d^h#(2), ð(2), s#(2), ʃ(2), ʒ#(2), ɹ̥(2), j(2) 1.24%

(80):

ə(15), 18.75%
iⁱ#(14), 17.50%
ɪ(11), a(11), 13.75%
ə(5), ɛ(5), 6.25%
a(3), 3.75%
eⁱ(2), o^w#(2), ə#(2), æ(2) 2.50%

Third syllable Segment (43):

n(6), l(6), 13.95%
s(4), s#(4), ɹ(4), 9.30%
k(2), ɲ#(2) 4.65%

(23):

ɪ(5), 21.73%
ə#(4), 17.39%
a(3), 13.04%
iⁱ(2), u^w#(2), ɛ(2) 8.69%

Fourth Syllable Segment (10):

s#(2) 20.00%

(7):

ə#(4) 57.14%

Fifth Syllable Segment:

Segment Stressed and Unstressed Total

Stressed Segment (163):

#s(27), 16.56%
ɹ(13), 7.97%
n(12), #k^h(12), 7.36%
w(11), 6.74%
m(7), 4.29%
#l(6), l(6), 3.68%
p(4), #b(4), s(4), t(4), k(4), ɲ(4), 2.45%
#m(3), v(3), t^h(3), #ʃ(3), #ɹ(3), #g(3), #w(3), 1.84%
t(2), #r(2), ɹ#(2) 1.22%

(99):

a(20), 20.20%
ɪ(18), 18.18%
ə(8), 8.08%
eⁱ(7), æ(7), 7.07%

i^j(5), o^w(5), ε(5), aⁱ(5), 5.05%

u^w(4), 4.04%

#ə(2), ɔ(2) 2.02%

Unstressed Segment (206):

l(18), 8.73%

ɹ(15), 7.28%

n(11), 5.33%

ɹ̥#(10), 4.85%

z(9), 4.36%

s(8), s#(8), 3.88%

n#(7), g(7), 3.39%

p(6), v(6), t(6), d#(6), k(6), w(6), 2.91%

#s(5), 2.42%

b(4), m(4), ɹ̥m#(4), d(4), ɹ̥n#(4), 1.94%

r(3), f(3), ɹ̥f(3), j(3), k#(3), 1.45%

p#(2), t#(2), t̥#(2), d̥#(2), ɹ̥n(2), ð(2), f#(2), ɹ#(2), t#(2), #k(2), η#(2) .97%

(109):

ə(21), 19.26%

ɪ(19), 17.43%

i^j#(14), 12.84%

ə#(9), a(9), 8.25%

ə(5), ε(5), 4.58%

i^j(3), eⁱ(3), a(3), 2.75%

o^w#(2), ə#(2), #a(2) 1.83%

Segment Total (absolute)

Narrow (431):

#s(38), 8.81%

ɹ(31), 7.19%

l(26), 6.03%

n(24), 5.56%

w(20), 4.64%

m(13), k(13), 3.01%

p(12), s(12), #k^h(12), 2.78%

ɹ̥#(10), 2.32%

v(9), n#(9), z(9), 2.08%

t(8), s#(8), 1.85%

#l(7), t(7), g(7), 1.62%

t#(6), d#(6), ɹ#(6), 1.39%

b(5), #f(5), f#(5), #ɹ(5), #g(5), #w(5), 1.16%

#b(4), #m(4), ɹ̥m#(4), d(4), ɹ̥n#(4), f(4), t#(4), j(4), k#(4), η(4), .92%

p#(3), t^h(3), r(3), ɹ̥f(3), .69%

#f(2), f(2), #t^h(2), t̥#(2), d̥#(2), ɹ̥n(2), #r(2), ð(2), #k(2), η#(2), #h(2) .46%

(223):

ɪ(37), 16.59%

a(31), 13.90%

ə(21), 9.41%

i^j#(14), ə(14), 6.27%

ε(13), 5.82%

eⁱ(11), 4.93%

i^j(10), 4.48%

ə#(9), 4.03%

æ(8), 3.58%

ɑⁱ(7), 3.13%

o^w(6), 2.69%

u^w(5), 2.24%
 ɔ(3), a(3), #a(3), 1.34%
 u^w#(2), ʊ(2), o^w#(2), #ǣ(2), ə#(2), #æ(2), æⁱ(2) .89%

Broad (431):
 s(58), 13.45%
 ʃ(42), 9.74%
 n(40), 9.28%
 l(33), 7.65%
 k(32), 7.42%
 w(25), 5.80%
 t(24), 5.56%
 m(22), t(22), 5.10%
 p(18), 4.17%
 f(14), 3.24%
 d(13), g(13), 3.01%
 z(11), 2.55%
 v(10), 2.32%
 b(9), 2.08%
 ŋ(6), 1.39%
 j(5), 1.16%
 f(4), .92%
 ɟ(3), r(3), .69%
 r(2), ð(2), h(2) .46%

(223):
 ɪ(37), 16.59%
 a(35), 15.69%
 ə(31), 13.90%
 i(26), 11.65%
 ǣ(18), 8.07%
 ɛ(14), 6.27%
 e(13), a(13), 5.82%
 æ(12), 5.38%
 u(9), 4.03%
 o(8), 3.58%
 ɔ(4), 1.79%
 ʊ(2) .89%

654 total segments

Supra-Segments: Consonant Clusters

Consonant Cluster Total for Stressed and Unstressed Syllables and Monosyllables according to Syllable Configuration

Monosyllable Consonant Cluster Onset (all entries are word initial) (10):
 #sw(2) 20.00%

Monosyllable Consonant Cluster Coda (all entries are word final):

First Syllable Consonant Cluster Stressed Onset (all entries are word initial) (25):
 #sw(5), 20.00%
 #st(2), #sm(2), #sl(2), #k^hɹ(2), #gɹ(2) 8.00%

First Syllable Consonant Cluster Stressed Coda:

First Syllable Consonant Cluster Unstressed Onset (all entries are word initial):
 First Syllable Consonant Cluster Unstressed Coda:

Second Syllable Consonant Cluster Stressed Onset (4):
 skw(2) 50.00%

Second Syllable Consonant Cluster Stressed Coda:

Second Syllable Consonant Cluster Unstressed Onset (4):
tɪ(2) 50.00%

Second Syllable Consonant Cluster Unstressed Coda:

Third Syllable Consonant Cluster Stressed Onset:
Third Syllable Consonant Cluster Stressed Coda:
Third Syllable Consonant Cluster Unstressed Onset:
Third Syllable Consonant Cluster Unstressed Coda:

Fourth Syllable Consonant Cluster Stressed Onset:
Fourth Syllable Consonant Cluster Stressed Coda:
Fourth Syllable Consonant Cluster Unstressed Onset:
Fourth Syllable Consonant Cluster Unstressed Coda:

Fifth Syllable Consonant Cluster Stressed Onset:
Fifth Syllable Consonant Cluster Stressed Coda:
Fifth Syllable Consonant Cluster Unstressed Onset:
Fifth Syllable Consonant Cluster Unstressed Coda:

Consonant Cluster Total for Stressed and Unstressed Onsets and Codas

Stressed Onset (29):
#sw(5), 17.24%
#st(2), #sm(2), skw(2), #sl(2), #kʰɪ(2), #gɪ(2) 6.89%

Stressed Coda:

Unstressed Onset (7):
tɪ(2) 28.57%

Unstressed Coda:

Consonant Cluster Total for Onsets and Codas

Onset (46):
#sw(7), 15.21%
#skw(3), #sp(3), #gɪ(3), 6.52%
tɪ(2), #st(2), #sm(2), skw(2), #sl(2), #spɪ(2), #kʰɪ(2) 4.34%

Coda:

Consonant Cluster Total for Stressed and Unstressed Syllables and Monosyllables

Monosyllable Consonant Cluster (15):
#sw(2) 13.33%

First Syllable Consonant Cluster Stressed (26):
#sw(5), 19.23%
#st(2), #sm(2), #sl(2), #kʰɪ(2), #gɪ(2) 7.69%

First Syllable Consonant Cluster Unstressed:

Second Syllable Consonant Cluster Stressed (5):
skw(2) 40.00%

Second Syllable Consonant Cluster Unstressed (6):
tɪ(2) 33.33%

Third Syllable Consonant Cluster Stressed:
Third Syllable Consonant Cluster Unstressed:

Fourth Syllable Consonant Cluster Stressed:
Fourth Syllable Consonant Cluster Unstressed:

Fifth Syllable Consonant Cluster Stressed:
Fifth Syllable Consonant Cluster Unstressed:

Consonant Cluster Total per Syllable

First Syllable Consonant Cluster (29):

#sw(5), 17.24%

#gɹ(3), 10.34%

#sl(2), #st(2), #sm(2), #skw(2), #sp(2), #kʰɹ(2) 6.89%

Second Syllable Consonant Cluster (11):

tɹ(2), skw(2) 18.18%

Third Syllable Consonant Cluster:

Fourth Syllable Consonant Cluster:

Fifth Syllable Consonant Cluster:

Consonant Cluster Stressed and Unstressed Total

Consonant Cluster Stressed (31):

#sw(5), 16.12%

#st(2), #sm(2), skw(2), #sl(2), #kʰɹ(2), #gɹ(2) 6.45%

Consonant Cluster Unstressed (9):

tɹ(2) 22.22%

Consonant Cluster Total (absolute)

Narrow (55):

#sw(7), 12.72%

skw(3), #sp(3), #gɹ(3), 5.45%

tɹ(2), #st(2), #sm(2), #skw(2), #sl(2), #spɹ(2), #kʰɹ(2) 3.63%

Broad (55):

sw(7), 12.72%

skw(5), 9.09%

tɹ(4), gɹ(4), 7.27%

sp(3), 5.45%

st(2), sm(2), sl(2), spɹ(2), kɹ(2), kl(2) 3.63%

55 total consonant clusters

Supra-Segments: Whole Syllables

Whole Syllable Total for Stressed and Unstressed Syllables and Monosyllables

Monosyllable Whole Syllable:

First Syllable Whole Syllable Stressed (all entries are word initial) (78):

#kʰan(3), #bɹ(2), #so(2), #loʷ(2), #saɪ(2) 2.56%

First Syllable Whole Syllable Unstressed (all entries are word initial) (21):

#sə(3) 14.28%

Second Syllable Whole Syllable Stressed:

Second Syllable Whole Syllable Unstressed (83):

piʲ#(4), zʲ#(4), liʲ#(2), və(2), rʲ#(2) 2.40%

Third Syllable Whole Syllable Stressed:

Third Syllable Whole Syllable Unstressed (24):

nə#(3), 12.50%

sʰm̩#(2) 8.33%

Fourth Syllable Whole Syllable Stressed:

Fourth Syllable Whole Syllable Unstressed (7):

ə#(2) 28.57%

Fifth Syllable Whole Syllable Stressed:

Fifth Syllable Whole Syllable Unstressed:

Whole Syllable Total per Syllable

First Syllable Whole Syllable (all entries are word initial) (99):

#sə(3), #k^han(3), 3.03%#bɪ(2), #so(2), #lo^w(2), #æ(2), #saⁱ(2), #ma(2) 2.02%

Second Syllable Whole Syllable (99):

piⁱ#(4), zə^t#(4), liⁱ#(2), və(2), rə^t#(2) 2.02%

Third Syllable Whole Syllable (29):

nə#(3), 10.34%

sə^m#(2) 6.89%

Fourth Syllable Whole Syllable (7):

ə#(2) 28.57%

Fifth Syllable Whole Syllable:

Whole Syllable Stressed and Unstressed Total

Whole Syllable Stressed (99):#k^han(3), 3.03%#bɪ(2), #so(2), #lo^w(2), #saⁱ(2) 2.02%

Whole Syllable Unstressed (135):

piⁱ#(4), nə#(4), zə^t#(4), 29.62%

lɪn#(3), #sə(3), 22.22%

liⁱ#(2), ə#(2), və(2), rə^t#(2), sə^m#(2), ɹəs#(2), jə(2) 14.81%

Whole Syllable Total (absolute)

Narrow (249):

piⁱ#(4), nə#(4), zə^t#(4), 1.60%lɪn#(3), #sə(3), #k^han(3), 1.20%liⁱ#(2), #bɪ(2), #so(2), #lo^w(2), ə#(2), və(2), rə^t#(2), sə^m#(2), ɹəs#(2), jə(2), #æ(2), #saⁱ(2), #ma(2), la(2) .80%

Broad (249):

pi(4), nə(4), zə^t(4), 1.60%

zi(3), li(3), lɪn(3), ə(3), sə(3), kan(3), 1.20%

ki(2), ɹu(2), bɪ(2), vɪ(2), ɹɪ(2), lɪ(2), so(2), lo(2), bə^t(2), və(2), rə^t(2), sə^m(2), ɹəs(2), ɹə(2), la(2), jə(2), ʔə(2), lə(2), pɔɹ(2), æ(2), na(2), sa(2),
ma(2), la(2), laɹ(2) .80%

249 total whole syllables

Supra-Segments: Whole Words

	Syllable Receiving Stress					
	None	First	Second	Third	Fourth	Fifth
Word Length Total						
Monosyllabic: 13.15%						
Bisyllabic: 62.28%	0	91.54%/ 83.33%	8.45%/ 37.50%			
Trisyllabic: 17.54%	0	60.00%/ 15.38%	35.00%/ 43.75%	5.00%/ 20.00%		
Tetrasyllabic: 7.01%	0	12.50%/ 1.28%	37.50%/ 18.75%	50.00%/ 80.00%	0	
Pentasyllabic: 0	0	0	0	0	0	0
Stressed Syllable Total:		78.78%	16.16%	5.05%	0	0

Table Key: The “Word Length Total” column figure represents the percentage of words that is of that word length. For the cells inside the “Syllable Receiving Stress” columns, the amount on top indicates what percentage of a particular word length was stressed on that syllable. The number on the bottom indicates, for all the words that received stress on a particular syllable, what percentage of these words were of a particular word length. The “Stressed Syllable Total” row indicates what percentage of words was stressed on a particular syllable. Note that monosyllables were not analyzed as receiving stress and the “None” cell in the “Stressed Syllable Total” row is inapplicable.

For 114 whole words there are no repeated words.



Question ID: e.

Segments

Segment Total for Stressed and Unstressed Syllables and Monosyllables according to Syllable Configuration

Monosyllable Onset (26):

ɹ(4), 15.38%

#s(3), l(3), #k^h(3), 11.53%

#p^h(2), p(2), #t^h(2) 7.69%

Monosyllable Nucleus (15):

a(6), 40.00%

i^j(2), æ(2) 13.33%

Monosyllable Coda (16):

d[#](2), ɹ(2), k[#](2) 12.50%

First Syllable Segment Stressed Onset (86):

ɹ(9), 10.46%

#p^h(7), #b(7), 8.13%

#ɹ(6), #k^h(6), 6.97%

#m(5), #t^h(5), 5.81%

#f(4), #d(4), #s(4), l(4), #g(4), 4.65%

#l(3), j(3), #k(3), #w(3), 3.48%

k(2), w(2) 2.32%

First Syllable Segment Stressed Nucleus (66):

a(16), 24.24%

ɪ(10), 15.15%

u^w(6), 9.09%

æ(5), 7.57%

ə(4), 6.06%

e^j(3), ε(3), ʌ(3), a^j(3), 4.54%

o^w(2), a(2) 3.03%

First Syllable Segment Stressed Coda (32):

n(6), ɹ(6), k(6), 18.75%

m(5), 15.62%

d(2), t(2) 6.25%

First Syllable Segment Unstressed Onset (33):

#k^h(5), 15.15%

#m(3), 9.09%

#p(2), #b(2), #v(2), t(2), #d(2), ɹ(2), #k(2), w(2) 6.06%

First Syllable Segment Unstressed Nucleus (31):

ə(10), 32.25%

ɪ(7), 22.58%

a(3), 9.67%

o^w(2) 6.45%

First Syllable Segment Unstressed Coda (8):

m(2), ɹ(2), ŋ(2) 25.00%

Second Syllable Segment Stressed Onset (32):

ɹ(7), 21.87%
t^h(4), l(4), 12.50%
b(3), 9.37%
p^h(2), d(2), k^h(2), g(2) 6.25%

Second Syllable Segment Stressed Nucleus (28):

a(7), 25.00%
eⁱ(3), ε(3), æ(3), 10.71%
ɪ(2), o^w(2) 7.14%

Second Syllable Segment Stressed Coda (21):

n(5), 23.80%
ɹ(3), 14.28%
n[#](2), ɹ[#](2), k(2) 9.52%

Second Syllable Segment Unstressed Onset (81):

t(10), 12.34%
s(8), 9.87%
ɹ(7), k(7), 8.64%
d(6), n(6), 7.40%
r(5), l(5), g(5), 6.17%
w(4), 4.93%
b(3), z(3), 3.70%
p(2), p^h(2), m(2) 2.46%

Second Syllable Segment Unstressed Nucleus (72):

ə(11), 15.27%
a(10), 13.88%
ɪ(9), 12.50%
i^j[#](6), 8.33%
o^w[#](4), ɹ[#](4), ɔ^w(4), 5.55%
ə^h[#](3), ə^h[#](3), ɔ^w[#](3), 4.16%
i^j(2), o[#](2), o^w(2) 2.77%

