```
In [1]: import librosa import librosa.display import librosa.display as ipd import matplotlib.pyplot as plt import numpy as np

Loading audio files with Librosa

In [2]: audio_file = "audio/debussy.wav"

In [3]: ipd.Audio(audio_file)
```

In [4]: # load audio files with librosa
 signal, sr = librosa.load(audio_file)

Extracting MFCCs

0:00 / 0:30 **1**

Out[3]:

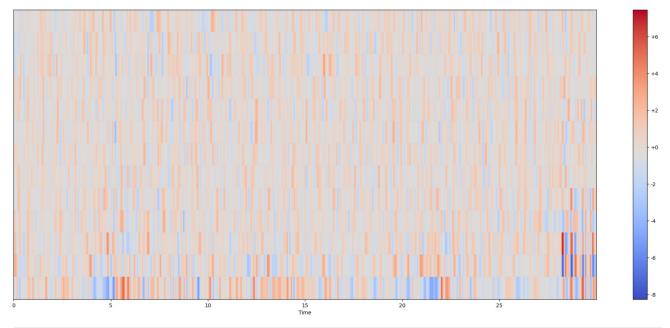
```
In [5]: mfccs = librosa.feature.mfcc(y=signal, n_mfcc=13, sr=sr)

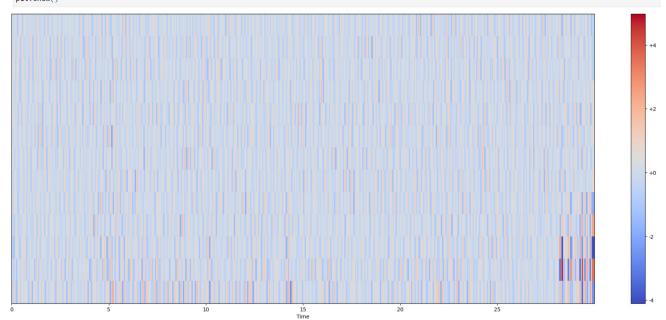
In [6]: mfccs.shape

Out[6]: (13, 1292)
```

Visualising MFCCs

Computing first / second MFCCs derivatives





In [13]: mfccs_features = np.concatenate((mfccs, delta_mfccs, delta2_mfccs))

In [14]: mfccs_features.shape

Out[14]: (39, 1292)

In []: