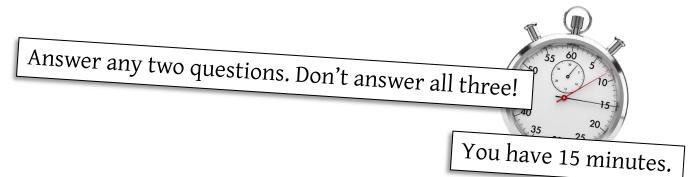
## Week 5: The International Phonetic Alphabet

**LING 201** 

Spring 2024

Prof. Joseph Pentangelo



- 1. What are two ways that the International Phonetic Alphabet differs from the English alphabet?
- 2. What's one thing that makes vowels different from consonants, as discussed in the reading?
- 3. If I were to specify the **place**, **manner**, and **voicing** of a sound, would I be describing:
  - a. a consonant
  - b. a vowel

Quiz #4

- c. either a consonant or a vowel
- d. neither a consonant nor a vowel

### What we'll cover

- 1. What is the IPA?
- 2. Phonemes and graphemes
- 3. How to use the IPA
- 4. Syllables

### 1. What is the IPA?

- The International Phonetic Alphabet (IPA) is how linguists represent speech sounds.
- 1:1 ratio between sound and symbol (pretty much).
- Useful for all spoken languages.
- Devised and arranged on an articulatory basis. (This'll become clearer soon.)
- Learning and using the IPA improves phonemic awareness and allows us to engage with other materials in linguistics.

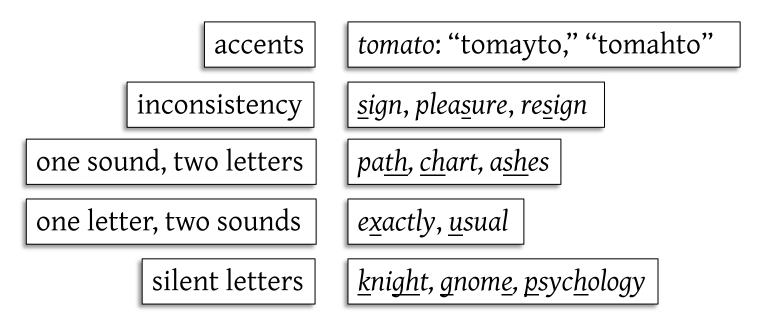
[noʊt]
not

There are other notation systems that you may come across.

IPA is preferred by most linguists.

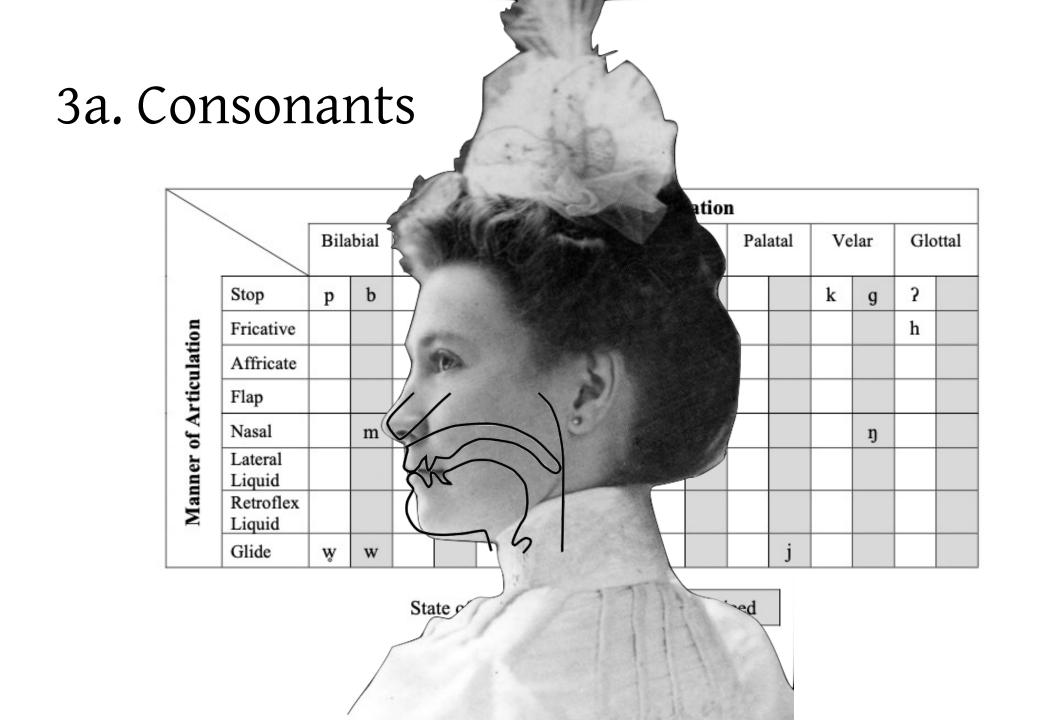
## 2. Phonemes and graphemes

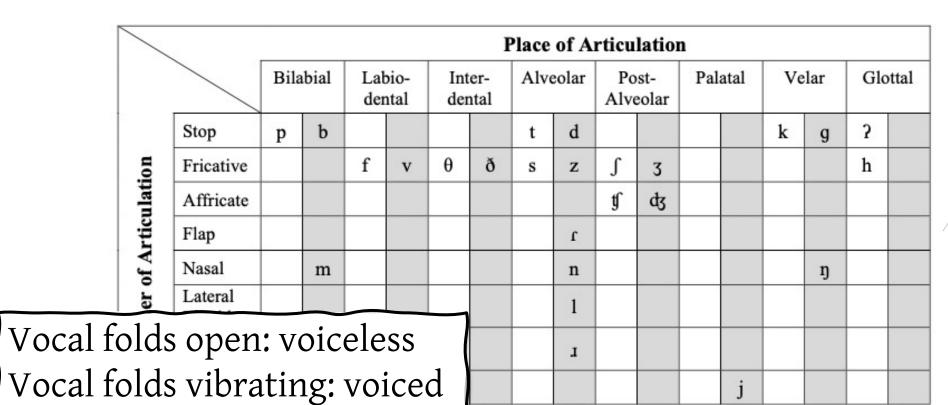
- In alphabets, there's a general correspondence between letters ("graphemes") and speech sounds ("phonemes").
- This is complicated by a number of factors, among them:

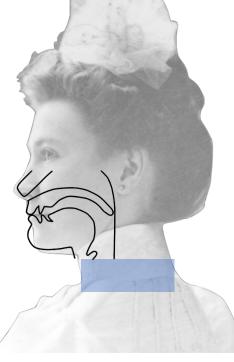


### 3. How to use the IPA

- The IPA charts for vowels and consonants are arranged on an articulatory basis, as maps of a left-facing mouth.
- What's the difference between consonants and vowels?
- Key elements for consonants: **voicing**, **place**, and **manner**.
- Key elements for vowels: height, backness, rounding, and tenseness.

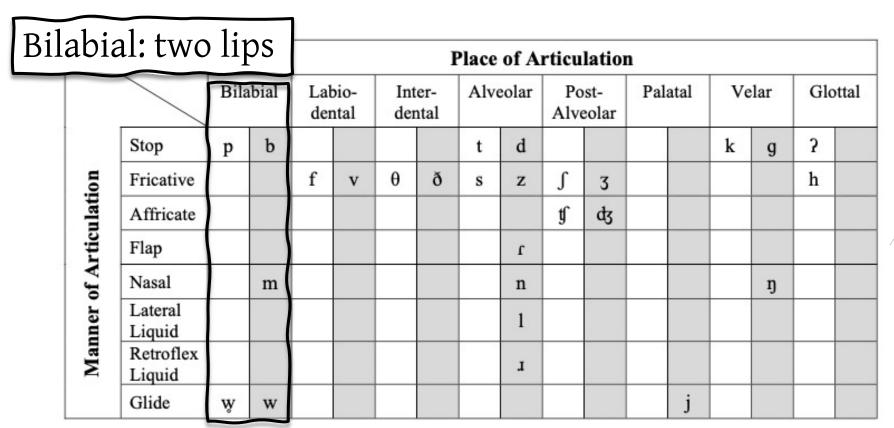


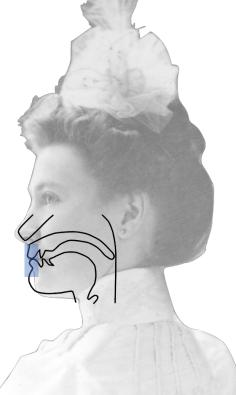




State of the Glottis

Voiceless





State of the Glottis

Voiceless

Labiodental: lips + teeth

r of Articulation			Bilabial p b				abio- Inter- ental dental		Alveolar		Post- Alveolar		Palatal		Velar		Glottal	
		Stop							t	d					k	g	3	
	lon	Fricative			f	v	θ	ð	s	z	ſ	3					h	
	ulati	Affricate									<b>f</b>	ďз						
	rtic	Flap								ſ								
	F Jo	Nasal		m						n						ŋ		
Manner 0		Lateral Liquid								1								
	Маг	Retroflex Liquid								1								
		Glide	w	w										j				

State of the Glottis

Voiceless

Liquid Glide

w

W

Interdental: between teeth lace of Articulation Bilabial Labio-Alveolar Post-Palatal Velar Glottal Interdental dental Alveolar Stop d k p b g Fricative Manner of Articulation Z Affricate dz Flap Nasal m n ŋ Lateral Liquid Retroflex

State of the Glottis

Voiceless

Alveolar: at that ridge of flesh

behind your upper teeth

ber	iind yo	our	ur	ope	er t	eet	ch			ticu	latio	n					
		Bilabial		Labio- dental		Inter- dental		Alveolar		Post- Alveolar		Palatal		Velar		Glottal	
	Stop	p	b					t	d					k	g	3	
ion	Fricative			f	v	θ	ð	s	z	ſ	3				- 5	h	
ulat	Affricate									f	ф						
rtic	Flap								ſ								
of A	Nasal		m						n						ŋ		
Manner of Articulation	Lateral Liquid								1								
Маг	Retroflex Liquid								1								
	Glide	w	w										j				

State of the Glottis

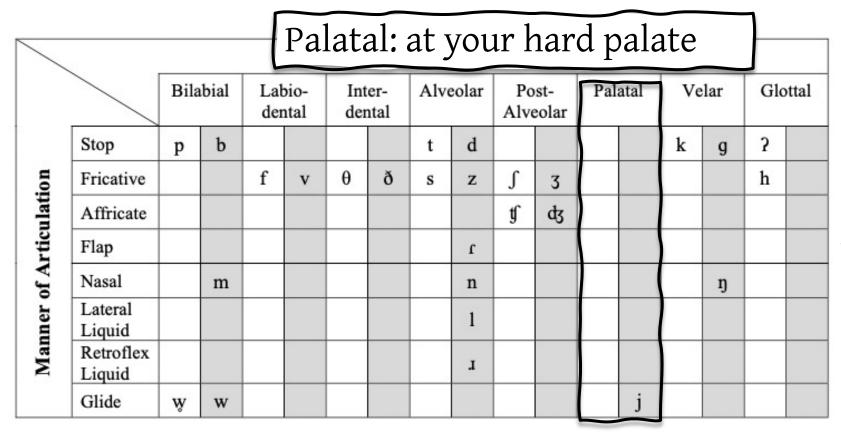
Voiceless

Postalveolar: behind your alveolar ridge

				y	uı	ai v		ıaı	1								
		Bilabial			bio- ntal	202 129 129 129 13		Alveolar		Post- Alveolar		Palatal		Velar		Glottal	
	Stop	p	b					t	d					k	g	3	
.u.o.	Fricative			f	v	θ	ð	s	z	ſ	3					h	
ulati	Affricate									<b>f</b>	dз						
rtic	Flap								ſ								
of A	Nasal		m						n						ŋ		
Manner of Articulation	Lateral Liquid								1								
Маг	Retroflex Liquid								ı								
	Glide	w	w										j				