Second Syllable Segment Unstressed Coda (30):

k[#](5), 16.66%
t[#](4), n[#](4), 13.33%
k(3), 10.00%
n(2), s[#](2) 6.66%

Third Syllable Segment Stressed Onset:

Third Syllable Segment Stressed Nucleus:

Third Syllable Segment Stressed Coda:

Third Syllable Segment Unstressed Onset (32):

t(6), 18.75%
n(4), l(4), 12.50%
f(3), d(3), z(3), 9.37%
r(2) 6.25%

Third Syllable Segment Unstressed Nucleus (33):

ɪ(6), 18.18%
ə(5), 15.15%
i^j(2), o^w[#](2), ə[#](2), ɹ[#](2), ε(2), aⁱ(2) 6.06%

Third Syllable Segment Unstressed Coda (16):

n[#](4), 25.00%
s[#](3), 18.75%
t[#](2), k[#](2) 12.50%

Fourth Syllable Segment Stressed Onset:

Fourth Syllable Segment Stressed Nucleus:

Fourth Syllable Segment Stressed Coda:

Fourth Syllable Segment Unstressed Onset (7):
r(2) 28.57%

Fourth Syllable Segment Unstressed Nucleus (8):
ə#(2) 25.00%

Fourth Syllable Segment Unstressed Coda:

Fifth Syllable Segment Stressed Onset:
Fifth Syllable Segment Stressed Nucleus:
Fifth Syllable Segment Stressed Coda:
Fifth Syllable Segment Unstressed Onset:
Fifth Syllable Segment Unstressed Nucleus:
Fifth Syllable Segment Unstressed Coda:

Segment Total for Stressed and Unstressed Onsets and Codas

Stressed Onset (120):

ɹ(17), 14.16%
l(8), 6.66%
#p^h(7), #b(7), 5.83%
#ɹ(6), #k^h(6), 5.00%
#m(5), #t^h(5), t^h(5), 4.16%
#f(4), #d(4), #s(4), j(4), #g(4), 3.33%
b(3), #l(3), #k(3), #w(3), 2.50%
p^h(2), d(2), k^h(2), k(2), g(2), w(2) 1.66%

Stressed Coda (54):

n(12), 22.22%
ɹ(9), 16.66%
k(8), 14.81%
m(5), 9.25%
t(3), 5.55%
d(2), n#(2), ɹ#(2), ŋ(2) 3.70%

Unstressed Onset (154):

t(18), 11.68%
n(11), 7.14%
ɹ(10), l(10), 6.49%
d(9), r(9), s(9), k(9), 5.84%
z(7), 4.54%
w(6), 3.89%
f(5), #k^h(5), g(5), 3.24%
b(4), 2.59%
p(3), #m(3), 1.94%
#p(2), p^h(2), #b(2), m(2), #v(2), #d(2), f(2), #k(2) 1.29%

Unstressed Coda (57):

n#(8), 14.03%
k#(7), 12.28%
t#(6), s#(6), 10.54%
t̃#(3), k(3), ŋ(3), 5.26%
m(2), n(2), ɹ(2), ɹ#(2) 3.50%

Segment Total for Onsets and Codas

Onset (300):

ɹ(31), 10.33%
l(21), 7.00%
t(18), 6.00%
#k^h(14), 4.66%
n(12), k(12), 4.00%

d(11), 3.66%
 #p^h(10), s(10), 3.33%
 #b(9), r(9), w(9), 3.00%
 #m(8), #s(8), z(8), #ɹ(8), 2.66%
 b(7), #t^h(7), g(7), 2.33%
 #f(6), f(6), #d(6), #k(6), 2.00%
 p(5), t^h(5), #l(5), j(5), 1.66%
 p^h(4), #g(4), #w(4), 1.33%
 m(3), #v(3), k^h(3), 1.00%
 #p(2), ʃ(2) .66%

Coda (127):

n(14), 11.02%
 ɹ(13), 10.23%
 k(12), 9.44%
 n#(10), 7.87%
 k#(9), 7.08%
 m(7), t#(7), s#(7), 5.51%
 ŋ(5), 3.93%
 t̃#(4), d#(4), ɹ#(4), ʔ(4), 3.14%
 p#(2), m#(2), f#(2), d(2), d̃#(2), dʒ#(2), s(2) 1.57%

Segment Total for Stressed and Unstressed Syllables and Monosyllables

Monosyllable Segment (52):

ɹ(6), 11.53%
 #s(3), l(3), #k^h(3), 5.76%
 #p^h(2), p(2), #t^h(2), d#(2), k(2), k#(2), iⁱ(2), æ(2) 3.84%

(15):

a(6), 40.00%
 iⁱ(2), æ(2) 13.33%

First Syllable Segment Stressed (118):

ɹ(15), 12.71%
 k(8), 6.77%
 #p^h(7), #b(7), 5.93%
 n(6), #ɹ(6), #k^h(6), 5.08%
 #m(5), m(5), #t^h(5), 4.23%
 #f(4), #d(4), #s(4), l(4), #g(4), 3.38%
 #l(3), j(3), #k(3), #w(3), 2.54%
 d(2), r(2), ʔ(2), w(2) 1.69%

(66):

a(16), 24.24%
 ɪ(10), 15.15%
 u^w(6), 9.09%
 æ(5), 7.57%
 ə(4), 6.06%
 eⁱ(3), (3), ʌ(3), aⁱ(3), 4.54%
 o^w(2), a(2) 3.03%

First Syllable Segment Unstressed (41):

#k^h(5), 12.19%
 ɹ(4), 9.75%
 #m(3), 7.31%
 #p(2), #b(2), m(2), #v(2), t(2), #d(2), #k(2), ŋ(2), w(2) 4.87%

(31):

ə(10), 32.25%

ɪ(7), 22.58%
a(3), 9.67%
o^w(2) 6.45%

Second Syllable Segment Stressed (53):

ɹ(10), 18.86%
n(6), 11.32%
t^h(4), l(4), 7.54%
b(3), 5.66%
p^h(2), d(2), n#(2), s(2), ɹ#(2), k^h(2), k(2), g(2) 3.77%

(28):

a(7), 25.00%
eⁱ(3), ɛ(3), æ(3), 10.71%
ɪ(2), o^w(2) 7.14%

Second Syllable Segment Unstressed (123):

t(10), k(10), 8.13%
n(8), s(8), 6.50%
ɹ(7), 5.69%
d(6), 4.87%
r(5), l(5), k#(5), g(5), 4.06%
t#(4), n#(4), ɳ#(4), w(4), 3.25%
b(3), ɱ#(3), ɳ#(3), z(3), 2.43%
p(2), p^h(2), m(2), s#(2) 1.62%

(60):

ə(11), 18.33%
a(10), 16.66%
ɪ(9), 15.00%
iⁱ#(6), 10.00%
o^w#(4), ɔ(4), 6.66%
ɔ#(3), 5.00%
iⁱ(2), o#(2), o^w(2) 3.33%

Third Syllable Segment Stressed:

Third Syllable Segment Unstressed (53):

t(6), 11.32%
n(4), n#(4), l(4), 7.54%
f(3), d(3), s#(3), z(3), 5.66%
t#(2), r(2), ɳ#(2), k#(2) 3.77%

(28):

ɪ(6), 21.42%
ə(5), 17.85%
iⁱ(2), o^w#(2), ə#(2), ɛ(2), aⁱ(2) 7.14%

Fourth Syllable Segment Stressed:

Fourth Syllable Segment Unstressed (10):

r(2) 20.00%

(7):

ə#(2) 28.57%

Fifth Syllable Segment Stressed:

Fifth Syllable Segment Unstressed:

Segment Total by Syllable

First Syllable Segment (159):

ɹ(19), 11.94%
 #k^h(11), 6.91%
 #b(9), 5.66%
 #p^h(8), #m(8), k(8), 5.03%
 m(7), #ɹ(7), 4.40%
 #d(6), n(6), 3.77%
 #f(5), #t^h(5), #s(5), #k(5), 3.14%
 #l(4), l(4), #g(4), #w(4), w(4) 2.51%
 #v(3), t(3), ʈ(3), j(3), ɲ(3), 1.88%
 #p(2), d(2), r(2) 1.25%

(97):

a(19), 19.58%
 ɪ(17), 17.52%
 ə(10), 10.30%
 u^w(6), æ(6), 6.18%
 ʌ(5), 5.15%
 o^w(4), ɛ(4), aⁱ(4), 4.12%
 eⁱ(3), ʌ(3), 3.09%
 i(2), a(2), #a(2) 2.06%

Second Syllable Segment (176):

ɹ(17), 9.65%
 n(14), 7.95%
 k(12), 6.81%
 t(10), s(10), 5.68%
 l(9), 5.11%
 d(8), 4.54%
 g(7), 3.97%
 b(6), 3.40%
 r(5), k#(5), 2.84%
 p^h(4), t^h(4), t#(4), z(4), ʈ#(4), w(4), 2.27%
 m(3), ʌ#(3), ɲ#(3), ɹ#(3), k^h(3), 1.70%
 p(2), f(2), f#(2), s#(2), j(2), ɲ(2) 1.13%

(88):

a(17), 19.31%
 ɪ(11), ə(11), 12.50%
 iⁱ#(7), 7.95%
 o^w#(5), 5.68%
 eⁱ(4), o^w(4), ʌ(4), ɛ(4), 4.54%
 iⁱ(3), ʌ#(3), æ(3), 3.40%
 o#(2), ɔ(2), aⁱ#(2) 2.27%

Third syllable Segment (56):

t(6), 10.71%
 n(5), 8.92%
 n#(4), l(4), 7.14%
 f(3), d(3), s#(3), z(3), 5.35%
 t#(2), r(2), ɹ(2), ʈ#(2), k#(2) 3.57%

(30):

ɪ(6), 20.00%
 ə(5), 16.66%
 iⁱ(2), o^w#(2), ʌ#(2), ɛ(2), aⁱ(2) 6.66%

Fourth Syllable Segment (10):

r(2) 20.00%

(7):
ə#(2) 28.57%

Fifth Syllable Segment:

Segment Stressed and Unstressed Total

Stressed Segment (174):

ɹ(26), 14.94%
n(13), 7.47%
k(10), 5.74%
l(8), 4.59%
#p^h(7), #b(7), 4.02%
m(6), #ɹ(6), #k^h(6), 3.44%
#m(5), #t^h(5), t^h(5), 2.87%
#f(4), #d(4), d(4), #s(4), j(4), #g(4), 2.29%
b(3), #l(3), ʈ(3), #k(3), g(3), #w(3), 1.72%
p^h(2), n#(2), r(2), s(2), ɹ#(2), k^h(2), ŋ(2), w(2) 1.14%

(96):

a(23), 23.95%
ɪ(12), 12.50%
æ(9), 9.37%
u^w(7), 7.29%
eⁱ(6), ε(6), 6.25%
o^w(4), ǣ(4), ʌ(4), 4.16%
aⁱ(3), 3.12%
iⁱ(2), ɔ(2), ɔⁱ(2), a(2) 2.08%

Unstressed Segment (229):

t(18), 7.86%
n(13), 5.67%
ɹ(12), k(12), 5.24%
s(10), l(10), 4.36%
d(9), r(9), 3.93%
n#(8), 3.49%
z(7), ʈ#(7), k#(7), 3.05%
t#(6), s#(6), w(6), 2.62%
f(5), #k^h(5), g(5), 2.18%
b(4), m(4), ʌm#(4), ʌŋ#(4), 1.74%
p(3), #m(3), ŋ(3), 1.31%
#p(2), p^h(2), #b(2), #v(2), t^h#(2), #d(2), ts(2), ʌŋ(2), f(2), ɹ#(2), #k(2) .87%

(127):

ə(27), 21.25%
ɪ(23), 18.11%
a(14), 11.02%
iⁱ#(6), o^w#(6), ǣ(6), 4.72%
o^w(5), ə#(5), 3.93%
iⁱ(4), ǣ#(4), ε(4), 3.14%
eⁱ(3), aⁱ(3), 2.36%
u^w#(2), o#(2), ɔⁱ(2), aⁱ#(2) 1.57%

Segment Total (absolute)

Narrow (455):

ɹ(44), 9.67%
n(26), 5.71%
k(24), 5.27%
l(21), 4.61%

t(19), 4.17%
 #k^h(14), 3.07%
 d(13), 2.85%
 s(12), 2.63%
 #p^h(10), m(10), # n#(10), 2.19%
 b(9), r(9), k#(9), w(9), 1.97%
 #m(8), #s(8), z(8), #ɹ(8), g(8), 1.75%
 b(7), #t^h(7), t#(7), s#(7), ɬ#(7), 1.53%
 #f(6), f(6), #d(6), #k(6), 1.31%
 p(5), t^h(5), #l(5), j(5), ɲ(5), 1.09%
 p^h(4), ʷm#(4), d#(4), ʷɲ#(4), ɹ#(4), t(4), #g(4), #w(4), .87%
 #v(3), k^h(3), .65%
 #p(2), p#(2), m#(2), f#(2), t`#(2), t`#(2), d`#(2), ts(2), dʒ(2), dʒ#(2), ʷɲ(2), r(2), ʃ(2) .43%

(238):
 a(43), 18.06%
 ɪ(35), 14.70%
 ə(27), 11.34%
 æ(12), 5.04%
 o^w(10), ʌ(10), ɛ(10), 4.20%
 eⁱ(9), 3.78%
 iⁱ(8), iⁱ#(8), 3.36%
 u^w(7), o^w#(7), 2.94%
 aⁱ(6), 2.52%
 ə#(5), 2.10%
 ʌ#(4), ʌ(4), ɔⁱ(4), aⁱ#(4), 1.68%
 ɔ(3), 1.26%
 i(2), u^w#(2), o#(2), ɛⁱ(2), a(2), #a(2), a#(2) .84%

Broad (455):
 k(58), 12.74%
 ɹ(56), 12.30%
 t(43), n(43), 9.45%
 s(27), l(27), 5.93%
 d(25), 5.49%
 m(24), 5.27%
 p(23), 5.05%
 b(16), 3.51%
 f(14), 3.07%
 g(13), w(13), 2.85%
 t(12), 2.63%
 z(10), 2.19%
 r(9), 1.97%
 ɲ(6), 1.31%
 dʒ(5), j(5), 1.09%
 v(3), ʃ(3), .65%
 ts(2), r(2) .43%

(238):
 a(48), 20.16%
 ɪ(35), 14.70%
 ə(33), 13.86%
 o(20), 8.40%
 i(18), 7.56%
 ʌ(15), 6.30%
 a(13), 5.46%
 ɛ(12), æ(12), 5.04%
 u(10), e(10), 4.20%

ɔ(7), 2.94%

ʌ(4) 1.68%

693 total segments

Supra-Segments: Consonant Clusters

Consonant Cluster Total for Stressed and Unstressed Syllables and Monosyllables according to Syllable Configuration

Monosyllable Consonant Cluster Onset (all entries are word initial):

Monosyllable Consonant Cluster Coda (all entries are word final):

First Syllable Consonant Cluster Stressed Onset (all entries are word initial) (17):

#bl(2), #bɹ(2), #skw(2), #k^hj(2) 11.76%

First Syllable Consonant Cluster Stressed Coda:

First Syllable Consonant Cluster Unstressed Onset (all entries are word initial) (3):

#k^hɹ(2) 66.66%

First Syllable Consonant Cluster Unstressed Coda:

Second Syllable Consonant Cluster Stressed Onset (4):

t^hɹ(3) 75.00%

Second Syllable Consonant Cluster Stressed Coda:

Second Syllable Consonant Cluster Unstressed Onset:

Second Syllable Consonant Cluster Unstressed Coda (6):

nt#(2) 33.33%

Third Syllable Consonant Cluster Stressed Onset:

Third Syllable Consonant Cluster Stressed Coda:

Third Syllable Consonant Cluster Unstressed Onset:

Third Syllable Consonant Cluster Unstressed Coda:

Fourth Syllable Consonant Cluster Stressed Onset:

Fourth Syllable Consonant Cluster Stressed Coda:

Fourth Syllable Consonant Cluster Unstressed Onset:

Fourth Syllable Consonant Cluster Unstressed Coda:

Fifth Syllable Consonant Cluster Stressed Onset:

Fifth Syllable Consonant Cluster Stressed Coda:

Fifth Syllable Consonant Cluster Unstressed Onset:

Fifth Syllable Consonant Cluster Unstressed Coda:

Consonant Cluster Total for Stressed and Unstressed Onsets and Codas

Stressed Onset (21):

t^hɹ(3), 14.28%

#bl(2), #bɹ(2), #skw(2), #k^hj(2) 9.52%

Stressed Coda:

Unstressed Onset (10):

#k^hɹ(2) 20.00%

Unstressed Coda (7):

nt#(2) 28.57%

Consonant Cluster Total for Onsets and Codas

Onset (39):

#k^hɹ(4), 10.25%

t^hɹ(3), 7.69%

#p^hl(2), #bl(2), #bɹ(2), #fl(2), #skw(2), #k^hj(2), #k^hw(2) 5.12%

Coda (14):

nt#(2), kt#(2) 14.28%

Consonant Cluster Total for Stressed and Unstressed Syllables and Monosyllables

Monosyllable Consonant Cluster:

First Syllable Consonant Cluster Stressed (18):

#bl(2), #bɹ(2), #skw(2), #k^hj(2) 11.11%

First Syllable Consonant Cluster Unstressed (3):

