Phonetics II

More on the International Phonetic Alphabet

Ling 301 (Spring 2021)

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Which of the following is true?

- a. Any system of communication, including music and symbols, is a language.
- b. A dialect is a broken, inferior version of a language.
- c. Linguistic research is guided by descriptivism, rather than prescriptivism.
- d. Sign languages aren't real languages.

Considering the reading by G. Tucker Childs that we went over in our first class session, what best characterizes the view of linguists on dialects vs. languages?

- a. All languages are mutually-intelligible to some degree.
- b. There is no consistent, scientific way of distinguishing between a dialect and a language.
- c. Dialects are high-prestige versions of a language.
- d. A dialect becomes a language when it has at least 100,000 native speakers.

In your own words, why is the International Phonetic Alphabet useful for linguistic research?

Give an example of a word that begins with [dʒ] that is NOT listed on page 46 of Language Files.

• I won't accept judge, George, Jell-O, region, residual — those are the words on p.46.

Give an example of a word that ends with the voiced alveolar fricative. (Remember, this is about pronunciation, not spelling!)

- The voiced alveolar fricative is [z]
- Any word ending with [z] is acceptable, e.g. buzz, eggs, houses.

Review > Last week

- The IPA recognizes two types of sounds: consonants and vowels.
- Last week, we went over the IPA for consonants.
- What three factors do we refer to when identifying a consonant?

Voicing, place, and manner – in that order.

Review > Practice

Give the **voicing**, **place**, and **manner**, in that order.

- How would you describe [j]?
- What's a word that starts with it?
- How would you describe [ð]?
- What's a word that starts with it?
- How would you describe [n]?
- What's a word that starts with it?
- How would you describe [ʃ]?
- What's a word that starts with it?
- How would you describe [dʒ]?
- What's a word that starts with it?

	Place of Articulation																	
			Bilabial		Labio- dental		Inter- dental		Alveolar		Post- Alveolar		Palatal		Velar		Glottal	
Manner of Articulation	Stop	p	b					t	d					k	g	3		
	Fricative			f	v	θ	ð	s	z	ſ	3					h		
	Affricate									f	dз							
	Flap								ſ									
	Nasal		m						n						ŋ			
	Lateral Liquid								1									
	Retroflex Liquid								ı									
	Glide	w	w										j					

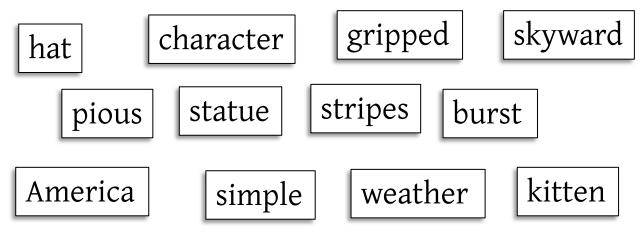
State of the Glottis | Vo

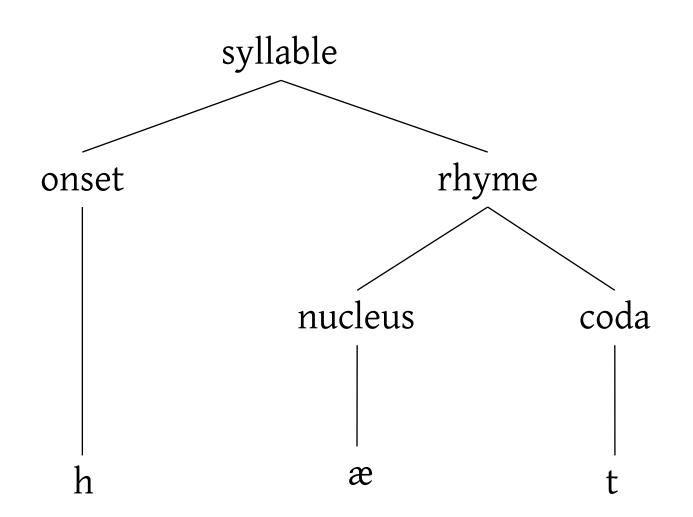
Voiceless Voiced

- What makes a vowel different from a consonant?
- What does a vowel do?

