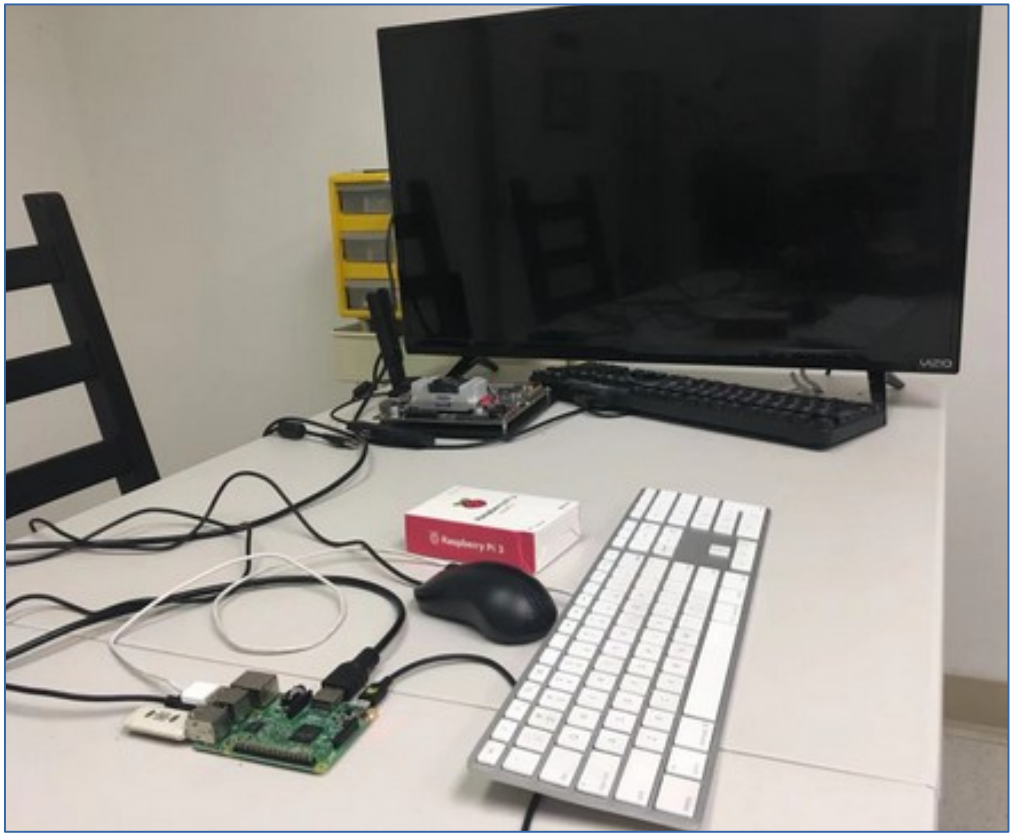
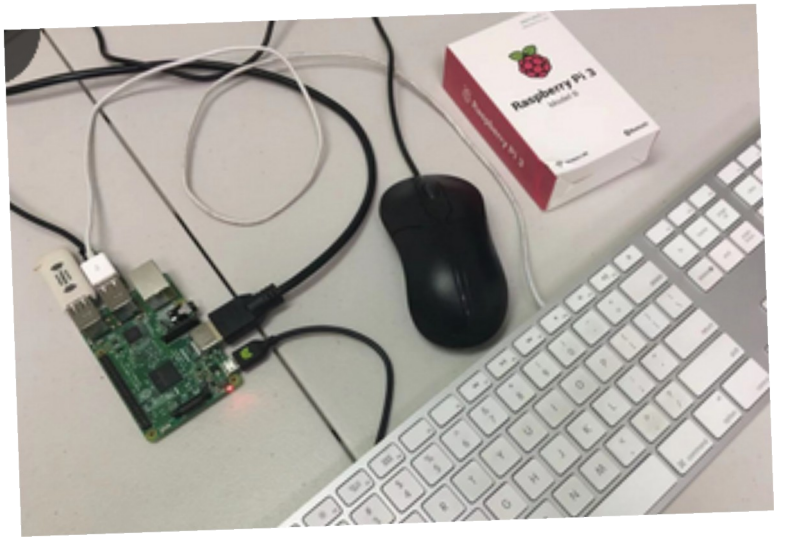
Pie-3 System Environment





