

Phonetics II: Vowels

Reading: FRH Ch. 5

PLIN0006: Introduction to Language



Vowels

Vowels are **classified** according to four factors:

- 1) Tenseness (if it matters)
- 2) Tongue Height
- 3) Tongue Backness
- 4) Lip Rounding

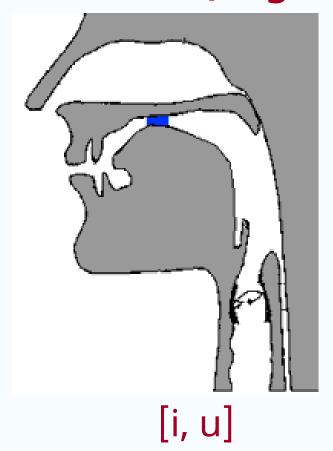
Tongue Height and Backness

- [a] father, palm, sergeant, heart
- [e] gate, bait, great, they, eight*
- [i] beet, key, be, believe, serene
- [o] coat, go, grow, over, own*
- [u] boot, lute, who, two, Lou

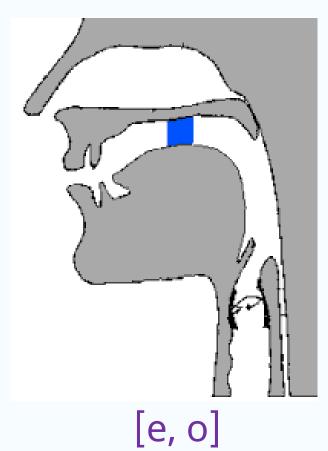
^{*}For most speakers of Southern British English these words have diphthongs. It might help to pretend you're from Yorkshire or America.

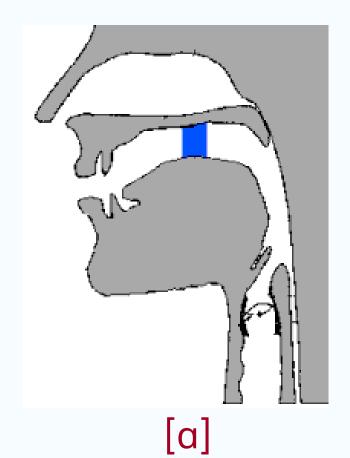
Tongue Height

Close/High



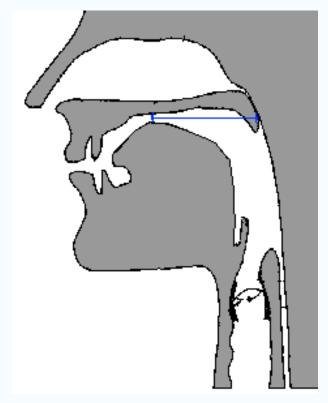
Mid





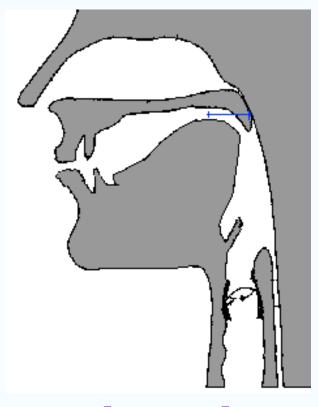
Tongue Backness

Front



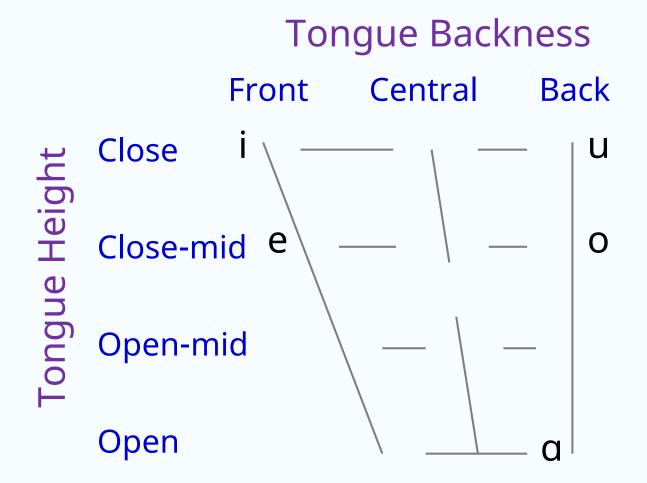
[i, e]