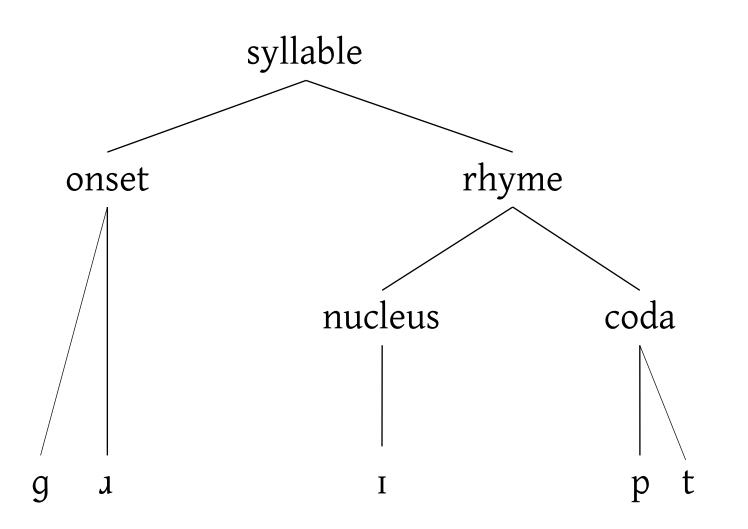
Answering this requires a more extensive knowledge of the syllable.

- What is a syllable?
- How many syllables are in the following words?





hat

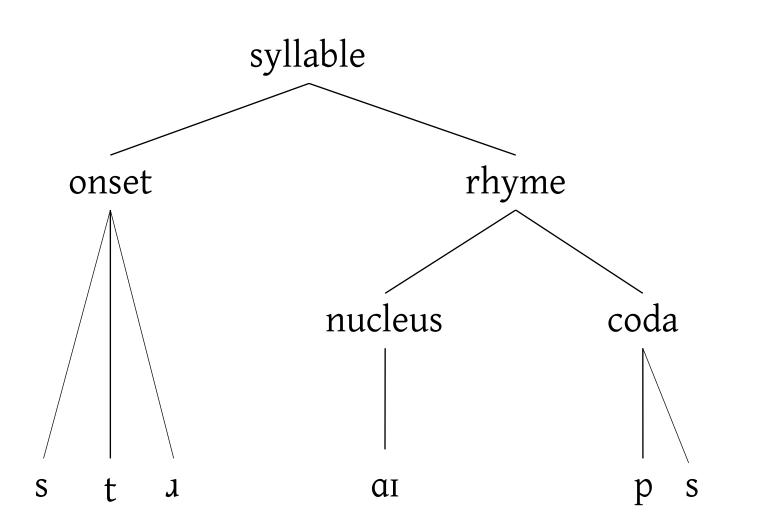


hat

gripped

Note

Remember! The symbol is [g], not [g]. [g] is not an IPA symbol!



