

## A Brief Study Guide for Final

- Remember to check over the Midterm and it's study guide
- No IPA charts are allowed in the final
- Acoustics
  - Know what vowels look like in a spectrogram
    - Identify high vs. low vowels
    - Identify front vs. back vowels
  - Know what consonants look like in a spectrogram
    - Stops vs. fricatives
    - Be able to identify voiced, voiceless, and aspirated stops
    - Liquids and and nasals
    - What's an [ɹ] look like?
- Perception
  - Is *loudness* a subjective or objective measure? How so?
  - Why is the decibel (dB) considered “dimensionless”?
  - Do we hear all frequencies equally well?
  - What's a cochleagram?
  - What is a perceptual cue?
    - What are the cues to vowels?
    - Stops?
    - Fricatives?
    - Nasals?
  - Do speakers of all languages hear sounds the same way?
    - Why or why not?
    - How does this develop (i.e. are infant's different?)
  - How does perception predict typical vowel systems?
- Synthesis and ASR
  - What kinds of units are used in synthesis?
  - Can you describe LPC source – filter synthesis?
  - Describe some problems an ASR system may have
    - How are these avoided? (Think of two main ways)
- Suprasegmentals
  - What is tone?
  - What is stress?
    - Name some typical acoustic correlates of stress?
    - Are these the same across languages?
  - What is pitch accent?
- Intonation
  - What kinds of information does intonation provide?
  - Do intonational contours have consistent meanings across languages?