Note : You have to keep your internet toggle **ON** to successfully execute all cells of this notebook.

Importing necessary Libraries

In [1]:
```python
import os
from os.path import isdir, join
from scipy.io import wavfile
from subprocess import check_output
from pathlib import Path
import pandas as pd


# Math
import numpy as np
from scipy.fftpack import fft
from scipy import signal
from scipy.io import wavfile
import librosa

from sklearn.decomposition import PCA

# Visualization
import matplotlib.pyplot as plt
import seaborn as sns
import IPython.display as ipd
import librosa.display

import plotly.offline as py
py.init_notebook_mode(connected=True)
import plotly.graph_objs as go
import plotly.tools as tls
import pandas as pd

%matplotlib inline
```

0. Read the Audio Files

Earlier versions of this kernel could read .7z archive files directly.

But, recently kaggle is not able to read .7z archives directly after their config updates for the Notebook Environment. So, given below is a passage to overcome this hurdle.

We need to extract the 7z archive into a directory and work on it. Later, we need to delete it especially, if no. of files > 500. Read the instruction given below in three steps.

Step 1: Install Python packages in an internet-enabled notebook

In [2]:
```python
!pip install pyunpack
```

```
!pip install patool
```

```
Collecting pyunpack
  Downloading https://files.pythonhosted.org/packages/83/29/020436b1d8e96e5f26fa282b9c3c
13a3b456a36b9ea2edc87c5fed008369/pyunpack-0.2.2-py2.py3-none-any.whl
Collecting easyprocess
  Downloading https://files.pythonhosted.org/packages/48/3c/75573613641c90c6d094059ac28a
db748560d99bd27ee6f80cce398f404e/EasyProcess-0.3-py2.py3-none-any.whl
Collecting entrypoint2
  Downloading https://files.pythonhosted.org/packages/8a/b0/8ef4b1d8be02448d164c52466530
059d7f57218655d21309a0c4236d7454/entrypoint2-0.2.4-py3-none-any.whl
Installing collected packages: easyprocess, entrypoint2, pyunpack
Successfully installed easyprocess-0.3 entrypoint2-0.2.4 pyunpack-0.2.2
Collecting patool
  Downloading https://files.pythonhosted.org/packages/43/94/52243ddff508780dd2d811096432
0ab4851134a55ab102285b46e740f76a/patool-1.12-py2.py3-none-any.whl (77kB)
     |████████████████████████████████| 81kB 1.0MB/s eta 0:00:011
Installing collected packages: patool
Successfully installed patool-1.12
```

Step [#2]: Unpack your .7z file

In [3]:
```python
from pyunpack import Archive
import shutil
if not os.path.exists('/kaggle/working/train/'):
    os.makedirs('/kaggle/working/train/')
Archive('/kaggle/input/train.7z').extractall('/kaggle/working/train/')
for dirname, _, filenames in os.walk('/kaggle/working/train/'):
    for filename in filenames:
        os.path.join(dirname, filename)
#        print(os.path.join(dirname, filename))
```

ALL archived files have been extracted

Step 3: Then after you are finished working with the images you can delete them so that your commit will succeed (max number of files in working directory for a commit = 500)

In [4]:
```python
shutil.make_archive('train/', 'zip', 'train')
```

Out[4]:   '/kaggle/working/train.zip'

Extracted files zipped again in .zip format (readeable for kaggle kernels)

In [5]:
```python
# deleting unwanted extracted files to avoid memory overflow while commiting.
!rm -rf kaggle/working/train/*
```

In [6]:
```python
# Loading the training Input file.
train_audio_path = "/kaggle/working/train/train/audio"
```

