

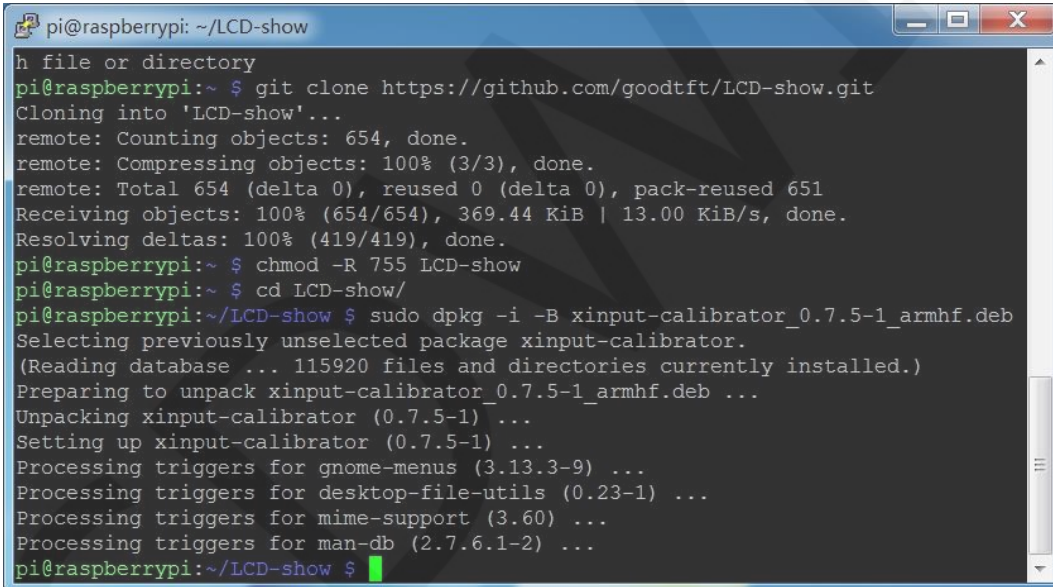
如何校准电阻触摸屏

(只适用于电阻触摸屏，电容触摸屏不适用)

1、安装 Xinput，在树莓派中执行下面的命令代码

(注意：本次安装需要树莓派连接网络)

```
sudo rm -rf LCD-show
git clone https://github.com/goodtft/LCD-show.git
chmod -R 755 LCD-show
cd LCD-show/
sudo dpkg -i -B xinput-calibrator_0.7.5-1_armhf.deb
```