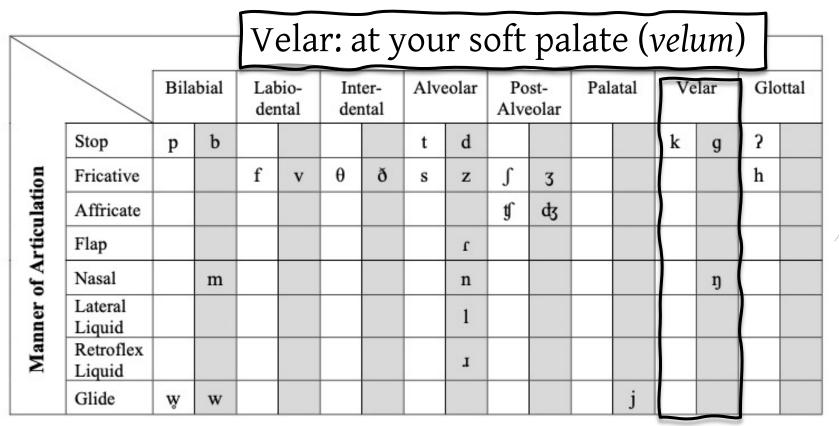
State of the Glottis

Voiceless



State of the Glottis

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State of the Glottis

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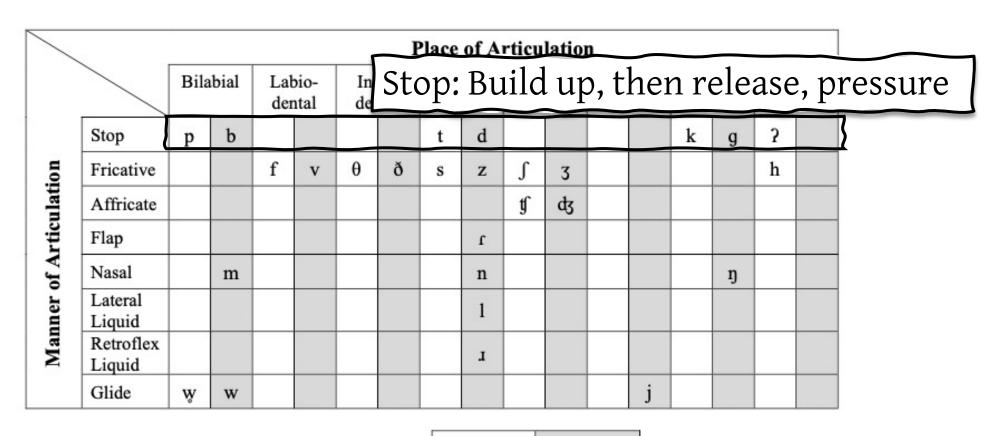
Glottal: at your glottis/vocal folds

							1	Place	of A	rtic	<u> </u>						
		Bilabial		Bilabial Labio- dental		Inter- dental		Alveolar		Post- Alveolar		Palatal		Velar		Glottal	
	Stop	p	b				ē	t	d			8		k	g	3	
ion	Fricative			f	v	θ	ð	s	z	ſ	3					h	
of Articulation	Affricate									f	ф						
rtic	Flap								ſ								
of A	Nasal		m						n						ŋ		
Manner	Lateral Liquid								1								
Mar	Retroflex Liquid								1								
	Glide	w	w							,			j				

