

Today's topics:

- **Phonetics, distribution, URs**
- **Morpheme alternations**

Background preparation:

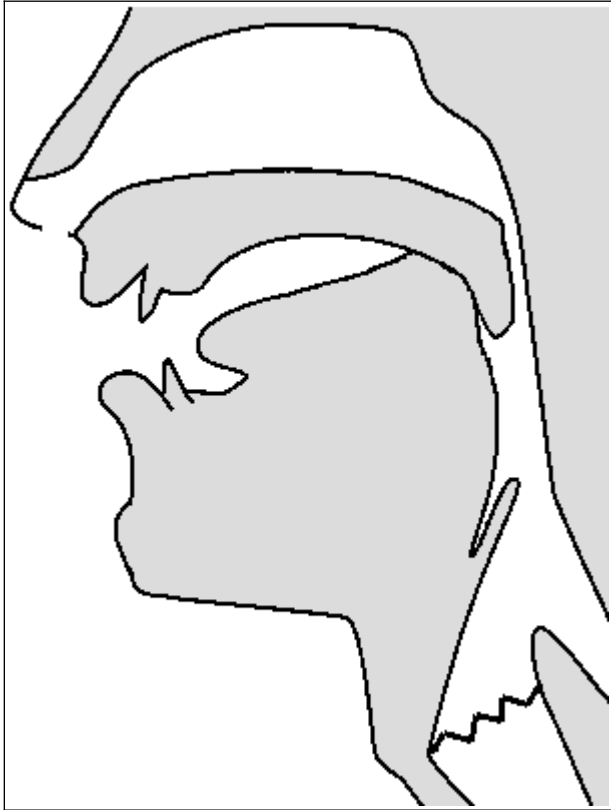
- *Odden (2004) excerpts*
- *Data sets: Turkish, Javanese*

0. Today's key points

- Check-in on quiz material
 - Phonetics review
 - Distribution basics
- Distribution in the context of morphological alternation: URs, neutralization

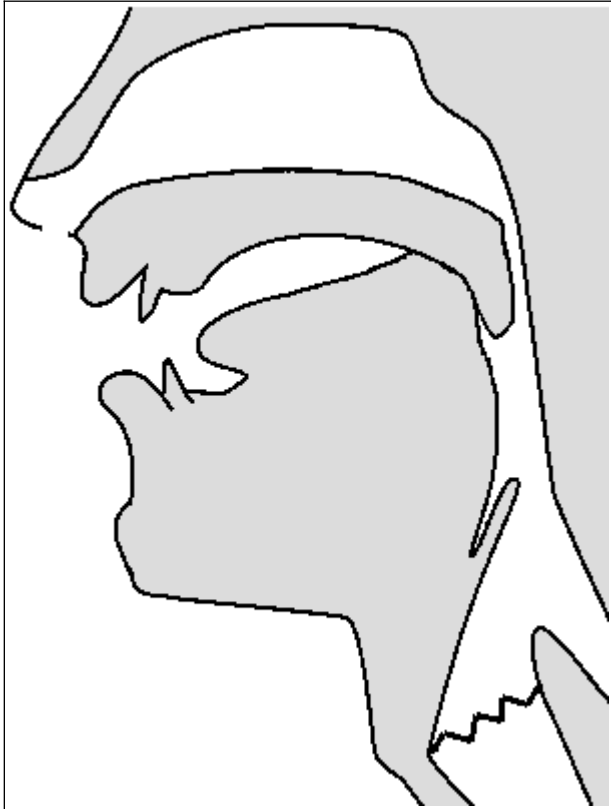
1. Review: Phonetics

- What consonant is represented here?



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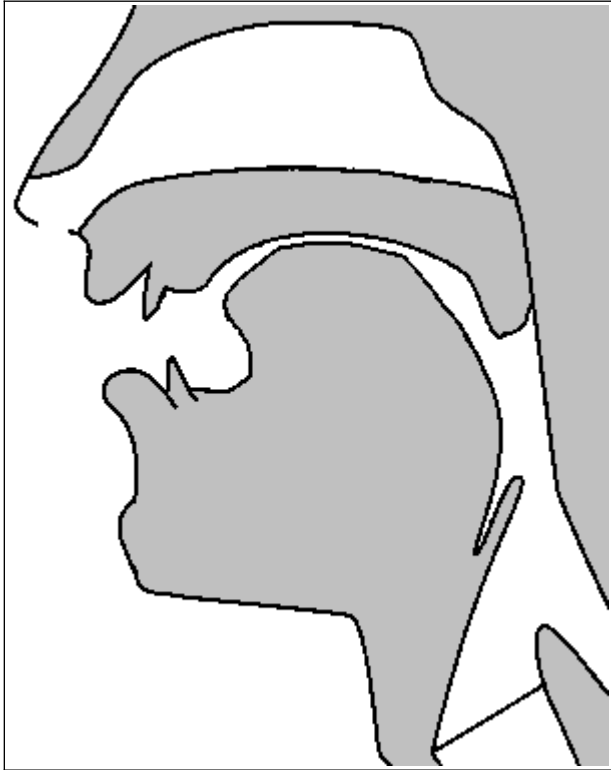
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- voicing?
- oral/nasal?
- place?
- constriction type?