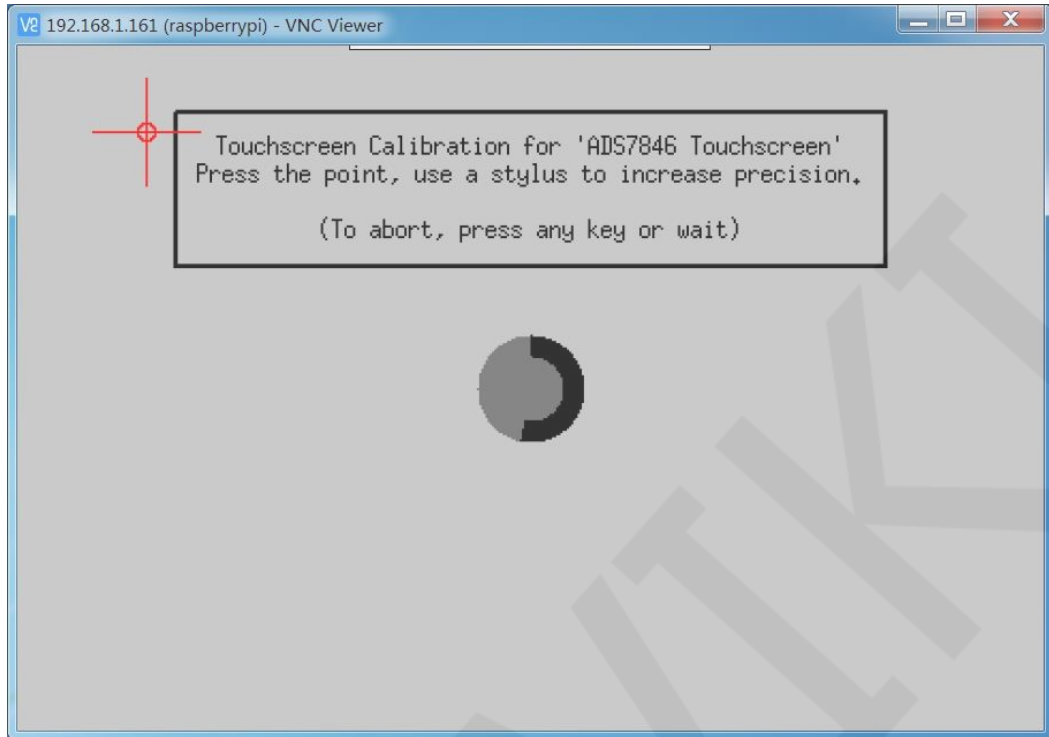


```
pi@raspberrypi: ~/LCD-show
h file or directory
pi@raspberrypi:~ $ git clone https://github.com/goodtft/LCD-show.git
Cloning into 'LCD-show'...
remote: Counting objects: 654, done.
remote: Compressing objects: 100% (3/3), done.
remote: Total 654 (delta 0), reused 0 (delta 0), pack-reused 651
Receiving objects: 100% (654/654), 369.44 KiB | 13.00 KiB/s, done.
Resolving deltas: 100% (419/419), done.
pi@raspberrypi:~ $ chmod -R 755 LCD-show
pi@raspberrypi:~ $ cd LCD-show/
pi@raspberrypi:~/LCD-show $ sudo dpkg -i -B xinput-calibrator_0.7.5-1_armhf.deb
Selecting previously unselected package xinput-calibrator.
(Reading database ... 115920 files and directories currently installed.)
Preparing to unpack xinput-calibrator_0.7.5-1_armhf.deb ...
Unpacking xinput-calibrator (0.7.5-1) ...
Setting up xinput-calibrator (0.7.5-1) ...
Processing triggers for gnome-menus (3.13.3-9) ...
Processing triggers for desktop-file-utils (0.23-1) ...
Processing triggers for mime-support (3.60) ...
Processing triggers for man-db (2.7.6.1-2) ...
pi@raspberrypi:~/LCD-show $
```

