

Raspberry Pi

Voice Control

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

Sound forwarding via SSH

A fun thing you can do is to redirect the microphone on one computer and listen to it on another computer.

First, download the OGG encoder:

```
$ sudo apt-get install vorbis-tools
```

Then, you can **arecord** the sound, **OGG-encode** it, and send it over SSH to play it on the other end using **mplayer**:

```
$ arecord -D plughw:1,0 -f cd -t raw | oggenc -  
-r | ssh <user>@<remotehost> mplayer -
```

Reference:

<http://unix.stackexchange.com/questions/116919/redirect-sound-microphone-via-ssh-how-to-telephone-via-ssh>

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 -D plughw:0,0 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
```

Other alternatives

- Ekho
- 中文大學「悠揚」語音合成系統 (CU Vocal)
<http://sepc495.se.cuhk.edu.hk/cuvocal/>
- Google translate