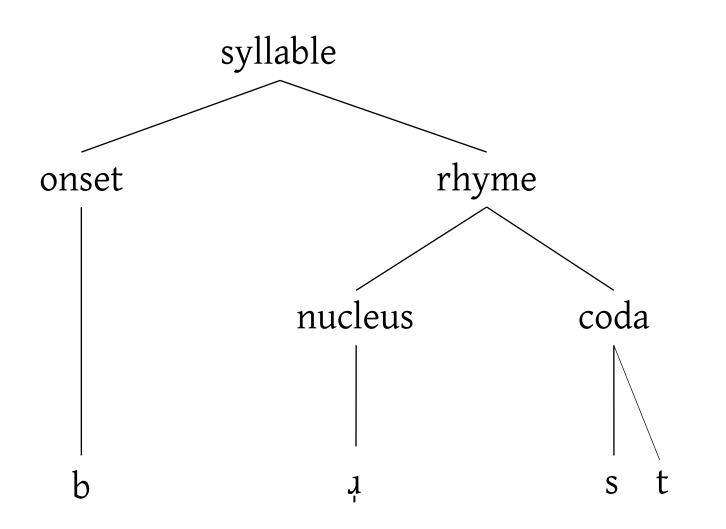
hat

gripped

stripes

Note

[aɪ] is a diphthong, functions as only one vowel sound.



hat

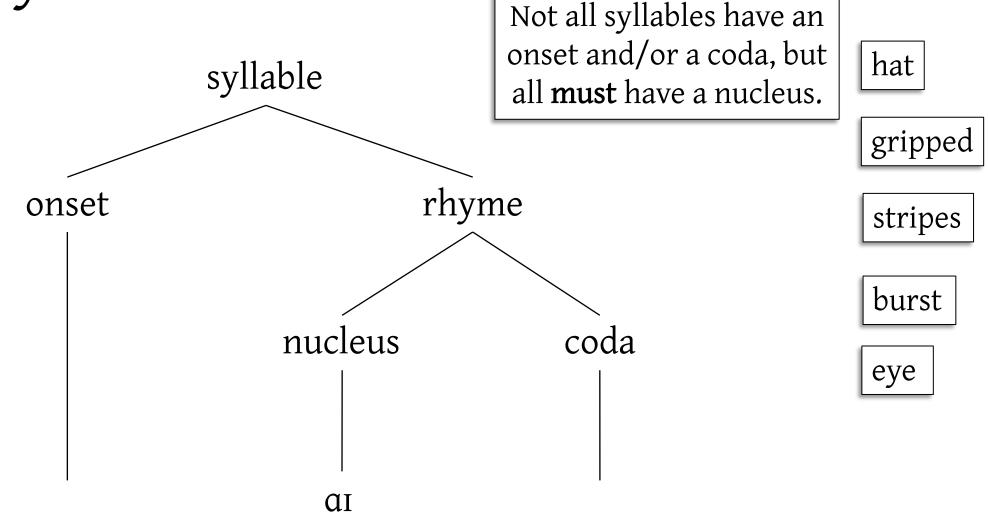
gripped

stripes

burst

Note

[
| is a syllabic consonant, functions as a vowel.



Note

- Vowels and syllabic consonants serve as the nucleus of a syllable.
- Vowels **cannot** appear in the onset or coda of a syllable only consonants can.
- The presence of a vowel entails the presence of a syllable. We'll return to this idea soon.



We're talking about pronunciation, **not** spelling. *Globe* is spelled with two vowels, <o> and <e>, but actually has one vowel, the diphthong [ov].

Forget about spelling altogether – in phonetics, we're only concerned with **pronunciation**.

• Now that we know what vowels are, we can learn more about the vowels of English.

From the reading...

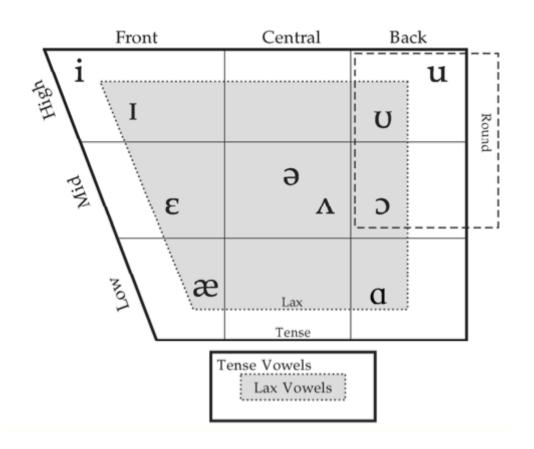
- How many vowels does English have? 15
- What are monophthongs? simple vowels
- What's an example? [i]
- What are diphthongs? complex vowels
- What's an example? [ai]

