

Data: SA1 data is used as a sample from TIMIT/TIMIT/TRAIN/DR1/FETB0

Functions: The main function is customSpectrogram_modified. This function uses the following as the helper functions:

- processTimitFile – reads the timit data and extracts all 4 different types of information
- fftWindowedMatrix – calculates the fft of the signal
- plotSpectrogram_modified – plots the spectrogram
- tiledPlot_modified – plots all the 3 figures along with the annotations

Example Plot: Attached is an example plot of the phrase “She had your dark suit in greasy wash water all year.” Parameters used for this plot are as follows:

```
params.nFFT = 1024;
params.window = [1, 200];
params.nOverlap = 50;
params.fsst = 0;
params.plotType = 1;
[s, f, t] = customSpectrogram_modified(timitFilename, params);
```

