

Justin Spain

@jwsmusic

juzten@gmail.com

I'm not a hardware dude or an electrician

Ok Google(wikipedia), what is a raspberry pi?

The **Raspberry Pi** is a series of **credit card**–sized **single-board computers** developed in the **United Kingdom** by the **Raspberry Pi Foundation** with the intention of promoting the teaching of basic **computer science** in schools and developing countries.

OR...Just a small ass computer

RAM: 256 - 512

Storage: SD Card/Micro SD

Ethernet

Video or HDMI out

GPIO Pins

USB 2.0

Audio Jack

Cost: \$5 to \$45ish

Created for learning and prototyping

What os does it run?

Different versions of Linux and Windows

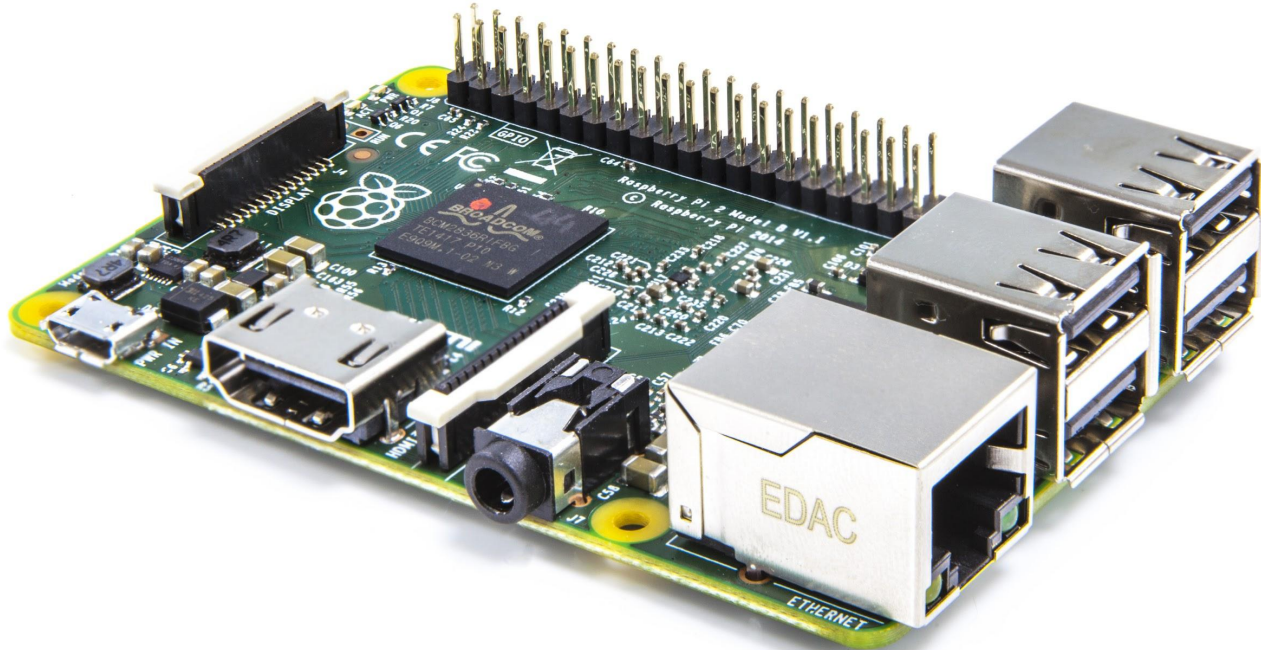
I'm running Raspbian, which is optimized for the Raspberry Pi

