Phono I

Th Feb 1

Today's objectives:

• Review assumptions, predictions of a traditional feature model

Background preparation:

- Data set Turkish
- Hall (2007) + reading guide

0. Today's key points

- Goals of a feature model
- Discussion and application of the traditional feature model reviewed and summarized in Hall (2007)

1. Model-building in linguistics

- Reminders about models
 - A model is an abstract explanatory device that captures structure in the data
 - In building a model, key goals are to
 - describe predict explain
 the phenomena of interest
 (=facts about the world)

• What facts about the world is this model intended to describe, predict, and explain?

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 - Native-speaker behavior concerning
 - natural-class behavior
 - segmental contrasts
- Note: We will use the feature model that Hall (2007) presents as a **reference point** for feature analysis
 - Be aware of points of controversy

- Overview of the model that Hall (2007) presents Note that (most of) this model is not *original* with Hall!
 - Why are **features** and **nodes** distinguished?
 - How do **binary** vs. **privative** features differ?



- We will use Hall's feature model as our course reference model, in general
 - We can ignore feature geometry unless it is relevant (i.e., we can just specify lists of feature values when that is sufficient)
- But: We should be prepared to **override** the default feature specifications for a class of sounds when the **data** requires this

• RG question (1)

Hall asserts (p 312), "Features are psychological entities defined in terms of acoustic and/or articulatory realization which provide the link between cognitive representation of speech and its physical manifestation."

He presents "two arguments for features".

- What are these two arguments?
- If these arguments are taken to the extreme, do they pose any difficulties for Hall's initial definition of features?

• RG question (2)

p 313: "It is usually assumed that if a feature is distinctive in a language then only the sounds for which it is distinctive are marked underlyingly for that feature."

- I would dispute that this is "usually assumed";
 more like "sometimes assumed"
- To consider: What are some **implications** of such an assumption?

Major class features

• RG question (3)

Here are some traditional descriptive terms for the natural classes that are defined by various combinations of the major class features: **consonant**, **obstruent**, **sonorant**, **liquid**, **nasal**. (Another useful term is **vocoid**, which means any [–cons] segment, i.e., vowel or glide.)

- See if you can use the major class features to designate each class.

Major class features

 RG question (4)
 How is the **contrast** between glides and high vowels represented in Hall's model?

Laryngeal features

- RG question (9)
 What is the motivation for grouping [±voi],
 [(±)spread], and [(±)constr] under LARYNGEAL?
 - Reminder: What is the role of the **nodes** in a feature-geometry model?

Manner features

- RG question (10)
 What questions or problems concerning liquids (laterals and rhotics) are raised in note 4?
- RG question (11)
 What value of [±cont] do nasals like [n m] have, according to Hall (2007)?

Place features

• What are the **place features**? How are they organized under **nodes**?

- Do vowels have place features? Do consonants have height, backness, or rounding features?
 - What predictions does this make?

Place features

 RG question (13)
 What are some options for representing **palatal** place of articulation?

4. Applying this feature model

- Back to the alternating morphemes in <u>Turkish</u>
 - For each UR choice, what are we required to say the grammar is doing?
 - How do we decide which approach is more appealing?
 - How does using the vowel features from Hall's model influence this discussion?