#k^hɹ(2) 66.66%

Second Syllable Consonant Cluster Stressed (6):

t^hɹ(3) 50.00%

Second Syllable Consonant Cluster Unstressed (12):

nt#(2) 16.66%

Third Syllable Consonant Cluster Stressed:

Third Syllable Consonant Cluster Unstressed:

Fourth Syllable Consonant Cluster Stressed:

Fourth Syllable Consonant Cluster Unstressed:

Fifth Syllable Consonant Cluster Stressed:

Fifth Syllable Consonant Cluster Unstressed:

Consonant Cluster Total per Syllable

First Syllable Consonant Cluster (21):

#k^hɹ(3), 14.28%

#bl(2), #bɹ(2), #skw(2), #k^hj(2), #k^hw(2) 9.52%

Second Syllable Consonant Cluster (18):

t^hɹ(3), 16.66%

nt#(2) 11.11%

Third Syllable Consonant Cluster:

Fourth Syllable Consonant Cluster:

Fifth Syllable Consonant Cluster:

Consonant Cluster Stressed and Unstressed Total

Consonant Cluster Stressed (24):

t^hɹ(3), 12.50%

#bl(2), #bɹ(2), #skw(2), #k^hj(2) 8.33%

Consonant Cluster Unstressed (17):

nt#(2), #k^hɹ(2) 11.76%

Consonant Cluster Total (absolute)

Narrow (53):

#k^hɹ(4), 7.54%

t^hɹ(3), 5.66%

#p^hl(2), #bl(2), #bɹ(2), #fl(2), nt#(2), #skw(2), #k^hj(2), #k^hw(2), kt#(2) 3.77%

Broad (53):

ɹɹ(5), kɹ(5), 9.43%

bl(3), bɹ(3), kw(3), 5.66%

pɹ(2), pl(2), fl(2), fɹ(2), dɹ(2), nt(2), skw(2), kj(2), kt(2) 3.77%

53 total consonant clusters

Supra-Segments: Whole Syllables

Whole Syllable Total for Stressed and Unstressed Syllables and Monosyllables

Monosyllable Whole Syllable:

First Syllable Whole Syllable Stressed (all entries are word initial) (68):

#k^hju^w(2), #fjeⁱ(2) 2.94%

First Syllable Whole Syllable Unstressed (all entries are word initial) (31):

#bə(2) 6.45%

Second Syllable Whole Syllable Stressed:

Second Syllable Whole Syllable Unstressed (71):

ziⁱ#(2), ko^w#(2), təŋ#(2), ɹɤ#(2), dɤ(2) 2.81%

Third Syllable Whole Syllable Stressed:

Third Syllable Whole Syllable Unstressed (33):

zo^w#(2) 6.06%

Fourth Syllable Whole Syllable Stressed:

Fourth Syllable Whole Syllable Unstressed:

Fifth Syllable Whole Syllable Stressed:

Fifth Syllable Whole Syllable Unstressed:

Whole Syllable Total per Syllable

First Syllable Whole Syllable (all entries are word initial) (99):

#k^hju^w(2), #fjeⁱ(2), #bə(2), #vaⁱ(2), #a(2), #ma(2) 2.02%

Second Syllable Whole Syllable (99):

ziⁱ#(2), ko^w#(2), təŋ#(2), ɹɤ#(2), dɤ(2) 2.02%

Third Syllable Whole Syllable (35):

zo^w#(2) 5.71%

Fourth Syllable Whole Syllable:

Fifth Syllable Whole Syllable:

Whole Syllable Stressed and Unstressed Total

Whole Syllable Stressed (98):

#k^hju^w(2), #fjeⁱ(2) 2.04%

Whole Syllable Unstressed (144):

təŋ#(3), ɹɤ#(3), 2.08%

ziⁱ#(2), zo^w#(2), ko^w#(2), pə(2), #bə(2), tə#(2), nə(2), ɹɤ#(2), dɤ(2), kɤ(2) 1.38%

Whole Syllable Total (absolute)

Narrow (258):

təŋ#(3), ɹɤ#(3), 1.16%

ziⁱ#(2), #k^hju^w(2), #fjeⁱ(2), zo^w#(2), ko^w#(2), pə(2), #bə(2), tə#(2), nə(2), ɹɤ#(2), dɤ(2), kɤ(2), #vaⁱ(2), #a(2), #ma(2) .77%

Broad (258):

təŋ(4), ɹɤ(4), 1.55%

zo(3), ko(3), pə(3), nə(3), 1.16%

pi(2), di(2), zi(2), kju(2), sin(2), li(2), fje(2), fo(2), to(2), ə(2) bə(2), mə(2), tə(2), ɹɤ(2), gə(2), dɤ(2), rɤ(2), kɤ(2), va(2), a(2), paɪ(2), ma(2),
ɹan(2), kaɪ(2), gaɪ(2) .77%

258 total whole syllables

Supra-Segments: Whole Words

	Syllable			Receiving	Stress	
	None	First	Second	Third	Fourth	Fifth
Word Length Total						
Monosyllabic: 13.15%						
Bisyllabic: 55.26%	1.58%/100%	80.95%/75.00%	17.46%/39.28%			
Trisyllabic: 24.56%	0	57.14%/23.52%	42.85%/42.85%	0		
Tetrasyllabic: 6.14%	0	14.28%/1.47%	71.42%/17.85%	14.28%/50.00%	0	
Pentasyllabic: .87%	0	0	0	100%/50.00%	0	0
Stressed Syllable Total:		69.38%	28.57%	2.04%	0	0

Table Key: The “Word Length Total” column figure represents the percentage of words that is of that word length. For the cells inside the “Syllable Receiving Stress” columns, the amount on top indicates what percentage of a particular word length was stressed on that syllable. The number on the bottom indicates, for all the words that received stress on a particular syllable, what percentage of these words were of a particular word length. The “Stressed Syllable Total” row indicates what percentage of words was stressed on a particular syllable. Note that monosyllables were not analyzed as receiving stress and the “None” cell in the “Stressed Syllable Total” row is inapplicable.

For all 114 whole words there are no repeated words.



Question ID: f.

Segments

Segment Total for Stressed and Unstressed Syllables and Monosyllables according to Syllable Configuration

Monosyllable Onset (40):

ɹ(6), 15.00%

#k^h(5), 12.50%

#s(4), 10.00%

#b(3), 7.50%

t(2), #d(2), #f(2), l(2), k(2), w(2) 5.00%

Monosyllable Nucleus (27):

a(7), 25.92%

æ(6), 22.22%

iⁱ(2), ε(2) 7.40%

Monosyllable Coda (32):

t#(4), n(4), s#(4), 12.50%

k#(3), 9.37%

d#(2), n#(2), z#(2), ɹ(2), k(2) 6.25%

First Syllable Segment Stressed Onset (74):

#s(17), 22.97%

k(7), 9.45%

t(6), 8.10%

ɹ(5), #k^h(5), 6.75%

#f(4), #n(4), l(4), 5.40%

#p^h(3), #ɹ(3), #g(3), 4.05%

p(2), #z(2), #j(2), #w(2) 2.70%

First Syllable Segment Stressed Nucleus (59):

æ(11), 18.64%

a(10), 16.94%

iⁱ(5), u^w(5), 8.47%eⁱ(4), 6.77%

ε(3), #a(3), 5.08%

ɪ(2), o^w(2), ɔ(2), #æ(2), #aⁱ(2) 3.38%

First Syllable Segment Stressed Coda (21):

n(8), 38.09%

ɹ(3), k(3), 14.28%

p(2) 9.52%

First Syllable Segment Unstressed Onset (20):

#k(3), 15.00%

#b(2), #f(2), #s(2) 10.00%

First Syllable Segment Unstressed Nucleus (25):

u^w(5), #ɪ(5), 20.00%

ə(4), 16.00%

a(3), 12.00%

#ə(2) 8.00%

First Syllable Segment Unstressed Coda (5):
n(2) 40.00%

Second Syllable Segment Stressed Onset (30):
m(5), 16.66%
ɹ(4), k^h(4), 13.33%
t^h(3), 10.00%
s(2), l(2) 6.66%

Second Syllable Segment Stressed Nucleus (22):
a(9), 40.90%
u^wʔ(3), 13.63%
ɪ(2) 9.09%

Second Syllable Segment Stressed Coda (14):
n(5), 35.71%
s(2), ɹ(2) 14.28%

Second Syllable Segment Unstressed Onset (73):
t(8), l(8), 10.95%
s(7), 9.58%
f(6), k(6), 8.21%
p(4), n(4), 5.47%
v(3), d(3), r(3), ʃ(3), 4.10%
dʒ(2), ɹ(2) 2.73%

Second Syllable Segment Unstressed Nucleus (52):
ə(10), 19.23%
ɪ(8), 15.38%
ʔŋʔ(4), ʔ(4), 7.69%
iʔ(3), eʔ(3), o^wʔ(3), ʔŋ(3), a(3), 5.76%
u^w(2), ʊ(2), o^w(2), ʔ(2) 3.84%

Second Syllable Segment Unstressed Coda (25):
kʔ(4), 16.00%
nʔ(3), 12.00%
tʔ(2), dʔ(2), n(2), zʔ(2), ɹʔ(2), ʔ(2) 8.00%

Third Syllable Segment Stressed Onset:
Third Syllable Segment Stressed Nucleus:
Third Syllable Segment Stressed Coda:

Third Syllable Segment Unstressed Onset (34):
l(5), 14.70%
t(4), n(4), ɹ(4), 11.76%
b(2), m(2), f(2), d(2), s(2), j(2), h(2) 5.88%

Third Syllable Segment Unstressed Nucleus (29):
ə(6), 20.68%
o^wʔ(4), 13.79%
ɪ(3), 10.34%
əʔ(2), ɛʔ(2), a(2) 6.89%

Third Syllable Segment Unstressed Coda (12):
sʔ(3), 25.00%
nʔ(2), ʔʔ(2) 16.66%

Fourth Syllable Segment Stressed Onset:
Fourth Syllable Segment Stressed Nucleus:
Fourth Syllable Segment Stressed Coda:

Fourth Syllable Segment Unstressed Onset (5):
g(2) 40.00%

Fourth Syllable Segment Unstressed Nucleus (7):
i^h#(2), ə(2) 28.57%

Fourth Syllable Segment Unstressed Coda (3):
s#(3) 100%

Fifth Syllable Segment Stressed Onset:
Fifth Syllable Segment Stressed Nucleus:
Fifth Syllable Segment Stressed Coda:
Fifth Syllable Segment Unstressed Onset:
Fifth Syllable Segment Unstressed Nucleus:
Fifth Syllable Segment Unstressed Coda:

Segment Total for Stressed and Unstressed Onsets and Codas

Stressed Onset (98):
#s(17), 17.34%
ɹ(9), 9.18%
t(7), k(7), 7.14%
l(6), 6.12%
m(5), #k^h(5), 5.10%
#f(4), #n(4), k^h(4), 4.08%
#p^h(3), t^h(3), #ɹ(3), #g(3), 3.06%
p(2), #z(2), s(2), #j(2), j(2), #w(2), w(2) 2.04%

Stressed Coda (35):
n(13), 37.14%
ɹ(5), 14.28%
s(3), k(3), 8.57%
p(2), z(2) 5.71%

Unstressed Onset (122):
l(15), 12.29%
t(12), 9.83%
s(9), 7.37%
f(8), n(8), 6.55%
k(7), 5.73%
ɹ(6), 4.91%
d(5), 4.09%
p(4), v(4), f(4), 3.27%
m(3), r(3), j(3), #k(3), g(3), 2.45%
#b(2), b(2), #f(2), dʒ(2), #s(2) 1.63%

Unstressed Coda (45):
s#(7), 15.55%
n(5), n#(5), 11.11%
k#(4), 8.88%
z#(3), ɹ#(3), 6.66%
t#(2), d^h#(2), t(2), t#(2) 4.44%

Segment Total for Onsets and Codas

Onset (260):
l(23), 8.84%
t(21), #s(21), ɹ(21), 8.07%
k(16), 6.15%
s(11), 4.23%
#k^h(10), 3.84%
m(9), f(9), n(9), 3.46%
#f(7), 2.69%
p(6), 2.30%

#b(5), d(5), #n(5), j(5), w(5), 1.92%
 #p^h(4), v(4), f(4), #ɹ(4), k^h(4), #g(4), g(4), 1.53%
 t^h(3), #d(3), dʒ(3), r(3), #j(3), #k(3), #w(3), 1.15%
 b(2), #m(2), #dʒ(2), #z(2), θ(2), #s(2), z(2), #f(2), #h(2) .76%

Coda (112):
 n(22), 19.64%
 s#(11), 9.82%
 k#(8), 7.14%
 t#(7), n#(7), ɹ(7), 6.25%
 k(6), 5.35%
 z#(5), 4.46%
 d#(4), s(4), 3.57%
 ɹ#(3), t(3), t#(3), 2.67%
 p(2), m(2), f#(2), v#(2), dʒ#(2), z(2), f#(2), g#(2) 1.78%

Segment Total for Stressed and Unstressed Syllables and Monosyllables

Monosyllable Segment (72):
 ɹ(8), 11.11%
 #k^h(5), 6.94%
 t#(4), n(4), #s(4), s#(4), k(4), 5.55%
 #b(3), k#(3), 4.16%
 t(2), #d(2), d#(2), n#(2), z#(2), #f(2), l(2), w(2) 2.77%

(27):
 a(7), 25.92%
 æ(6), 22.22%
 i^j(2), ε(2) 7.40%

First Syllable Segment Stressed (95):

#s(17), 17.89%
 k(10), 10.52%
 n(8), ɹ(8), 8.42%
 t(7), 7.36%
 #k^h(5), 5.26%
 p(4), #f(4), #n(4), l(4), 4.21%
 #p^h(3), #ɹ(3), #g(3), 3.15%
 #z(2), #j(2), #w(2) 2.10%

(59):

æ(11), 18.64%
 a(10), 16.94%
 i^j(5), u^w(5), 8.47%
 e^j(4), 6.77%
 ε(3), #a(3), 5.08%
 ɪ(2), o^w(2), ɔ(2), #æ(2), #a^j(2) 3.38%

First Syllable Segment Unstressed (25):

#k(3), 12.00%
 #b(2), m(2), #f(2), n(2), #s(2) 8.00%

(25):

u^w(5), #ɪ(5), 20.00%
 ə(4), 16.00%
 a(3), 12.00%
 #ə(2) 8.00%

Second Syllable Segment Stressed (44):

ɹ(6), 13.63%

m(5), n(5), 11.36%
s(4), k^h(4), 9.09%
t^h(3), 6.81%
z(2), l(2) 4.54%

(22):

a(9), 40.90%
u^w#(3), 13.63%
ɪ(2) 9.09%

Second Syllable Segment Unstressed (94):

t(8), l(8), 8.51%
s(7), 7.44%
f(6), n(6), k(6), 6.38%
p(4), ʷm̥#(4), k#(4), 4.25%
v(3), d(3), n#(3), ʷn̥(3), r(3), ʃ(3), 3.19%
t#(2), d̥#(2), dʒ(2), z#(2), ɹ(2), ɹ#(2), t(2) 2.12%

(52):

ə(10), 19.23%
ɪ(8), 15.38%
æ(4), 7.69%
i^ɪ#(3), e^ɪ#(3), o^w#(3), a(3), 5.76%
u^w(2), ʊ(2), o^w(2), æ#(2) 3.84%

Third Syllable Segment Stressed:

Third Syllable Segment Unstressed (48):

n(5), l(5), 10.41%
t(4), ɹ(4), 8.33%
s#(3), 6.25%
b(2), m(2), f(2), d(2), n#(2), s(2), t#(2), j(2), h(2) 4.16%

(27):

ə(6), 22.22%
o^w#(4), 14.81%
ɪ(3), 11.11%
ə#(2), ɛ^ɪ(2), a(2) 7.40%

Fourth Syllable Segment Stressed:

Fourth Syllable Segment Unstressed (9):

s#(3), 33.33%
g(2) 22.22%

(6):

i^ɪ#(2), ə(2) 33.33%

Fifth Syllable Segment Stressed:

Fifth Syllable Segment Unstressed:

Segment Total by Syllable

First Syllable Segment (120):

#s(19), 15.83%
k(11), 9.16%
n(10), 8.33%
ɹ(8), 6.66%
t(7), 5.83%
#f(6), 5.00%
#n(5), l(5), #k^h(5), 4.16%
p(4), #g(4), 3.33%

#p^h(3), m(3), #ɹ(3), #k(3), #w(3), 2.50%
#b(2), s(2), #z(2), #j(2) 1.66%

(84):
a(13), 15.47%
æ(11), 13.09%
u^w(10), 11.90%
i^j(6), 7.14%
#ɪ(5), 5.95%
eⁱ(4), ə(4), 4.76%
o^w(3), ɛ(3), ɔ(3), #a(3), 3.57%
#u^w(2), ɪ(2), #ə(2), ʌ(2), #ɛ(2), #æ(2), #aⁱ(2) 2.38%

Second Syllable Segment (138):
n(11), s(11), 7.97%
l(10), 7.24%
t(9), 6.52%
ɹ(8), 5.79%
f(7), 5.07%
k(6), 4.34%
m(5), k#(5), 3.62%
p(4), ʌm#(4), k^h(4), 2.89%
v(3), t^h(3), t#(3), d(3), dʒ(3), n#(3), ʌŋ(3), r(3), z(3), ʃ(3), 2.17%
d#(2), d^ː#(2), θ(2), z#(2), ɹ#(2), ʔ(2), j(2), g(2), w(2) 1.44%