Back



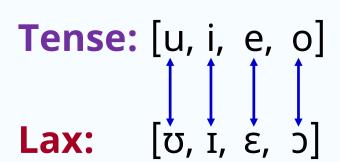
[u, o, a]

English Vowels in the IPA



Tenseness and Laxness

[u] boot, lute, who, Lou [[ပ] put, foot, butcher, could [i] beet, key, be, serene [I]bit, consist, injury, bin [e] gate, bait, great, they, eight [٤] bet, says, quest, dead [o]coat, go, grow, over, own [c] caught, stalk, core, saw

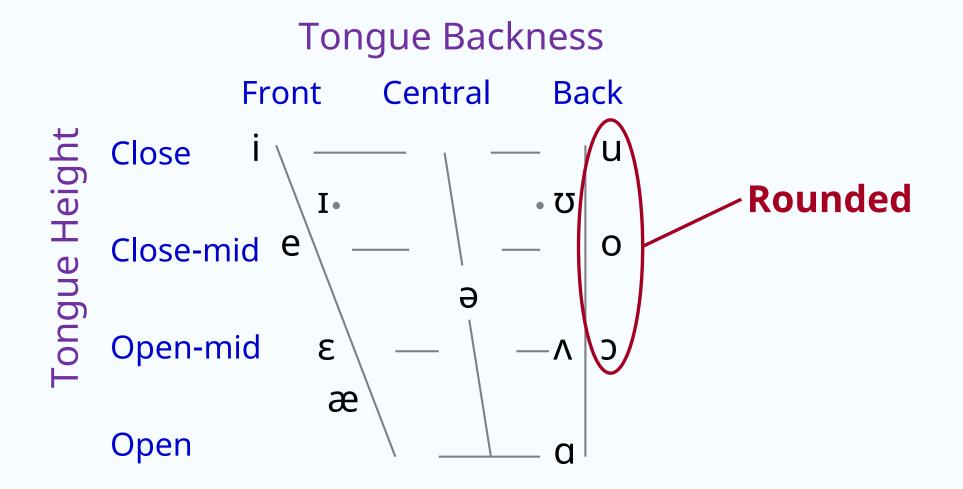


More English Lax Vowels

- [a] father, palm, sergeant, heart
- [æ] pan, act, cat, abbey
- [ʌ] cut, among, oven, cover
- [ə] sofa, alone, suppose, bird

The vowel [a] is called **schwa**.

The Vowels of English



Some other sounds and features

- •Sounds:
 - Diphthongs: [ei, aʊ, ai, ...]
 - Affricates: [tʃ, d͡ʒ, ...]
 - Alveolar flap: [r] (e.g. in

American English *butter*)

- Suprasegmental features:
 - Stress: [kpntuast] (noun) vs[kəntuast] (verb)
 - Nasalisation: Fr. bon [bɔ̃] 'good'
 - Aspiration: [ph, th, kh, ...]
 - Vowel length: [i, o, u, ...]

Grouping Sounds into Natural Classes (part 1)

- Sounds can be grouped on the basis of shared traits:
 - Natural classes may be large or small
 - Large: Consonants
 - Small: Voiced oral stops (= [b, d, g])

Grouping Sounds into Natural Classes (part 2)

Natural classes are very valuable. They offer insight into:

- What it means to know a language
- How children acquire this knowledge
- They enable the linguist to formulate simple and elegant accounts of various linguistic phenomena (as we'll see next week!)

Summary

- > Transcription:
 - We saw why transcription must be unambiguous and international.
- > Articulation:
 - We saw how individual speech sounds are produced
- > Classification:
 - We discussed how sounds can be grouped and why this is important for science.
 - We will see next week that this plays an important role in understanding language