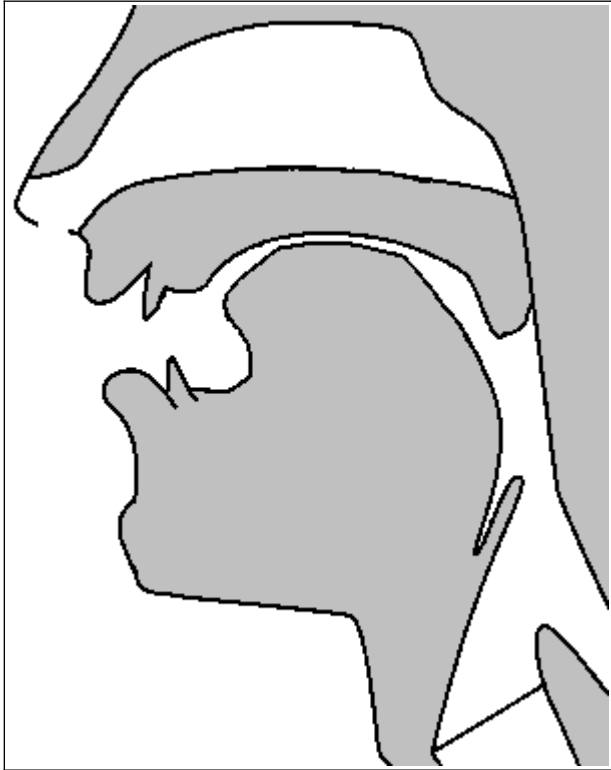
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1. Review: Phonetics

- How can we distinguish group A from group B?

A

B

(i) [ϕ θ ʃ ç χ]

[ð m o v ɣ b r]

(ii) [i ɪ e ε]

[u ʊ o ɔ]

1. Review: Phonetics

- Other questions about phonetics?
 - Symbols, properties, diagrams, classes?

2. Review: Distribution, allophones, URs

- If the distribution of sounds X and Y is **predictable**, it is more likely that...
 - (a) X and Y are allophones of the same phoneme
 - (b) X and Y belong to different phonemes
- We want our model of the **mental grammar** to...
 - (a) Determine which words have a certain allophone of a given phoneme
 - (b) Determine which words have a certain phoneme

2. Review: Distribution, allophones, URs

- How do we insightfully make the case that the distribution of two sounds is...
 - (a) predictable?
 - (b) unpredictable?
- Data set - [Turkish suffixes](#)

2. Review: Distribution, allophones, URs

- What are some important factors in determining...
 - whether there is a “basic allophone”?
 - what the UR of a phoneme with multiple allophones should be?

- What is the relationship between the UR we choose, and the rule(s) we need to propose for the mental grammar?

2. Review: Distribution, allophones, URs

- Other questions about distribution, phonemes/allophones, or URs?

3. More on morpheme alternations

- When we see an alternating morpheme, how do we choose the right UR?
 - Consider the **alternative analyses** (which rules are needed under different UR assumptions)
 - Is one more **successful** than another?

3. More on morpheme alternations

- Try Javanese
 - Which morphemes alternate?
 - What URs should we propose?
 - What rule(s) do we need for the other surface forms?

3. More on morpheme alternations

- Here are some things to watch out for in analyzing morpheme alternations (see also Odden 2004):
 - Don't assume that a paradigm form with no affixes "is" the UR
 - Avoid proposing rules with exceptions when an alternative, general analysis is possible

3. More on morpheme alternations

- Here are some things to watch out for in analyzing morpheme alternations (see also Odden 2004):
 - Don't try to derive one surface form from another (in the absence of evidence that this is necessary)
 - What should we do instead?
 - Hint: What is the starting point for a morphologically complex surface form?

3. More on morpheme alternations

- Zsiga (2013) and Odden (2005) both discuss (positional) **neutralization**
 - What is it?
 - Why is it important in determining URs?