

## **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) 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.

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

- Idle (Python 3
- Pygames
- Web Browser

7) 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.)

8) Log in to the Wifi (icon on the upper righthand corner of the desktop)

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/>