

## Resources for Speech Recognition:

Objects: <https://www.geeksforgeeks.org/python-object/>

- We create Microphone and Recognizer objects which have special abilities such as picking up audio and creating audio variables

PyAudio: <https://pypi.org/project/PyAudio/>

- Allows for use of microphones rather than relying on audio files

SpeechRecognition (Official Site): <https://pypi.org/project/SpeechRecognition/>

- Official website to download speech recognition libraries in order to interpret audio

Individual Setup: <https://realpython.com/python-speech-recognition/#the-recognizer-class>

- Also goes slightly more in-depth as to what each function/method/instance does

## Download the following using the Terminal:

- pip : [package installer](#)
- pip3 install PyAudio : (if it gives you an error but you are only using audio files, don't worry too much about it)
- pip3 install SpeechRecognition

## Notes:

- Audio files must be .wav
- After downloading the script, make sure your audio file has name "audio.wav" or "audio"
- This script does not include error checking but only prints out the words it recognizes from the file