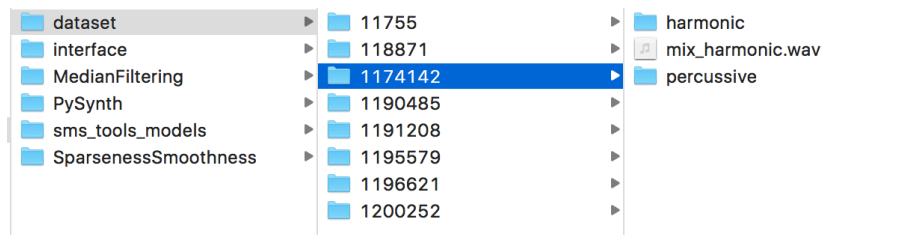


Folder Organization:

The mixed signals to be separated and transcribed need to be organized as follows:

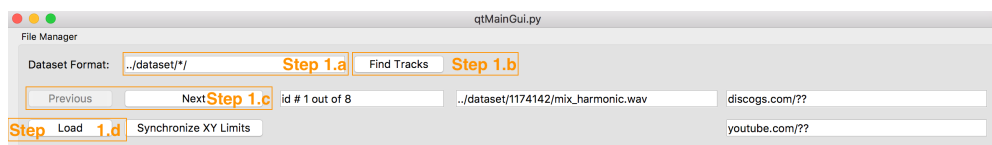
../[dataset_name]/[releaseID]/[mixed_harmonic_percussive_file].wav

If you have already separated files place the harmonic component in the “releaseID” folder as well as the “releaseID/harmonic” folder, and place the percussive component in the “releaseID/percussive” folder.



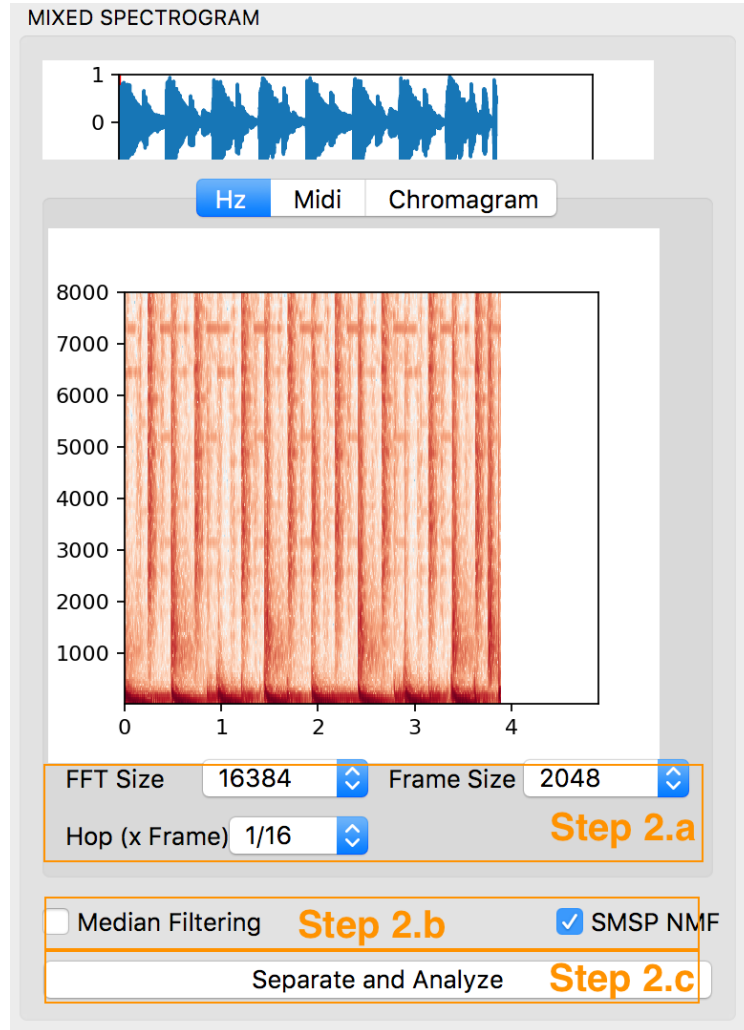
How to Use:

1. In the File Manager, do the following:
 - a. Locate the dataset location containing the files to be separated/annotated (Make sure to format the location as: ../dataset_name/*/)
 - b. Press the “Find Tracks” button.
 - c. Navigate through the tracks using the “Previous” or “Next” buttons.
 - d. Load the file into the session using “Load” button



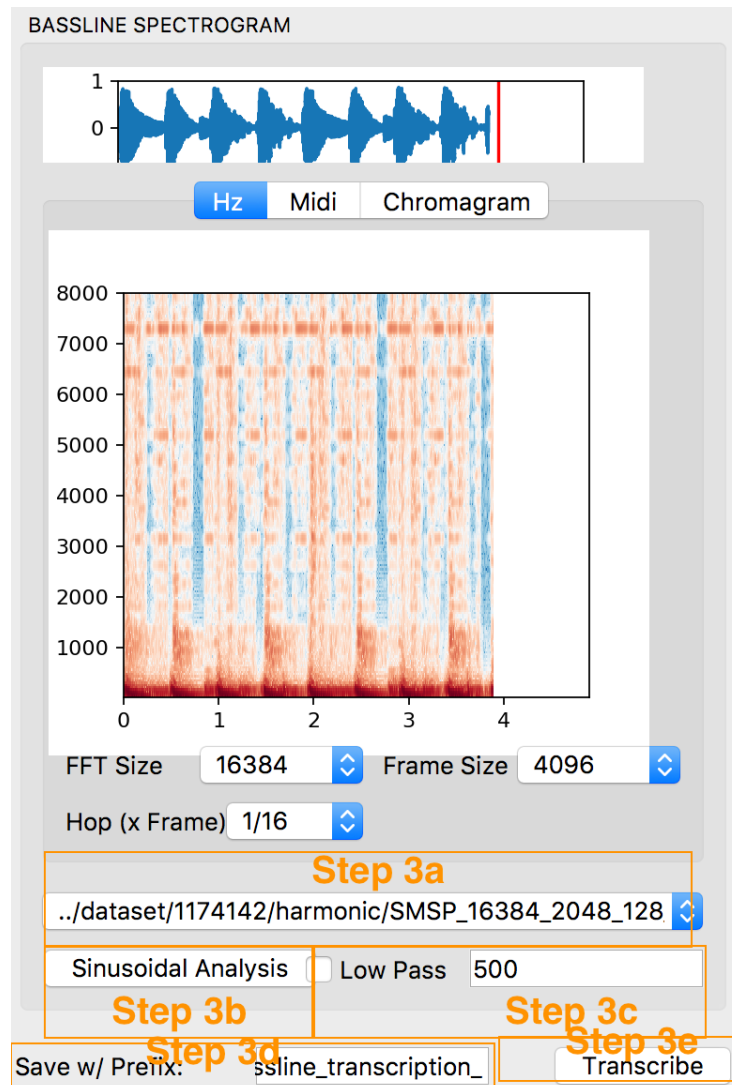
2. In the “Mixed Spectrogram” section, do the following:
 - a. Specify analysis parameters

- b. Specify separation method: based on Librosa's median filtering or the smoothness/sparseness implementation
<https://github.com/behzadhaki/harmonic-percussive-separator>
- c. Press the "Separate And Analyze Button"

