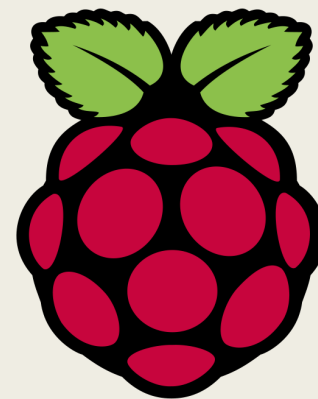


語音辨識

朱克剛



安裝函數庫（僅支援到Python3.6）

■ 樹莓派

- `$ sudo pip install SpeechRecognition`
- `$ sudo apt-get install python-pyaudio`
- `$ sudo apt-get install flac`

■ Mac OS

- `$ sudo pip install SpeechRecognition`
- `$ brew install PortAudio`
- `$ sudo pip install PyAudio`

■ Windows

- `pip install SpeechRecognition`
- `pip install PyAudio`

安裝失敗時 - 記憶體不足

- `$ sudo vi /etc/dphys-swapfile`
 - 找到 `CONF_SWAPSIZE=100` 改為 500
- 然後重開機

程式碼

```
#coding=utf-8
import speech_recognition as sr
bg_sound = 5

r = sr.Recognizer()
# 從麥克風取得聲音訊號
with sr.Microphone() as source:
    print("環境聲音偵測中，請等{0}秒。".format(bg_sound))
    r.adjust_for_ambient_noise(source, duration=bg_sound)
    print("現在開始說些什麼...")
    audio = r.listen(source)
try:
    text = r.recognize_google(audio, language="zh-TW")
    print("Google的辨識結果為：")
    print(text)
except sr.UnknownValueError:
    print("Google聽不懂你說什麼。")
except sr.RequestError as e:
    print("Google辨識引擎無回應，錯誤訊息為： {0}".format(e))
```

alsa.conf

- 聲音設定檔
 - */usr/share/alsa/alsa.conf*