

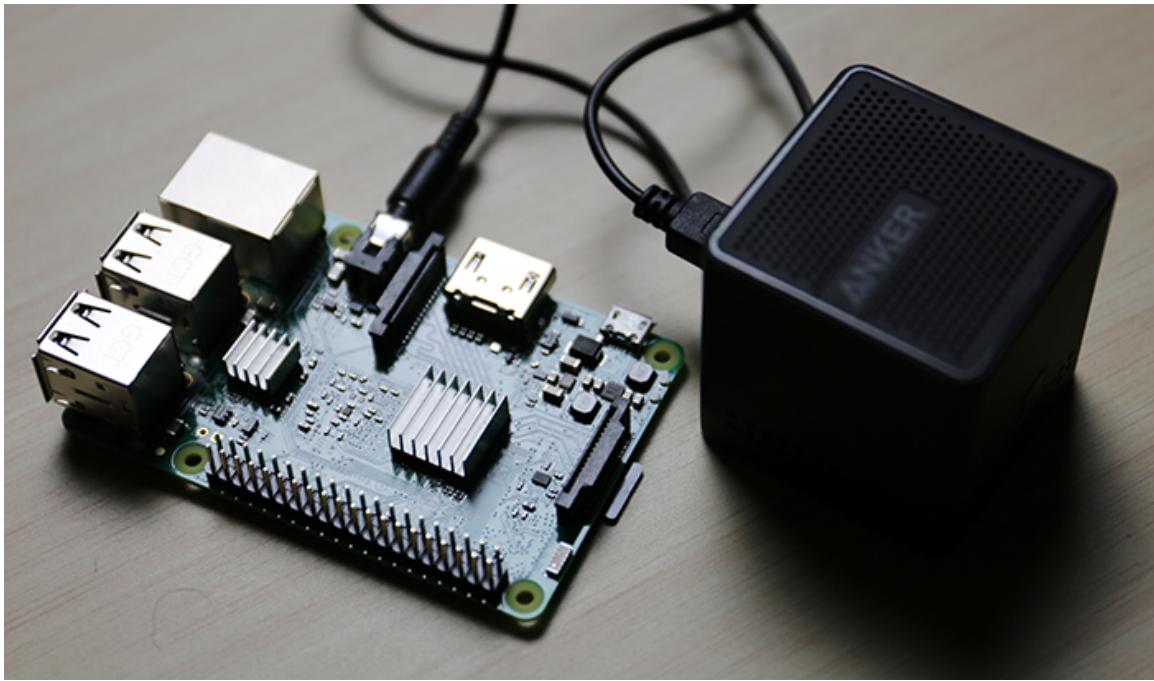
Assembling the Raspberry Pi

A. Speaker

1. Before assembling your Pi, start charging your speaker by connecting it to your laptop using the USB to micro-USB cable. The indicator light will be red during charging and blue when charging is complete.