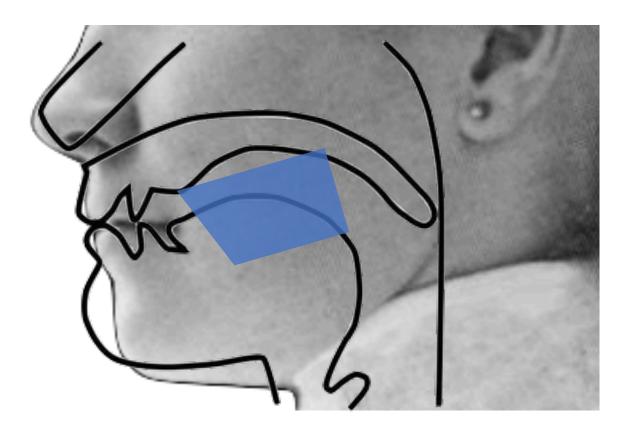
[i] [a1] [i] [a1] [ov]



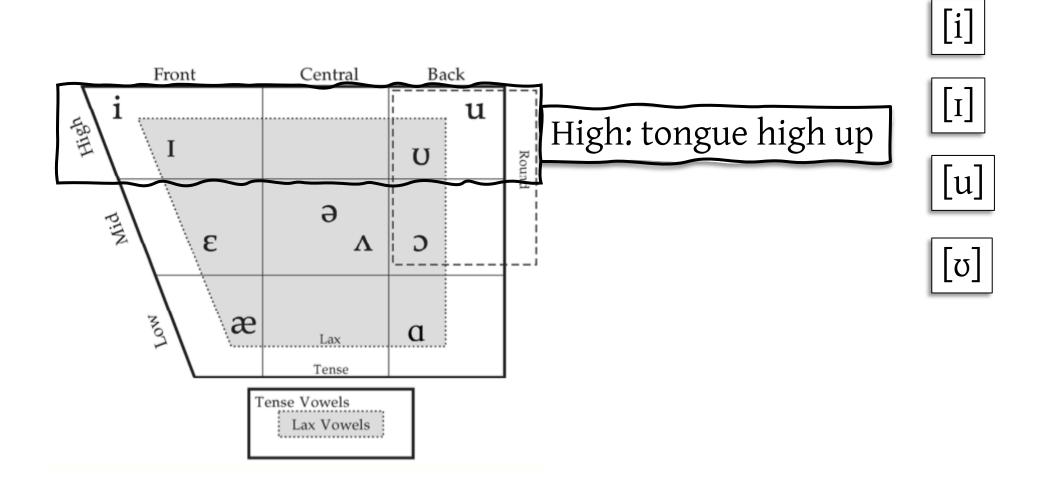
- Vowels are very clear, always syllabic, and always voiced (unless you're whispering). We describe them differently than we describe consonants.
- Key elements for vowels are: height, advancement, rounding, and tenseness.