State of the Glottis

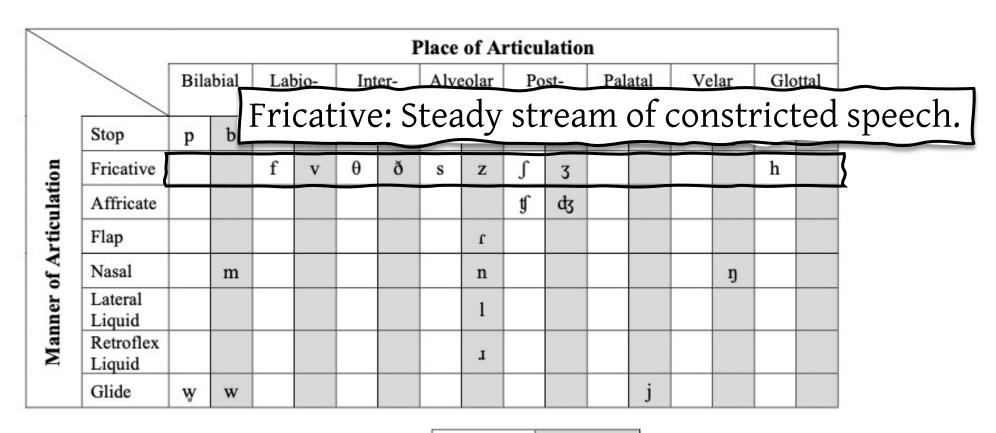
Voiceless





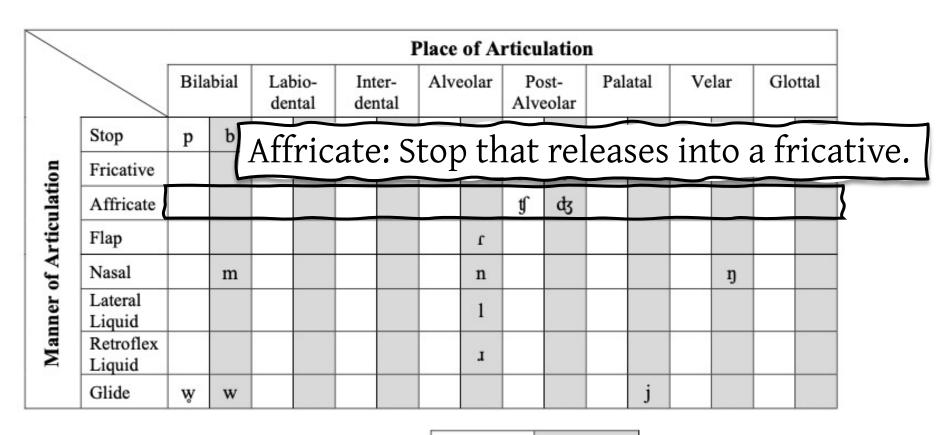
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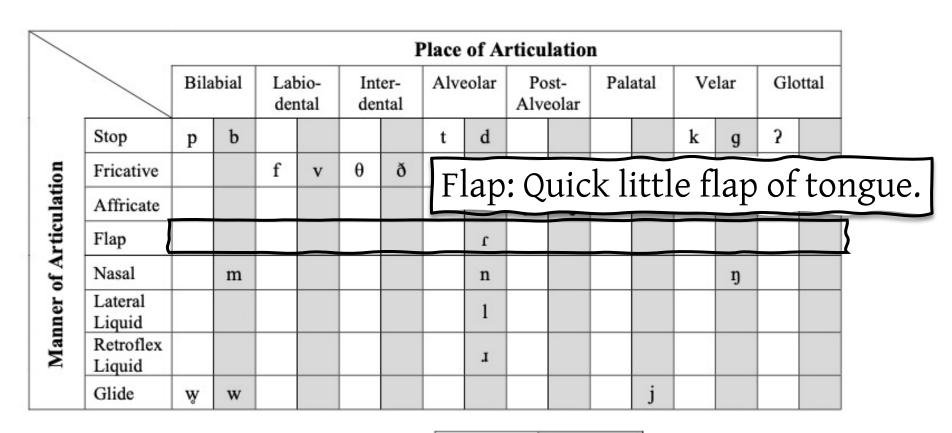
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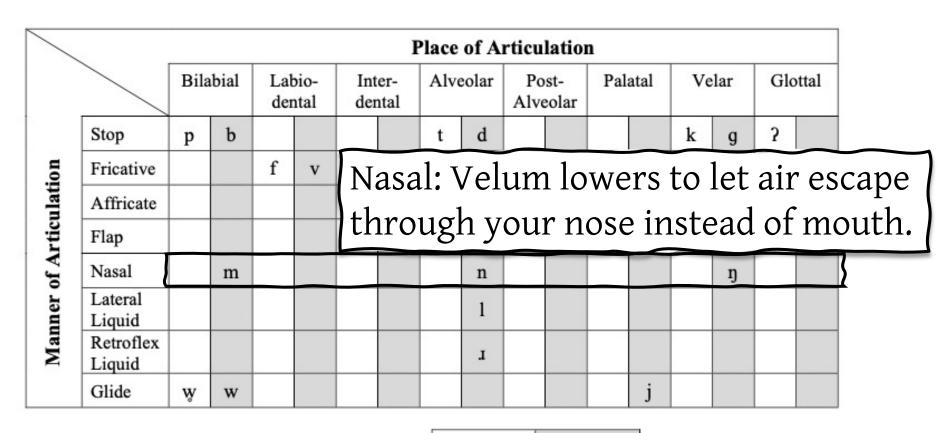
State of the Glottis

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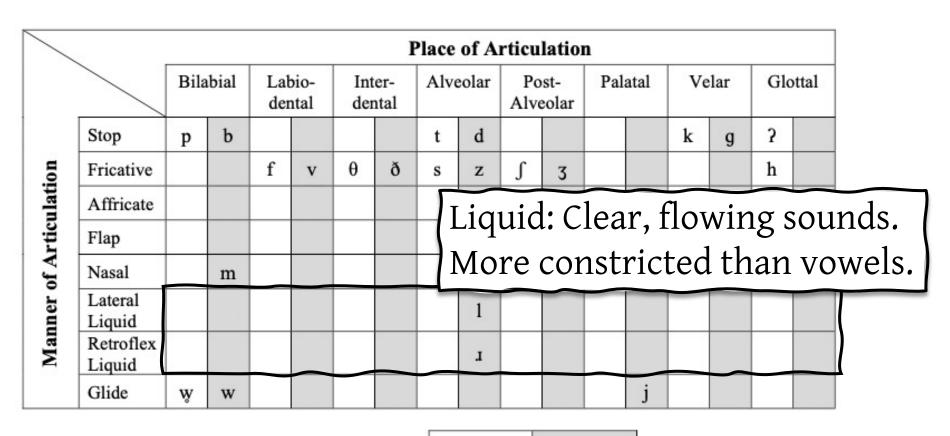
State of the Glottis

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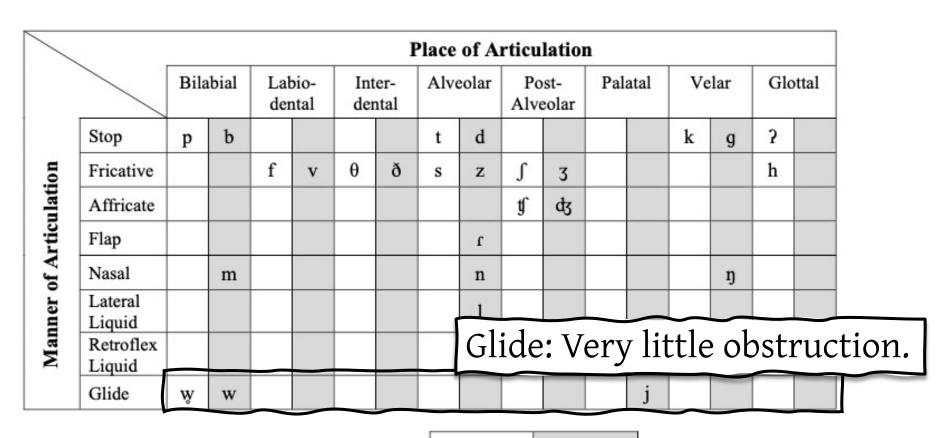
State of the Glottis

Voiceless



State of the Glottis

Voiceless

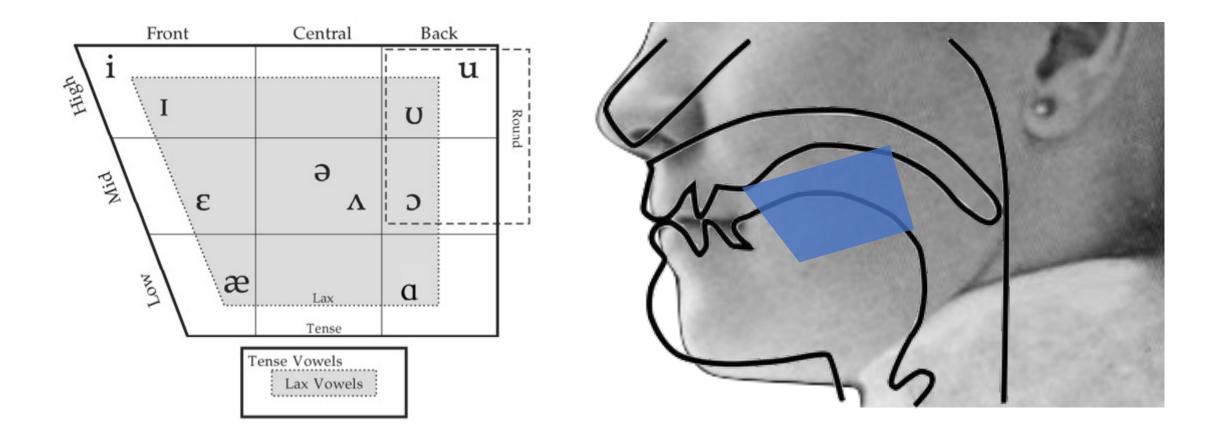


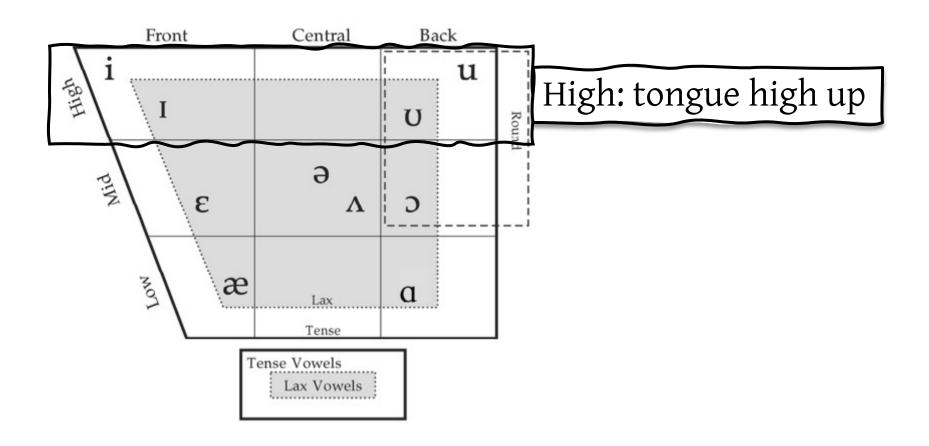
State of the Glottis

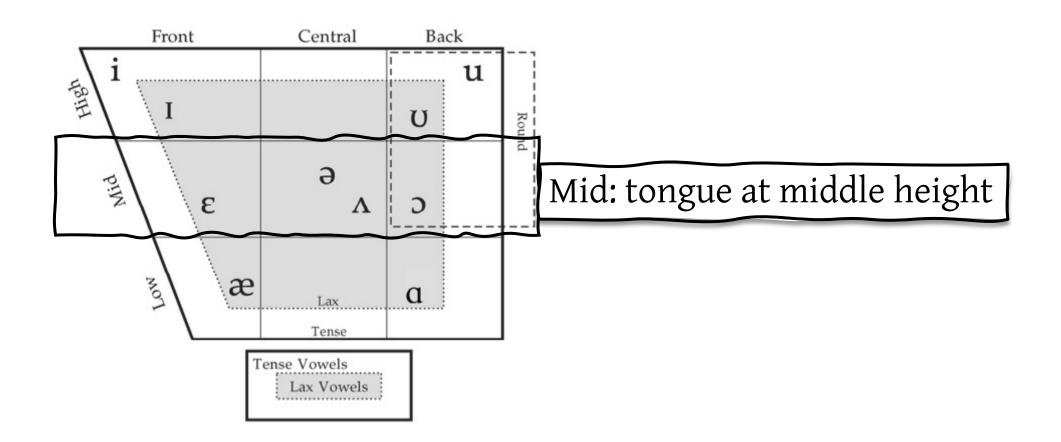
Voiceless

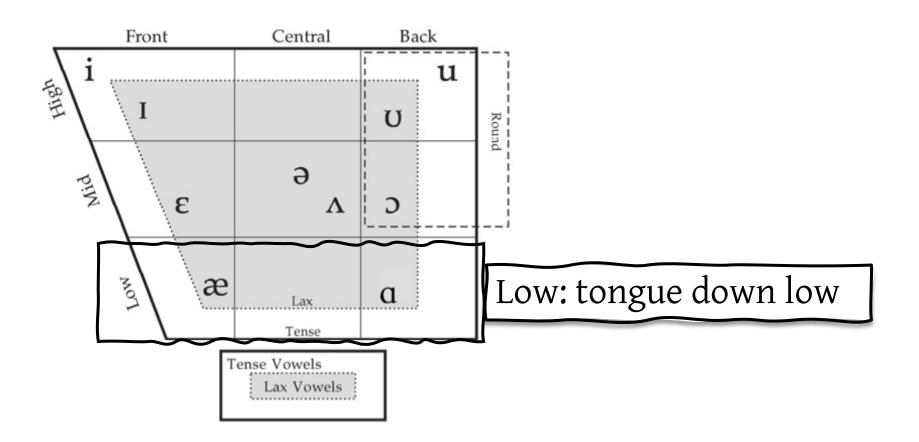
### 3b. Vowels

- Monophthongs (single sound) and diphthongs (flow from one vowel into another without creating a new syllable).
- Some diphthongs are sometimes called "long vowels" outside of linguistics.
- In English, all vowels are syllabic, clear, and voiced (unless you're whispering).
- Key elements for vowels: height, backness, rounding, and tenseness.

