EAD Python Reference Sheet Cheat Sheet

by Nicklaj via cheatography.com/210692/cs/45496/

matplotlib

Plot graph	plt.plot(*x*, *y*)
Show plot	plt.show()
Limit x axis	plt.xlim(*left_lim*, *right_lim*)
Limit y axis	plt.ylim(*lower_lim*, *upper_lim*)
Set x label	plt.xlabel(*string*)
Set y label	plt.ylabel(*string*)
Spectr-ogram	plt.pcolormesh(*x*, *y*, *z*, shadin-g="gouraud")

import matplotlib.pyplot as plt

librosa

Carica da file	w, sr = librosa.load(*string*, sr=None)
File di test	librosa.ex(*string*)
Zero Crossing Rate	librosa.feature.zero_crossi-ngs_rate(*signal*)
MFCC	librosa.feature.mfcc(*signal*)

import librosa

Numpy

Range da start a stop con step	np.arange(*start*, *stop*, *step*)
Spazio lineare	np.linspace(*start*, *stop*, *samples_num*)
Somma elementi	np.sum(*vector*)
Media elementi	np.mean(*vector*)
Segno elementi	np.sign(*vector*)
Differenza k - (k - 1)	np.diff(*vector*)
Elementi non nulli	np.nonzero(*vector*)[0]
Seno	np.sin(*x*)
Appendi in_2 a in_1	np.append(*in_1*, *in_2*)
Radice quadrata	np.sqrt(*x*)
Fourier Transform (Valori)	np.fft.rfft(*signal*, *frame_length*)
Fourier Transform (Frequenze)	np.fft.rfftfreq(*signal*, *frame_length*)

import numpy as np

scipy

Hann window	scipy.signal.windows.h-ann(*frame*

import scipy

Snippet vari

```
def DFT(x, N, sr):
        val = np.fft.rf ft(x, N)
        freq = np.fft.rf ftf -
req(N, d=1/sr)
         return val, freq
# Framing
        for i in range(0, len(y),
int(fr ame _le ngt h/2)):
                frame = y[i:i+ -
int (fr ame _le ngth)]
                #op era zioni
```

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