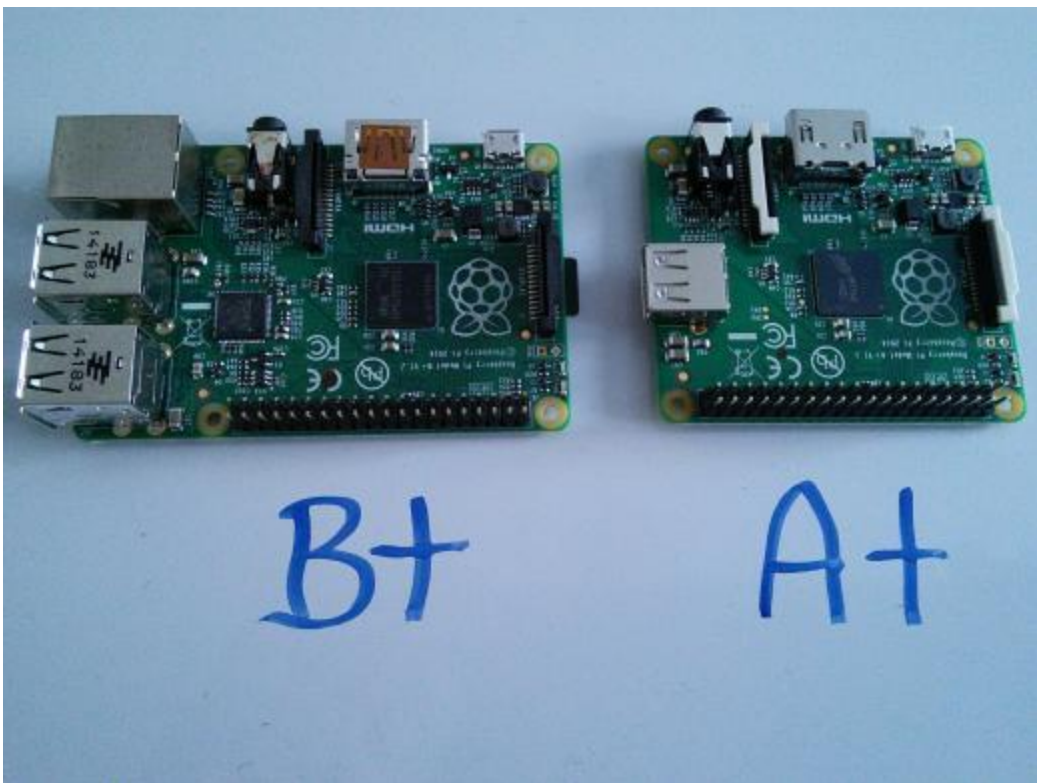
XBMC - media center distro

- ☒ Videos
- ☐ Music
- ☐ Pictures
- ☐ Weather
- ☐ Scripts
- ☐ Settings

