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Projects

- Sketch due 5PM 1/29. Email both Prof. de Jong and Phillip (and cc all team members).
- Draft Sketch = one-paragraph description of at least three projects which are potentially feasible. Include a list of the proposed group members at the top.
IRB Basics

- Human Subjects IRB
- CITI Training: Social/Behavioral Researcher
- KC IRB: IRB proposal
- Approval timeline
- IRB Basics Slide Show
Sagittal Section

Active & Passive

Passive articulator

Active articulator

upper teeth
alveolar ridge
hard palate
soft palate (velum)
upper lip
lower lip
tongue
lower teeth
pharynx
larynx
note

Sagittal Section

What English fricatives are these?
What English plosives are these?
What English plosives are these?
Draw a sound and let your classmate guess!
Sagittal Section

Real-time production
MRI Song
Transcribe the following sounds using IPA symbols
Intro to Praat

Basics
Opening sound files

1. Open Praat. (Object and Picture windows)
2. Open: Read from file...
3. Find and choose a sound file.
Or Right click on a file(s) and open the file with Praat.
Or Drag the sound file to the Praat icon.

Saving sound files

1. Sounds show up in the object window. Note: Sound files are not automatically saved!
2. To save sound files (ones in the object window), Save > Save as WAV file... For Windows: Be sure to type .wav at the end of the file name
Or in Edit mode, select the material you want to save, go to File > Save selected sound as WAV file > Save
Intro to Praat

Basics

Keyboard Shortcuts

- Command (Ctrl) + i: zoom in
- Command (Ctrl) + o: zoom out
- Command (Ctrl) + n zoom in to selection
- Command (Ctrl) + s: save
- Tab: Play/Stop current selection
Intro to Praat

Exercise

1. **Download** ‘Sentence.wav’ from the lab website and save it on the desktop.

2. **Open** ‘Sentence’ in the object window > Click “View & Edit”

3. **Listen carefully** . . . find and **select the word** ‘scoop’
   - clicking on the beginning of the word > hold the mouse and move the cursor to select/highlight the word
   OR
   - SHIFT + click on both ends

4. **Once you have** ‘scoop’ **selected**, **Save the selected sound**
   - In Edit mode, select the section you want to save, then go to ‘File’ > ‘Save selected sound as WAV file’ > choose directory > Save
   OR
   - Select the section you want to save, then go to ‘File’ > ‘Extract selected sound (Time from 0)’, which will send the selection to the object window; > Save sound from Object window, ‘Save as WAV file’ > choose directory > Save
Create a 50-ms silence

1. To create a file with silence, from the Object window, go to New > Sound > Create sound from formula

2. Name = silence, Start Time = 0, End Time = 0.05(sec) (= 50 ms), sampling frequency: 44100, Formula = 0

3. It will appear in the object window
Adding Silence

1. Open the sound file containing your target word ‘scoop’

2. Add silence to ‘scoop’ by highlighting both sounds (scoop selection and silence) in Object window > Combine sounds > Concatenate OR
   - Open ‘scoop’ and ‘silence’ in Edit mode, Copy silence by selecting all silence and copying it (Edit > ‘Copy selection to Sound clipboard’). Then, in scoop selection, paste the silence before and after sound (Edit > ‘Paste after selection’)

3. Save your new file!
Annotation: Text Grids

1. Highlight sound in Object window
2. Click on Annotate: To TextGrid...
3. All Tier names = ‘Transcription’
   Which of these are point tiers? = (none)
4. Select both your new sound file and new TextGrid file in Object window hold ‘Command/Ctrl’ and then click to select) > ‘View & Edit’. Your annotation tier will show up below waveform and spectrogram.
5. Mark the boundaries for each segment.
Intro to Praat

Exercise

Draw & Print the Waveform and TextGrid

1. In the Object window, select your sound and TextGrid
2. Click on ‘Draw’
3. For now, leave all as is
4. The waveform and the annotation tier will appear in the Praat Picture window. You can save and print this picture.

OR Copy the picture to clipboard (under ‘Edit’) to Word and save for later use.
Due next Thursday/Friday in lab sections
Files available on the lab webpage (1 PDF, 2 Sound files)