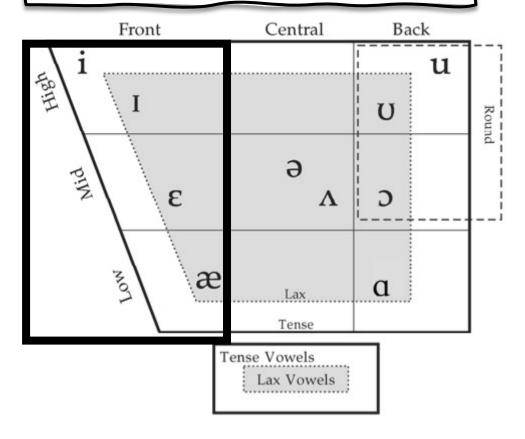


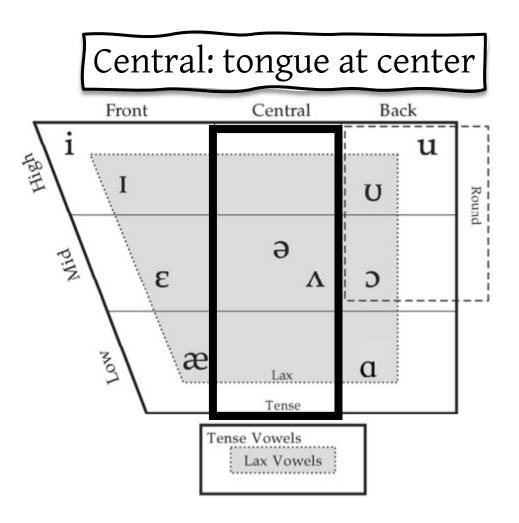






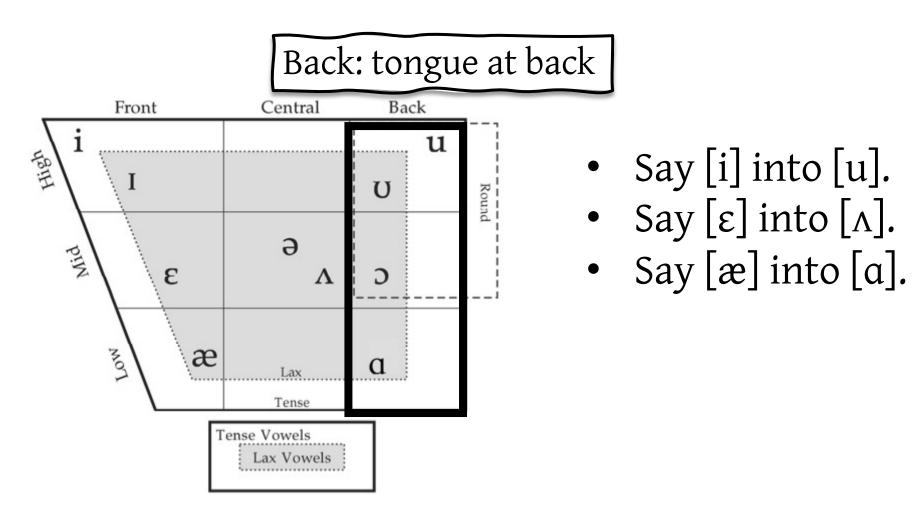
Front: tongue towards front

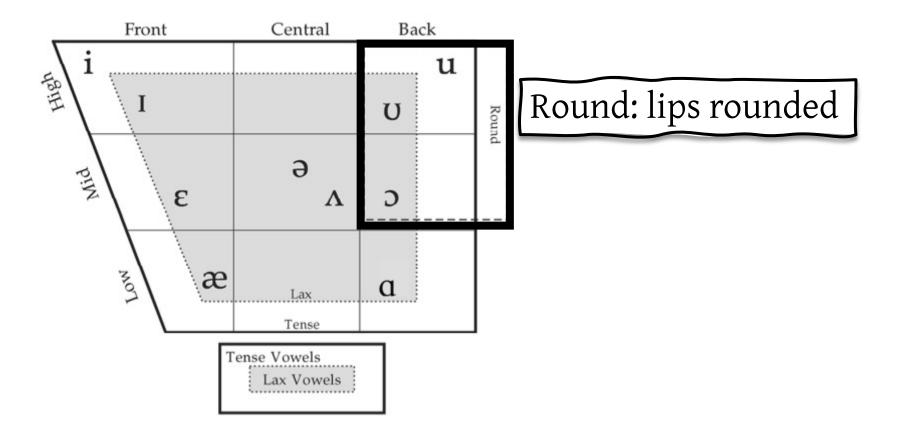


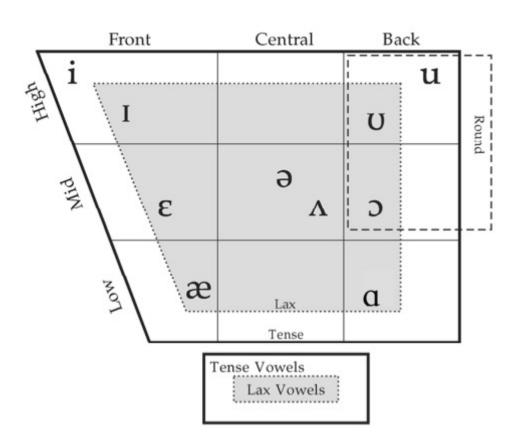


#### [A] vs. [ə]

- Sound very similar.
- [ə] is the way many vowels are realized in destressed position, e.g. universe [junəvəɹs].
- [\Lambda] is a vowel in its own right, and can be stressed, e.g. hut [h\Lambdat].