In [7]:
```python
# Checking to validate the presence of file.
```

```python
print(check_output(["ls", "/kaggle/working/train/train/audio"]).decode("utf8"))
print(os.listdir("/kaggle/working/train/train/audio/yes"))
```

```
_background_noise_
bed
bird
cat
dog
down
eight
five
four
go
happy
house
left
marvin
nine
no
off
on
one
right
seven
sheila
six
stop
three
tree
two
up
wow
yes
zero

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'bab36420_nohash_1.wav', '3c1e12cf_nohash_0.wav', '60472d26_nohash_0.wav', 'd197e3ae_nohash_2.wav', '1cc80e39_nohash_1.wav', 'd0faf7e4_nohash_6.wav', 'bfdb9801_nohash_0.wav', 'e102119e_nohash_2.wav', '3df9a3d4_nohash_0.wav', '327289eb_nohash_1.wav', '4a4e28f1_nohash_0.wav', 'a74f3917_nohash_0.wav', '24694eb6_nohash_1.wav', '214ccb20_nohash_0.wav', '28ed6bc9_nohash_0.wav', '39a12648_nohash_3.wav', 'c79159aa_nohash_2.wav', '21832144_nohash_4.wav', '8d8d9855_nohash_0.wav', 'aa753bb9_nohash_2.wav', 'df1d5024_nohash_2.wav', 'e53139ad_nohash_2.wav', 'c1e0e8e3_nohash_2.wav', 'd84829e0_nohash_1.wav', '745a8e32_nohash_1.wav', '763188c4_nohash_1.wav', 'cd85758f_nohash_3.wav', '44f68a83_nohash_0.wav', 'ece1a95a_nohash_0.wav', '9a69672b_nohash_2.wav', 'aef8dcf5_nohash_0.wav', '3847619e_nohash_1.wav', '8dd788d8_nohash_0.wav', '130d9a87_nohash_1.wav', '11860c84_nohash_1.wav', 'f632210f_nohash_0.wav', 'aff582a1_nohash_3.wav', '8931f494_nohash_0.wav', 'fb495c43_nohash_0.wav', '460f2bad_nohash_0.wav', '439c84f4_nohash_3.wav', '06a79a03_nohash_1.wav', '459345ea_nohash_1.wav', '264f471d_nohash_4.wav', '617de221_nohash_0.wav', 'b87bdb22_nohash_3.wav', 'e1469561_nohash_0.wav', 'd312f481_nohash_0.wav', 'db8a3397_nohash_1.wav', '35d1b6ee_nohash_3.wav', '8012c69d_nohash_3.wav', '03cf93b1_nohash_1.wav', '7846fd85_nohash_2.wav', 'aff582a1_nohash_2.wav', 'cb2929ce_nohash_3.wav', 'a9f38bae_nohash_0.wav', '01648c51_nohash_0.wav', '0f7dc557_nohash_0.wav', 'cf68fad2_nohash_1.wav', 'ce9410da_nohash_1.wav', 'b52bd596_nohash_0.wav', '6f5b4d3d_nohash_0.wav', 'ae71797c_nohash_0.wav', '57cb3575_nohash_0.wav',

```
      '1ecfb537_nohash_1.wav', '25132942_nohash_2.wav', '24c9f572_nohash_1.wav', '7211390b_noh
      ash_0.wav']
```

In [8]:
```python
# As an example using this input file here...
filename = '/yes/00f0204f_nohash_0.wav'
```

In [9]:
```python
dirs = [f for f in os.listdir(train_audio_path) if isdir(join(train_audio_path, f))]
dirs.sort()
print('Number of labels: ' + str(len(dirs)))
```

```
Number of labels: 31
```

Audio Features.

sample_rate, samples = wavfile.read(str(train_audio_path) + filename)

The above code line works fine for everything except **Librosa** library MFCC functionality. So, we'll read wave files using librosa only.

We have to read samples in librosa format, Otherwise "librosa" error will come:

data must be in floating format

In [10]:
```python
samples, sample_rate = librosa.load(str(train_audio_path)+filename)
```

1. Visualization

There are two theories of a human hearing - place (frequency-based) and temporal In speech recognition, I see two main tendencies - to input spectrogram (frequencies), and more sophisticated features MFCC - Mel-Frequency Cepstral Coefficients, PLP. You rarely work with raw, temporal data.

Let's visualize some recordings!

1.1 Spectogram

Define a function that calculates spectrogram.

Note, that we are taking logarithm of spectrogram values. It will make our plot much more clear, moreover, it is strictly connected to the way people hear. We need to assure that there are no 0 values as input to logarithm.

In [11]:
```python
def log_specgram(audio, sample_rate, window_size=20,
                 step_size=10, eps=1e-10):
    nperseg = int(round(window_size * sample_rate / 1e3))
    noverlap = int(round(step_size * sample_rate / 1e3))
    freqs, times, spec = signal.spectrogram(audio,
                                    fs=sample_rate,
                                    window='hann',
                                    nperseg=nperseg,
```