Monophthongs





Monophthongs > Height



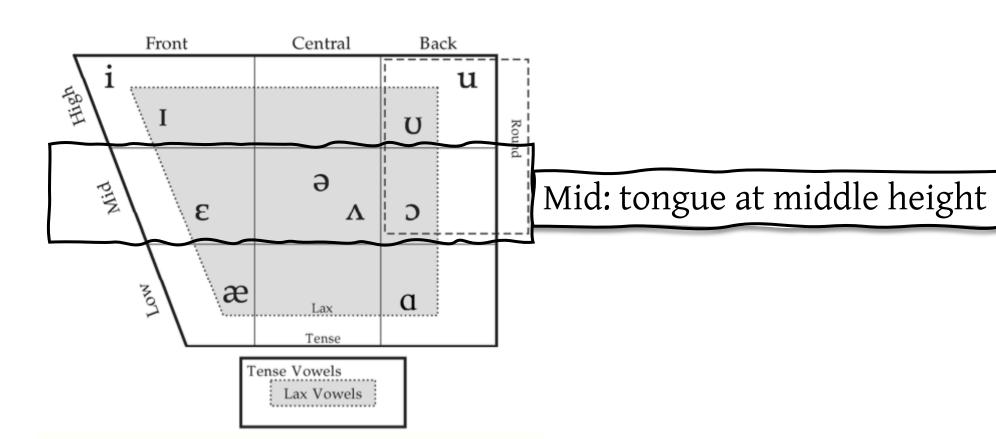
Monophthongs > Height







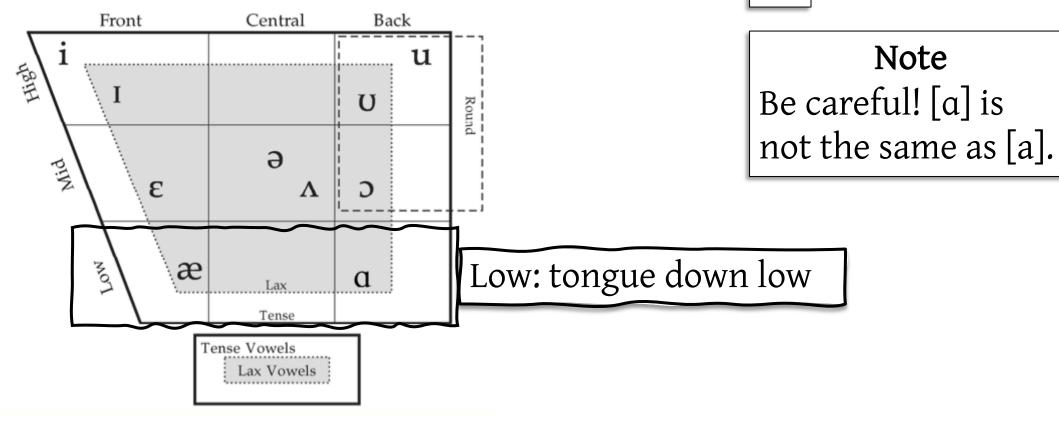
[ə]