2、执行触摸校准命令

```
DISPLAY=:0.0 xinput_calibrator
```

此时屏幕会弹出触摸校准界面，依次用触摸笔点击四个校准点完成校准



校准完成后会显示新的触摸参数，（LCD 种类不同，校准次数不同，参数也会有所区别），如下图所示：

```
pi@raspberrypi: ~/LCD-show
Preparing to unpack xinput-calibrator 0.7.5-1_armhf.deb ...
Unpacking xinput-calibrator (0.7.5+git20140201-1) ...
Setting up xinput-calibrator (0.7.5+git20140201-1) ...
Processing triggers for man-db (2.7.6.1-2) ...
Processing triggers for gnome-menus (3.13.3-9) ...
Processing triggers for desktop-file-utils (0.23-1) ...
Processing triggers for mime-support (3.60) ...
pi@raspberrypi:~/LCD-show $ DISPLAY=:0.0 xinput_calibrator
Calibrating EVDEV driver for "ADS7846 Touchscreen" id=6
current calibration values (from XInput): min_x=140, max_x=3951 and min_y=261, max_y=3998

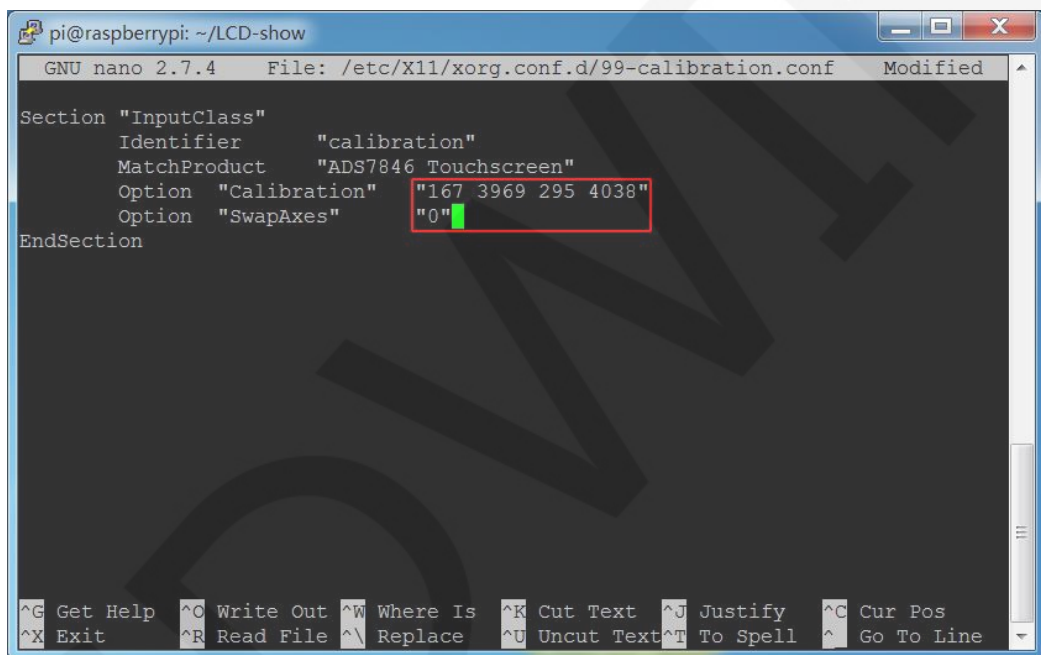
Doing dynamic recalibration:
Setting calibration data: 167, 3969, 295, 4038
--> Making the calibration permanent <--
copy the snippet below into '/etc/X11/xorg.conf.d/99-calibration.conf' (/usr/share/X11/xorg.conf.d/ in some distro's)
Section "InputClass"
    Identifier      "calibration"
    MatchProduct   "ADS7846 Touchscreen"
    Option "Calibration" "167 3969 295 4038"
    Option "SwapAxes" "0"
EndSection
pi@raspberrypi:~/LCD-show $
```

3、修改校准后的触摸参数并保存

3.1 执行下面的命令代码，打开 `99-calibration.conf` 文件

```
sudo nano /etc/X11/xorg.conf.d/99-calibration.conf
```

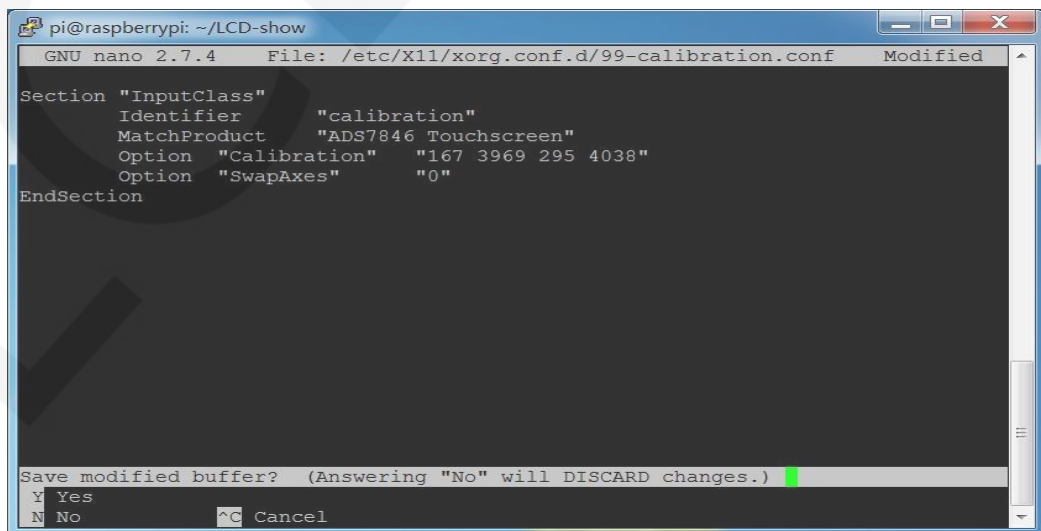
3.2 将校准后的触摸参数保存在 `99-calibration.conf` 文件中 按 `Ctrl+X` 键，退出；



```
pi@raspberrypi: ~/LCD-show
GNU nano 2.7.4 File: /etc/X11/xorg.conf.d/99-calibration.conf Modified
Section "InputClass"
  Identifier      "calibration"
  MatchProduct   "ADS7846 Touchscreen"
  Option "Calibration" "167 3969 295 4038"
  Option "SwapAxes" "0"
EndSection

^G Get Help  ^O Write Out  ^W Where Is  ^R Cut Text   ^J Justify   ^C Cur Pos
^X Exit      ^R Read File  ^\ Replace   ^U Uncut Text ^T To Spell  ^_ Go To Line
```

