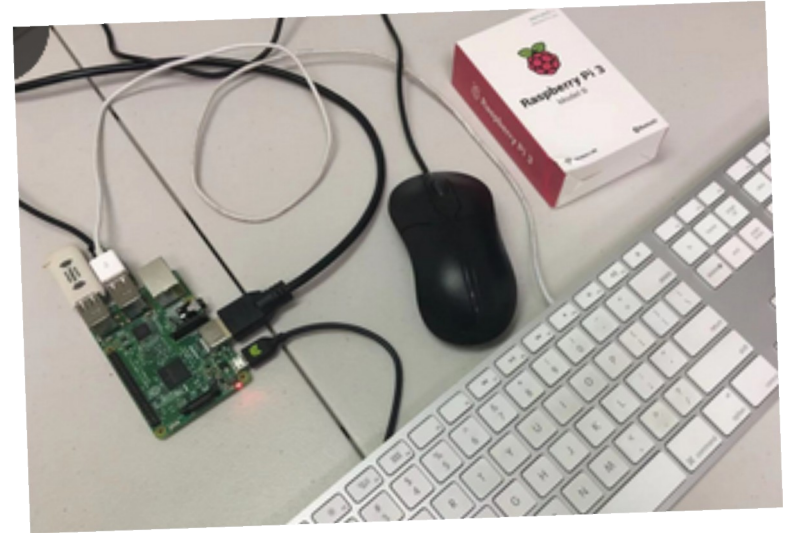
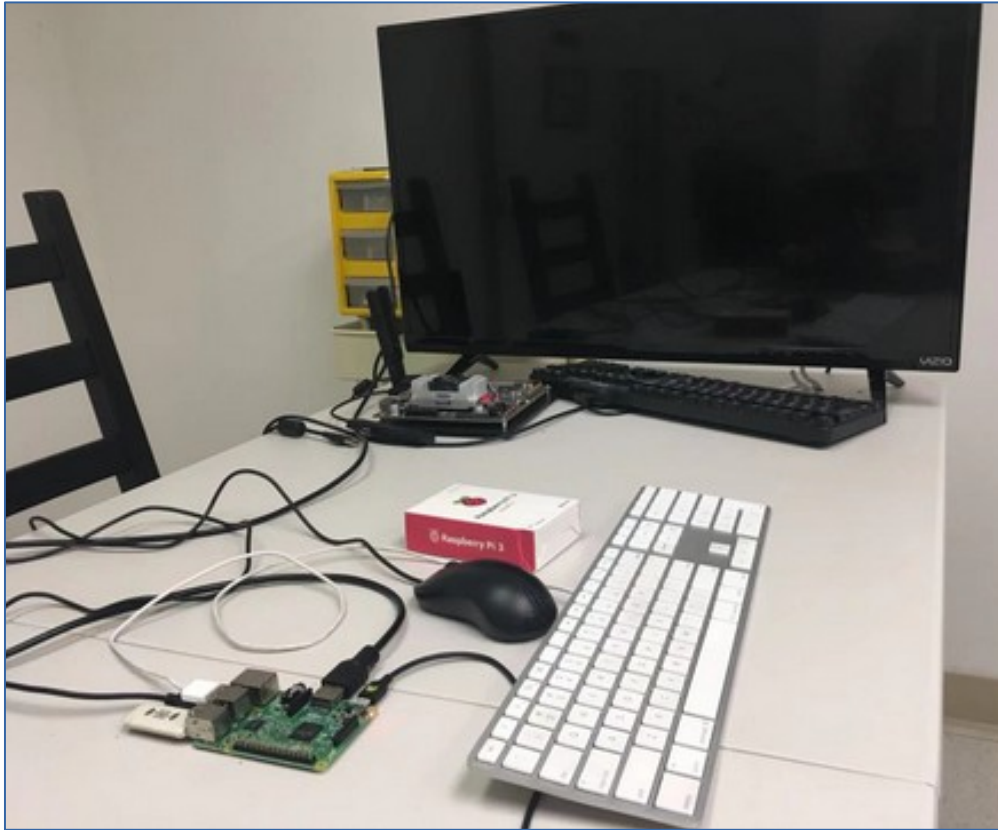


