

## **Raspberry Pi setup for the Young Coders classroom (intermediate)**

Equipment you should have:

- Raspberry Pi, board and case
- power supply
- monitor and HDMI cable
- keyboard and USB connector
- mouse and connector
- SD card, with Raspian image
- Wifi dongle

Once the board is in its case and all the peripherals are plugged in, turn on the monitor. You should see the initial installation screen.

Setup:

- 1) Select only the first installation option, for 'Install Raspian' do not select any other options
- 2) Click the Install icon
- 3) If you get a popup asking if you want to overwrite the existing operating system, select YES. Move on to the next Raspberry Pi this initial installation step will take a few minutes.
- 4) When the installation step finishes you should see an 'OS Installed' message – click 'OK' to continue
- 5) Log in to the Wifi (icon on the upper righthand corner of the desktop)
- 6) Install the RPi IceWeasel browser:

Open a terminal by double clicking on either "LXTerminal" or "Root Terminal" icons or menu "Accessories -> LXTerminal" or "Accessories -> Root Terminal". Type the following commands in the terminal:

```
sudo apt-get update
sudo apt-get install iceweasel
```

Answer with a 'Yes' if asked about authorization or disk space.

After this sequence, the IceWeasel browser should be installed. It can be activated from the system menu "Internet -> Iceweasel".

7) When the desktop comes up, make the following localization changes:

Menu > Preferences > Keyboard & Mouse > Keyboard Layout

Country: United States  
Variant: English (US)

Menu > Preferences > Raspberry Pi Configuration

Locale:  
    Language: EN  
    Country: US  
Keyboard:  
    Country: United States  
    Variant: English (US)  
Timezone: US (Pacific)

Once all these preferences are saved, you will probably be asked to reboot.

8) Once the reboot is complete, make sure there are icons on the desktop for:

- Idle (Python 3)
- IceWeasel

9) For the intermediate class, there will be some thumb drives floating around with content that needs to be copied to the desktop – check with one of the organizers.

When you insert the thumb drive into one of the USB ports on the RPi, a file manager should open automatically to allow you to drag files to the desktop. (Once files are copied, there is an eject button on the upper right corner of the desktop to allow you to remove the drive safely.)

If you make a mistake and need to modify the configuration in some way, run this from the command line:

```
sudo raspiconfig
```

Additional docs: <https://www.raspberrypi.org/documentation/setup/>