Raspberry Pi

Speech Recognition

附加材料

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Play MP3

Raspbian comes with its own media player:

```
$ omxplayer song.mp3
```

Another alternative:

```
$ sudo apt-get install mplayer
$ mplayer song.mp3
```

mplayer is interactive. Press:

- **p** to pause
- **9/0** to decrease/increase volume
- **q** to quit

espeak

Another **text-to-speech engine**. Compare its
speech quality with **pico**.


```
$ sudo apt-get install espeak
$ espeak -w abc.wav "Good morning. How are you today?"
$ aplay abc.wav
```


espeak may not sound as nice as pico, but it can
be made to speak Mandarin or Cantonese. To check
what languages are available:

```
$ espeak --voices
```

espeak Chinese

Bad news: although supporting Mandarin and Cantonese, it cannot speak them right away. You need some extra steps:

1. Download espeak's source code:

    http://espeak.sourceforge.net/download.html

Unzip it. Find **dictsource** directory inside.

2. Download additional language data:

    http://espeak.sourceforge.net/data/

Unzip it. Find **zhy_list** (Cantonese) or **zh_listx** (Mandarin).

To speak **Cantonese**:

```
$ cd /path/to/dictsource
$ cp /path/to/zhy_list .
$ sudo espeak --compile=zhy
$ espeak -w abc.wav -vzhy "你好嗎？今天天氣很和暖"
$ aplay abc.wav
```

To speak **Mandarin**:

```
$ cd /path/to/dictsource
$ cp /path/to/zh_listx .
$ sudo espeak --compile=zh
$ espeak -w abc.wav -vzh "你好嗎？今天天氣很和暖"
$ aplay abc.wav
```