Review for Final.

Things we've done, which you should have in order sometime before the final:

Stuff covered on the previous exams will not be the focus of the final. However, things such as the IPA symbols should not be totally forgotten, since I assume that you know the IPA when I write questions, etc. Also, I may ask you to use transcription symbols to indicate what you think is going on. So, don't empty the charts from your brain just yet.

The major areas since the last mid-term are all about acoustics

Specific things we've covered since the mid-term:

- Acoustics. What is it?
- Wave propagation and properties (amplitude, period, frequency).
- Harmonic series in a closed resonator, and the relationship between the fundamental and harmonic frequencies.
- Estimating F0 from wave-forms.
- Estimating F0 and formants off of wide band spectrograms.
- Estimating F0 off of narrow band spectrograms.
- Source characteristics; harmonic voicing vs. frication noise.
- Open and closed resonating systems.
- Filter characteristics; resonances of the uniform tube.
- Gross speaker differences in acoustic output.
- Source-filter theory: and loosely how it applies to various types of speech sounds.
- What's a schwa?
- Perturbation theory; how constriction at different locations affects formant frequencies.
- The dimensions of the vowel space, and so the formant characteristics of different kinds of vowels.
- Filtering effects on obstruent noise.
- What all the above do to spectrograms.

If you run into items that you just don't understand, I'll be blocking the time in class on Friday for questions. You can also contact me for an appointment or X e-mail as well.