

如何安装虚拟键盘

本安装教程使用“2016-05-27-raspbian-jessie”版本进行测试，如使用 wheezy 或更早版本镜像，则第 5、6 步所述文件路径有差异，具体请参考 virtual-keyboard 官方安装教程。

官方参考地址（英文）

<http://ozzmaker.com/virtual-keyboard-for-the-raspberry-pi/>

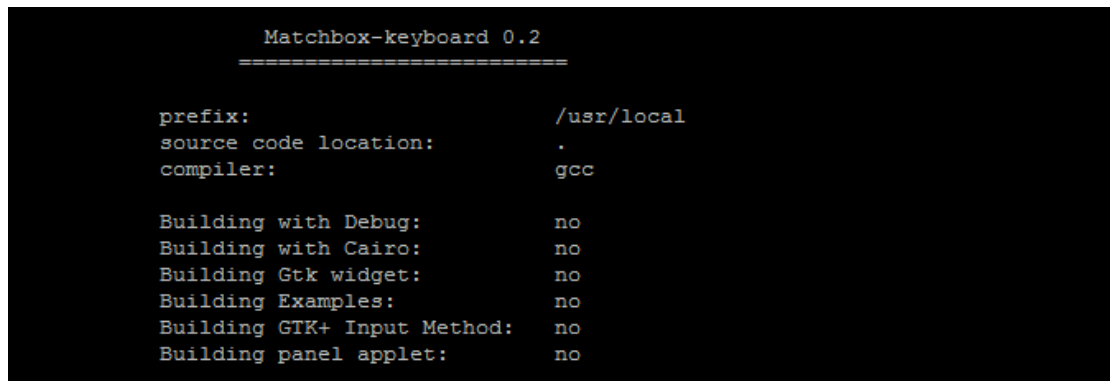
1、安装必需文件

```
sudo apt-get update
sudo apt-get install libfakekey-dev libpng-dev autoconf libxft-dev libtool automake -y
```

2、安装编译虚拟键盘 matchbox-keyboard

```
git clone https://github.com/mwilliams03/matchbox-keyboard.git
cd matchbox-keyboard
./autogen.sh
```

(注意：“./autogen.sh”执行时间较长约几分钟，正确执行后显示界面如下，如执行完不出现类似以下界面则需检查是否有 error 提示项)



```
Matchbox-keyboard 0.2
=====
prefix:                               /usr/local
source code location:                  .
compiler:                              gcc

Building with Debug:                   no
Building with Cairo:                   no
Building Gtk widget:                   no
Building Examples:                     no
Building GTK+ Input Method:            no
Building panel applet:                  no
```

接着执行:

```
sudo make
sudo make install
```

3、安装虚拟键盘所用的共享库

```
sudo apt-get install libmatchbox1
```

如下图

```
pi@raspberrypi:~$ sudo apt-get install libmatchbox1
Reading package lists... Done
Building dependency tree
Reading state information... Done
The following extra packages will be installed:
  libxsettings-client0
The following NEW packages will be installed:
  libmatchbox1 libxsettings-client0
0 upgraded, 2 newly installed, 0 to remove and 55 not upgraded.
Need to get 57.6 kB of archives.
After this operation, 126 kB of additional disk space will be used.
Do you want to continue? [Y/n] y
Get:1 http://mirrordirector.raspbian.org/raspbian/ jessie/main libxsettings-client0 armhf 0.17-6 [8,724 B]
Get:2 http://mirrordirector.raspbian.org/raspbian/ jessie/main libmatchbox1 armhf 1.9-osso8-3.1 [48.9 kB]
Fetched 57.6 kB in 1s (34.7 kB/s)
Selecting previously unselected package libxsettings-client0.
(Reading database ... 120276 files and directories currently installed.)
Preparing to unpack .../libxsettings-client0_0.17-6_armhf.deb ...
Unpacking libxsettings-client0 (0.17-6) ...
Selecting previously unselected package libmatchbox1:armhf.
Preparing to unpack .../libmatchbox1_1.9-osso8-3.1_armhf.deb ...
Unpacking libmatchbox1:armhf (1.9-osso8-3.1) ...
Setting up libxsettings-client0 (0.17-6) ...
Setting up libmatchbox1:armhf (1.9-osso8-3.1) ...
Processing triggers for libc-bin (2.19-18+deb8u4) ...
```

4、创建虚拟键盘启动脚本

```
sudo nano /usr/bin/toggle-matchbox-keyboard.sh
```

粘贴以下内容并按 **Ctrl + X** 和 **Y** 保存退出

```
#!/bin/bash
#This script toggle the virtual keyboard
PID=`pidof matchbox-keyboard`
if [ ! -e $PID ]; then
killall matchbox-keyboard
else
matchbox-keyboard -s 50 extended&
fi
```

给以上脚本增加可执行权限

```
sudo chmod +x /usr/bin/toggle-matchbox-keyboard.sh
```

5、把以上脚本增加到开始菜单

```
sudo nano /usr/share/applications/toggle-matchbox-keyboard.desktop
```

粘贴以下内容并按 **ctrl+x** 和 **y** 保存退出

```
[Desktop Entry]
Name=Toggle Matchbox Keyboard
Comment=Toggle Matchbox Keyboard
Exec=toggle-matchbox-keyboard.sh
Type=Application
Icon=matchbox-keyboard.png
Categories=Panel;Utility;MB
X-MB-INPUT-MECHANSIM=True
```

- 6、在任务栏上创建图标(注意该步骤必须使用"pi"用户权限，如果使用管理员权限，将找不到该文件)

```
nano ~/.config/lxpanel/LXDE-pi/panels/panel
```

- 7、找到类似以下命令(树莓派版本不同可能默认内容有差异)

```
Plugin {
  type=launchbar
  Config {
    Button {
      id=/usr/share/applications/lxde-x-www-browser.desktop
    }
    Button {
      id=/usr/share/raspi-ui-overrides/applications/pcmanfm.desktop
    }
    Button {
      id=/usr/share/raspi-ui-overrides/applications/lxterminal.desktop
    }
    Button {
      id=/usr/share/applications/wolfram-mathematica.desktop
    }
    Button {
      id=/usr/share/applications/wolfram-language.desktop
    }
  }
}
```

添加以下代码增加一个图标项

```
Button {
  id=toggle-matchbox-keyboard.desktop
}
```

修改完效果如下图所示:

```
Plugin {
  type=space
  Config {
    Size=8
  }
}
Plugin {
  type=launcher
  Config {
    Button {
      id=toggle-matchbox-keyboard.desktop
    }
    Button {
      id=/usr/share/applications/lxde-x-www-browser.desktop
    }
    Button {
      id=/usr/share/raspi-ui-overrides/applications/pcmanfm.desktop
    }
    Button {
      id=/usr/share/raspi-ui-overrides/applications/lxterminal.desktop
    }
    Button {
      id=/usr/share/applications/wolfram-mathematica.desktop
    }
    Button {
      id=/usr/share/applications/wolfram-language.desktop
    }
  }
}
Plugin {
  type=space
  Config {
    Size=8
  }
}
```

8、修改完后执行以下命令重启系统，正常可看到屏幕任务栏处多出了一个虚拟键盘图标

```
sudo reboot
```

P.S.通过 SSH 登陆如何改变虚拟键盘大小

```
DISPLAY=:0.0 matchbox-keyboard -s 50 extended
```

```
DISPLAY=:0.0 matchbox-keyboard -s 100 extended
```