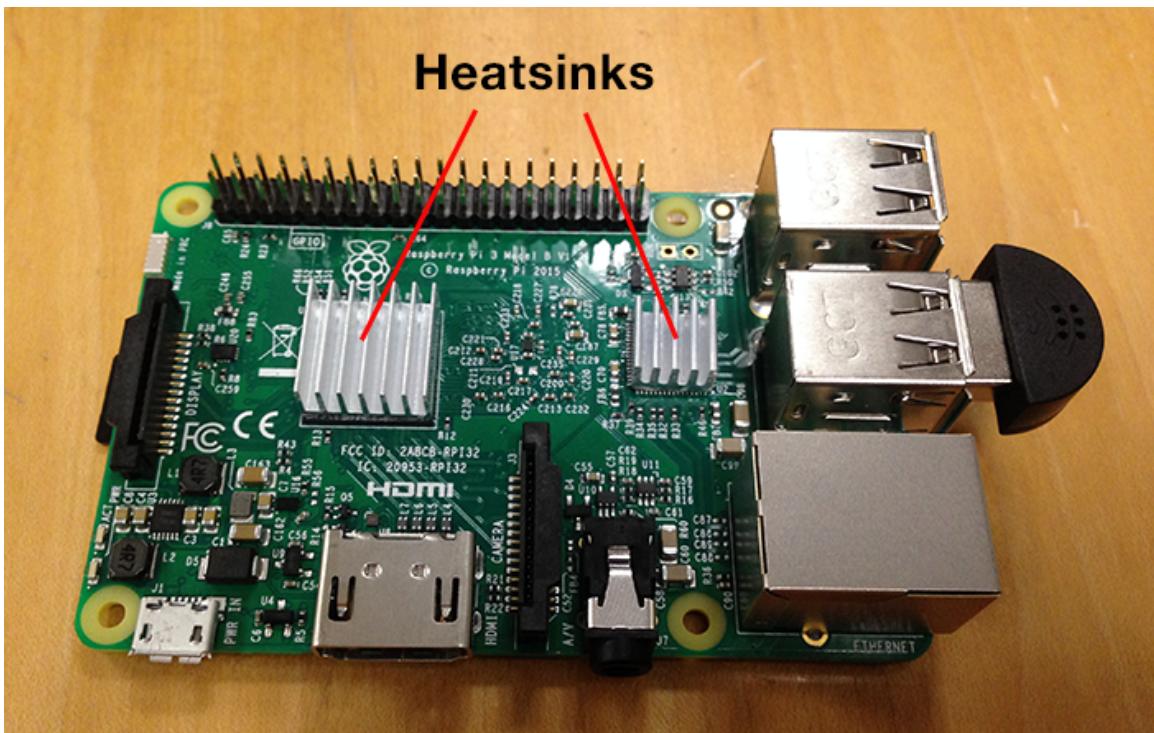


2. After charging your speaker, connect the speaker to your Pi using the 3.5mm audio cable.



B. Heat sinks

Place the two heat sinks on your Pi as shown in the diagram below.



C. Microphone

Plug the USB microphone into any one of the USB ports on your Pi.



D. Camera

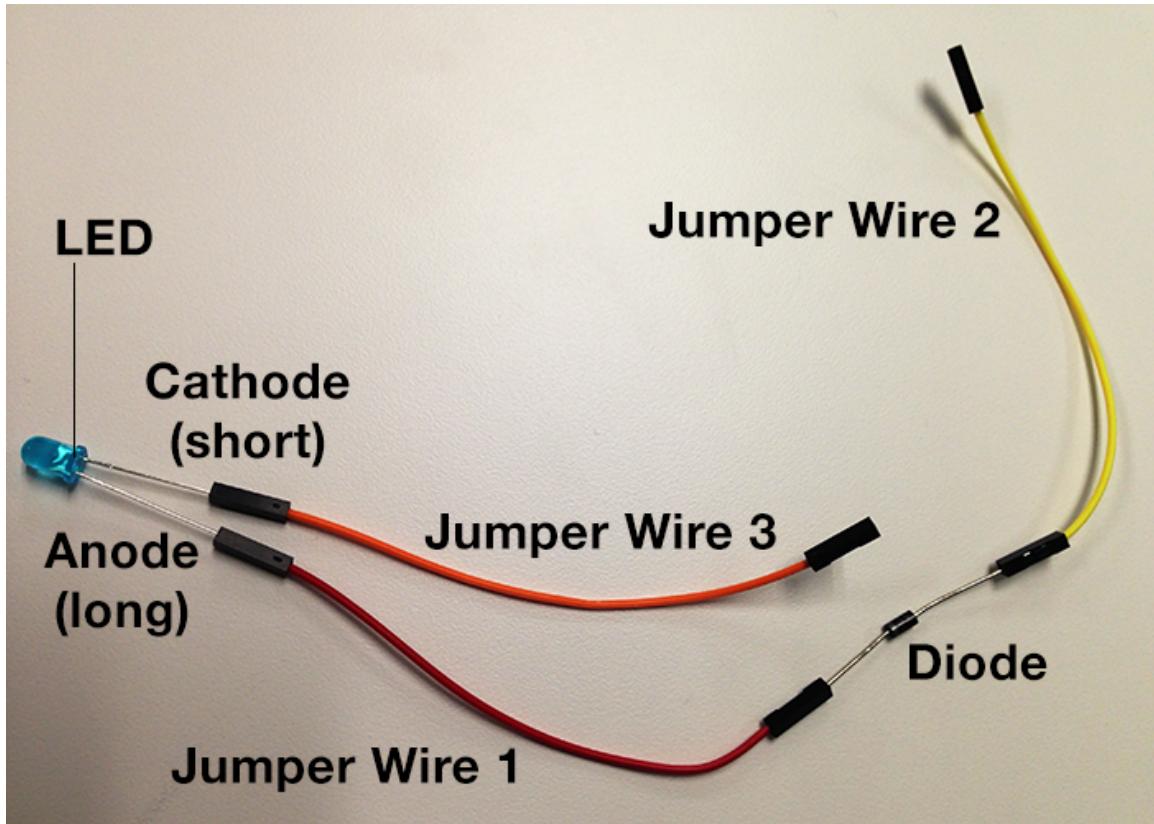
1. Locate the connector situated to the right of the HDMI port.
2. Pull the tabs on the top of the connector upwards then away from the HDMI port.
3. Insert the camera's flex cable firmly into the connector, with care taken not to bend the flex at too acute an angle.
4. The top part of the connector should then be pushed towards the HDMI port and down, while the flex cable is held in place.
5. Refer to the image below for a properly assembled camera.