```
                            noverlap=noverlap,
                            detrend=False)
        return freqs, times, np.log(spec.T.astype(np.float32) + eps)
```

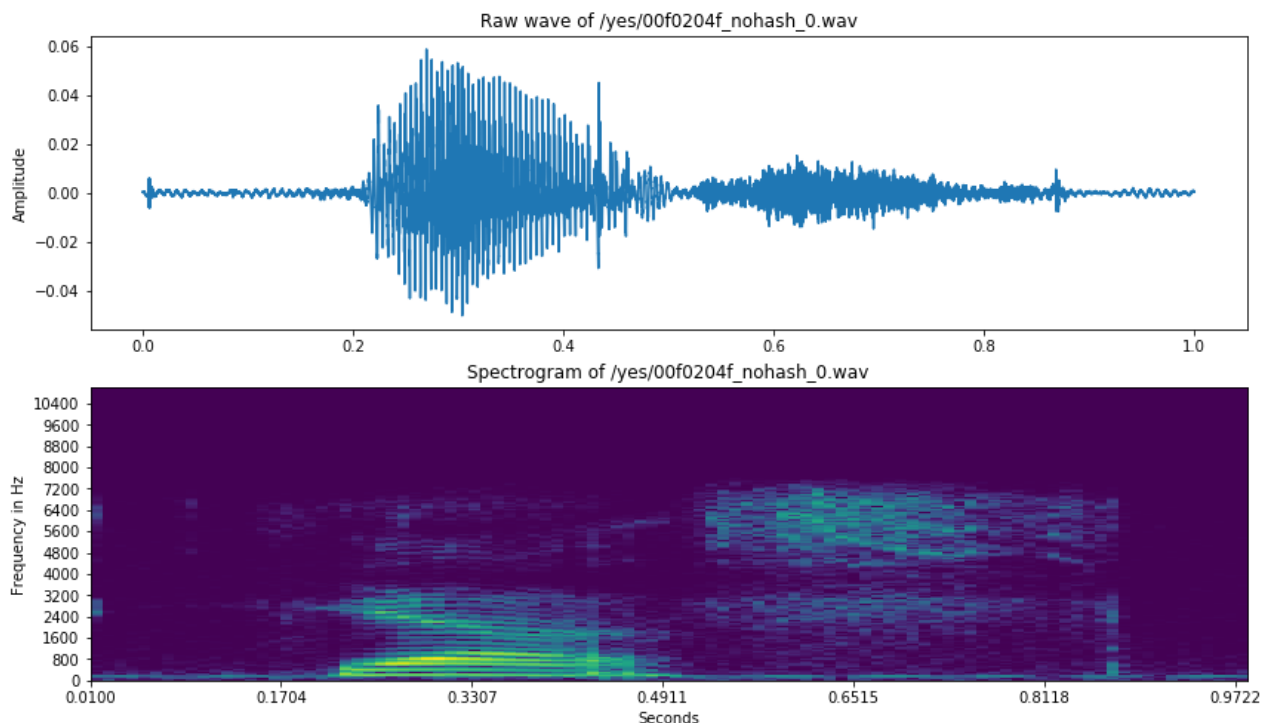Frequencies are in range (0, 8000) according to Nyquist theorem.

Let's plot it:

In [17]:
```
freqs, times, spectrogram = log_specgram(samples, sample_rate)

fig = plt.figure(figsize=(14, 8))
plot1 = fig.add_subplot(211)
plot1.set_title('Raw wave of ' + filename)
plot1.set_ylabel('Amplitude')
plot1.plot(np.linspace(0, sample_rate/len(samples), sample_rate), samples)

plot2 = fig.add_subplot(212)
plot2.imshow(spectrogram.T, aspect='auto', origin='lower',
            extent=[times.min(), times.max(), freqs.min(), freqs.max()])
plot2.set_yticks(freqs[::16])
plot2.set_xticks(times[::16])
plot2.set_title('Spectrogram of ' + filename)
plot2.set_ylabel('Frequency in Hz')
plot2.set_xlabel('Seconds')
```

Out[17]: Text(0.5, 0, 'Seconds')

Normalizing the audio data, always a good plan if we gonna feed it into NN.

In [18]:
```
mean = np.mean(spectrogram, axis=0)
std = np.std(spectrogram, axis=0)
spectrogram = (spectrogram - mean) / std
```

There is an interesting fact to point out. We have ~160 features for each frame, frequencies are

between 0 and 8000. It means, that one feature corresponds to 50 Hz. However, frequency resolution of the ear is 3.6 Hz within the octave of 1000 – 2000 Hz. It means, that people are far more precise and can hear much smaller details than those represented by spectrograms like above.
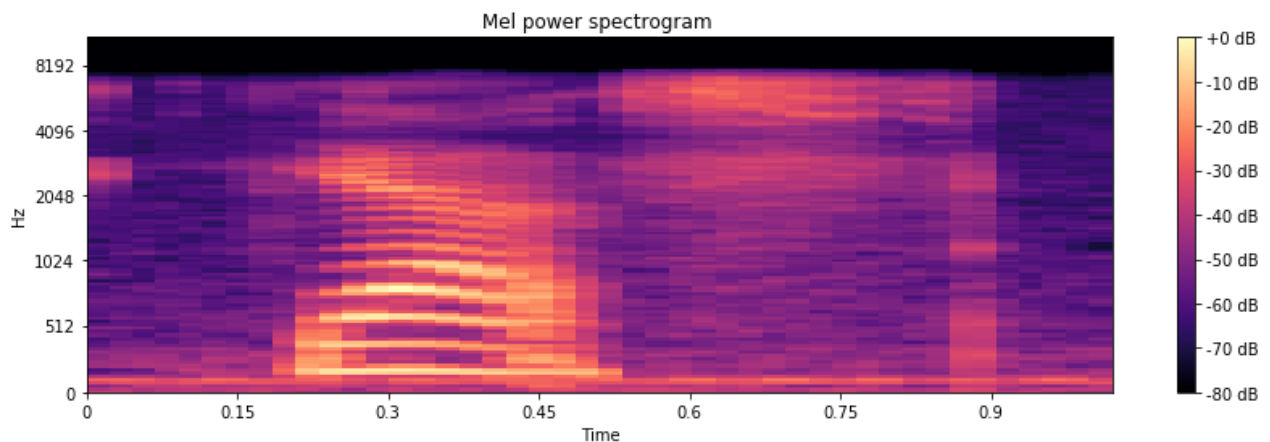
1.2 MFCC

If you want to get to know some details about MFCC take a look at this great tutorial. You can see, that it is well prepared to imitate human hearing properties.

You can calculate Mel power spectrogram and MFCC using for example librosa python package.

In [19]:
```python
# From this tutorial
# https://github.com/librosa/librosa/blob/master/examples/LibROSA%20demo.ipynb
S = librosa.feature.melspectrogram(samples, sr=sample_rate, n_mels=128)