Monophthongs > Height

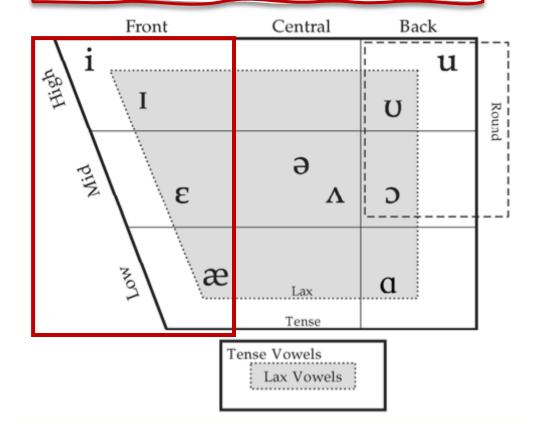
 $\lfloor \mathbf{æ} \rfloor$

Note



Monophthongs > Advancement

Front: tongue towards front





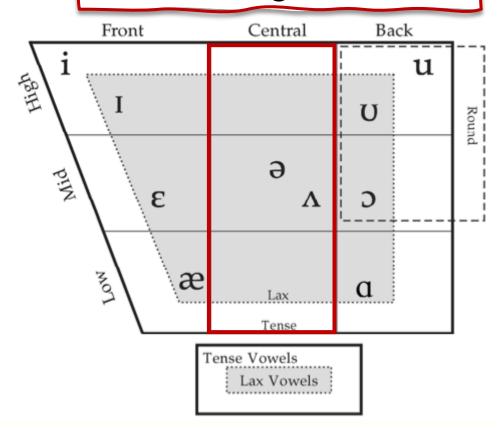






Monophthongs > Advancement

Central: tongue at center



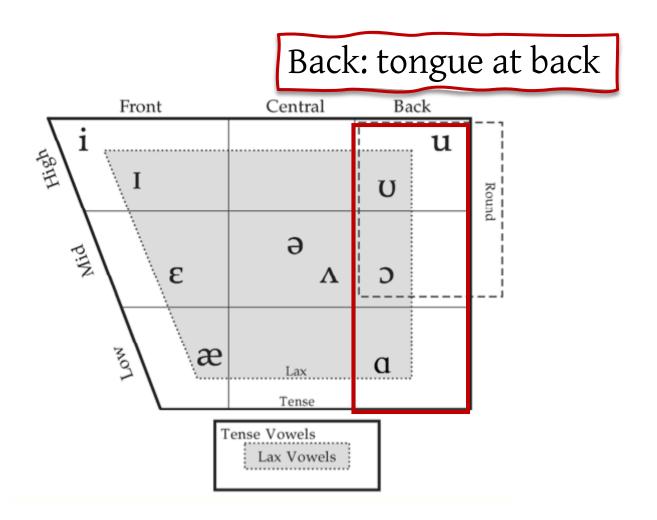


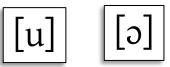


[A] vs. [a]

- Sound very similar.
- [ə] is called *schwa*. It's how many vowels are realized in destressed position, e.g. *universe* [ju.nə.v.,s].
- [\Lambda] is a vowel in its own right, and can be stressed, e.g. hut [h\Lambdat].

Monophthongs > Advancement



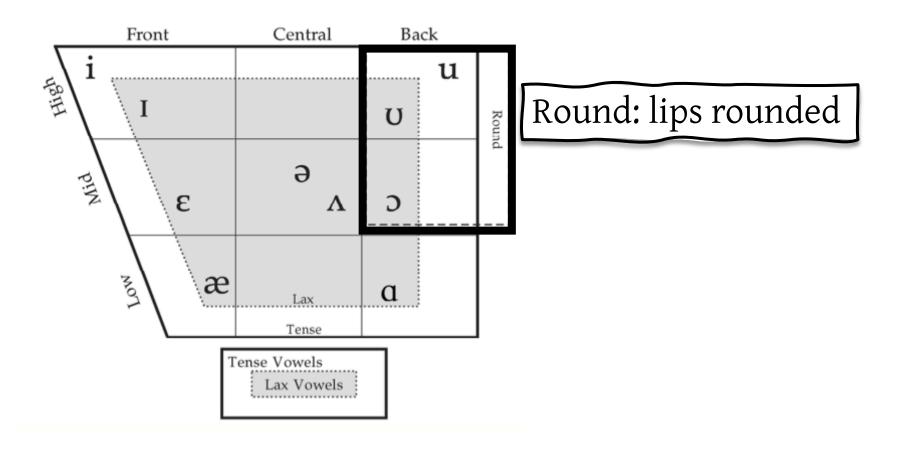




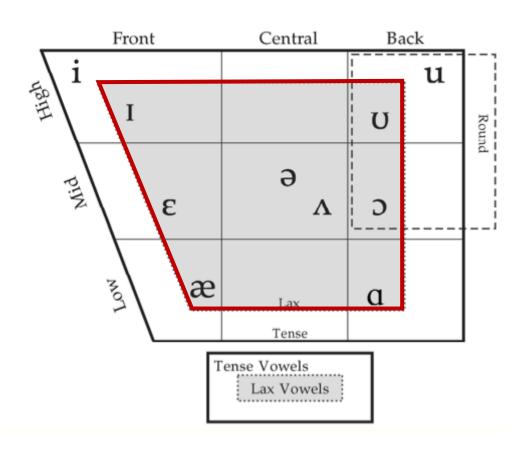
Test it out

- Say [i] into [u].
- Say $[\varepsilon]$ into $[\Lambda]$.
- Say [æ] into [a].