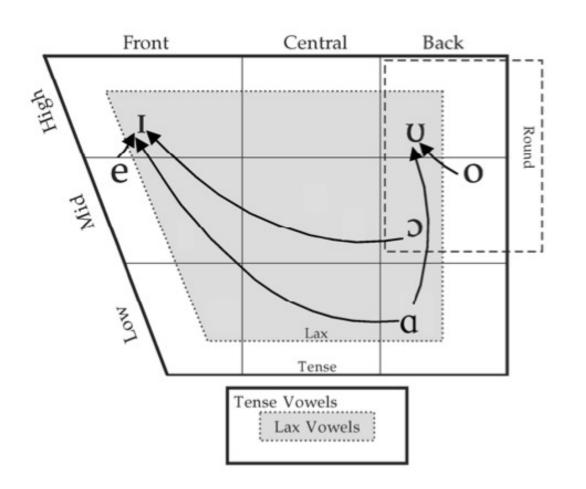


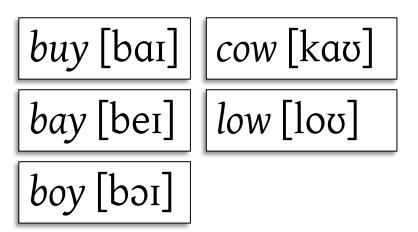


#### **Tenseness**

- Has to do with the tenseness of your tongue.
- Use it to distinguish [i]
   from [i] and [u] from [v].

## 3b. Vowels: Diphthongs





#### [e1] and [ov]

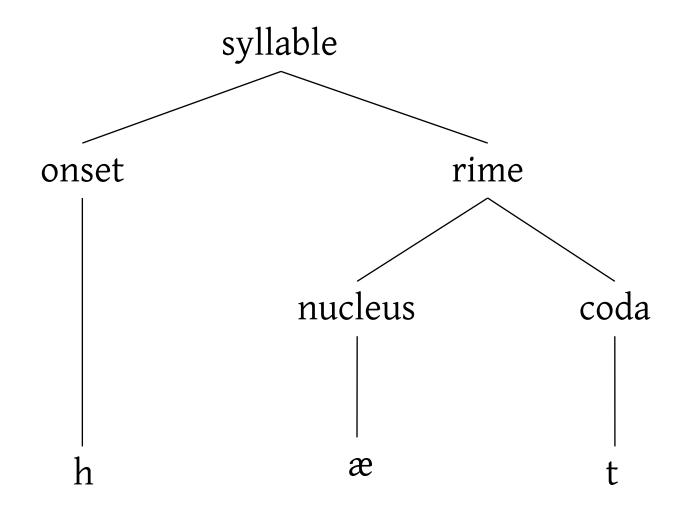
Sometimes, you'll see these written as monophthongs, [e] and [o].



# 4. Syllables

- What's an onset?
- What's a rhyme?
- What does it mean for two syllables to rhyme?

## 4. Syllables



hat

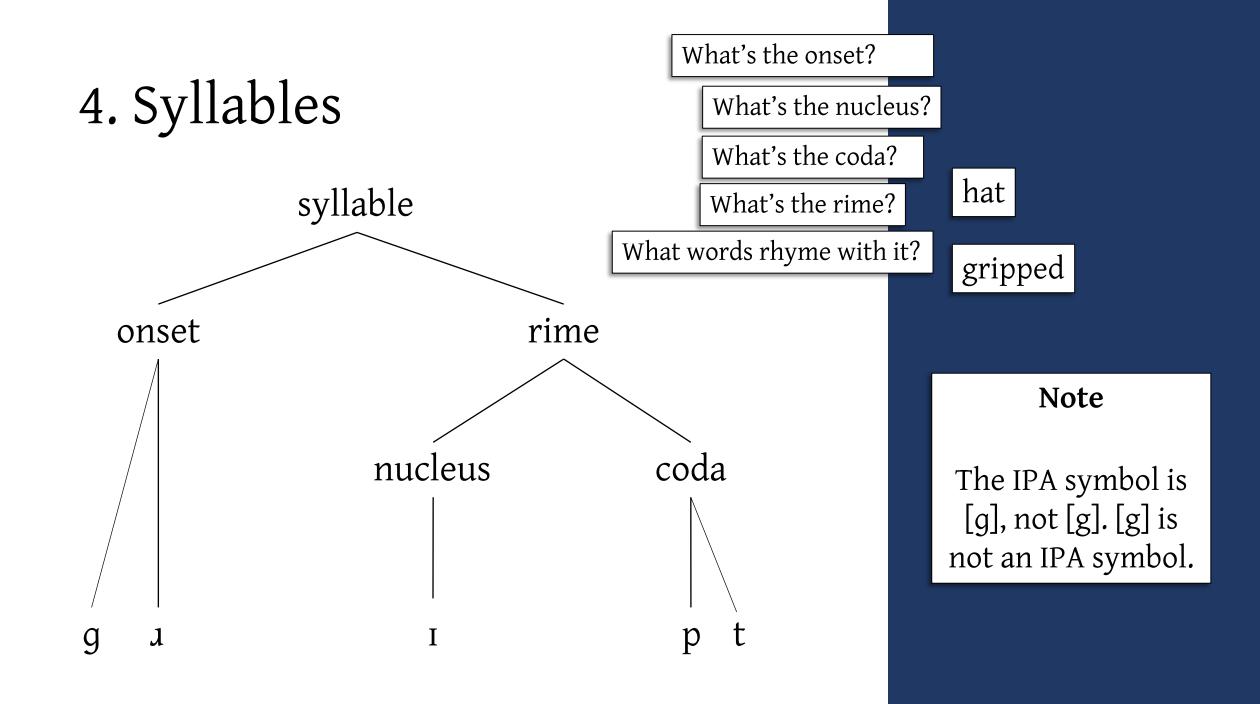
What's the onset?