# Convert to log scale (dB). Using the peak power (max) as reference.
log_S = librosa.power_to_db(S, ref=np.max)

plt.figure(figsize=(12, 4))
librosa.display.specshow(log_S, sr=sample_rate, x_axis='time', y_axis='mel')
plt.title('Mel power spectrogram ')
plt.colorbar(format='%+02.0f dB')
plt.tight_layout()
```
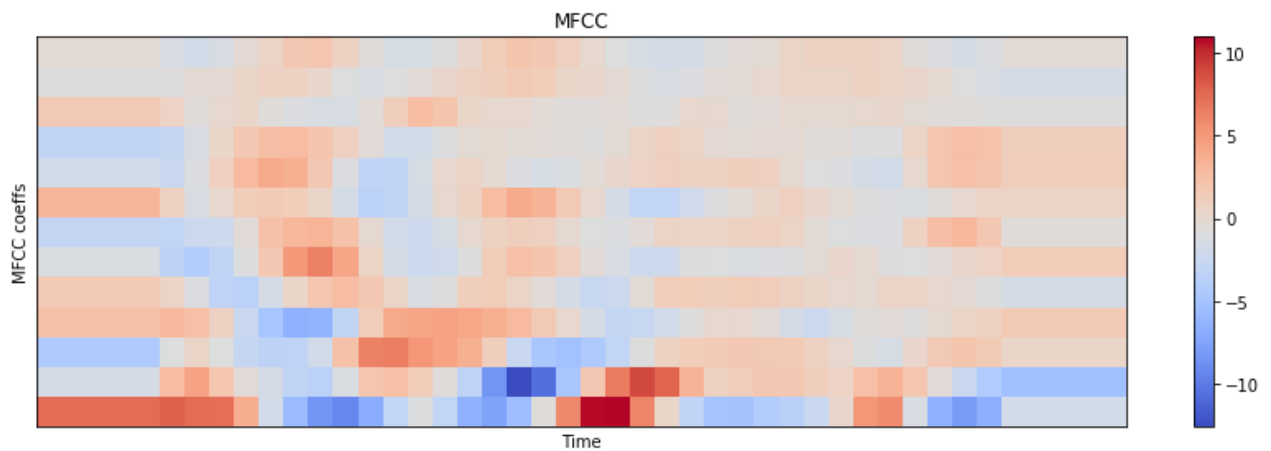

Now delta- mfcc

In [20]:
```python
mfcc = librosa.feature.mfcc(S=log_S, n_mfcc=13)

# Let's pad on the first and second deltas while we're at it
delta2_mfcc = librosa.feature.delta(mfcc, order=2)

plt.figure(figsize=(12, 4))
librosa.display.specshow(delta2_mfcc)
plt.ylabel('MFCC coeffs')
plt.xlabel('Time')
plt.title('MFCC')
plt.colorbar()
plt.tight_layout()
```

In classical, but still state-of-the-art systems, MFCC or similar features are taken as the input to the system instead of spectrograms.

However, in end-to-end (often neural-network based) systems, the most common input features are probably raw spectrograms, or mel power spectrograms. For example MFCC decorrelates features, but NNs deal with correlated features well. Also, if you'll understand mel filters, you may consider their usage sensible.

It is your decision which to choose!

1.3 Silence Removal

In [21]:
```python
samples_cut = samples[4000:13000]
ipd.Audio(samples_cut, rate=sample_rate)
```

Out[21]:

        0:00 / 0:00

We can agree that the entire word can be heard. It is impossible to cut all the files manually and do this basing on the simple plot. But you can use for example webrtcvad package to have a good VAD.

Let's plot it again, together with guessed alignment of 'y' 'e' 's' graphems

In [24]:
```python
freqs, times, spectrogram_cut = log_specgram(samples_cut, sample_rate)