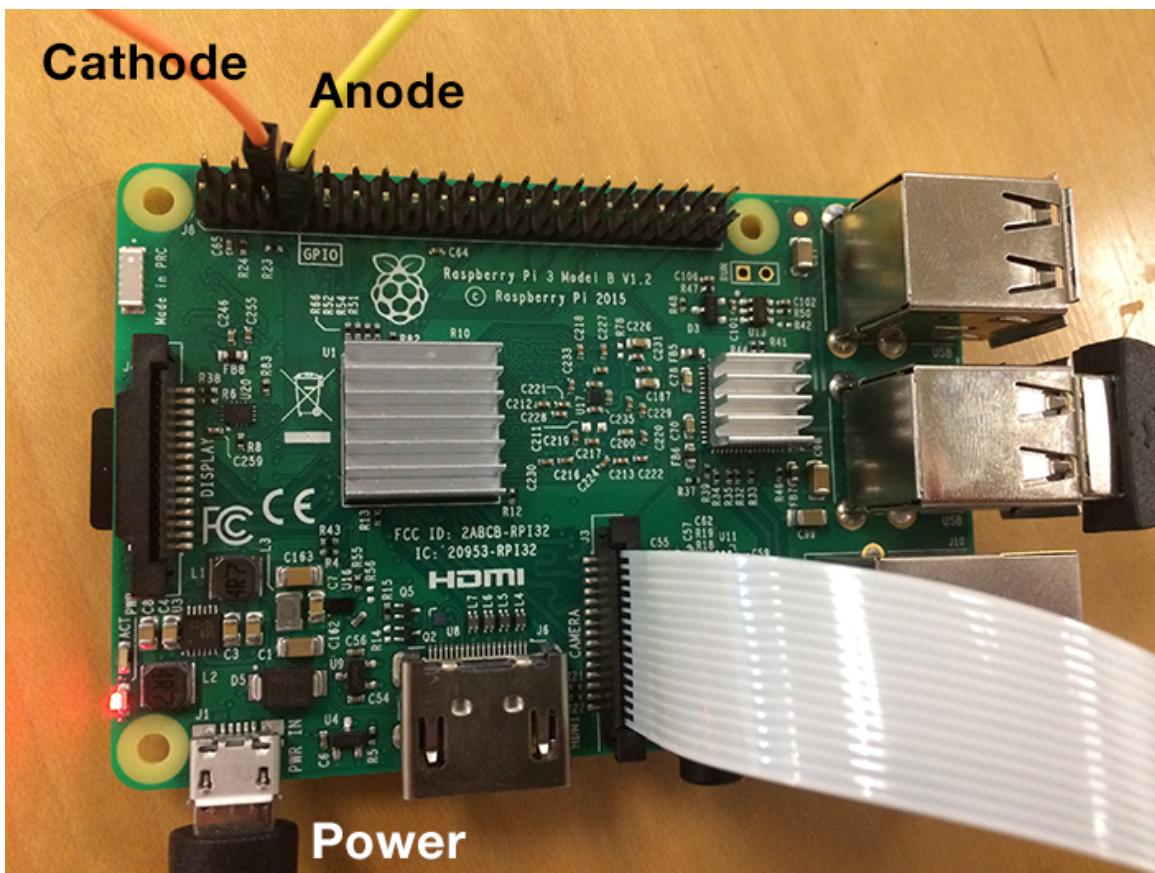
6. Enable the camera
 - a. Open the raspi-config tool from your session ssh'ed into the Pi by running **sudo raspi-config**.
 - b. Select **Enable camera** and hit **Enter**. Then go to **Finish** and you'll be prompted to reboot.

E. LED

1. Obtain the following parts:
 - a. LED
 - b. Three female-female jumper wires
 - c. Diode
2. Identify the longer leg of the LED. This is called the Anode pin.
3. Connect Jumper Wire 1 to the Anode.
4. Connect the Diode to the free end of Jumper Wire 1.
5. Connect Jumper Wire 2 to the free end of the Diode.
6. Connect Jumper Wire 3 to the shorter leg of the LED (also called the Cathode).



7. Now position your Pi such that the power cable is on the bottom. Connect the Cathode end (Jumper Wire 3) to pin #3 on the top row. Then connect the Anode end (Jumper Wire 2) to pin #4 on the bottom row.



F. Power

To power up your Pi, connect the power cable to your Pi as shown in the image below.



Connecting the Raspberry Pi to an external monitor and keyboard