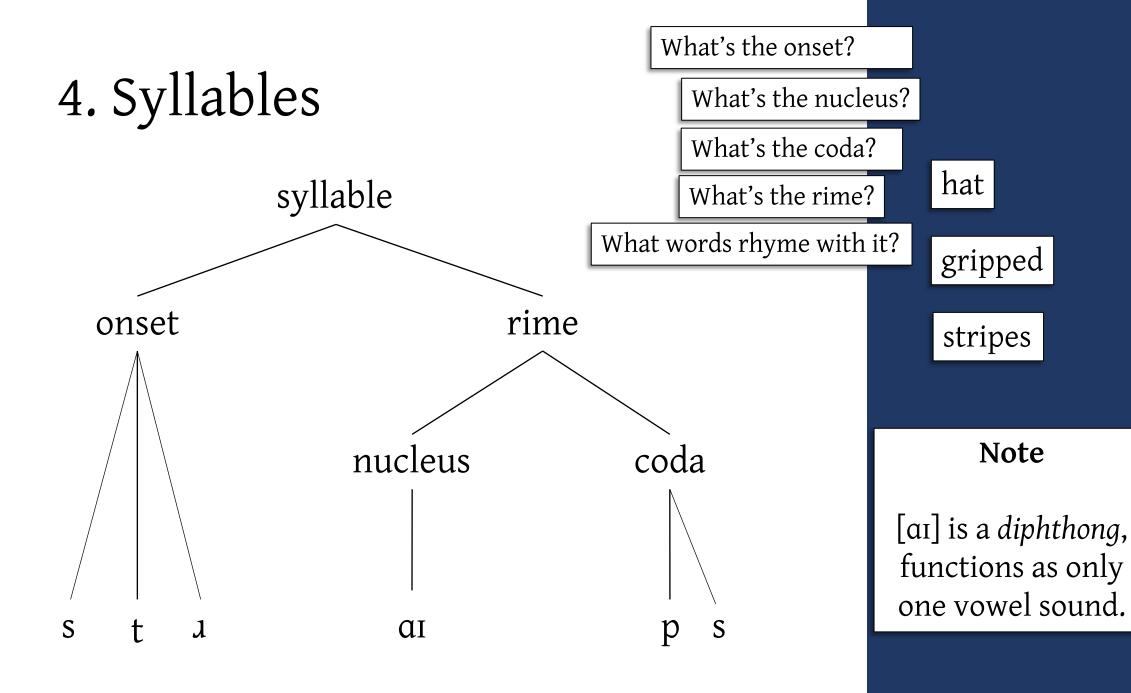
What's the nucleus?

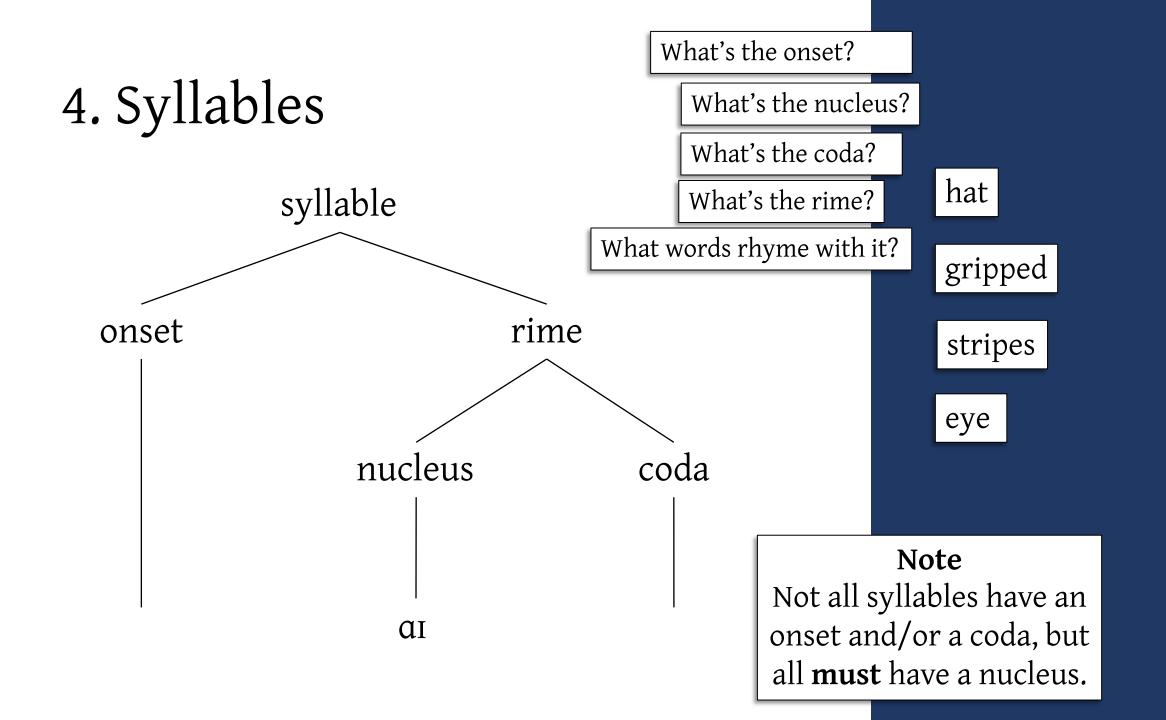
What's the coda?

What's the rime?

What words rhyme with it?









## Assignments

- For next week's class (March 5<sup>th</sup>), read pp.108–121 in *Language Files*. There will be a quiz on this reading at the start of class.
- There *should* be a discussion board post that I'll put on the site this week, but the Commons are down today so it's not up yet. I'll email you with an update once I have one.