(74):
a(12), 16.21%
ɪ(10), ə(10), 13.51%
u^w#(4), ʌ(4), 5.40%
i^j#(3), eⁱ#(3), o^w(3), o^w#(3), 4.05%
u^w(2), ʊ(2), eⁱ(2), ʌ#(2), aⁱ#(2) 2.70%

Third syllable Segment (49):
n(6), 12.24%
l(5), 10.20%
t(4), ɹ(4), 8.16%
s#(3), 6.12%
b(2), m(2), f(2), d(2), n#(2), s(2), ʔ#(2), j(2), h(2) 4.08%

(28):
ə(6), 21.42%
o^w#(4), 14.28%
ɪ(3), 10.71%
i^j(2), ə#(2), ɛⁱ(2), a(2) 7.14%

Fourth Syllable Segment (9):
s#(3), 33.33%
g(2) 22.22%

(6):
i^j#(2), ə(2) 33.33%

Fifth Syllable Segment:

Segment Stressed and Unstressed Total

Stressed Segment (140):
#s(17), 12.14%
n(14), ɹ(14), 10.00%
k(10), 7.14%
t(8), 5.71%

m(6), l(6), 4.28%
 s(5), #k^h(5), 3.57%
 p(4), #f(4), #n(4), k^h(4), 2.85%
 #p^h(3), t^h(3), z(3), #ɹ(3), #g(3), 2.14%
 #z(2), #j(2), j(2), #w(2), w(2) 1.42%

(82):
 a(19), 23.17%
 æ(11), 13.41%
 i^j(7), 8.53%
 u^w(5), eⁱ(5), 6.09%
 ɪ(4), 4.87%
 u^w#(3), o^w(3), ɛ(3), #a(3), 3.65%
 ɔ(2), #æ(2), #aⁱ(2) 2.43%

Unstressed Segment (176):
 l(15), 8.52%
 n(13), 7.38%
 t(12), 6.81%
 s(10), 5.68%
 f(8), k(8), 4.54%
 s#(7), 3.97%
 ɹ(6), 3.40%
 d(5), n#(5), 2.80%
 p(4), m(4), ʔm#(4), v(4), ʃ(4), k#(4), 2.27%
 ʔŋ(3), ʔŋ#(3), r(3), z#(3), ɹ#(3), t(3), j(3), #k(3), g(3), 1.70%
 #b(2), b(2), #f(2), t#(2), d^h#(2), dʒ(2), #s(2), t#(2), ʔ#(2), h(2) 1.13%

(110):
 ə(22), 20.00%
 ɪ(12), 10.90%
 a(8), 7.27%
 u^w(7), o^w#(7), 6.36%
 i^j#(6), ʌ(6), 5.45%
 #ɪ(5), 4.54%
 eⁱ#(4), o^w(4), ə#(4), 3.63%
 i^j(2), u^w#(2), ʊ(2), #ə(2), ʌ#(2), ɛⁱ(2), ɔ(2), aⁱ#(2) 1.81%

Segment Total (absolute)

Narrow (388):
 n(31), 7.98%
 ɹ(28), 7.21%
 #s(23), l(23), 5.92%
 t(22), k(22), 5.67%
 s(15), 3.86%
 m(11), s#(11), 2.83%
 #k^h(10), 2.57%
 f(9), 2.31%
 p(8), k#(8), 2.06%
 #f(7), t#(7), n#(7), 1.80%
 #b(5), d(5), #n(5), z#(5), j(5), w(5), 1.28%
 #p^h(4), ʔm#(4), v(4), d#(4), z(4), ʃ(4), #ɹ(4), t(4), k^h(4), #g(4), g(4), 1.03%
 b(3), t^h(3), #d(3), dʒ(3), ʔŋ(3), ʔŋ#(3), r(3), ɹ#(3), t#(3), #j(3), #k(3), #w(3), .77%
 #m(2), f#(2), v#(2), d^h#(2), #dʒ(2), ʈ(2), #z(2), #ʃ(2), ʃ#(2), ʔ#(2), g#(2), #h(2), h(2) .51%

(219):
 a(34), 15.52%
 ə(22), 10.04%

æ(17), 7.76%
 ɪ(16), 7.30%
 u^w(12), 5.47%
 iⁱ(11), 5.02%
 o^w#(8), 3.65%
 o^w(7), ə(7), 3.19%
 iⁱ#(6), eⁱ(6), ε(6), 2.73%
 u^w#(5), #ɪ(5), 2.28%
 eⁱ#(4), ə#(4), ɔ(4), 1.82%
 ə#(3), #ε(3), aⁱ#(3), #a(3), 1.36%
 ʊ(2), #u^w(2), ʊ(2), o#(2), #ə(2), εⁱ(2), ʌ(2), #æ(2), #aⁱ(2), a^w(2), a#(2) .91%

Broad (388):
 n(49), s(49), 12.62%
 k(47), 12.11%
 ʃ(35), 9.02%
 t(34), 8.76%
 l(24), 6.18%
 f(19), 4.89%
 m(17), 4.38%
 p(15), 3.86%
 d(14), 3.60%
 z(11), 2.83%
 g(10), 2.57%
 ʰ(9), 2.31%
 b(8), ʃ(8), j(8), w(8), 2.06%
 v(6), 1.54%
 dʒ(5), 1.28%
 h(4), 1.03%
 r(3), .77%
 tʃ(2), θ(2), ɳ(2) .51%

(219):
 a(40), 18.26%
 ə(28), 12.78%
 u(21), ɪ(21), 9.58%
 æ(19), 8.67%
 i(18), o(18), 8.21%
 e(11), 5.02%
 ə(10), ε(10), a(10), 4.56%
 ɔ(5), 2.28%
 ʌ(3), 1.36%
 ʊ(2), ʊ(2) .91%

607 total segments

Supra-Segments: Consonant Clusters

Consonant Cluster Total for Stressed and Unstressed Syllables and Monosyllables according to Syllable Configuration

Monosyllable Consonant Cluster Onset (all entries are word initial) (12):

#st(2) 16.66%

Monosyllable Consonant Cluster Coda (all entries are word final) (10):

nt#(2), ks#(2) 20.00%

First Syllable Consonant Cluster Stressed Onset (all entries are word initial) (21):

#sk(5), #st(5), 23.80%

#fl(2) 9.52%

First Syllable Consonant Cluster Stressed Coda:

First Syllable Consonant Cluster Unstressed Onset (all entries are word initial):

First Syllable Consonant Cluster Unstressed Coda:

Second Syllable Consonant Cluster Stressed Onset:

Second Syllable Consonant Cluster Stressed Coda:

Second Syllable Consonant Cluster Unstressed Onset:

Second Syllable Consonant Cluster Unstressed Coda:

Third Syllable Consonant Cluster Stressed Onset:

Third Syllable Consonant Cluster Stressed Coda:

Third Syllable Consonant Cluster Unstressed Onset (4):

st(2) 50.00%

Third Syllable Consonant Cluster Unstressed Coda:

Fourth Syllable Consonant Cluster Stressed Onset:

Fourth Syllable Consonant Cluster Stressed Coda:

Fourth Syllable Consonant Cluster Unstressed Onset:

Fourth Syllable Consonant Cluster Unstressed Coda:

Fifth Syllable Consonant Cluster Stressed Onset:

Fifth Syllable Consonant Cluster Stressed Coda:

Fifth Syllable Consonant Cluster Unstressed Onset:

Fifth Syllable Consonant Cluster Unstressed Coda:

Consonant Cluster Total for Stressed and Unstressed Onsets and Codas

Stressed Onset (25):

#sk(5), #st(5), 20.00%

#fl(2) 8.00%

Stressed Coda:

Unstressed Onset (9):

st(2) 22.22%

Unstressed Coda (5):

ŋs#(2) 40.00%

Consonant Cluster Total for Onsets and Codas

Onset (46):

#st(7), 15.21%

#sk(6), 13.04%

#fl(2), st(2), #k^hɹ(2), #k^hl(2) 4.34%

Coda (17):

nt#(4), 23.52%

nd#(2), ns#(2), ks#(2) 11.76%

Consonant Cluster Total for Stressed and Unstressed Syllables and Monosyllables

Monosyllable Consonant Cluster (22):

nt#(2), #st(2), ks#(2) 9.09%

First Syllable Consonant Cluster Stressed (21):

#sk(5), #st(5), 23.80%

#fl(2) 9.52%

First Syllable Consonant Cluster Unstressed:

Second Syllable Consonant Cluster Stressed:

Second Syllable Consonant Cluster Unstressed:

Third Syllable Consonant Cluster Stressed:

Third Syllable Consonant Cluster Unstressed (5):
st(2) 40.00%

Fourth Syllable Consonant Cluster Stressed:
Fourth Syllable Consonant Cluster Unstressed:

Fifth Syllable Consonant Cluster Stressed:
Fifth Syllable Consonant Cluster Unstressed:

Consonant Cluster Total per Syllable

First Syllable Consonant Cluster (24):
#sk(5), #st(5), 20.83%
#fl(2) 8.33%

Second Syllable Consonant Cluster (12):
nt#(2) 16.66%

Third Syllable Consonant Cluster (5):
st(2) 40.00%

Fourth Syllable Consonant Cluster:

Fifth Syllable Consonant Cluster:

Consonant Cluster Stressed and Unstressed Total

Consonant Cluster Stressed (27):
#sk(5), #st(5), 18.51%
#fl(2) 7.40%

Consonant Cluster Unstressed (14):
st(2) 14.28%

Consonant Cluster Total (absolute)

Narrow (63):
#st(7), 11.11%
#sk(6), 9.52%
nt#(4), 6.34%
#fl(2), nd#(2), st(2), ks#(2), #k^hɹ(2), #k^hl(2) 3.17%

Broad (63):
st(9), 14.28%
sk(8), 12.69%
nt(4), 6.34%
fl(3), ks(3), kl(3), 4.76%
pɹ(2), bɹ(2), fɹ(2), nd(2), ns(2), kɹ(2), kw(2), gɹ(2) 3.17%

63 total consonant clusters

Supra-Segments: Whole Syllables

Whole Syllable Total for Stressed and Unstressed Syllables and Monosyllables

Monosyllable Whole Syllable:

First Syllable Whole Syllable Stressed (all entries are word initial) (60):
#fiⁱ(2), #aⁱ(2), #a(2) 3.33%

First Syllable Whole Syllable Unstressed (all entries are word initial) (26):
#ɪ(2), #ə(2) 7.69%

Second Syllable Whole Syllable Stressed (25):
ma(2), maɹ(2) 8.00%

Second Syllable Whole Syllable Unstressed (61):

səm#(3), tɪk#(2), rə(2) 3.27%

Third Syllable Whole Syllable Stressed:

Third Syllable Whole Syllable Unstressed (31):
noʷ#(2) 6.45%

Fourth Syllable Whole Syllable Stressed:

Fourth Syllable Whole Syllable Unstressed:

Fifth Syllable Whole Syllable Stressed:

Fifth Syllable Whole Syllable Unstressed:

Whole Syllable Total per Syllable

First Syllable Whole Syllable (all entries are word initial) (86):
#fiⁱ(2), #u^w(2), #ɪ(2), #ə(2), #aⁱ(2), #a(2) 2.32%

Second Syllable Whole Syllable (86):
səm#(3), 3.48%
tɪk#(2), ma(2), maɪ(2) 2.32%

Third Syllable Whole Syllable (32):
noʷ#(2) 6.25%

Fourth Syllable Whole Syllable:

Fifth Syllable Whole Syllable:

Whole Syllable Stressed and Unstressed Total

Whole Syllable Stressed (86):

#fiⁱ(2), #aⁱ(2), #a(2), ma(2), maɪ(2) 2.32%

Whole Syllable Unstressed (124):

səm#(3), 2.41%
#ɪ(2), tɪk#(2), lɪn#(2), noʷ#(2), #ə(2), rə(2), jə(2) 1.61%

Whole Syllable Total (absolute)

Narrow (238):

səm#(3), 1.26%
#fiⁱ(2), #u^w(2), #ɪ(2), tɪk#(2), lɪn#(2), noʷ#(2), #ə(2), rə(2), jə(2), #aⁱ(2), #a(2), ma(2), maɪ(2) .84%

Broad (238):

u(3), ə(3), səm(3), ma(3), 1.26%
fi(2), ni(2), li(2), wi(2), dʒu(2), ju(2), ɪ(2), tɪk(2), lɪn(2), le(2), no(2), ɔ(2), fə(2), rə(2), sə(2), jə(2), kə(2), a(2), ta(2), a(2), maɪ(2), ta(2),
dan(2) .84%

238 total whole syllables

Supra-Segments: Whole Words

	Syllable			Receiving	Stress	
	None	First	Second	Third	Fourth	Fifth
Word Length Total						
Monosyllabic: 23.89%						
Bisyllabic: 47.78%	0	83.33%/ 76.27%	16.66%/ 34.61%			
Trisyllabic: 22.12%	0	48.00%/ 20.33%	52.00%/ 50.00%	0		
Tetrasyllabic: 6.19%	0	28.57%/ 3.38%	57.14%/ 15.38%	14.28%/ 100%	0	
Pentasyllabic: 0	0	0	0	0	0	0
Stressed Syllable Total:		68.60%	30.23%	1.16%	0	0

Table Key: The “Word Length Total” column figure represents the percentage of words that is of that word length. For the cells inside the “Syllable Receiving Stress” columns, the amount on top indicates what percentage of a particular word length was stressed on that syllable. The number on the bottom indicates, for all the words that received stress on a particular syllable, what percentage of these words were of a particular word length. The “Stressed Syllable Total” row indicates what percentage of words was stressed on a particular syllable. Note that monosyllables were not analyzed as receiving stress and the “None” cell in the “Stressed Syllable Total” row is inapplicable.

For all 114 whole words there are no repeated words.



Question ID: g.

Segments

Segment Total for Stressed and Unstressed Syllables and Monosyllables according to Syllable Configuration

Monosyllable Onset (30):

#s(4), ɹ(4), 13.33%

#f(3), #d(3), 10.00%

#m(2), t(2), #f(2), w(2) 6.66%

Monosyllable Nucleus (22):

a(5), 22.72%

eⁱ(2), ə(2), ε(2), ɔ(2) 9.09%

Monosyllable Coda (33):

t#(6), 18.18%

k#(5), 15.15%

s(4), 12.12%

ɹ(3), 9.09%

ʔ(2), t#(2), g#(2), ŋ(2) 6.06%

First Syllable Segment Stressed Onset (73):

ɹ(13), 17.80%

#k^h(8), 10.95%

#ɹ(7), 9.58%

#s(6), 8.21%

#d(5), 6.84%

#g(4), #w(4), #h(4), 5.47%

p(3), #f(3), 4.10%

#b(2), #t^h(2), t(2) 2.73%

First Syllable Segment Stressed Nucleus (58):

a(18), 31.03%

ɪ(10), 17.24%

ʌ(4), 6.89%

u^w(3), ε(3), æ(3), #aⁱ(3), 5.17%

iⁱ(2), o^w(2), aⁱ(2) 3.44%

First Syllable Segment Stressed Coda (28):

n(5), s(5), ɹ(5), 17.85%

m(3), ŋ(3) 10.71%

First Syllable Segment Unstressed Onset (35):

#m(5), #ɹ(5), 15.28%

#s(4), ɹ(4), 11.42%

#k(3), 8.57%

#f(2), t(2), #d(2), #g(2) 5.71%

First Syllable Segment Unstressed Nucleus (34):

ə(14), 41.17%

ɪ(3), 8.82%

iⁱ(2), u^w(2), eⁱ(2), #ə(2), a(2) 5.88%

First Syllable Segment Unstressed Coda (7):
ɹ(2) 28.57%

Second Syllable Segment Stressed Onset (33):

ɹ(5), l(5), 15.15%
b(4), n(4), 12.12%
t^h(3), d(3), 9.09%
v(2), k^h(2) 6.06%

Second Syllable Segment Stressed Nucleus (28):

a(7), 25.00%
aⁱ(6), 21.42%
u^w(3), o^w(3), 10.71%
ɪ(2), ε(2), æ(2) 7.14%

Second Syllable Segment Stressed Coda (14):

n(3), 21.42%
d[#](2) 14.28%

Second Syllable Segment Unstressed Onset (71):

t(9), ɹ(9), 12.67%
n(6), s(6), l(6), 8.45%
d(5), 7.04%
m(4), k(4), 5.63%
p(3), b(3), r(3), g(3), 4.22%
f(2), v(2), j(2) 2.81%

Second Syllable Segment Unstressed Nucleus (64):

ə(13), 20.31%
ɪ(8), 12.50%
iⁱ[#](6), 9.37%
əⁱ[#](5), a(5), 7.81%
o^w[#](3), 4.68%
əⁱ(2), ə^η(2), ə^η[#](2), ə^η[#](2), ə(2), ə[#](2), aⁱ(2) 3.12%

Second Syllable Segment Unstressed Coda (20):

d[#](3), s[#](3), 15.00%
n(2), n[#](2), t[#](2) 10.00%

Third Syllable Segment Stressed Onset:

Third Syllable Segment Stressed Nucleus:

Third Syllable Segment Stressed Coda:

Third Syllable Segment Unstressed Onset (39):

t(5), ɹ(5), k(5), 12.82%
d(4), z(4), 10.25%
s(3), 7.69%
v(2), n(2), r(2), l(2) 5.12%

Third Syllable Segment Unstressed Nucleus (38):

ə(7), 18.42%
ɪ(6), 15.78%
əⁱ[#](4), 10.52%
u^w(3), eⁱ(3), 7.89%
iⁱ[#](2), ə[#](2), ə[#](2), æ(2) 5.26%

Third Syllable Segment Unstressed Coda (18):

k[#](4), 22.22%
s[#](3), 16.66%
t[#](2), s(2), t[#](2) 11.11%

Fourth Syllable Segment Stressed Onset:

Fourth Syllable Segment Stressed Nucleus:

Fourth Syllable Segment Stressed Coda:

Fourth Syllable Segment Unstressed Onset (7):

k(2) 28.57%

Fourth Syllable Segment Unstressed Nucleus (10):

ə(2), ə#(2), ʔ#(2) 20.00%

Fourth Syllable Segment Unstressed Coda (1):

d# 100%

Fifth Syllable Segment Stressed Onset:**Fifth Syllable Segment Stressed Nucleus:****Fifth Syllable Segment Stressed Coda:**

Fifth Syllable Segment Unstressed Onset:

Fifth Syllable Segment Unstressed Nucleus:

Fifth Syllable Segment Unstressed Coda:

Segment Total for Stressed and Unstressed Onsets and Codas

Stressed Onset (111):

ɹ(19), 17.11%

#k^h(8), 7.20%

#ɹ(7), l(7), 6.30%

#s(6), 5.40%

b(5), #d(5), 4.50%

t^h(4), n(4), #g(4), #w(4), #h(4), 3.60%p(3), t(3), d(3), #f(3), k^h(3), 2.70%#b(2), v(2), #t^h(2) 1.80%**Stressed Coda (42):**

n(8), 19.04%

s(5), ɹ(5), 11.90%

m(3), ŋ(3), 7.14%

d#(2), k(2) 4.76%

Unstressed Onset (152):

ɹ(18), 11.84%

t(16), 10.52%

k(11), 7.23%

s(10), 6.57%

d(9), l(9), 5.92%

n(8), 5.26%

m(6), r(6), 3.94%

#m(5), v(5), z(5), #ɹ(5), 3.28%

p(4), #s(4), 2.63%

b(3), f(3), j(3), #k(3), g(3), 1.97%

#f(2), #d(2), dʒ(2), ʃ(2), #g(2) 1.31%

Unstressed Coda (46):

s#(6), 13.04%

d#(4), t#(4), k#(4), 8.69%

t#(3), n#(3), s(3), 6.52%

p#(2), n(2), ɹ(2), ɹ#(2), ŋ#(2) 4.34%

Segment Total for Onsets and Codas

Onset (293):

ɹ(41), 13.99%

t(21), 7.16%

l(17), 5.80%

#s(14), 4.77%

#ɹ(13), k(13), 4.43%

d(12), n(12), 4.09%
s(11), 3.75%
#d(10), #k^h(10), 3.41%
b(8), #m(8), 2.73%
p(7), v(7), 2.38%
m(6), #f(6), r(6), #g(6), 2.04%
z(5), #f(5), #h(5), 1.70%
f(4), t^h(4), j(4), #k(4), #w(4), 1.36%
#t^h(3), f(3), k^h(3), g(3), 1.02%
#p^h(2), #b(2), #v(2), dʒ(2), w(2) .68%

Coda (121):

s(12), 9.91%
n(11), 9.09%
t#(10), ɹ(10), k#(10), 8.26%
s#(7), 5.78%
d#(6), t#(6), ŋ(6), 4.95%
m(4), n#(4), t(4), 3.30%
p#(3), k(3), 2.47%
b(2), ɹ#(2), g#(2), ŋ#(2) 1.65%

Segment Total for Stressed and Unstressed Syllables and Monosyllables

Monosyllable Segment (63):

ɹ(7), 11.11%
t#(6), 9.52%
k#(5), 7.93%
#s(4), s(4), 6.34%
#f(3), #d(3), 4.76%
#m(2), t(2), #f(2), t(2), t#(2), g#(2), ŋ(2), w(2) 3.17%

(22):

a(5), 22.72%
eⁱ(2), æ(2), ε(2), ɔ(2) 9.09%

First Syllable Segment Stressed (101):

ɹ(18), 17.82%
#k^h(8), 7.92%
#ɹ(7), 6.93%
#s(6), 5.94%
#d(5), n(5), s(5), 4.95%
#g(4), #w(4), #h(4), 3.96%
p(3), m(3), #f(3), ŋ(3), 2.97%
#b(2), b(2), #t^h(2), t(2), r(2) 1.98%

(58):

a(18), 31.03%
ɹ(10), 17.24%
ʌ(4), 6.89%
u^w(3), ε(3), æ(3), #aⁱ(3), 5.17%
iⁱ(2), o^w(2), aⁱ(2) 3.44%

First Syllable Segment Unstressed (42):

ɹ(6), 14.28%
#m(5), #ɹ(5), 11.90%
#s(4), 9.52%
#k(3), 7.14%
#f(2), t(2), #d(2), #g(2) 4.76%

(34):

ə(14), 41.17%
ɪ(3), 8.82%
i^l(2), u^w(2), e^l(2), #ə(2), a(2) 5.88%

Second Syllable Segment Stressed (14):

n(7), 50.00%
ɹ(5), l(5), 35.71%
b(4), 28.57%
t^h(3), d(3), 21.42%
v(2), d#(2), k^h(2) 14.28%

(28):

a(7), 25.00%
a^l(6), 21.42%
u^w(3), o^w(3), 10.71%
ɪ(2), ε(2), æ(2) 7.14%

Second Syllable Segment Unstressed (104):

t(9), ɹ(9), 8.65%
n(8), 7.69%
s(7), 6.73%
l(6), 5.76%
d(5), ɳ#(5), 4.80%
m(4), k(4), 3.84%
p(3), b(3), d#(3), r(3), s#(3), g(3), 2.88%
əŋ#(2), f(2), v(2), n#(2), əŋ(2), əŋ#(2), t#(2), ɳ(2), j(2) 1.92%

(51):

ə(13), 25.49%
ɪ(8), 15.68%
i^l#(6), 11.76%
a(5), 9.80%
o^w#(3), 5.88%
ə(2), ə#(2), a^l(2) 3.92%

Third Syllable Segment Stressed:

Third Syllable Segment Unstressed (99):

t(5), s(5), ɹ(5), k(5), 5.05%
d(4), z(4), ɳ#(4), k#(4), 4.04%
s#(3), 3.03%
v(2), t#(2), n(2), r(2), l(2), t#(2) 2.02%

(32):

ə(7), 21.87%
ɪ(6), 18.75%
u^w(3), e^l(3), 9.37%
i^l#(2), ə#(2), ə#(2), æ(2) 6.25%

Fourth Syllable Segment Stressed:

Fourth Syllable Segment Unstressed (10):

ɳ#(2), k(2) 20.00%

(8):

ə(2), ə#(2) 25.00%

Fifth Syllable Segment Stressed:

Fifth Syllable Segment Unstressed:

Segment Total by Syllable

First Syllable Segment (143):

ɹ(24), 16.78%
 #ɹ(12), 8.39%
 #s(10), 6.99%
 #k^h(9), 6.29%
 #d(7), 4.89%
 #m(6), #g(6), 4.19%
 n(5), s(5), #h(5), 3.49%
 p(4), m(4), t(4), #k(4), ŋ(4), #w(4), 2.79%
 b(3), #f(3), #ʃ(3), 2.09%
 #p^h(2), #b(2), #t^h(2), r(2), ʈ(2), k(2) 1.39%

(92):

a(20), 21.73%
 ə(14), 15.21%
 ɪ(13), 14.13%
 u^w(5), 5.43%
 i^j(4), ʌ(4), 4.34%
 e^j(3), ε(3), æ(3), #a^j(3), a^j(3), 3.26%
 #ɪ(2), o^w(2), #ə(2), ʌ(2), a(2), #a(2) 2.17%

Second Syllable Segment (118):

n(15), 12.71%
 ɹ(14), 11.86%
 l(11), 9.32%
 t(10), 8.47%
 d(8), s(8), 6.77%
 b(7), 5.93%
 ʈ#(5), k(5), 4.23%
 m(4), v(4), s#(4), 3.38%
 p(3), f(3), t^h(3), d#(3), r(3), j(3), g(3), 2.54%
 ʌm#(2), t#(2), d#(2), n#(2), ʌŋ(2), ʌŋ#(2), ʃ(2), ʈ#(2), ʈ(2), k^h(2) 1.69%

(79):

ə(13), 16.45%
 a(12), 15.18%
 ɪ(10), 12.65%
 a^j(8), 10.12%
 i^j#(6), 7.59%
 u^w(4), o^w(4), 5.06%
 o^w#(3), ε(3), æ(3), 3.79%
 i^j(2), ʌ(2), ʌ#(2) 2.53%

Third syllable Segment (105):

ɹ(6), k(6), 5.71%
 t(5), s(5), 4.76%
 d(4), z(4), ʈ#(4), k#(4), 3.80%
 s#(3), l(3), 2.85%
 f(2), v(2), t#(2), n(2), r(2), ʈ#(2) 1.90%

(35):

ə(7), 20.00%
 ɪ(6), 17.14%
 u^w(3), e^j(3), æ(3), 8.57%
 i^j(2), i^j#(2), ə#(2), ʌ#(2), a(2) 5.71%

Fourth Syllable Segment (10):

ʈ#(2), k(2) 20.00%

(8):
ə(2), ə#(2) 25.00%

Fifth Syllable Segment:

Segment Stressed and Unstressed Total

Stressed Segment (121):

ɹ(24), 19.83%
n(12), 9.91%
#k^h(8), 6.61%
#ɹ(7), l(7), 5.78%
b(6), #s(6), s(6), 4.95%
#d(5), 4.13%
t^h(4), #g(4), #w(4), #h(4), 3.30%
p(3), m(3), v(3), t(3), d(3), #f(3), k^h(3), k(3), ŋ(3), 2.47%
#b(2), f(2), #t^h(2), d#(2), r(2) 1.65%

(89):

a(26), 29.21%
ɪ(12), 13.48%
aⁱ(8), 8.98%
u^w(6), æ(6), 6.74%
o^w(5), ε(5), 5.61%
iⁱ(4), ʌ(4), 4.49%
#aⁱ(3), 3.37%
eⁱ(2) 2.24%

Unstressed Segment (255):

ɹ(20), 7.84%
t(16), 6.27%
s(13), 5.09%
k(12), 4.70%
ʔ#(11), 4.31%
n(10), 3.92%
d(9), l(9), 3.52%
m(7), 2.74%
r(6), s#(6), 2.35%
#m(5), v(5), z(5), #ɹ(5), 1.96%
p(4), b(4), d#(4), #s(4), t#(4), k#(4), 1.56%
ʔm#(3), f(3), t#(3), n#(3), ʔŋ#(3), j(3), #k(3), g(3), 1.17%
p#(2), #f(2), #d(2), dʒ(2), ʔŋ(2), ʃ(2), ɹ#(2), ʔt(2), #g(2), ŋ#(2) .78%

(125):

ə(36), 28.80%
ɪ(17), 13.60%
iⁱ#(9), 7.20%
a(8), 6.40%
u^w(6), 4.80%
eⁱ(5), ə#(5), ʔ#(5), 4.00%
iⁱ(4), o^w#(4), aⁱ(4), 3.20%
ʔ(3), æ(3), 2.40%
#ə(2) 1.60%

Segment Total (absolute)

Narrow (439):

ɹ(51), 11.61%
n(23), s(23), 5.23%
t(21), 4.78%

l(17), 3.87%
 k(16), 3.64%
 #s(14), 3.18%
 #ɹ(13), 2.96%
 d(12), 2.73%
 ɬ(11), 2.50%
 b(10), m(10), tʰ(10), #d(10), #kʰ(10), k#(10), 2.27%
 p(8), #m(8), v(8), 1.82%
 s#(7), 1.59%
 #f(6), d#(6), r(6), z(6), t#(6), #g(6), ɲ(6), 1.36%
 f(5), n#(5), #f(5), #h(5), 1.13%
 tʰ(4), t(4), j(4), #k(4), g(4), #w(4), .91%
 p#(3), ɹm#(3), #tʰ(3), ɹɲ#(3), ʃ(3), kʰ(3), .68%
 #pʰ(2), #b(2), #v(2), dʒ(2), ɹɲ(2), r(2), ɹ#(2), ɬ(2), g#(2), ɲ#(2), w(2) .45%

(236):

a(39), 16.52%
 ə(36), 15.25%
 ɪ(30), 12.71%
 uʷ(13), 5.50%
 aʲ(12), 5.08%
 æ(10), 4.23%
 iʲ(9), iʲ#(9), eʲ(9), 3.81%
 ɛ(8), 3.38%
 oʷ(6), 2.54%
 ə#(5), ʌ#(5), ʌ(5), 2.11%
 oʷ#(4), ɔ(4), 1.69%
 #aʲ(3), 1.27%
 #ɪ(2), e#(2), #ə(2), #ɔ(2), a(2), #a(2) .84%

Broad (439):

ɹ(66), 15.03%
 s(44), k(44), 10.02%
 t(39), 8.88%
 n(34), 7.74%
 d(28), 6.37%
 t(23), 5.23%
 m(22), 5.01%
 l(18), 4.10%
 p(14), 3.18%
 b(13), g(13), 2.96%
 f(11), 2.50%
 v(10), 2.27%
 ʃ(9), 2.05%
 z(8), ɲ(8), 1.82%
 h(7), 1.59%
 r(6), w(6), 1.36%
 dʒ(4), j(4), .91%
 r(3), .68%
 θ(2) .45%

(236):

ə(43), 18.22%
 a(41), 17.37%
 ɪ(32), 13.55%
 a(20), 8.47%
 i(19), 8.05%
 u(16), 6.77%

e(12), 5.08%
o(11), ə(11), æ(11), 4.66%
ɛ(8), 3.38%
ɔ(6), 2.54%
ʌ(5) 2.11%

675 total segments

Supra-Segments: Consonant Clusters

Consonant Cluster Total for Stressed and Unstressed Syllables and Monosyllables according to Syllable Configuration

Monosyllable Consonant Cluster Onset (all entries are word initial) (9):

#st(2), #k^hɹ(2) 22.22%

Monosyllable Consonant Cluster Coda (all entries are word final) (10):

st#(2), ɹst#(2), ɲk#(2) 20.00%

First Syllable Consonant Cluster Stressed Onset (all entries are word initial) (19):

#k^hɹ(5), 26.31%

#spɹ(2), #gɹ(2) 10.52%

First Syllable Consonant Cluster Stressed Coda:

First Syllable Consonant Cluster Unstressed Onset (all entries are word initial) (5):

#st(2) 40.00%

First Syllable Consonant Cluster Unstressed Coda:

Second Syllable Consonant Cluster Stressed Onset (7):

st(2) 28.57%

Second Syllable Consonant Cluster Stressed Coda:

Second Syllable Consonant Cluster Unstressed Onset:

Second Syllable Consonant Cluster Unstressed Coda:

Third Syllable Consonant Cluster Stressed Onset:

Third Syllable Consonant Cluster Stressed Coda:

Third Syllable Consonant Cluster Unstressed Onset:

Third Syllable Consonant Cluster Unstressed Coda (2):

st#(2) 100%

Fourth Syllable Consonant Cluster Stressed Onset:

Fourth Syllable Consonant Cluster Stressed Coda:

Fourth Syllable Consonant Cluster Unstressed Onset:

Fourth Syllable Consonant Cluster Unstressed Coda:

Fifth Syllable Consonant Cluster Stressed Onset:

Fifth Syllable Consonant Cluster Stressed Coda:

Fifth Syllable Consonant Cluster Unstressed Onset:

Fifth Syllable Consonant Cluster Unstressed Coda:

Consonant Cluster Total for Stressed and Unstressed Onsets and Codas

Stressed Onset (29):

#k^hɹ(5), 17.24%

#spɹ(2), st(2), #gɹ(2) 6.89%

Stressed Coda:

Unstressed Onset (11):

#st(2), st(2) 18.18%

Unstressed Coda (4):

st#(3) 75.00%

Consonant Cluster Total for Onsets and Codas

Onset (49):

#k^hɹ(7), 14.28%

#st(5), 10.20%

st(4), 8.16%

#dɹ(3), 6.12%

bj(2), #sp(2), #spɹ(2), #gɹ(2) 4.08%

Coda (16):

st#(5), 31.25%

nd#(2), ɹst#(2), ŋk#(2) 12.50%

Consonant Cluster Total for Stressed and Unstressed Syllables and Monosyllables

Monosyllable Consonant Cluster (19):

#st(2), st#(2), ɹst#(2), #k^hɹ(2), ŋk#(2) 10.52%

First Syllable Consonant Cluster Stressed (19):

#k^hɹ(5), 26.31%

#spɹ(2), #gɹ(2) 10.52%

First Syllable Consonant Cluster Unstressed (5):

#st(2) 40.00%

Second Syllable Consonant Cluster Stressed (9):

st(2) 22.22%

Second Syllable Consonant Cluster Unstressed:

Third Syllable Consonant Cluster Stressed:

Third Syllable Consonant Cluster Unstressed (3):

st#(2) 66.66%

Fourth Syllable Consonant Cluster Stressed:

Fourth Syllable Consonant Cluster Unstressed:

Fifth Syllable Consonant Cluster Stressed:

Fifth Syllable Consonant Cluster Unstressed:

Consonant Cluster Total per Syllable

First Syllable Consonant Cluster (24):

#k^hɹ(5), 20.83%

#st(3), 12.50%

#dɹ(2), #sp(2), #spɹ(2), #gɹ(2) 8.33%

Second Syllable Consonant Cluster (16):

st(3), 18.75%

bj(2), nd#(2) 12.50%

Third Syllable Consonant Cluster (6):

st#(2) 33.33%

Fourth Syllable Consonant Cluster:

Fifth Syllable Consonant Cluster:

Consonant Cluster Stressed and Unstressed Total

Consonant Cluster Stressed (31):

#k^hɹ(5), 16.12%

#spɹ(2), st(2), #gɹ(2) 6.45%

Consonant Cluster Unstressed (15):

st#(3), 20.00%

#st(2), st(2) 13.33%

Consonant Cluster Total (absolute)

Narrow (65):

#k^hɹ(7), 10.76%

#st(5), st#(5), 7.69%

st(4), 6.15%

#dɹ(3), 4.61%

bj(2), nd#(2), #sp(2), #spɹ(2), ɹst#(2), #gɹ(2), ɲk#(2) 3.07%

Broad (65):

st(14), 21.53%

kɹ(9), 13.84%

dɹ(4), 6.15%

ɹɹ(2), bl(2), bj(2), fl(2), tɹ(2), nd(2), sp(2), spɹ(2), ɹst(2), gɹ(2), ɲk(2) 3.07%

65 total consonant clusters

Supra-Segments: Whole Syllables

Whole Syllable Total for Stressed and Unstressed Syllables and Monosyllables

Monosyllable Whole Syllable (22):

#fɹɹst#(2) 9.09%

First Syllable Whole Syllable Stressed (all entries are word initial) (58):

#ɹɑ(4), 6.89%

#aⁱ(3), 5.17%

#k^hɹɹs(2) 3.44%

First Syllable Whole Syllable Unstressed (all entries are word initial) (34):

#ɹə(3), 8.82%

#ɹeⁱ(2), #ə(2), #stə(2), #kə(2) 5.88%

Second Syllable Whole Syllable Stressed (30):

ɹɑ(2) 6.66%

Second Syllable Whole Syllable Unstressed (62):

nə(2), ɹɹ#(2), sə(2), ɹə(2) 3.22%

Third Syllable Whole Syllable Stressed:

Third Syllable Whole Syllable Unstressed (38):

kɹ#(3), 7.89%

ləs#(2) 5.26%

Fourth Syllable Whole Syllable Stressed:

Fourth Syllable Whole Syllable Unstressed:

Fifth Syllable Whole Syllable Stressed:

Fifth Syllable Whole Syllable Unstressed:

Whole Syllable Total per Syllable

First Syllable Whole Syllable (all entries are word initial) (92):

#ɹɑ(4), 4.34%

#ɹə(3), #aⁱ(3), 3.26%

#ɹ(2), #spɹ(2), #k^hɹɹs(2), #ɹeⁱ(2), #ə(2), #stə(2), #kə(2), #gɹɹ(2) 2.17%

Second Syllable Whole Syllable (92):

nɹ(2), nə(2), ɹɹ#(2), sə(2), ɹə(2), ɹɑ(2) 2.17%

Third Syllable Whole Syllable (41):

kɹ#(3), 7.31%

ləs#(2) 4.87%

Fourth Syllable Whole Syllable:

Fifth Syllable Whole Syllable:

Whole Syllable Stressed and Unstressed Total

Whole Syllable Stressed (91):

#ɪɑ(4), 4.39%

#aⁱ(3), 3.29%

#k^hɪs(2), ɪɑ(2) 2.19%

Whole Syllable Unstressed (144):

kɔ̃#(5), 3.47%

sə(3), #ɪə(3), 2.08%

ziⁱ#(2), #ɪeⁱ(2), #ə(2), mə#(2), tə(2), nə(2), rɔ̃#(2) #stə(2), ɪə(2), ləs#(2), ɔ̃#(2), #kə(2) 1.38%

Whole Syllable Total (absolute)

Narrow (257):

kɔ̃#(5), 1.94%

#ɪɑ(4), 1.55%

sə(3), #ɪə(3), #aⁱ(3), 1.16%

ziⁱ#(2), #ɪ(2), nɪ(2), #spɪ(2), #k^hɪs(2), #ɪeⁱ(2), #ə(2), mə#(2), tə(2), nə(2), rɔ̃#(2) #stə(2), ɪə(2), ləs#(2), ɔ̃#(2), #kə(2), #fɔ̃st#(2), ɪɑ(2),
#gɑɪ(2) .77%

Broad (257):

ɪɑ(6), 2.33%

ɪə(5), kɔ̃(5), 1.94%

sə(4), 1.55%

zi(3), ɪe(3), ə(3), mə(3), stə(3), a(3), 1.16%

si(2), sti(2), ɪ(2), nɪ(2), spɪ(2), kɪs(2), to(2) ɔ(2) tə(2), nə(2), rɔ̃(2) lə(2), ləs(2), ɔ̃(2), kə(2), fɔ̃st(2), kɪæk(2), mɑɪ(2), gɑɪ(2) .77%

257 total whole syllables

Supra-Segments: Whole Words

Whole Word Total per Word Length

	Syllable			Receiving	Stress	
	None	First	Second	Third	Fourth	Fifth
Word Length Total						
Monosyllabic: 19.29%						
Bisyllabic: 44.73%	0	82.35%/ 72.41%	17.64%/ 30.00%			
Trisyllabic: 27.19%	3.22%/ 100%	45.16%/ 24.13%	51.61%/ 53.33%	0		
Tetrasyllabic: 8.77%	0	20.00%/ 3.44%	50.00%/ 16.66%	30.00%/ 100%	0	
Pentasyllabic: 0	0	0	0	0	0	0
Stressed Syllable Total:		63.73%	32.96%	3.29%	0	0

Table Key: The “Word Length Total” column figure represents the percentage of words that is of that word length. For the cells inside the “Syllable Receiving Stress” columns, the amount on top indicates what percentage of a particular word length was stressed on that syllable. The number on the bottom indicates, for all the words that received stress on a particular syllable, what percentage of these words were of a particular word length. The “Stressed Syllable Total” row indicates what percentage of words was stressed on a particular syllable. Note that monosyllables were not analyzed as receiving stress and the “None” cell in the “Stressed Syllable Total” row is inapplicable.

Whole Monosyllables (22):

forst [fɔɹst](2) 9.09%

Whole Bisyllables:

Whole Trisyllables:

Whole Tetrasyllables:

Whole Pentasyllables:

APPENDIX G

COMPLETE PHONETIC INVENTORY DATA SHEETS

Phonetic Inventory Data Sheet-Narrow

Question ID: S. the wad of hair removed when cleaning a hairbrush

Vowels:

		front		central		back	
		unrounded	rounded	unrounded	rounded	unrounded	rounded
high	tense	i ^h #, i ^l , i ^l ː, #i			ɯ		u ^w , #u ^w , u ^w #
	lax	ɪ, #ɪ				ʊ	
mid	tense	e ^h #					o ^w , o ^w #
	intermediate			ə, ə#, əː, əː#			
	lax	ɛ, #ɛ				ʌ, #ʌ	ɔ, #ɔ
low	tense	æ, æ#, #æ, æ ^j					
	lax	a#, #a, a ^w #, a ^j , a				a, a#, #a	

Consonants:

	Bilabial	Labio dental	Dental	Alveolar	Post alveolar	Retroflex	Palatal	Velar	Uvular	Pharyngeal	Glottal
Plosive	#p, p#, p̥#, p̥, #p̥ ^h , p̥ ^h , #b, b, b̥#, b̥#		#t ^h , t, t#, t̥ ^h #, #d, d#, d					k, k ^h , k̥#, #k̥ ^h , #g, g̥, g, g#			
Affricate			#tʃ, tʃ#, dʒ, dʒ#								
Nasal	m		#n, n#, n̥, ɳ, ɳ#					ŋ, ŋ#			
Trill											
Tap or Flap			r								
Fricative		f, #f, f̥#, #v, v	θ	#s, s, s̥#, #z, z, z̥#	#ʃ, ʃ, ʃ̥#, ʒ						#h, h
Lateral Fricative				ɬ							
Approximant			ɹ, ɹ#, #ɹ				#j, j	#w, w			
Lateral Approximant			#l, l			ɭ, ɭ#, ɭ̥#, ɭ̥					

Phonetic Inventory Data Sheet-Broad

Question ID: S. the wad of hair removed when cleaning a hairbrush

Vowels:

		front		central		back	
		unrounded	rounded	unrounded	rounded	unrounded	rounded
high	tense	i(19)			ɯ		u(18)
	lax	ɪ(23)				ʊ	
mid	tense	e					o(8)
	intermediate			ə(30), ǣ(10)			
	lax	ɛ(11)				ʌ(17)	ɔ(5)
low	tense	æ(24)					
	lax	a(7)				a(41)	

Consonants:

	Bilabial	Labio dental	Dental	Alveolar	Post alveolar	Retroflex	Palatal	Velar	Uvular	Pharyngeal	Glottal
Plosive	p(20), b(22)			t(20), d(17)				k(39), g(27)			
Affricate				ts(2)	tʃ(6), dʒ(4)						
Nasal	m(14)			n(28)				ŋ(5)			
Trill				r							
Tap or Flap				r(2)							
Fricative		f(16), v(3)	θ(5)	s(43), z(11)	ʃ(17), ʒ						h(4)
Lateral Fricative				ɬ							
Approximant				ɹ(39)			j(5)	w(14)			
Lateral Approximant				l(25)		ɭ(20)					

Phonetic Inventory Data Sheet-Narrow

Question ID: T. the grease that accumulates on top of a hot pizza

Vowels:

		front		central		back	
		unrounded	rounded	unrounded	rounded	unrounded	rounded
high	tense	i ^h #, #i ^h , i ^j			#ʊ		#u, u ^w #, #u ^w , u ^w
	lax	ɪ, #ɪ,				ʊ	
mid	tense	e ^j , e ^j #					#o ^w , o ^w #, o ^w
	intermediate			ə, ə#, ə ^h #, ə ^h			
	lax	ɛ, ɛ ^j		ɜ#		ʌ(8)	ɔ ^j
low	tense	æ, æ ^j , #æ					
	lax	a#, a, a ^j , a ^j #, a ^w				a, a#, #a	

Consonants:

	Bilabial	Labio dental	Dental	Alveolar	Post alveolar	Retroflex	Palatal	Velar	Uvular	Pharyngeal	Glottal
Plosive	#p ^h , p ^h , #p, p, p#, #b, b#, b			t, t ^h #, #t ^h , t#, #d, d#, d				k, k#, k ^h #, k ^j , #k ^h , k ^h , g#, #g, g			
Affricate				#tʃ, tʃ#, #dʒ, dʒ				ŋ			
Nasal	m#, m, #m, ᵐm#			#n, n, n#, ᵑn#							
Trill											
Tap or Flap				r(4)							
Fricative		#f, f#, f, v	θ	#s, #s:, s#, s, #z, z, z#	ʃ, ʃ#			x#			#h, h
Lateral Fricative											
Approximant				ɹ, #ɹ, ɹ#			#j, j	w, #w			
Lateral Approximant				l, #l		ɻ ^h #, ɻ ^h , ɻ, ɻ#					

Phonetic Inventory Data Sheet-Broad

Question ID: T. the grease that accumulates on top of a hot pizza

Vowels:

		front		central		back	
		unrounded	rounded	unrounded	rounded	unrounded	rounded
high	tense	i(24)			ɯ		u(28)
	lax	ɪ(26)				ʊ	
mid	tense	e(12)					o(11)
	intermediate			ə(22), ɘ(7)			
	lax	ɛ(9)		ɜ		ʌ(8)	ɔ ⁱ
low	tense	æ(18)					
	lax	a(11)				a(27)	

Consonants:

	Bilabial	Labio dental	Dental	Alveolar	Post alveolar	Retroflex	Palatal	Velar	Uvular	Pharyngeal	Glottal
Plosive	p(17), b(11)		t(18), d(12)					k(39), g(22)			
Affricate			tʃ(4), dʒ(7)								
Nasal	m(21)		n(23)					ŋ(2)			
Trill											
Tap or Flap			r(4)								
Fricative		f(19), v	θ(2)	s(62), z(7)	ʃ(6)			x			h(4)
Lateral Fricative											
Approximant			ɹ(34)				j(5)	w(11)			
Lateral Approximant			l(42)			ɭ(23)					

Phonetic Inventory Data Sheet-Narrow

Question ID: U. an unexpected cool breeze on a sultry day

Vowels:

		front		central		back	
		unrounded	rounded	unrounded	rounded	unrounded	rounded
high	tense	i ^h #, i ^l , i					u ^w #, #u ^w , u ^w , u, u ^w ː
	lax	ɪ, #ɪ				ʊ	
mid	tense	e ^j					o, o#, #o ^w , #o, o ^w , o ^w #
	intermediate			ə#, #ə, ə, ə, əː#			
	lax	#ɛ, ɛ				ʌ	ɔ
low	tense	æ					
	lax	a, a#, a ⁱ #, #a ⁱ , a ⁱ , a ^w #				a, #a, a#	

Consonants:

	Bilabial	Labio dental	Dental	Alveolar	Post alveolar	Retroflex	Palatal	Velar	Uvular	Pharyngeal	Glottal
Plosive	p, p#, #p ^h , #p, p ^h , b, #b			t, t#, #t, #t ^h , t ^h , t ʔ#, d, d#				#k ^h , #k, k#, k, #g, g			
Affricate				#tʃ, tʃ, #dʒ							
Nasal	m#, #m, m, ʔm			n, n#, ʔn#, ʔn				ŋ#			
Trill				#r							
Tap or Flap				ɾ							
Fricative		#f ^j , f#, #f, f, v, #v, v#	θ	#s, s#, s, z, #z, z#	ʃ, ʃ#, ʒ						#h, h
Lateral Fricative											
Approximant				ɹ, ɹ#, #ɹ			j, #j	w, #w, #w ^h			
Lateral Approximant				#l, l		ɻ ^l , ɻ ^l #, ɻ ^l , ɻ ^l #					

Phonetic Inventory Data Sheet-Broad

Question ID: U. an unexpected cool breeze on a sultry day

Vowels:

		front		central		back	
		unrounded	rounded	unrounded	rounded	unrounded	rounded
high	tense	i(38)					u(28)
	lax	ɪ(34)				ʊ(3)	
mid	tense	e(6)					o(11)
	intermediate			ə(24), ɘ(8)			
	lax	ɛ(9)				ʌ(3)	ɔ(7)
low	tense	æ(14)					
	lax	a(15)				ɑ(28)	

Consonants:

	Bilabial	Labio dental	Dental	Alveolar	Post alveolar	Retroflex	Palatal	Velar	Uvular	Pharyngeal	Glottal
Plosive	p(18), b(8)		t(26), d(6)					k(23), g(6)			
Affricate			tʃ(3), dʒ								
Nasal	m(19)		n(29)					ŋ(4)			
Trill			r								
Tap or Flap			ɾ(6)								
Fricative		f(23), v(12)	θ(2)	s(36), z(12)	ʃ(17), ʒ(2)						h(6)
Lateral Fricative											
Approximant			ɹ(35)				j(5)	w(28)			
Lateral Approximant			l(34)			ɭ(13)					

Phonetic Inventory Data Sheet-Narrow

Question ID: V. the feeling experienced by a death-row inmate after being pardoned or exonerated

Vowels:

		front		central		back	
		unrounded	rounded	unrounded	rounded	unrounded	rounded
high	tense	i ^h #, i ^h #, i, i ^h , #i ^h					u ^w , #u ^w , u ^w #, u
	lax	ɪ, ɪ ^h , #ɪ				ʊ	
mid	tense	e ^h #, e ^h , e			ə		o ^w #, o ^w
	intermediate			ə#, #ə, ə, ə, ə#, #ə			
	lax	ɛ, #ɛ, ɛ ^h				ʌ	ɔ, ɔ ^h
low	tense	#æ, æ#, æ					
	lax	a, a ^h #, a ^h , #a ^h , a ^w #, a ^w				a, #a, a#, a:, a: ^h	

Consonants:

	Bilabial	Labio dental	Dental	Alveolar	Post alveolar	Retroflex	Palatal	Velar	Uvular	Pharyngeal	Glottal
Plosive	#p ^h , p ^h , #p, p, b, #b			#t, t#, #t ^h , t ^h #, t, t ^h , d, d#, d ^h #, d ^h , #d				#k ^h , k ^h , #k, k#, k, k ^h #, #g, g, g#			
Affricate					tʃ, #dʒ, dʒ						
Nasal	#m, m#, m, ʔm#			#n, n#, n, ʔn#, ʔn				ŋ			
Trill				#r							
Tap or Flap				r							
Fricative		f, f#, #f, #v, v	θ, #θ, ð	s, s#, #s, z, #z, z#	ʃ, #ʃ, ʃ#						h, #h, h#
Lateral Fricative											
Approximant				ɹ, #ɹ			j, #j	#w, w			
Lateral Approximant				#l, l		ɻ, tʃ#, ɻʃ#, ɻ					