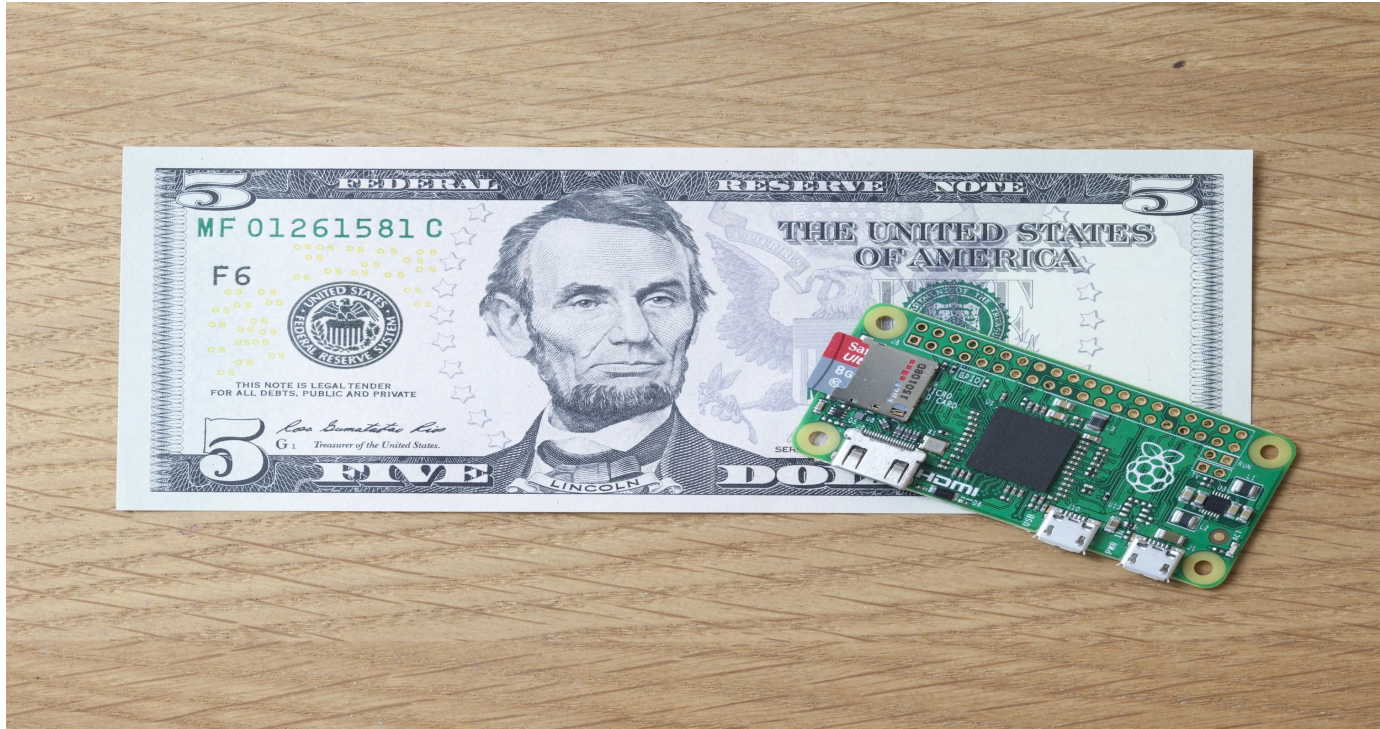


Raspberry Pi 2

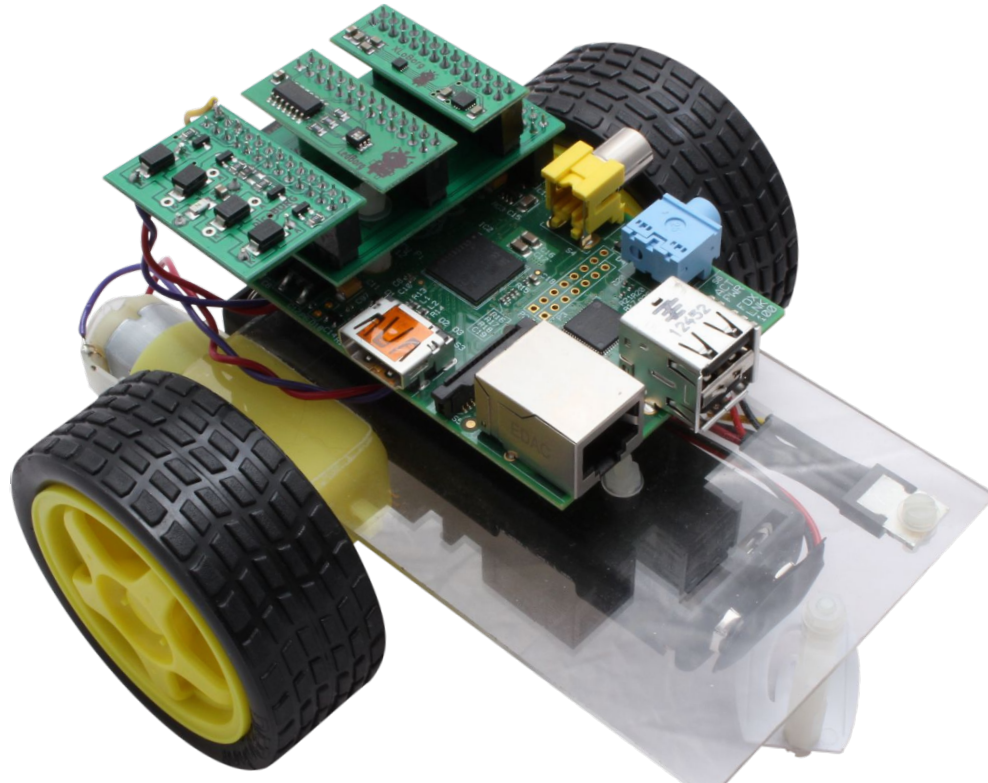




Zero



So you got a Raspberry Pi: now what?