fig = plt.figure(figsize=(14, 8))
plot1 = fig.add_subplot(211)
plot1.set_title('Raw wave of ' + filename)
plot1.set_ylabel('Amplitude')
plot1.plot(samples_cut)

plot2 = fig.add_subplot(212)
plot2.set_title('Spectrogram of ' + filename)
plot2.set_ylabel('Frequencies * 0.1')
plot2.set_xlabel('Samples')
plot2.imshow(spectrogram_cut.T, aspect='auto', origin='lower',
            extent=[times.min(), times.max(), freqs.min(), freqs.max()])
plot2.set_yticks(freqs[::16])
```
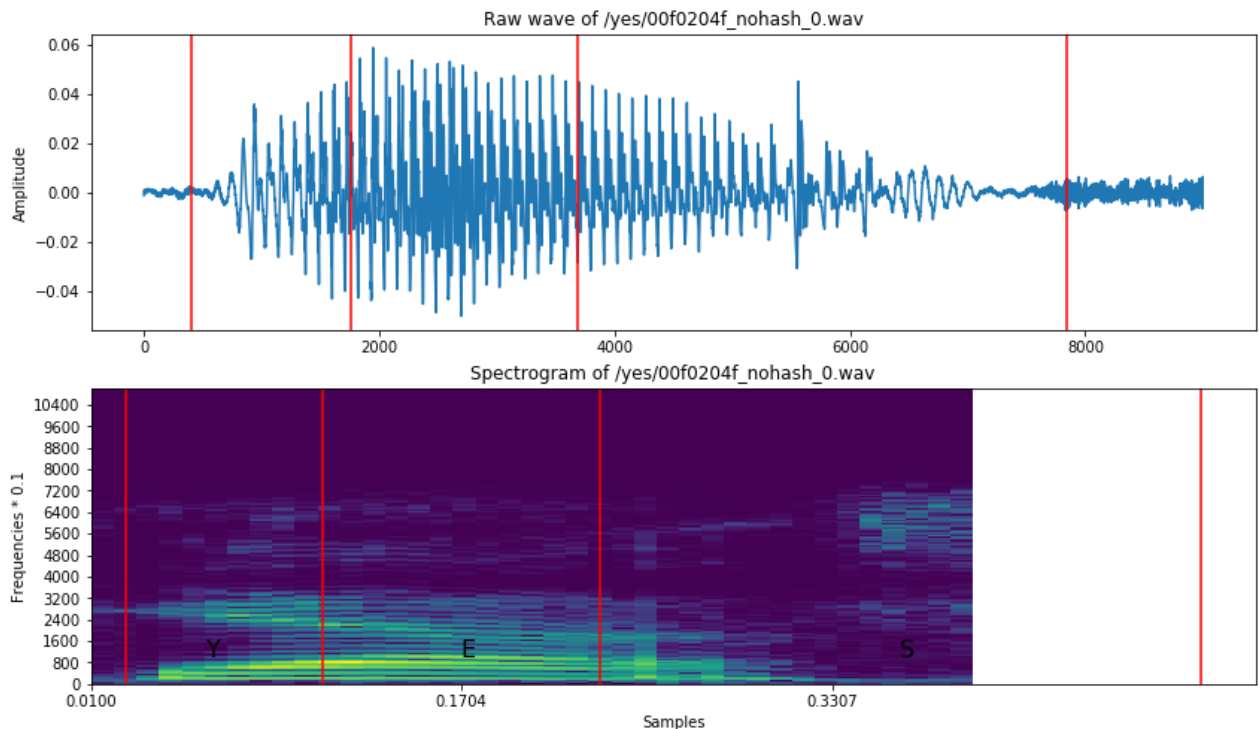
```
plot2.set_xticks(times[::16])
plot2.text(0.06, 1000, 'Y', fontsize=16)
plot2.text(0.17, 1000, 'E', fontsize=16)
plot2.text(0.36, 1000, 'S', fontsize=16)

xcoords = [0.025, 0.11, 0.23, 0.49]
for xc in xcoords:
    plot1.axvline(x=xc*16000, c='r')
    plot2.axvline(x=xc, c='r')
```


Raw wave of /yes/00f0204f_nohash_0.wav

Spectrogram of /yes/00f0204f_nohash_0.wav

1.4 Features extraction steps

A generalized feature extraction algorithm for an audio data sample is like:

```
1. Resampling
2. VAD
3. Maybe padding with 0 to make signals be equal length
4. Log spectrogram (or MFCC, or PLP)
5. Features normalization with mean and std
6. Stacking of a given number of frames to get temporal information
```

Though it can't be done in notebook. It has not much sense to write things from zero, and everything is ready to take, but in packages, that cannot be imported in Kernels.

2. Voice Activity Detection (VAD)

Using the webrtcvad library to identify segments as speech or not

In [25]:
```
!pip install webrtcvad
```

```
Collecting webrtcvad
  Downloading https://files.pythonhosted.org/packages/89/34/e2de2d97f3288512b9ea56f92e74
52f8207eb5a0096500badf9dfd48f5e6/webrtcvad-2.0.10.tar.gz (66kB)
    |████████████████████████████| 71kB 929kB/s eta 0:00:01
Building wheels for collected packages: webrtcvad
  Building wheel for webrtcvad (setup.py) ... done
  Created wheel for webrtcvad: filename=webrtcvad-2.0.10-cp36-cp36m-linux_x86_64.whl siz
e=80370 sha256=9805536e673d1fd7b4c5b8d11cafc2c025c012f48057164b7547a30e078cb583
  Stored in directory: /root/.cache/pip/wheels/44/2a/18/bd1aec41cac7c3051fe95d92a6ed4461
22ea31dc713c432fa1
Successfully built webrtcvad
Installing collected packages: webrtcvad
Successfully installed webrtcvad-2.0.10
```

In [26]:
```python
import webrtcvad
```

Reading the samples and sample_rate feature again to make them compatible with the webrtcvad library.

It reads at sample_rate = 16000, 32000, 48000; but we had sample_rate = 22050 with librosa.

In [27]:
```python
sample_rate, samples = wavfile.read(str(train_audio_path) + filename)
```

In [28]:
```python
vad = webrtcvad.Vad()

# set aggressiveness from 0 to 3
vad.set_mode(3)
```

Convert samples to raw 16 bit/sample stream needed by webrtcvad(there are other options available too , like 32)

In [29]:
```python
import struct
raw_samples = struct.pack("%dh" % len(samples), *samples)
```

2.1 run the detector on windows of 30 ms

[example here](#)

In [30]:
```python
window_duration = 0.03 # duration in seconds

samples_per_window = int(window_duration * sample_rate + 0.5)

bytes_per_sample = 2
```

2.2 Detect Speech instances in an audio

In [31]:
```python
segments = []

for start in np.arange(0, len(samples), samples_per_window):
    stop = min(start + samples_per_window, len(samples))

    is_speech = vad.is_speech(raw_samples[start * bytes_per_sample: stop * bytes_per_sa
```

```
                                    sample_rate = sample_rate)

        segments.append(dict(
            start = start,
            stop = stop,
            is_speech = is_speech))
```
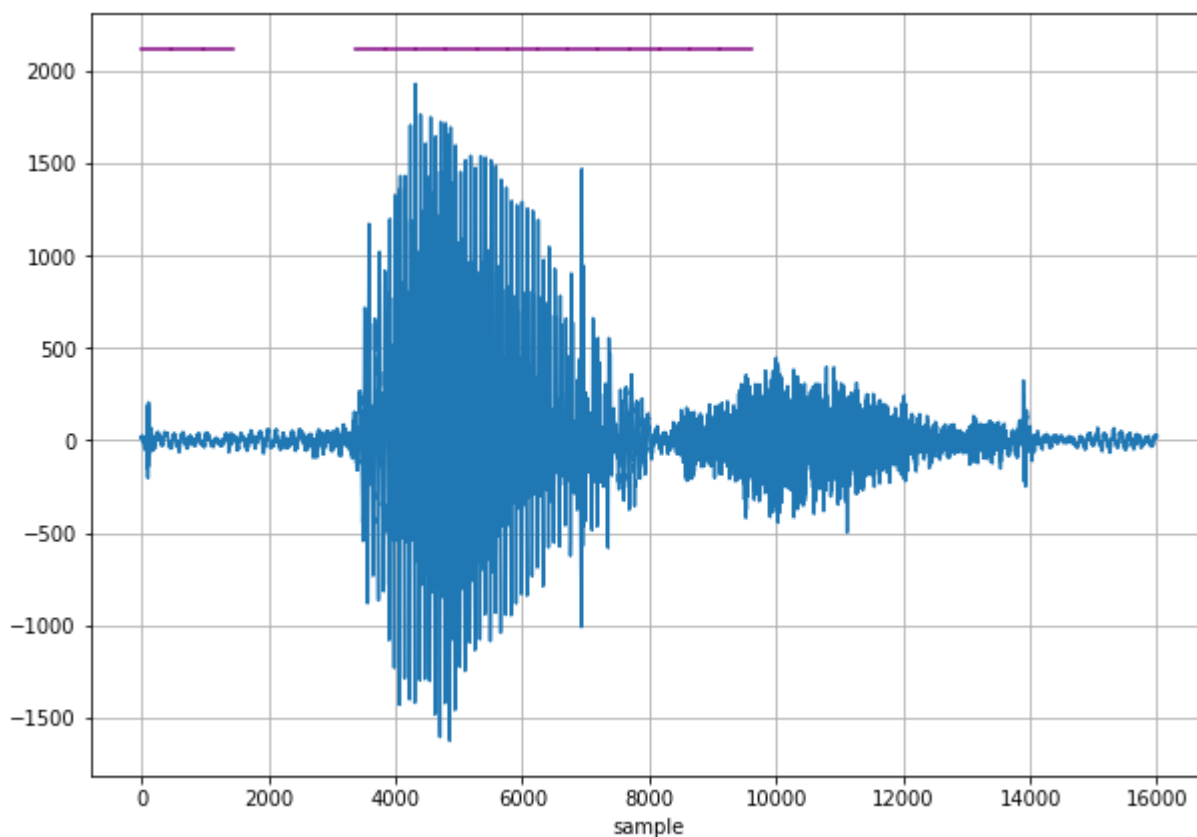
2.3 Plotting the range of samples identified as speech in purple

In [34]:
```python
plt.figure(figsize = (10,7))
plt.plot(samples)

