

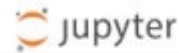
Voice to Text

1. Purpose of the experiment

Realize voice-to-text conversion. (This experiment requires an internet connection to proceed!)

2. Experimental path source code

Enter the dog's system, end the dog program, enter "ip (ip is the dog's ip): 8888" in the browser, enter the password "yahboom"



Password:

and log in. Enter the path of `cd ~/DOGZILLA_Lite_class/2.Base Control/05.speech to text` and run `dog_speech_text.ipynb`.

3. Experimental Phenomenon

After running the code, the dog will recognize the spoken text based on the recorded audio. Try to record in a quiet environment and use standard Mandarin. (This experiment requires an Internet connection to be carried out!)

```
dog_speech_text.ipynb
[1]: #导入xgoedu #Import xguodu
    from xgoedu import XGOEDU
    #实例化edu #Instantiate edu
    XGO_edu = XGOEDU()

[2]: #识别说话的声音 (需要网络) #Identify the voice of speech (Requires network)
    XGO_edu.SpeechRecognition(seconds=3)

    sudo arecord -d 3 -f S32_LE -r 8000 -c 1 -t wav /home/pi/xgoMusic/recog.wav
    Recording WAVE '/home/pi/xgoMusic/recog.wav' : Signed 32 bit Little Endian, Rate 8000 Hz, Mono
    Request time cost 1.131601

[2]: 'Hello hello hello.'
```

4. Main source code analysis

XGO_edu.SpeechRecognition(seconds=3) SpeechRecognition: recording audio duration function, input parameter: the time to be recorded