Lets make it do something with Python

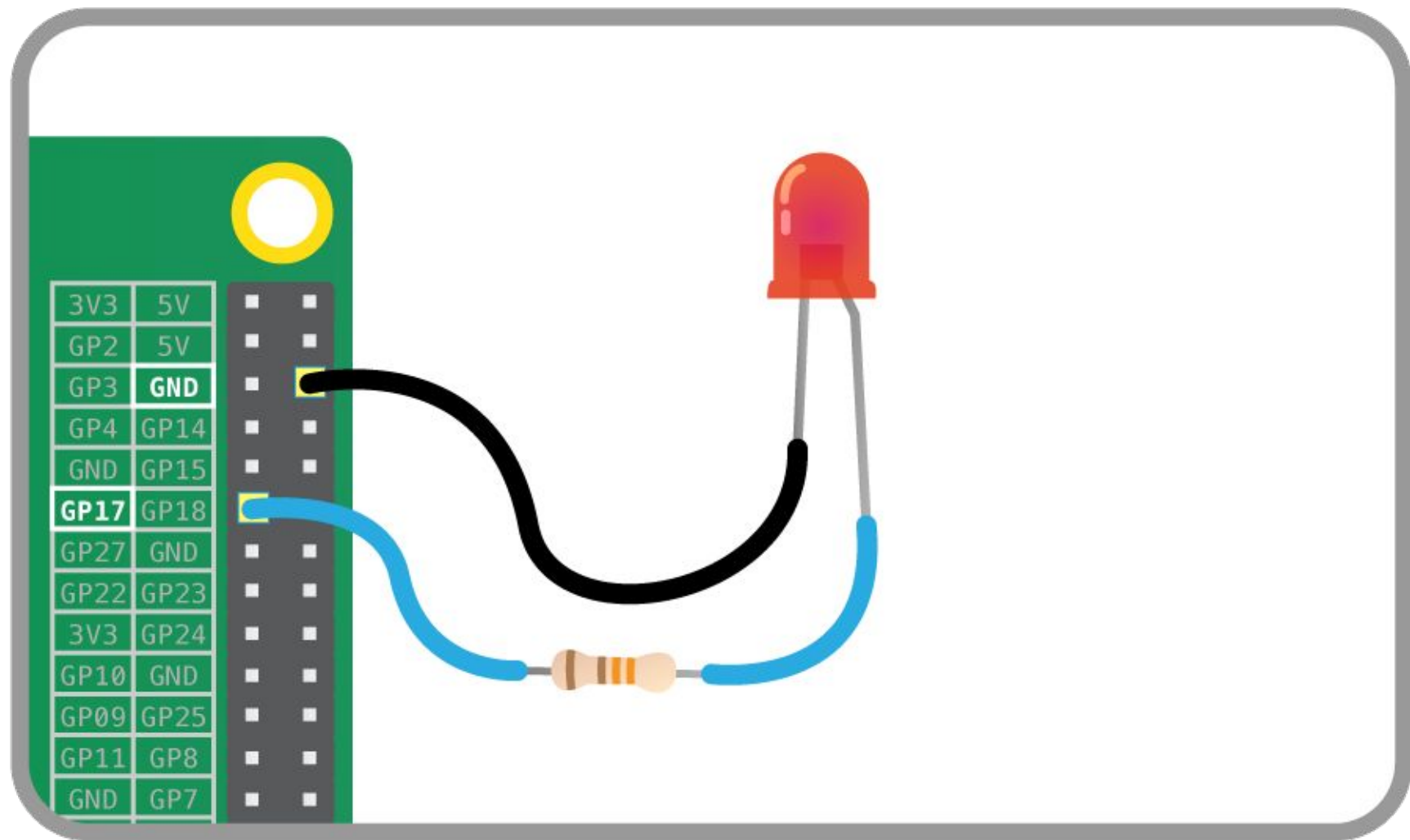
RPi.GPIO - <https://pypi.python.org/pypi/RPi.GPIO>