ymax = max(samples)


# plot segment identifed as speech
for segment in segments:
    if segment['is_speech']:
        plt.plot([ segment['start'], segment['stop'] - 1], [ymax * 1.1, ymax * 1.1], co

plt.xlabel('sample')
plt.grid()
```


3. Listen to the speech only segments

In [35]:
```python
speech_samples = np.concatenate([ samples[segment['start']:segment['stop']] for segment
```

```
import IPython.display as ipd
ipd.Audio(speech_samples, rate=sample_rate)
```

Out[35]:

0:00 / 0:00

Till now we have processed for a single audio of any one word : YES here.

Now, its time to have an overall view on other words also. So, lets visualize frequency components for other words as well.

4. Frequency components across the words

Plotting for first 8 words only to avoid clumsy tight plots.

In [38]:
```python
def violinplot_frequency(dirs, freq_ind):
    """ Plot violinplots for given words (waves in dirs) and frequency freq_ind
    from all frequencies freqs."""

    spec_all = []   # Contain spectrograms
    ind = 0
    # taking first 8 words only to keep the plots clean and unclumsy.
    for direct in dirs[:8]:
        spec_all.append([])

        waves = [f for f in os.listdir(join(train_audio_path, direct)) if
                    f.endswith('.wav')]
        for wav in waves[:100]:
            sample_rate, samples = wavfile.read(
                train_audio_path + '/' + direct + '/' + wav)
            freqs, times, spec = log_specgram(samples, sample_rate)
            spec_all[ind].extend(spec[:, freq_ind])
        ind += 1

    # Different lengths = different num of frames. Make number equal
    minimum = min([len(spec) for spec in spec_all])
    spec_all = np.array([spec[:minimum] for spec in spec_all])

