 BillyBlaze / **OctoPrint-TouchUI**

Setup: Boot to Browser (OctoPi or Jessie Light)

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This is a guide for Jessie Lite or OctoPi (0.13 and higher)

Follow this guide for Jessie Full.

It's not recommended to use a single-core Raspberry Pi with OctoPrint and a touchscreen. The single-core processor is only recommended for running OctoPrint. Attaching third-party equipment (e.g. camera or touchscreen) can result in failing prints or slow performance.

Before starting with this guide, make sure you've installed OctoPrint and installed TouchUI from the 'Plugins Manager'.

1. Make sure you've expanded your file system. **Note:** If you are using OctoPi, that has already been taken care of automatically on first boot, no need to do it manually.

2. Make sure you've your touchscreen working by installing the required drivers.

3. Make sure all packages are up-to-date:

   ```
   sudo apt-get update
   ```

4. Install all required packages:

   ```
   sudo apt-get install --no-install-recommends xinit xinput xserver-xorg xserver-xorg-
   video-fbdev x11-xserver-utils matchbox unclutter chromium-browser
   ```

5. Register your touchscreen to X11 by creating a new config:

   ```
   sudo nano /usr/share/X11/xorg.conf.d/99-fbdev.conf
   ```

   - If your touchscreen is connected with HDMI, paste the following code:
     Use this if you're using the Official Pi Touchscreen

     ```
     Section "Device"
       Identifier "touchscreen"
       Driver "fbdev"
       Option "fbdev" "/dev/fb0"
     EndSection
     ```

   - Otherwise, paste the following code:

     ```
     Section "Device"
       Identifier "touchscreen"
       Driver "fbdev"
       Option "fbdev" "/dev/fb1"
     EndSection
     ```

   Save and exit (`CTR-O` , `enter` and `CTR-X`)

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https://github.com/BillyBla

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note you can check the touchscreen mount name through `ls /dev | grep fb`. Ensure this
matches what you add in `99-fbdev.conf`

6. Allow X11 to run as anybody by running the following command:
   Ignore this step if it fails

```
sudo sed -i 's/allowed_users=console/allowed_users=anybody/' /etc/X11/Xwrapper.config
```

7. Get the TouchUI boot files:

```
git clone https://github.com/BillyBlaze/OctoPrint-TouchUI-autostart.git ~/TouchUI-
autostart/
```

8. Copy service file and register it as auto boot:

```
sudo cp ~/TouchUI-autostart/touchui.init /etc/init.d/touchui
sudo chmod +x /etc/init.d/touchui
sudo cp ~/TouchUI-autostart/touchui.default /etc/default/touchui
sudo update-rc.d touchui defaults
```

9. Test if your kernel can run Chromium by running the following command:

```
chromium-browser
```

   ○ If you get the following error, you need to upgrade your kernel to the latest version,
     [follow these extra steps](#).

```
/usr/lib/chromium-browser/chromium-browser: symbol lookup error:
/usr/lib/chromium-browser/chromium-browser: undefined symbol: mmal_vc_init_fd
```

   ○ The errors below are ok. So if you see these you can proceed to step 10:

```
/usr/bin/chromium-browser: line 138: lsb_release: command not found
/usr/bin/chromium-browser: line 139: lsb_release: command not found
bootstrap_helper: /usr/lib/chromium-browser/nacl_helper: Cannot open ELF file!
errno=2
[1:1:0605/122948.230046:ERROR:nacl_fork_delegate_linux.cc(315)] Bad NaCl helper
startup ack (0 bytes)
[3904:3904:0605/122948.236249:ERROR:browser_main_loop.cc(495)] Failed to put
Xlib into threaded mode.
[3904:3904:0605/122948.244840:ERROR:browser_main_loop.cc(272)] Gtk: cannot open
display:
```

10. Reboot

- Do **not** remove the directory `~/TouchUI-autostart` and if you change the path of this
  directory then edit the file `/etc/default/touchui` with the new path.

- Troubleshooting:

  ○ [Calibration](#)
  ○ [Inverted Axis](#)
  ○ [Webcam image not working](#)

Upgrading your kernel:

1. Run:

```
sudo apt-get upgrade
sudo apt-get install rpi-update
```

2. Run:

```
sudo rpi-update
```

3. Reboot:

```
sudo reboot
```

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