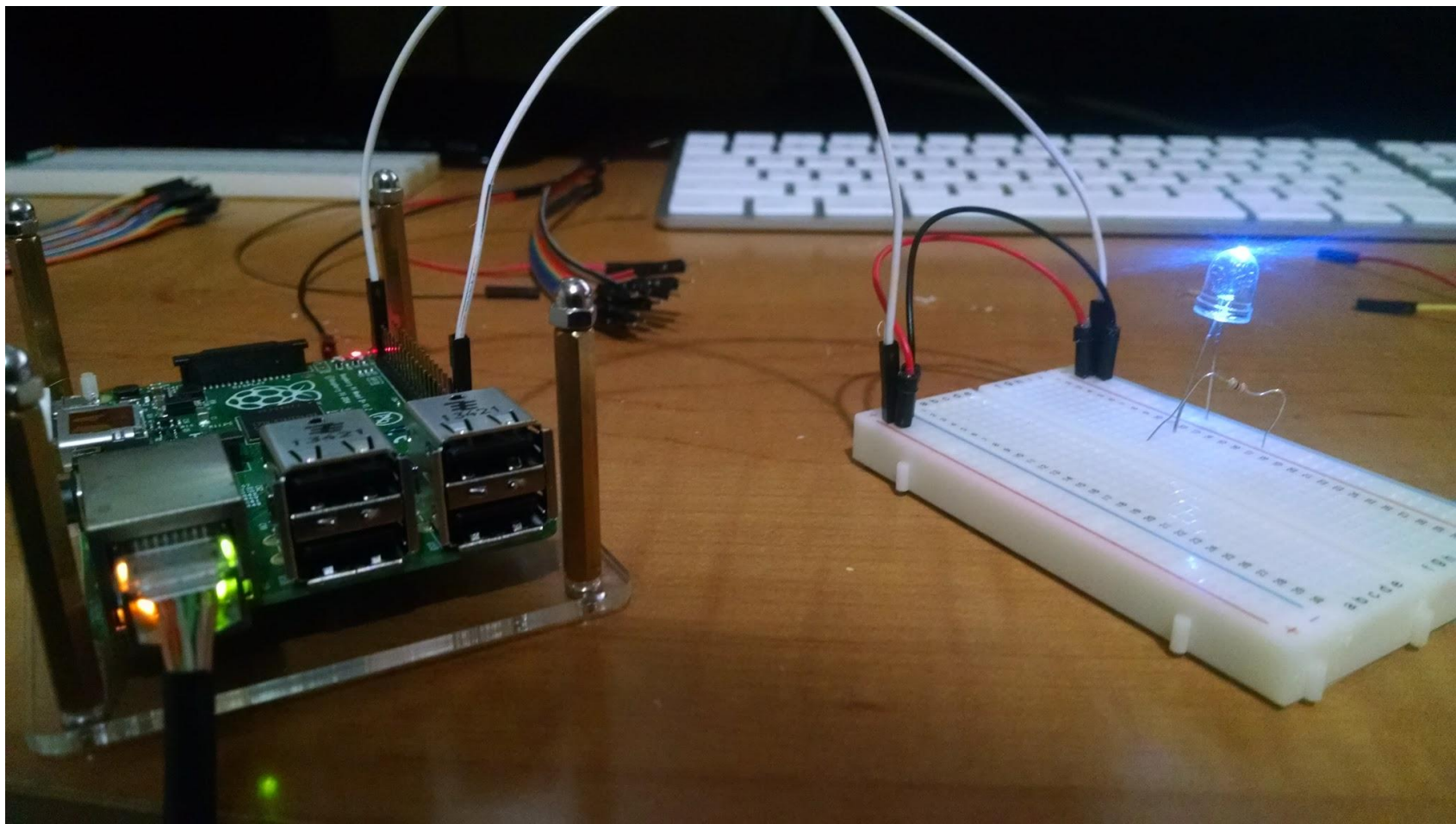
or

GPIO Zero - <http://pythonhosted.org/gpiozero/>

In: Buttons, Motion sensors, Light Sensors,

Out: LED's, Buzzer, RGB LED, Motor





Lightshowpi video

<https://www.youtube.com/watch?v=Eaa0dSzIs0k&feature=youtu.be>

press play dude

https://www.youtube.com/watch?v=iTwrZpdx_RY

or

<https://www.youtube.com/watch?v=20RSUuQHttw>