Phonetic Inventory Data Sheet-Broad

Question ID: V. the feeling experienced by a death-row inmate after being pardoned or exonerated

Vowels:

		front		central		back	
		unrounded	rounded	unrounded	rounded	unrounded	rounded
high	tense	i(30)					u(13)
	lax	ɪ(42)				ʊ(3)	
mid	tense	e(7)			ə		o(6)
	intermediate			ə(30), æ(13)			
	lax	ɛ(17)				ʌ(5)	ɔ(5)
low	tense	æ(28)					
	lax	a(13)				ɑ(34)	

Consonants:

	Bilabial	Labio dental	Dental	Alveolar	Post alveolar	Retroflex	Palatal	Velar	Uvular	Pharyngeal	Glottal
Plosive	p(17), b(16)		t(38), d(17)					k(28), g(19)			
Affricate			tʃ(2), dʒ(5)								
Nasal	m(24)		n(54)					ŋ			
Trill			r								
Tap or Flap			ɾ(2)								
Fricative		f(24), v(4)	θ(3), ð	s(45), z(11)	ʃ(17)						h(6)
Lateral Fricative											
Approximant			ɹ(35)				j(8)	w(17)			
Lateral Approximant			l(25)			ɭ(19)					

Phonetic Inventory Data Sheet-Narrow

Question ID: W. a feeling of extreme disappointment

Vowels:

		front		central		back	
		unrounded	rounded	unrounded	rounded	unrounded	rounded
high	tense	i: ^j , i ^j , i ^h #	y				u ^w , u ^w #, #u ^w
	lax	ɪ				ʊ	
mid	tense	#e, e ⁱ #, e ⁱ	ø, ø#				o ^w #, #o ^w , o ^w
	intermediate			ə, #ə, ə#, ə, #ə, ə#			
	lax	ɛ, ɛ ^j	œ#		ɜ	#ʌ, ʌ	ɔ
low	tense	æ					
	lax	a ^w #, a ^w , a, a ⁱ #, a ⁱ				a, a#, #a	

Consonants:

	Bilabial	Labio dental	Dental	Alveolar	Post alveolar	Retroflex	Palatal	Velar	Uvular	Pharyngeal	Glottal
Plosive	#p ^h , p, #b, b			#t ^h , t ^h , t#, t, d, d ^h , d ^h ʔ#, d#, #d				k, k#, k ^h , #k, #k ^h , #g, g			
Affricate				ʧ#, ʧ, ts# dʒ#, dʒ, #dʒ, #dʒ ⁱ							
Nasal	#m, m, m#, əm#			n#, n, #n, əŋ, əŋ#				ŋ#, ŋ			
Trill				rː, r#							
Tap or Flap				ɾ							
Fricative		f, f#, #f, v	θ	#s, s#, s, z, z#, #z	ʃ, #ʃ, ʃ#			x, x#			#h, h#, h
Lateral Fricative											
Approximant				#ɹ, ɹ, ɹ#			j	#w, w			
Lateral Approximant				l, #l, l _~ #		ɭ, ɭ ⁱ , ɭ ⁱ #, ɭ#					

Phonetic Inventory Data Sheet-Broad

Question ID: W. a feeling of extreme disappointment

Vowels:

		front		central		back	
		unrounded	rounded	unrounded	rounded	unrounded	rounded
high	tense	i(17)	y				u(14)
	lax	ɪ(29)				ʊ(3)	
mid	tense	e(11)	ø(2)				o(20)
	intermediate			ə(26), æ(15)			
	lax	ɛ(8)	œ		ɐ	ʌ(7)	ɔ(6)
low	tense	æ(22)					
	lax	a(7)				ɑ(32)	

Consonants:

	Bilabial	Labio dental	Dental	Alveolar	Post alveolar	Retroflex	Palatal	Velar	Uvular	Pharyngeal	Glottal
Plosive	p(9), b(26)		t(23), d(35)					k(26), g(14)			
Affricate			ts tʃ(2), dʒ(4)								
Nasal	m(30)		n(44)					ŋ(3)			
Trill			r(2)								
Tap or Flap			ɾ(6)								
Fricative		f(21), v(2)	θ(3)	s(38), z(9)	ʃ(7)			x(3)			h(5)
Lateral Fricative											
Approximant			ɹ(37)				j	w(7)			
Lateral Approximant			l(21)			ɭ(12)					

Phonetic Inventory Data Sheet-Narrow

Question ID: X. the feeling of being woken in the middle of the night by a strange noise

Vowels:

		front		central		back	
		unrounded	rounded	unrounded	rounded	unrounded	rounded
high	tense	i, i#, i ^h #, #i ^h , i ^h		i#			u ^w , u ^w #
	lax	ɪ, #ɪ					
mid	tense	e ⁱ #, e ⁱ					o ^w #, o ^w
	intermediate			ə, ə#, #ə, ə, ə#			
	lax	#ɛ, ɛ, ɛ ⁱ	œ			ʌ, #ʌ	ɔ
low	tense	æ, #æ					
	lax	#a, a ⁱ , #a ⁱ , a ^w				a, #a, a#	

Consonants:

	Bilabial	Labio dental	Dental	Alveolar	Post alveolar	Retroflex	Palatal	Velar	Uvular	Pharyngeal	Glottal
Plosive	p, p ^h , #p ^h , p#, b, #b			t, #t ^h , t ^h , t#, d#, #d, d ^h #, d				k, #k, k#, k ^h #, k ^h , #k ^h , g, #g, g#			
Affricate				dz	tʃ#, tʃ, dʒ#, dʒ, #dʒ						
Nasal	m, m#, #m, m ^h #			n, #n, n#, n ^h #, n ^h				ŋ#, ŋ			
Trill											
Tap or Flap				r							
Fricative		#f, f#, f, f ^h #, v, #v, v#	θ	s, s#, #s, s ^h #, z, #z	ʃ, #ʃ, ʃ#				χ#		#h, h
Lateral Fricative											
Approximant				#ɹ, ɹ, ɹ#, ɹ:			j, #j	#w			
Lateral Approximant				#l, l		tʃ#, t ^h , t ^h #, t ^h					

Phonetic Inventory Data Sheet-Broad

Question ID: X. the feeling of being woken in the middle of the night by a strange noise

Vowels:

		front		central		back	
		unrounded	rounded	unrounded	rounded	unrounded	rounded
high	tense	i(20)		ɨ			u(14)
	lax	ɪ(35)					
mid	tense	e(9)					o(7)
	intermediate			ə(29), ə̃(12)			
	lax	ɛ(16)	œ			ʌ(8)	ɔ(2)
low	tense	æ(26)					
	lax	a(11)				a(30)	

Consonants:

	Bilabial	Labio dental	Dental	Alveolar	Post alveolar	Retroflex	Palatal	Velar	Uvular	Pharyngeal	Glottal
Plosive	p(14), b(12)			t(35), d(26)				k(45), g(14)			
Affricate				ɬ(3), ɮ(4)							
Nasal	m(14)			n(37)				ŋ(4)			
Trill											
Tap or Flap				r(5)							
Fricative		f(18), v(5)	θ(2)	s(36), z(6)	ʃ(12)				χ		h(7)
Lateral Fricative											
Approximant				ɹ(60)			j(7)	w(6)			
Lateral Approximant				l(20)		ɭ(16)					

Phonetic Inventory Data Sheet-Narrow

Question ID: Y. the name of the remotest island on earth

Vowels:

		front		central		back	
		unrounded	rounded	unrounded	rounded	unrounded	rounded
high	tense	i ^j , i ^j #, #i ^j , #i, i					u ^w , #u ^w , u ^w #, u
	lax	ɪ, #ɪ				ʊ	
mid	tense	e, e ^j #, e ^j					o, o#, o ^w , o ^w #
	intermediate			ə, ə#, #ə, ə, ə-#			
	lax	ɛ, #ɛ, ɛ ^j				#ʌ, ʌ#, ʌ	ɔ
low	tense	æ, æ ^j , æ#					
	lax	a, a#, #a ^w , a ^j , a ^j #, #a ^j , a ^w				a, a#, #a	

Consonants:

	Bilabial	Labio dental	Dental	Alveolar	Post alveolar	Retroflex	Palatal	Velar	Uvular	Pharyngeal	Glottal
Plosive	p ^h , #p ^h , p, b, #b, b#			t, t ^h , #t ^h , t#, t ^h #, d#, #d, d			k, k ^h , #k ^h , #k, k#, g, #g				
Affricate				dʒ							
Nasal	#m, m, ᵐm#, ᵐm			n, #n, n#, ᵐn#, ᵐn			ŋ#, ɲ				
Trill				r							
Tap or Flap				ɾ							
Fricative		f, f#, #f, v	θ, #θ, θ#, #ð	s, s#, #s, #s:, z, z#, #z	ʃ, ʃ#, #ʃ, ʒ						h, #h
Lateral Fricative											
Approximant				ɹ, ɹ#, #ɹ			j, #j	w, #w			
Lateral Approximant				l, #l, l ^j		ɭ, ɭ#, ɭ ^j , ɭ ^j #					

Phonetic Inventory Data Sheet-Broad

Question ID: Y. the name of the remotest island on earth

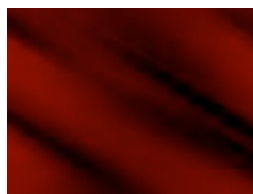
Vowels:

		front		central		back	
		unrounded	rounded	unrounded	rounded	unrounded	rounded
high	tense	i(32)					u(19)
	lax	ɪ(28)				ʊ(2)	
mid	tense	e(12)					o(25)
	intermediate			ə(43), ǝ(7)			
	lax	ɛ(15)				ʌ(3)	ɔ(4)
low	tense	æ(17)					
	lax	a(13)					ɑ(49)

Consonants:

	Bilabial	Labio dental	Dental	Alveolar	Post alveolar	Retroflex	Palatal	Velar	Uvular	Pharyngeal	Glottal
Plosive	p(15), b(19)		t(25), d(24)					k(29), g(7)			
Affricate			dʒ								
Nasal	m(16)		n(54)					ŋ(4)			
Trill			r								
Tap or Flap			ɾ(3)								
Fricative		f(14), v(3)	θ(4), ð	s(37), z(15)	ʃ(8), ʒ(2)						h(5)
Lateral Fricative											
Approximant			ɹ(37)				j(5)	w(16)			
Lateral Approximant			l(37)			ɭ(16)					

Phonetic Inventory Data Sheet-Narrow



Question ID: Z.

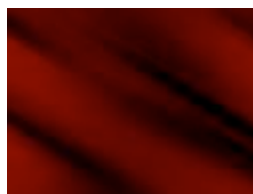
Vowels:

		front		central		back	
		unrounded	rounded	unrounded	rounded	unrounded	rounded
high	tense	i ^h #, #i ^h , i ^h , i					u ^w #, u ^w
	lax	ɪ, #ɪ				ʊ	
mid	tense	e ^h #, e ^h			ə		o ^w #, o ^w
	intermediate			ə, #ə, ə#, ə#, ə#			
	lax	ɛ#, ɛ				#ʌ, ʌ	ɔ ^j , ɔ
low	tense	æ, #æ					
	lax	a ^w #, a ^j , a ^w				a, #a, a#, ā, #a ^ə	

Consonants:

	Bilabial	Labio dental	Dental	Alveolar	Post alveolar	Retroflex	Palatal	Velar	Uvular	Pharyngeal	Glottal
Plosive	#p, p, #p ^h , b, b ^h , #b,			t, #t ^h , t#, t ^h , t ^h #, d ^h #, d#, d, #d				k, k ^h , #k ^h , k#, g#, g, #g			
Affricate				ts#	tʃ#, #dʒ						
Nasal	#m, m, m̥#, m#			n, n#, n̥#, #n				ŋ			
Trill				r,							
Tap or Flap				ɾ							
Fricative		f, f#, #f, #v, v	θ	s, #s, s#, z#, #z, z	#ʃ, ʃ: #, ʃ, ʃ#, ʒ, ʒ#						#h, h#
Lateral Fricative											
Approximant				ɹ, #ɹ, ɹ#			j	w, #w			
Lateral Approximant				l, #l		ɭ, ɭ#, ɭ#, ɭ#					

Phonetic Inventory Data Sheet-Broad



Question ID: Z.

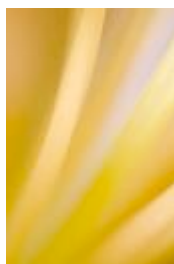
Vowels:

		front		central		back	
		unrounded	rounded	unrounded	rounded	unrounded	rounded
high	tense	i(24)					u(10)
	lax	ɪ(26)					ʊ
mid	tense	e(14)			ə		o(18)
	intermediate			ə(34), ɐ(6)			
	lax	ɛ(14)				ʌ(3)	ɔ(3)
low	tense	æ(17)					
	lax	a(6)				ɑ(33)	

Consonants:

	Bilabial	Labio dental	Dental	Alveolar	Post alveolar	Retroflex	Palatal	Velar	Uvular	Pharyngeal	Glottal
Plosive	p(6), b(13)			t(27), d(29)				k(19), g(6)			
Affricate				ts	tʃ, dʒ(2)						
Nasal	m(17)			n(54)				ŋ			
Trill				r							
Tap or Flap				r(3)							
Fricative		f(19), v(5)	θ(2)	s(40), z(18)	ʃ(18), ʒ(5)						h(3)
Lateral Fricative											
Approximant				ɹ(52)			j(5)	w(13)			
Lateral Approximant				l(28)		ɭ(11)					

Phonetic Inventory Data Sheet-Narrow



Question ID: a.

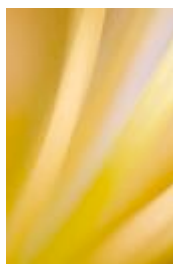
Vowels:

		front		central		back	
		unrounded	rounded	unrounded	rounded	unrounded	rounded
high	tense	i ^j , i ^j #, i					u, u ^w , u ^w #
	lax	ɪ					
mid	tense	e ^j , e ^j #, e#					o, o ^w , o ^w #
	intermediate			ə, #ə, ə#, ə, ə#			
	lax	ɛ				ʌ	ɔ
low	tense	æ, æ ^j					
	lax	a, #a ^j , a#, a ^j , a ^w				a ^h #, a ^w , #a, a#, a	

Consonants:

	Bilabial	Labio dental	Dental	Alveolar	Post alveolar	Retroflex	Palatal	Velar	Uvular	Pharyngeal	Glottal
Plosive	p, p#, #p ^h , #p, b, #b, b#			#t ^h , t, #t, t#, t ^h #, t ^h , d#, d, #d, d ^h #				#k, k, #k ^h , k#, #g, g			ʔ
Affricate				ts#	tʃ#, tʃ, #dʒ						
Nasal	#m, m#, m, ʔm#			n, n#, ʔn#, ʔn				ŋ, ŋ#			
Trill				r							
Tap or Flap				ɾ							
Fricative		f, f#, #f, #v, v, v#	θ	s, #s, s#, #z, z, z#	#ʃ, ʃ, ʃ#						#h
Lateral Fricative											
Approximant				#ɹ, ɹ, ɹ#			j, #j	#w, w			
Lateral Approximant				l, l#, #l		ɭ, ɭ#, ɭ, ɭ#					

Phonetic Inventory Data Sheet-Broad



Question ID: a.

Vowels:

		front		central		back	
		unrounded	rounded	unrounded	rounded	unrounded	rounded
high	tense	i(25)					u(14)
	lax	ɪ(28)					
mid	tense	e(14)					o(7)
	intermediate			ə(29), ɜ(9)			
	lax	ɛ(13)				ʌ(2)	ɔ(3)
low	tense	æ(12)					
	lax	a(18)				ɑ(45)	

Consonants:

	Bilabial	Labio dental	Dental	Alveolar	Post alveolar	Retroflex	Palatal	Velar	Uvular	Pharyngeal	Glottal
Plosive	p(14), b(20)			t(33), d(13)				k(17), g(9)			ʔ
Affricate				ts	tʃ(2), dʒ						
Nasal	m(14)			n(47)				ŋ(2)			
Trill				r							
Tap or Flap				r(4)							
Fricative		f(19), v(8)	θ(2)	s(40), z(6),	ʃ(9)						h(2)
Lateral Fricative											
Approximant				ɹ(40)			j(13)	w(11)			
Lateral Approximant				l(38)		ɭ(20)					

Phonetic Inventory Data Sheet-Narrow



Question ID: b.