# Pie-3 System Environment

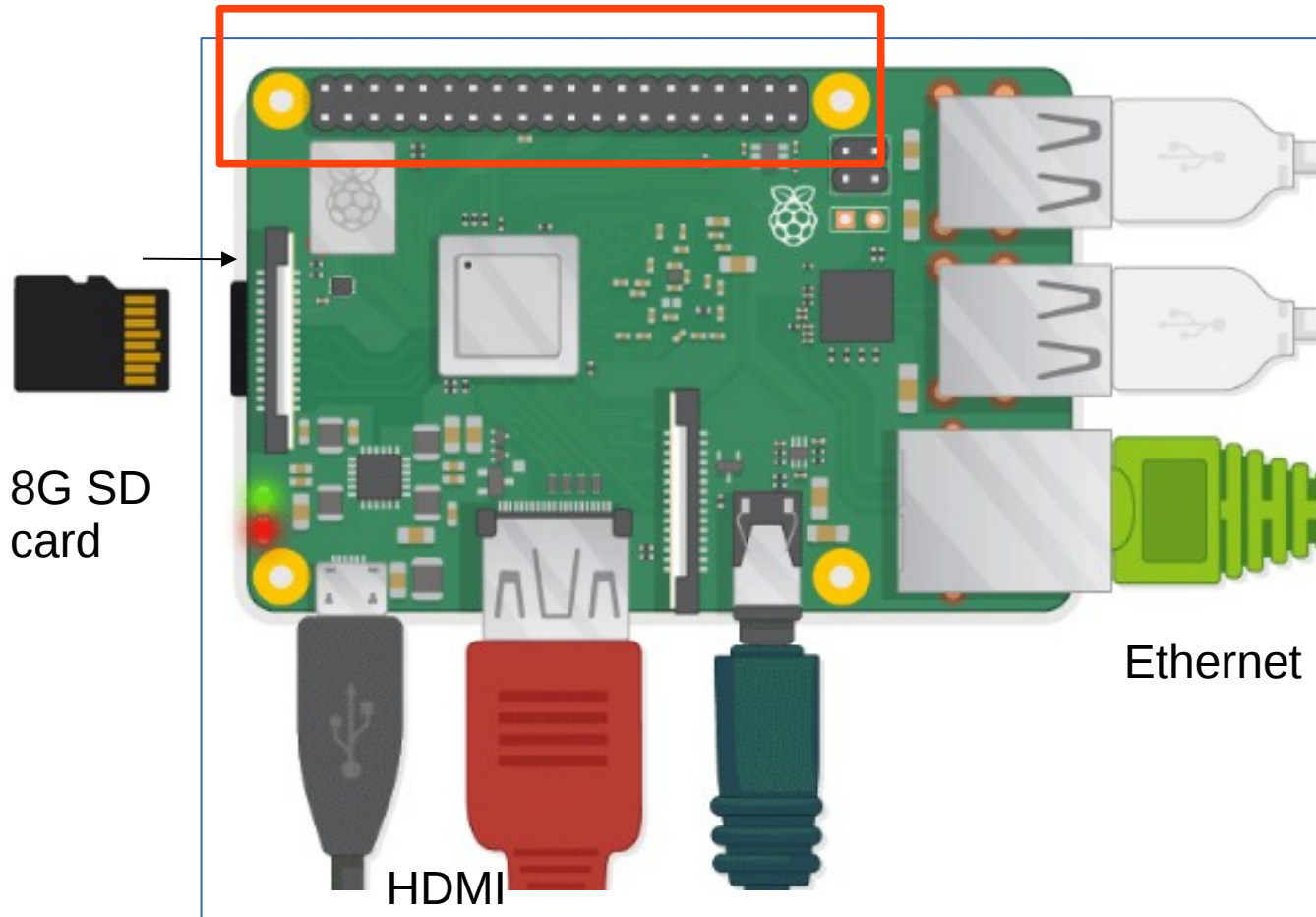


USB keyboard, USB mouse;  
USB cable for power  
USB wifi  
HDMI cable for monitor  
SD Card for Raspbian OS

# Pie-3 Board

<https://www.raspberrypi.org/help/>

Expansion Connectors



OS: Raspbian, comes pre-installed with many software. It supports Python, Scratch, Sonic Pi, Java and more.

C++/C programming for pie

<https://raspberrypi-projects.com/pi/category/p-programming-in-c>

Eclipse Linux

Using A Linux PC With A Cross Compiler: this page does not exist

C programming for pie

The Raspbian Operating System via NOOBS  
Using the NOOBS software to install Raspbian OS on your SD card. Download NOOBS at (<https://www.raspberrypi.org/downloads>).

