SPEECH PROJECT PHONETIC CODING APPLICATION:

Getting Started:

1. Download both MATLAB and MacTex (<https://tug.org/mactex/mactex-download.html>)
2. Download the data and app files (<https://cmu.box.com/s/xm1p46eyb1ssdhzg6l39yqjbrevv7kmw>)
3. Installing the app:
   * Open MATLAB and change the working directory to the **Decoding** folder:
     + Select /Users/pirnia/Desktop/Screen Shot 2016-10-27 at 5.52.46 AM.png . Once you’re in the folder, select **Open**.
   * Navigate to the **APPS** tab and select **Install App**
     + Select **App** (folder)> **Phonetic Coding.mlappinstall** > **Open**
   * The **Phonetic Coding** App is now installed in your apps. It can be found by selecting the /Users/pirnia/Desktop/Screen Shot 2016-10-27 at 6.01.12 AM.png button. (You can select the star next to the app and move it to the first row for later use.)

Coding the data:

1. Open the **Phonetic Coding** app by selecting it from the APPs menu.
2. Load Speech Data: On the app, select **File** > **Open** > ####**.mat**
   * Each data file has a 4-digit ID and contains a single word list (120 words)
   * This file will load the audio and word information. If a previous phonetic transcription exists, it will also load.
3. Marking Spectrograms:
   * Each stimulus recording will display on the spectrogram with an automated speech onset marked. If onset is adjusted, the new onset is presented when the data is reloaded.
   * Select the Onset and Offset buttons to select the beginning and end of each word.
   * Audio modulation:
     + **Play**—from start of audio or paused location
     + **Replay**—always from start of audio
     + **Scroll bar** and **Play Speed Text window** both modify the playback speed.
4. Phonetic coding:
   * Adding Code: Input using symbol buttons or computer keyboard (when no other buttons are selected)
   * Deleting Code: Use the on-screen **delete** button (backspace will not work).
   * Reveal Button:
     + Selecting the **reveal** button will show the word stimuli presented to the subject
     + If the reveal button is selected at any time, it will be marked on the coding data file.
5. Errors: Add notes on specific errors for each word part can be added within error text boxes.
6. Updating code and changing word numbers:
   * Entered code will only be saved (to the workspace) once the **update** button is selected or the word number is changed using the **dropdown menu** or **next/back** buttons.
   * Select **Update** at the last word before saving file.
7. Saving Coded data to file:
   * To save code, Select **File** > **Save**. This will save any coding that has completed. Make sure to select **Update** at the final word before saving.
     + Data is saved as the variable, **CodingMatrix** within the ####.mat data file.
   * To close without saving, select **End > NO** (to saving data)**.**
   * If you close the app but not MATLAB and would really like to save the data, you can type the following command while replacing **fname**with the 4-digit data file you were working on (i.e. ‘**1023.mat**’) into the Command Window:

CodingMatrix=CodingMat;

save(**fname**, 'CodingMatrix', '-append’);