Vowels:

		front		central		back	
		unrounded	rounded	unrounded	rounded	unrounded	rounded
high	tense	#i ^j , i ^j #, i ^j #, i ^j		ɨ			#u ^w , #uɪ ^w , u ^w , u ^w #, u ^w
	lax	#ɪ, ɪ					
mid	tense	e ^j , e ^j #,	ø				#o ^w , o ^w #, o ^w
	intermediate			#ə, ə, ə#, ə ^h #, ə ^h			
	lax	ɛ, #ɛ, ɛ#, ɛɪ, ɛ ^j				#ʌ, ʌ	ɔ
low	tense	æ, æ ^j					
	lax	a, aɪ, a ^w , a ^j , a ^j #,				#a, a#, a	

Consonants:

	Bilabial	Labio dental	Dental	Alveolar	Post alveolar	Retroflex	Palatal	Velar	Uvular	Pharyngeal	Glottal
Plosive	p, #p, p#, #p ^h , p ^h , #b, b, b#			t, #t ^h , t ^h , t#, #d, d, d#, d ^h #				#k ^h , k ^h , k, k#, g, #g, g#			
Affricate				ʧ#							
Nasal	#m, m, m#, m ^h #			#n, n#, n, n ^h #, n ^h				ŋ#			
Trill				r							
Tap or Flap				ɾ							
Fricative		#f, f, f#, #v, v#, v	θ#, ð	s, #s, s#, #z, z#, z	#ʃ, ʃ, ʃ#			#x			#h
Lateral Fricative											
Approximant				ɹ, ɹ#			#j, j	#w, w			
Lateral Approximant				#l, l		ɭ, ɭ#, ɭ ^h #, ɭ ^h					

Phonetic Inventory Data Sheet-Broad



Question ID: b.

Vowels:

		front		central		back	
		unrounded	rounded	unrounded	rounded	unrounded	rounded
high	tense	i(28)		ɨ			u(20)
	lax	ɪ(23)					
mid	tense	e(10)	ø				o(12)
	intermediate			ə(28), ǣ(13)			
	lax	ɛ(19)				ʌ(2)	ɔ(3)
low	tense	æ(13)					
	lax	a(11)					ɑ(34)

Consonants:

	Bilabial	Labio dental	Dental	Alveolar	Post alveolar	Retroflex	Palatal	Velar	Uvular	Pharyngeal	Glottal
Plosive	p(14), b(28)		t(16), d(14)					k(25), g(4)			
Affricate			tʃ								
Nasal	m(20)		n(36)					ŋ			
Trill			r								
Tap or Flap			ɾ(5)								
Fricative		f(12), v(8)	θ, ð	s(31), z(8)	ʃ(14)			x			h(6)
Lateral Fricative											
Approximant			ɹ(40)				j(5)	w(22)			
Lateral Approximant			l(30)			ɭ(22)					

Phonetic Inventory Data Sheet-Narrow



Question ID: c.

Vowels:

		front		central		back	
		unrounded	rounded	unrounded	rounded	unrounded	rounded
high	tense	i ^h #, i ^h , i			ʉ ^w		u, u ^w , u ^w #
	lax	#ɪ, ɪ					
mid	tense	e ^h #, e ^h					o, #o ^w , o ^w #, o ^w
	intermediate			#ə, ə, ə#, #ə, ə, ə#			
	lax	#ɛ, ɛ, ɛ ^h				ʌ	#ɔ, ɔ
low	tense	#æ, æ, æ#					
	lax	a, a ^h , a ^w , a#				#a, a, a ^h , ā	

Consonants:

	Bilabial	Labio dental	Dental	Alveolar	Post alveolar	Retroflex	Palatal	Velar	Uvular	Pharyngeal	Glottal
Plosive	#p, p, #p ^h , #b, b			t, #t ^h , t ^h , t#, t ^h #, #d, d, d ʔ#, d#				#k ^h , k ^h , #k, k, k#, k ^h #, #g, g, g̃, g#			
Affricate				#tʃ, tʃ, ts# #dʒ, dʒ, dʒ#							
Nasal	#m, m, ᵐm#			#n, n#, n, ᵐn, ᵐn#				ŋ#, ŋ			
Trill											
Tap or Flap				r							
Fricative		#f, f, #v, v, v#	θ	#s, s, s#, #z, z, z#	#ʃ, ʃ, ʃ#, #ʒ, ʒ			x#			h
Lateral Fricative											
Approximant				#ɹ, ɹ, ɹ#			#j, j	#w, w			
Lateral Approximant				#l, l		ɭ, ɭ#, ɭ#, ɭ					

Phonetic Inventory Data Sheet-Broad



Question ID: c.

Vowels:

		front		central		back	
		unrounded	rounded	unrounded	rounded	unrounded	rounded
high	tense	i(33)			ɯ		u(13)
	lax	ɪ(28)					
mid	tense	e(8)					o(13)
	intermediate			ə(39), ɘ(10)			
	lax	ɛ(19)				ʌ(3)	ɔ(3)
low	tense	æ(23)					
	lax	a(13)				a(44)	

Consonants:

	Bilabial	Labio dental	Dental	Alveolar	Post alveolar	Retroflex	Palatal	Velar	Uvular	Pharyngeal	Glottal
Plosive	p(17), b(21)		t(37), d(24)					k(36), g(16)			
Affricate			tʃ(2), dʒ(9)								
Nasal	m(30)		n(45)					ŋ(2)			
Trill											
Tap or Flap			r(7)								
Fricative		f(18), v(4)	θ(3)	s(27), z(13)	ʃ(13), ʒ(2)			x			h
Lateral Fricative											
Approximant			ɹ(61)				j(6)	w(5)			
Lateral Approximant			l(25)			ɭ(11)					

Phonetic Inventory Data Sheet-Narrow



Question ID: d.

Vowels:

		front		central		back	
		unrounded	rounded	unrounded	rounded	unrounded	rounded
high	tense	i ^h #, i ^j , i, i: #			ɯ ^w		#u, u, u ^w , u ^w #
	lax	ɪ				ʊ	
mid	tense	e, e ^j , e ^j #					o ^w , o ^w #
	intermediate			#ə, ə, ə#, #ə, ə, ə#			
	lax	#ɛ, ɛ					ɔ, ɔ ^j
low	tense	#æ, æ, æ ^j					
	lax	a a#, a ^w #, a, a ^j				#a, a, a#	

Consonants:

	Bilabial	Labio dental	Dental	Alveolar	Post alveolar	Retroflex	Palatal	Velar	Uvular	Pharyngeal	Glottal
Plosive	#p, p, p#, #p ^h , p ^h , #b, b			#t, #t ^h , t ^h , t, t#, t ^h #, #d, d#, d ^h , #d, d				#k ^h , #k, k ^h , k, k#, #g, g#, g			
Affricate					#tʃ, #dʒ, dʒ, dʒ#						
Nasal	#m, m, m#, #m ^h #			#n, n, n#, #n, #n ^h #				ŋ, ŋ#			
Trill				#r							
Tap or Flap				ɾ							
Fricative		#f, f, #v, v	θ, ð	#s, s, s#, #z, z#, z	#ʃ, ʃ, ʃ#, ʒ						#h
Lateral Fricative											
Approximant				#ɹ, ɹ, ɹ#			#j, j	#w, w			
Lateral Approximant				#l, l		ɭ, ɭ#, ɭ ^h , ɭ ^h #					

Phonetic Inventory Data Sheet-Broad



Question ID: d.

Vowels:

		front		central		back	
		unrounded	rounded	unrounded	rounded	unrounded	rounded
high	tense	i(26)			ɯ		u(9)
	lax	ɪ(37)				ʊ(2)	
mid	tense	e(13)					o(8)
	intermediate			ə(31), ɘ(18)			
	lax	ɛ(14)					ɔ(4)
low	tense	æ(12)					
	lax	a(13)				ɑ(35)	

Consonants:

	Bilabial	Labio dental	Dental	Alveolar	Post alveolar	Retroflex	Palatal	Velar	Uvular	Pharyngeal	Glottal
Plosive	p(18), b(9)			t(22), d(13)				k(32), g(13)			
Affricate				tʃ, dʒ(3)							
Nasal	m(22)			n(40)				ŋ(6)			
Trill				r(2)							
Tap or Flap				r(3)							
Fricative		f(4), v(10)	θ, ð(2)	s(58), z(11)	ʃ(14), ʒ						h(2)
Lateral Fricative											
Approximant				ɹ(42)			j(5)	w(25)			
Lateral Approximant				l(33)		ɭ(24)					

Phonetic Inventory Data Sheet-Narrow



Question ID: e.

Vowels:

		front		central		back	
		unrounded	rounded	unrounded	rounded	unrounded	rounded
high	tense	i, i ^j , i ⁱ #					#u ^w , u ^w , u ^w #
	lax	ɪ				ʊ	
mid	tense	e ^j , e ⁱ #					o, o#, o ^w , o ^w #
	intermediate			#ə, ə, ə#, #æ, æ, æ#			
	lax	ɛ, ɛ ^j				ʌ	ɔ, ɔ ^j
low	tense	æ					
	lax	a ⁱ , a ⁱ #, a, a ^w				#a, a, aɪ, a#	

Consonants:

	Bilabial	Labio dental	Dental	Alveolar	Post alveolar	Retroflex	Palatal	Velar	Uvular	Pharyngeal	Glottal
Plosive	#p, #p ^h , p, p ^h , p#, #b, b			#t, #t ^h , t ^h , t, t ^ʔ #, t#, t ^ʔ #, #d, d, d#, d ^ʔ #			#k, #k ^h , k, k ^h , k ^ʔ , k ^ʔ #, k#, #g, g, g#				
Affricate				ts	#tʃ, #dʒ, dʒ, dʒ#						
Nasal	#m, m, m#, #m#			#n, n, n#, #ŋ, #ŋ#				ŋ, ŋ#			
Trill				r							
Tap or Flap				r							
Fricative		#f, f, f#, #v	θ#, ð	#s, s, s#, #z, z, z#	#ʃ, ʃ, ʃ#			ɣ			#h
Lateral Fricative											
Approximant				#ɹ, ɹ, ɹ#			j	#w, w			
Lateral Approximant				#l, l, l#		ɭ, ɭ ^ʔ , ɭ ^ʔ #					

Phonetic Inventory Data Sheet-Broad



Question ID: e.

Vowels:

		front		central		back	
		unrounded	rounded	unrounded	rounded	unrounded	rounded
high	tense	i(18)					u(10)
	lax	ɪ(35)				ʊ	
mid	tense	e(10)					o(20)
	intermediate			ə(33), ǣ(15)			
	lax	ɛ(12)				ʌ(4)	ɔ(7)
low	tense	æ(12)					
	lax	a(13)				ɑ(48)	

Consonants:

	Bilabial	Labio dental	Dental	Alveolar	Post alveolar	Retroflex	Palatal	Velar	Uvular	Pharyngeal	Glottal
Plosive	p(23), b(16)		t(43), d(25)					k(58), g(13)			
Affricate			tʃ(2) ʤ(5)								
Nasal	m(24)		n(43)					ŋ(6)			
Trill			r(2)								
Tap or Flap			ɾ(9)								
Fricative		f(14), v(3)	θ, ð	s(27), z(10)	ʃ(3), ʒ			χ			h
Lateral Fricative											
Approximant			ɹ(56)				j(5)	w(13)			
Lateral Approximant			l(27)			ɭ(12)					

Phonetic Inventory Data Sheet-Narrow



Question ID: f.

Vowels:

		front		central		back	
		unrounded	rounded	unrounded	rounded	unrounded	rounded
high	tense	#i ^j , i ^j , i ^j #			ɯ		#u ^w , u ^w , u, u ^w #, #u ^w #
	lax	#ɪ, ɪ				ʊ	
mid	tense	#e ^j , e ^j , e ^j #					o, o#, o ^w , o ^w #
	intermediate			#ə, ə, ə#, ə, ə#			
	lax	#ɛ, ɛ, ɛ ^j				#ʌ, ʌ	ɔ, ɔ ^j
low	tense	#æ, æ					
	lax	#a ^j , a, a ^j , a ^w , a ^j #, a#				#a, a, a#, a: ^h #	

Consonants:

	Bilabial	Labio dental	Dental	Alveolar	Post alveolar	Retroflex	Palatal	Velar	Uvular	Pharyngeal	Glottal
Plosive	#p, #p ^h , p ^h , p, p#, #b, b			#t, #t ^h , t ^h , t, t#, #d, d, d#, d ^h #				#k, #k ^h , k ^h , k, k#, #g, g, g#			
Affricate				#tʃ, tʃ, #dʒ, dʒ							
Nasal	#m, m, ᵐm#			#n, n, n#, ᵑn, ᵑn#				ŋ, ŋ#			
Trill				r							
Tap or Flap				ɾ							
Fricative		#f, f, f#, f: #, v, v#	θ	#s, s, s#, #z, z, z#	#ʃ, ʃ, ʃ#, ʒ			#x			#h, h
Lateral Fricative											
Approximant				#ɹ, ɹ, ɹ#			#j, j	#w, w			
Lateral Approximant				#l, l		ɭ, ɭ#, ɭ ^h #					

Phonetic Inventory Data Sheet-Broad



Question ID: f.

Vowels:

		front		central		back	
		unrounded	rounded	unrounded	rounded	unrounded	rounded
high	tense	i(18)			ʉ(2)		u(21)
	lax	ɪ(21)				ʊ(2)	
mid	tense	e(11)					o(18)
	intermediate			ə(28), ɐ(10)			
	lax	ɛ(10)				ʌ(3)	ɔ(5)
low	tense	æ(19)					
	lax	a(10)				ɑ(40)	

Consonants:

	Bilabial	Labio dental	Dental	Alveolar	Post alveolar	Retroflex	Palatal	Velar	Uvular	Pharyngeal	Glottal
Plosive	p(15), b(8)		t(34), d(14)					k(47), g(10)			
Affricate			tʃ(2), dʒ(5)								
Nasal	m(17)		n(49)					ŋ(2)			
Trill			r								
Tap or Flap			ɾ(3)								
Fricative		f(19), v(6)	θ(2)	s(49), z(11)	ʃ(8), ʒ			x			h(4)
Lateral Fricative											
Approximant			ɹ(35)				j(8)	w(8)			
Lateral Approximant			l(24)			ɭ(9)					

Phonetic Inventory Data Sheet-Narrow



Question ID: g.

Vowels:

		front		central		back	
		unrounded	rounded	unrounded	rounded	unrounded	rounded
high	tense	i ^j , i ^j #, i#					#u ^w , u, u ^w , u ^w #
	lax	#ɪ, ɪ				ʊ	
mid	tense	e ^j , e ^j #, e#					o, o ^w , o ^w #
	intermediate			#ə, ə, ə#, ə, ə#			
	lax	ɛ				ʌ	#ɔ, ɔ
low	tense	#æ, æ					
	lax	#a ^j , a, a ^j , a ^j #, a ^w #, a#				#a, a	

Consonants:

	Bilabial	Labio dental	Dental	Alveolar	Post alveolar	Retroflex	Palatal	Velar	Uvular	Pharyngeal	Glottal
Plosive	#p ^h , p ^h , p, p#, #b, b, b#			#t ^h , t ^h , t, t#, t ^h #, #d, d, d#				#k, #k ^h , k ^h , k, k#, #g, g, g ^h #, g#			
Affricate				#tʃ, #dʒ, dʒ, dʒ#							
Nasal	#m, m, m#, ʔm#			#n, n, n#, ʔn, ʔn#				ŋ, ŋ#			
Trill				r, #r							
Tap or Flap				ɾ							
Fricative		#f, f, #v, v	θ, θ#	#s, s, s#, #z, z, z#	#ʃ, ʃ, ʃ#						#h, h, h#
Lateral Fricative											
Approximant				#ɹ, ɹ, ɹ#			j	#w, w			
Lateral Approximant				l, l#		ɭ, ɭ#, ɭ, ɭ#					

Phonetic Inventory Data Sheet-Broad



Question ID: g.

Vowels:

		front		central		back	
		unrounded	rounded	unrounded	rounded	unrounded	rounded
high	tense	i(19)					u(16)
	lax	ɪ(32)				ʊ	
mid	tense	e(12)					o(11)
	intermediate			ə(43), ɜ(11)			
	lax	ɛ(8)				ʌ(5)	ɔ(6)
low	tense	æ(11)					
	lax	a(20)				ɑ(41)	

Consonants:

	Bilabial	Labio dental	Dental	Alveolar	Post alveolar	Retroflex	Palatal	Velar	Uvular	Pharyngeal	Glottal
Plosive	p(14), b(13)			t(39), d(28)				k(44), g(13)			
Affricate				tʃ, dʒ(4)							
Nasal	m(22)			n(34)				ŋ(8)			
Trill				r(3)							
Tap or Flap				r(6)							
Fricative		f(11), v(10)	θ(2)	s(44), z(8)	ʃ(9)						h(7)
Lateral Fricative											
Approximant				ɹ(66)			j(4)	w(6)			
Lateral Approximant				l(18)		ɭ(23)					

Office for Research

Institutional Review Board for the
Protection of Human Subjects



February 11, 2009

Jeremy Freeman
Department of Modern Languages & Classics
College of Arts & Sciences
The University of Alabama

Re: IRB # 09-OR-040 "Experimental Methods in Phonosemantics"

Dear Mr. Freeman:

The University of Alabama Institutional Review Board has granted approval for your proposed research.

Your protocol has been given expedited approval according to 45 CFR part 46. Approval has been given under expedited review category 7 as outlined below:

(7) Research on individual or group characteristics or behavior (including, but not limited to, research on perception, cognition, motivation, identity, language, communication, cultural beliefs or practices, and social behavior) or research employing survey, interview, oral history, focus group, program evaluation, human factors evaluation, or quality assurance methodologies.

Should you need to submit any further correspondence regarding this proposal, please include the assigned IRB application number.

Good luck with your research.

Sincerely,

Carpantato T. Myles, MSM, CIM
Director & Research Compliance Officer
Office for Research Compliance
The University of Alabama



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