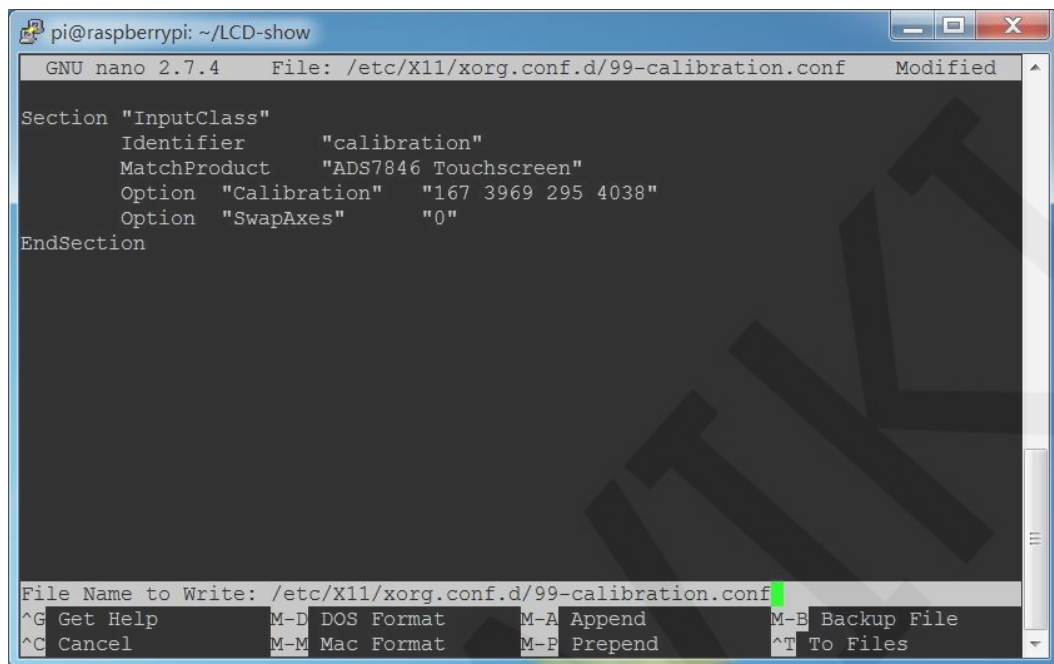
3.3 按 `Y` 键，确认保存；



```
pi@raspberrypi: ~/LCD-show
GNU nano 2.7.4 File: /etc/X11/xorg.conf.d/99-calibration.conf Modified
Section "InputClass"
  Identifier      "calibration"
  MatchProduct   "ADS7846 Touchscreen"
  Option "Calibration" "167 3969 295 4038"
  Option "SwapAxes" "0"
EndSection

Save modified buffer? (Answering "No" will DISCARD changes.)
Y Yes
N No      ^C Cancel
```

3.4 按 Enter 键，确认保存文件名；



```
pi@raspberrypi: ~/LCD-show
GNU nano 2.7.4 File: /etc/X11/xorg.conf.d/99-calibration.conf Modified
Section "InputClass"
    Identifier      "calibration"
    MatchProduct   "ADS7846 Touchscreen"
    Option "Calibration" "167 3969 295 4038"
    Option "SwapAxes" "0"
EndSection

File Name to Write: /etc/X11/xorg.conf.d/99-calibration.conf
^G Get Help      M-D DOS Format   M-A Append      M-B Backup File
^C Cancel        M-M Mac Format   M-P Prepend     ^T To Files
```

3.5 重新启动树莓派

```
sudo reboot
```