## Assignment 2

Due Monday October 15th by 11:59pm

1. Read this chapter on pitch perception (focusing on the first nine sections)

    de Cheveigné, A. 2005. Pitch perception models. In *Pitch: Neural Coding and Perception*, ed. C. J. Plack, A. J. Oxenham , R. R. Fay and N. A. Popper, 169–233. New York, NY: Springer.

    And write up a short summary (~ 1 paragraph for each point) on
    i.    the definition of pitch
    ii.   place theory (with a brief synopsis of its history and its relationship to signal processing methods)
    iii.  time theory (with a brief synopsis of its history and its relationship to signal processing methods)

2. Create a jupyter notebook to generate the following plot
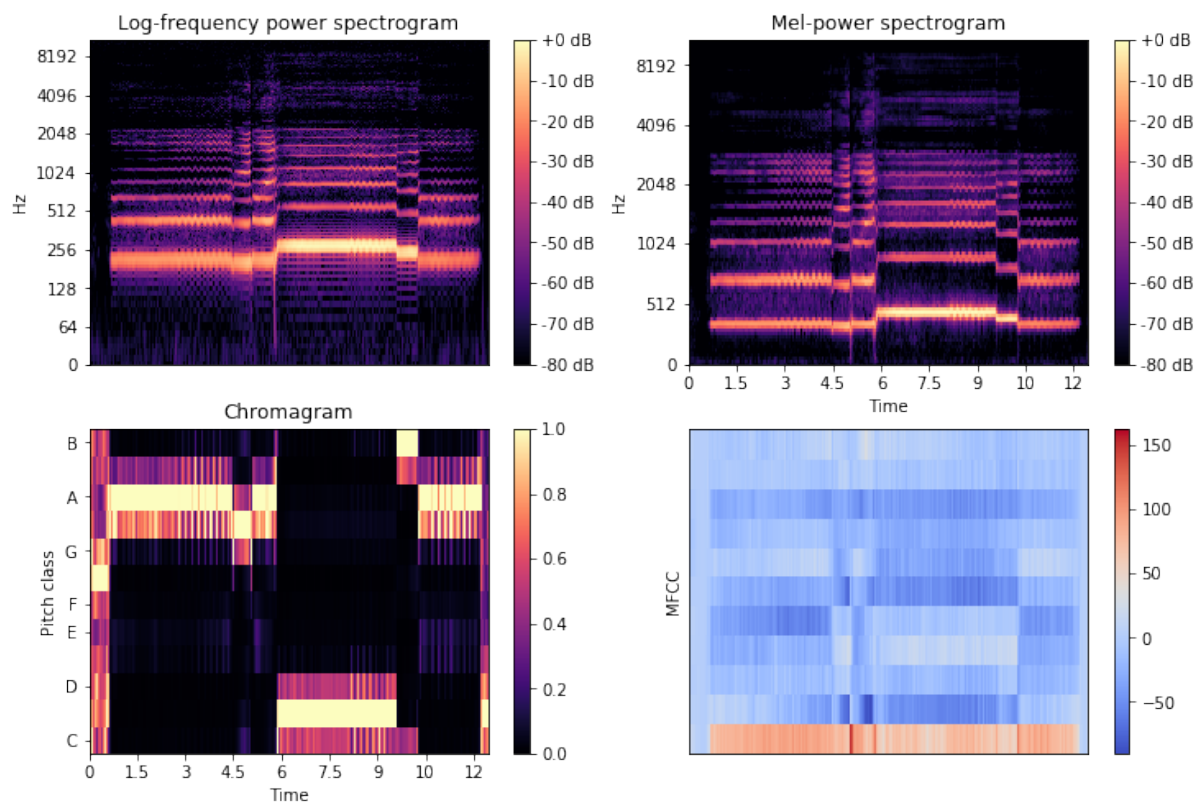


    Using the following settings:
    Log-frequency spectrogram:  n_fft=2048, hop_length=32, win_length=1024
        Colorbar format='%+2.0f dB'
    Mel-power spectrogram: n_fft=2048, n_mels=128. Colorbar - format='%+2.0f dB'
    Chromagram – default values
    MFCCs – 13 coefficients, run on log spectrogram