# Voice recognition/command on a Raspberry Pi.

Plug in a USB audio mic.

Increase mic volume for USB device to full using.

```
alsamixer
```

(F6 to change to USB device and arrow keys move across to Mic and up arrow increases volume to full, Esc to quit)

Make a test recording:

```
arecord -D plughw:1,0 -f S16_LE test.wav
```

CTRL-C to quit.

```
aplay test.wav
```

Sign up to Google cloud platform for free at https://console.cloud.google.com/start

Google Cloud Speech API → go to Credenitials tab -> Create Credentials -> API Key -> cut and paste your API key for use in speechAnalyser.py later.

```
sudo apt-get install mplayer
sudo apt-get install sox
sudo apt-get install flac
sudo apt-get install python-pycurl
sudo apt-get install python-pip
sudo pip install feedparser
sudo pip install yahoo-finance
```

While in folder /home/pi pull ZIP file from our server with:

```
wget www.securipi.co.uk/vr.zip
unzip vr.zip
chmod a+x speech.sh
```

Edit speechAnalyser.py so it contains your Google Cloud Speech API key

```
nano speechAnalyser.py
```

Save it and exit. Run it while connected to the internet

```
python speechAnalyser.py
```

Say the trigger word "oscar", wait for a beep, and then say either "news, weather, shares, time, light on, light off, or flatter me".

Search for stock/share symbols at https://uk.finance.yahoo.com/lookup/ and edit getShares.py