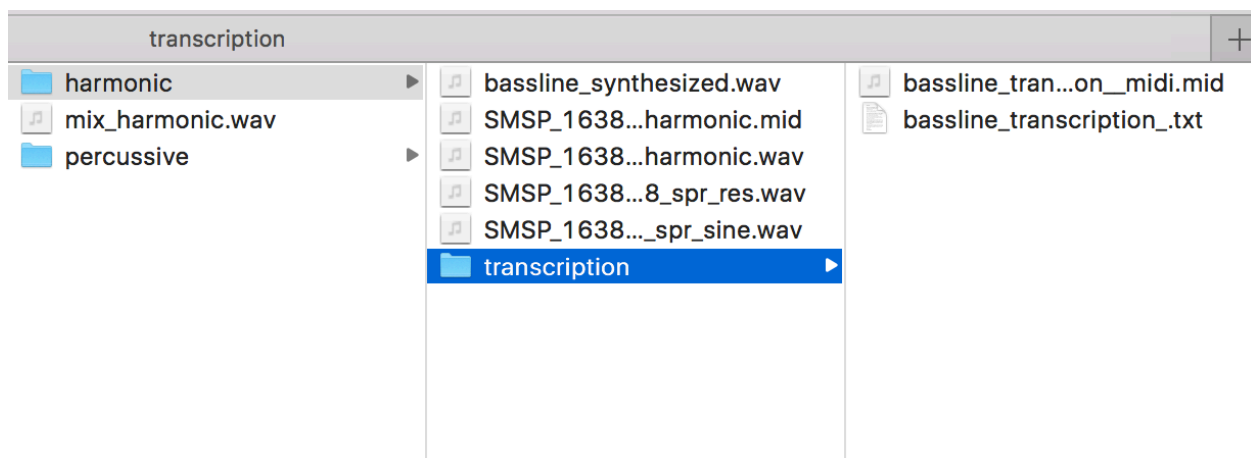
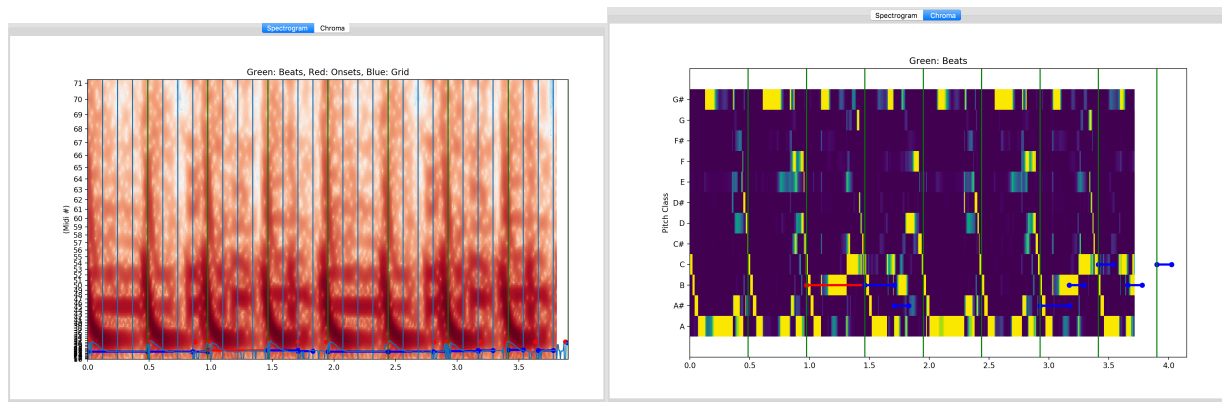


3. In the "Baseline Spectrogram" section, do the following:
 - a. Select the separated harmonic component
 - b. (optional) Press "Sinusoidal Analysis" to extract sine tracks from the signal. If you do this, after the analysis, select the sine signal from the dropdown menu
 - c. specify if you want to low pass the signal, as well as the low pass cutoff

- d. Specify a prefix for saving the transcription
- e. Press Transcribe



4. In the transcriber window, you can edit the midi lines. This version only supports monophonic transcriptions, so make sure that the midi lines do not temporally overlap
 - a. To edit a line, you first need to activate it. First press the “down” key on the keyboard. Then press the “left” or “right” keys to select the first or last line. After activation the line changes color (blue to red). Also, you can use any of the 1-9 keys (or shift+ 1-9) to select the nth line from the left (or nth line from right)
 - b. For an activated line (red), you can drag the line up or down, or change the duration by dragging the ends
 - c. To delete an activated line, double click on the line (color changes from red to green) and without moving the mouse right click.
 - d. To add a line, hold control and double click the starting point and double click on the end point.
 - e. You can switch between the chroma and spectrogram tabs to edit the lines (note that the line with a pitch class of “A” can not be seen in the chroma tab, although they do exist. This is a bug in the software to be fixed in later versions)
 - f. Press “Tab” to play the original signal to be transcribed
 - g. Press “P” to synthesize the detected midi lines using a piano sound
 - h. Press “s” to save the transcription (find the midi and text file of transcription in releaseID/harmonic/transcription/



5. For drums, follow the same steps as 4. Then, press “s” to save. The representation of the drums can be found in `releaseID/percussive/transcription/`