    plt.figure(figsize=(13,7))
    plt.title('Frequency ' + str(freqs[freq_ind]) + ' Hz')
    plt.ylabel('Amount of frequency in a word')
    plt.xlabel('Words')
    sns.violinplot(data=pd.DataFrame(spec_all.T, columns=dirs[:8]))
    plt.show()
```
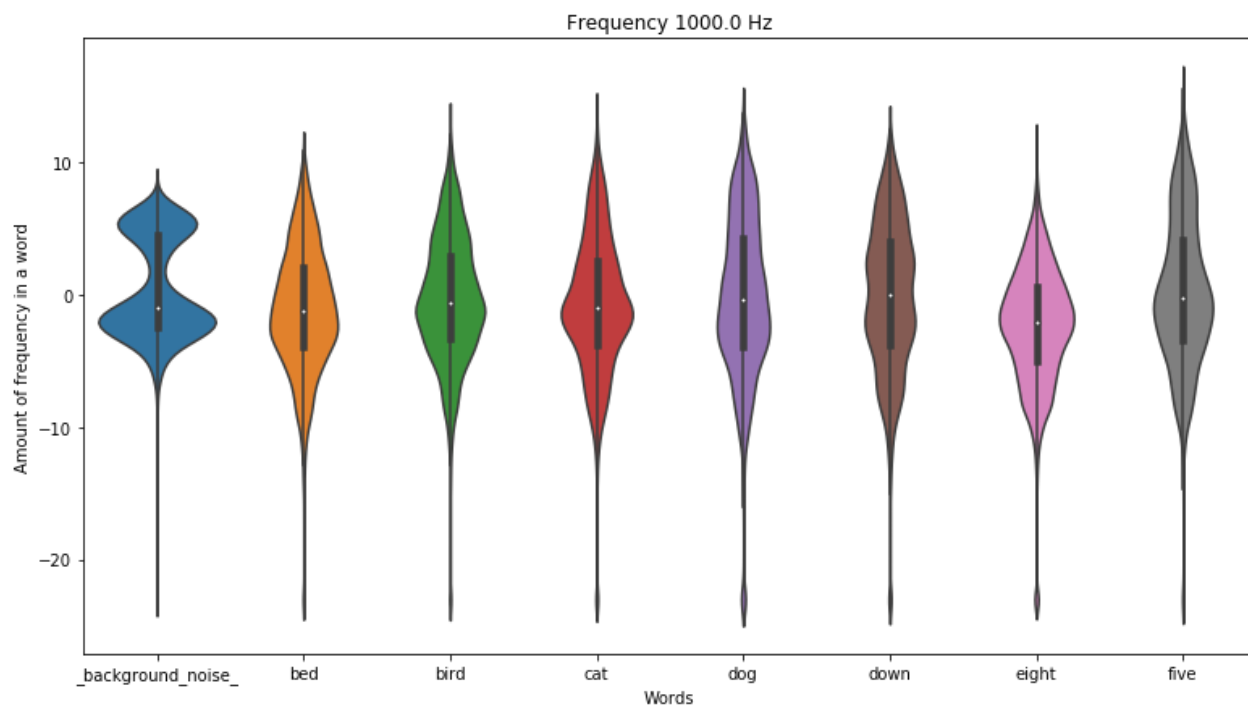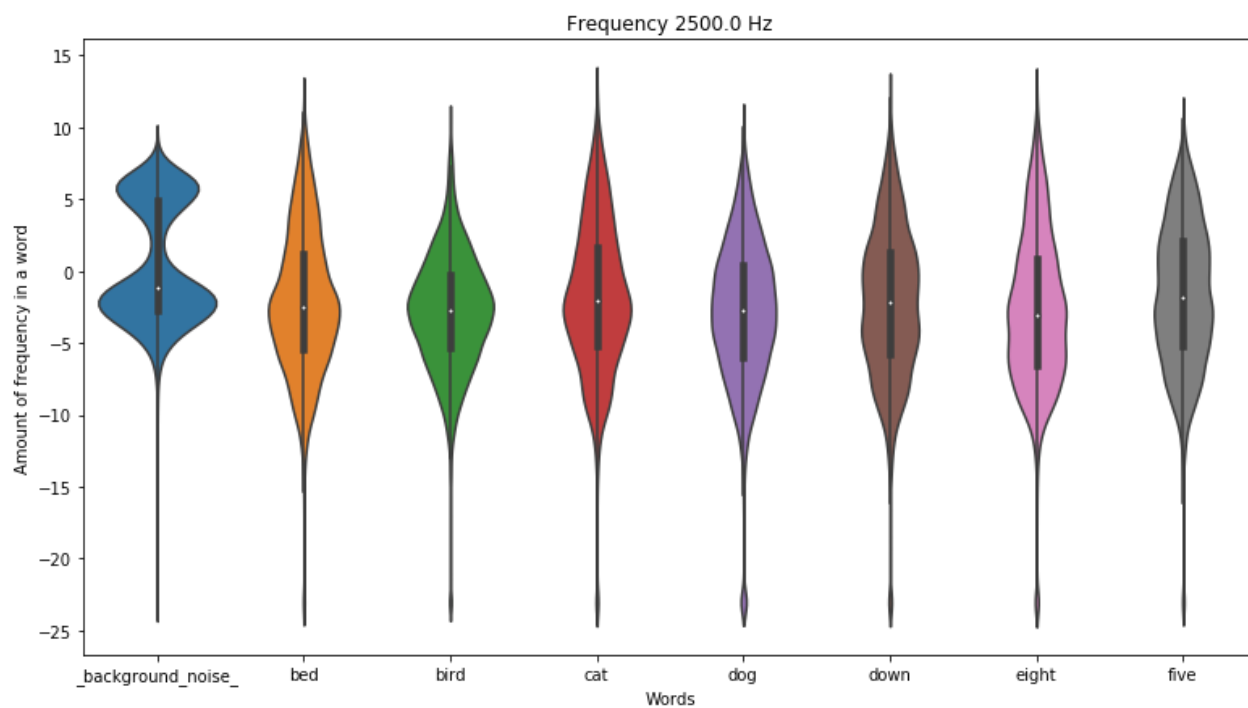
In [39]:
```python
violinplot_frequency(dirs, 20)
```

Frequency 1000.0 Hz

```
In [40]:   violinplot_frequency(dirs, 50)
```


Frequency 2500.0 Hz

```
In [41]:   violinplot_frequency(dirs, 120)
```

Frequency 6000.0 Hz