Monophthongs > Rounding



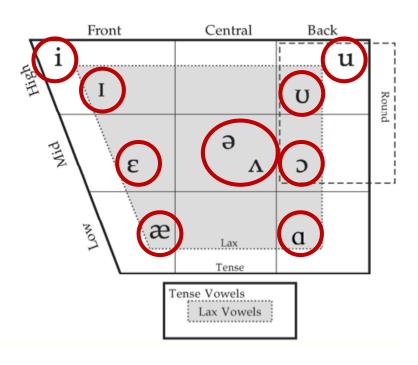
Monophthongs > Tenseness



Tense: More extremely articulated.

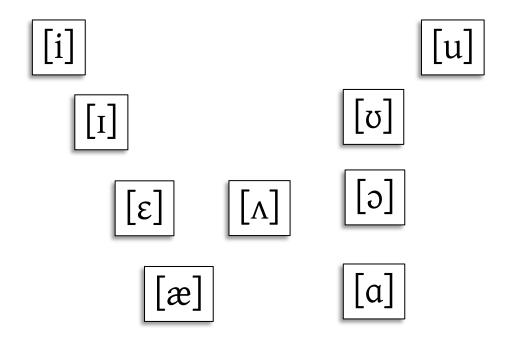
Lax: Less extremely articulated.

Use tenseness to distinguish [i] from [I] and [u] from [v].



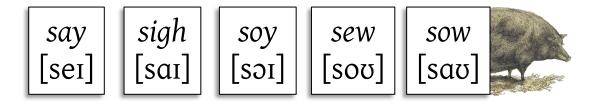
- What's the high front lax unrounded vowel?
- What's the mid back lax rounded vowel?
- What's the low front lax unrounded vowel?
- What's the mid front lax unrounded vowel?
- What's the high front tense unrounded vowel?
- What's the high back tense rounded vowel?
- What's the high back lax rounded vowel?
- What's the low back lax unrounded vowel?
- What're the mid central lax unrounded vowels?

Give me a one syllable word with the following vowel...

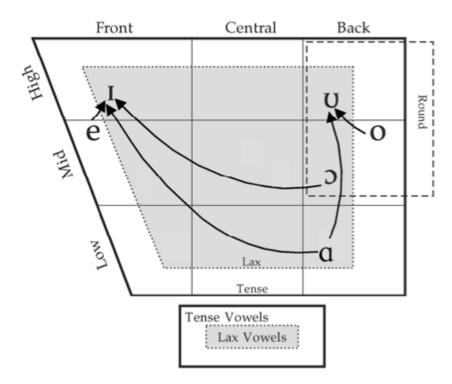


Diphthongs

- These are *complex vowels*. You begin by articulating one sound and your tongue moves to another.
- The arrows indicate real movement try it!



- Even though your tongue moves, diphthongs are still single vowels.
- This is proven by the fact that a single diphthong doesn't create two syllables.

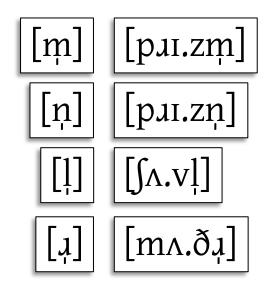


Give me a word with the following vowel...

[eɪ] [aɪ] [oʊ] [aʊ]

Syllabic consonants

- These are consonants that can serve as the nucleus of a syllable.
- Only four consonants in English can do this. What are they?