<https://raspberrypi-projects.com/pi/programming-in-c/getting-your-raspberry-pi-ready-for-c-programming>

Harry Li, Ph.D.

# Raspbian OS for Pie-3

<https://www.raspberrypi.org/downloads/raspbian/>

Raspbian Stretch with desktop and recommended software

Image with desktop and recommended software based on Debian Stretch

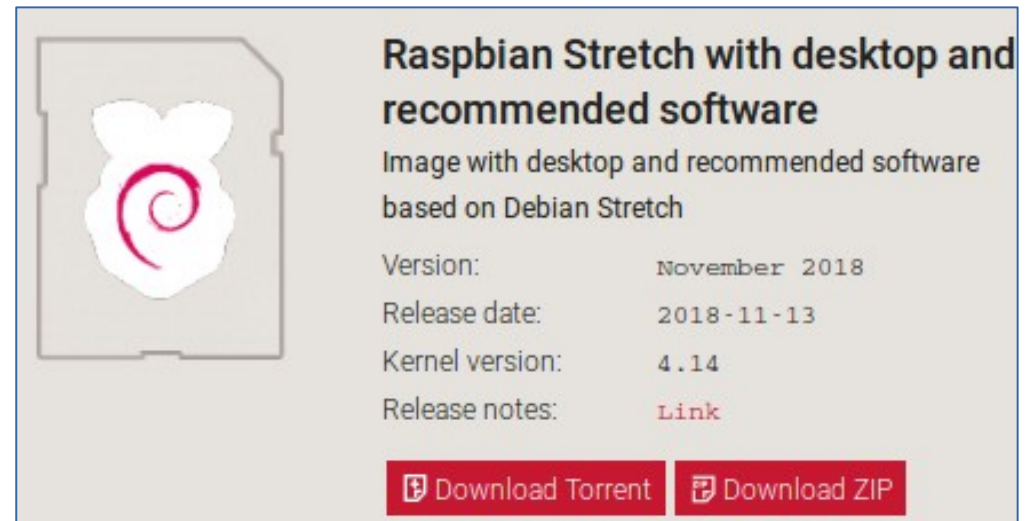
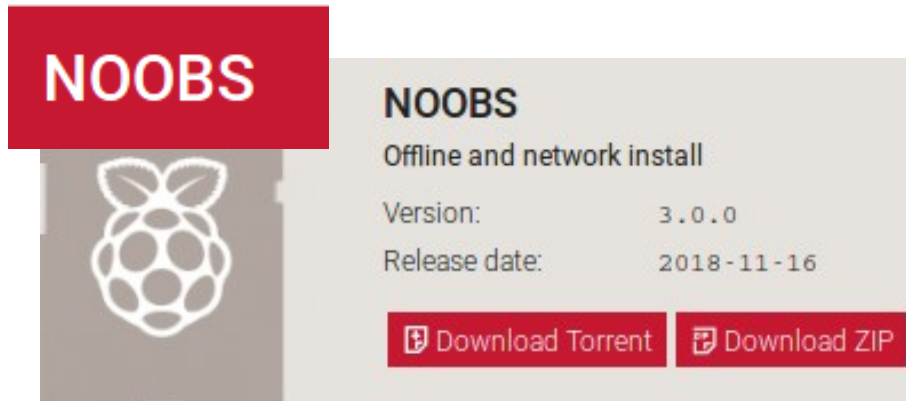
Version: November 2018

Release date: 2018-11-13

Kernel version: 4.14

Release notes: [Link](#)

download: zip



Go to the downloads page, grab a copy of the NOOBS zip file, and unpack it onto a freshly formatted 32GB (or larger) SD card.

<https://www.raspberrypi.org/blog/introducing-noobs/>

When the pie boot up for the first time, you'll see a menu prompting you to install one of several operating systems into the free space on the card. Select the boot of the Pi with a regular OS Raspbian, or with a media-centre OS like RaspBMC.

# Pie-3 C Programming

- 1) Download the Raspbian Wheezy SD card image from the Raspberry Pi website downloads page
- 2) Copy it to a SD card and unzip it.
- 3) Boot your RPi, log in and start the GUI, then select Raspian to boot.
- 4) Once booted, at the top left select the terminal icon, click on it to open.
- 5) Then create your working directory, for example, under /home/pi directory, create your working directory.
- 6) Then use your preferred word editor to create your first test.c program, for example, use “vi” to create test.c.
- 7) Compile and build: `$gcc -Wall test.cpp -o main`
- 8) To execute the program, `$/main`