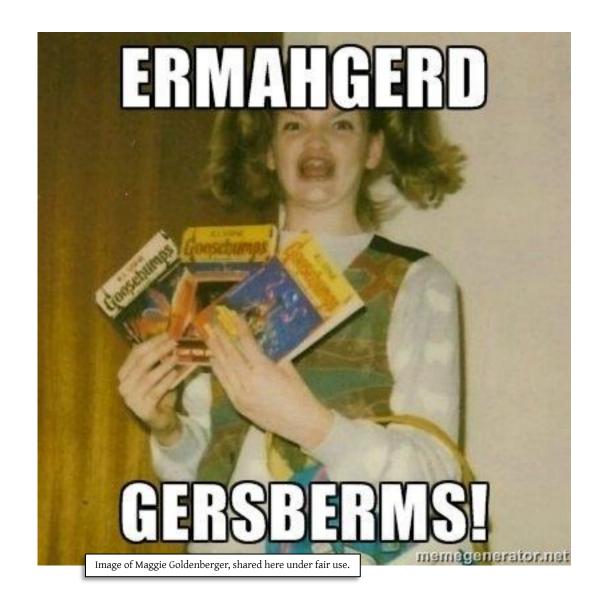


Note

In the IPA, we separate syllables with a dot.

Syllabic consonants

• [4] features prominently in the 2012 "gersberms" meme.



Syllabic consonants

- Syllabic [r] and [l] are found in some Slavic languages.
- Serbo-Croatian tongue-twister:

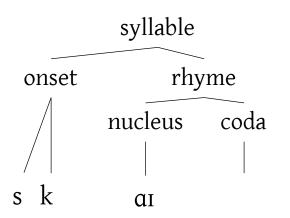
 na vrh brda vrba mrda

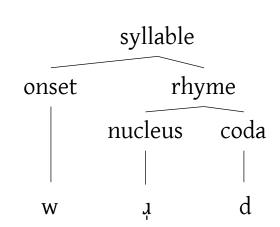
 'on the top of the hill the willow is swaying'
- Czech & Slovak tongue-twister: strč prst skrz krk

 'stick a finger through the throat'
- This may seem weird, but English does the same thing with [μ]. We just happen to write a vowel next to the $\langle r \rangle$.

burn urns, stir cursors [ban anz staka.saz]

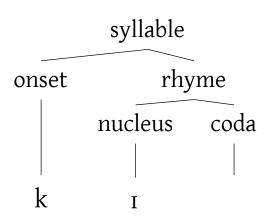
skyward

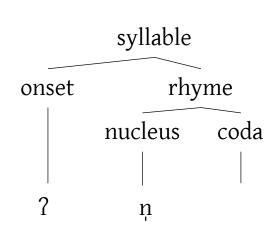




- How many syllables are there? 2
- What's the nucleus for the first syllable? [aɪ]
- What's the nucleus for the second? [4]
- What's the onset for the first? [sk]
- What's the onset for the second? [w]
- What's the coda for the first? there is none
- What's the coda for the second? [d]

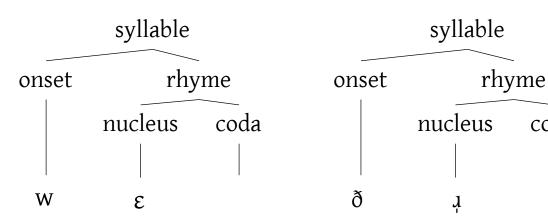
kitten





- How many syllables are there? 2
- What's the nucleus for the first syllable? [1]
- What's the nucleus for the second? [n]
- What's the onset for the first? [k]
- What's the onset for the second? [?]
- What's the coda for the first? there is none
- What's the coda for the second? there is none

weather



coda

- How many syllables are there? 2
- What's the nucleus for the first syllable? $[\epsilon]$
- What's the nucleus for the second? [4]
- What's the onset for the first? [w]
- What's the onset for the second? [ð]
- What's the coda for the first? there is none
- What's the coda for the second? there is none

For next week...

- Read sections 3.2.2 through 3.2.4 (pp.115–121) in Language Files. This is up now on our Readings page.
- Make note of anything that you are still unclear on by the end of the reading, and bring it up next class.