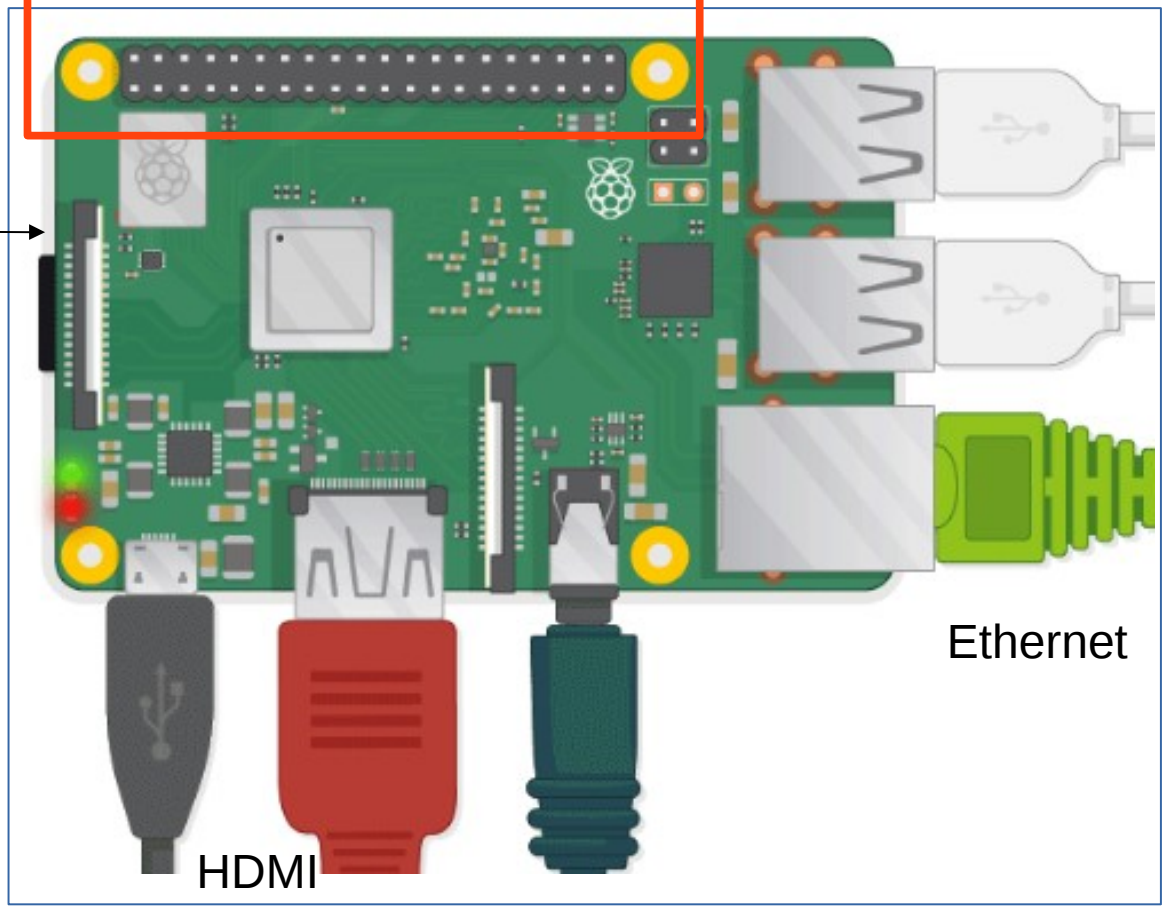
USB keybord, USB mouse;
USB cable for power
USB wifi
HDMI cable for monitor
SD Card for Raspbian OS

Harry Li, Ph.D.

Pie-3 Board

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

Expansion Connectors



32G SD card

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

C++/C programming for pie

https://raspberry-projects.com/pi/category/programming-in-c

Eclipse Linux

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

C programming for pie

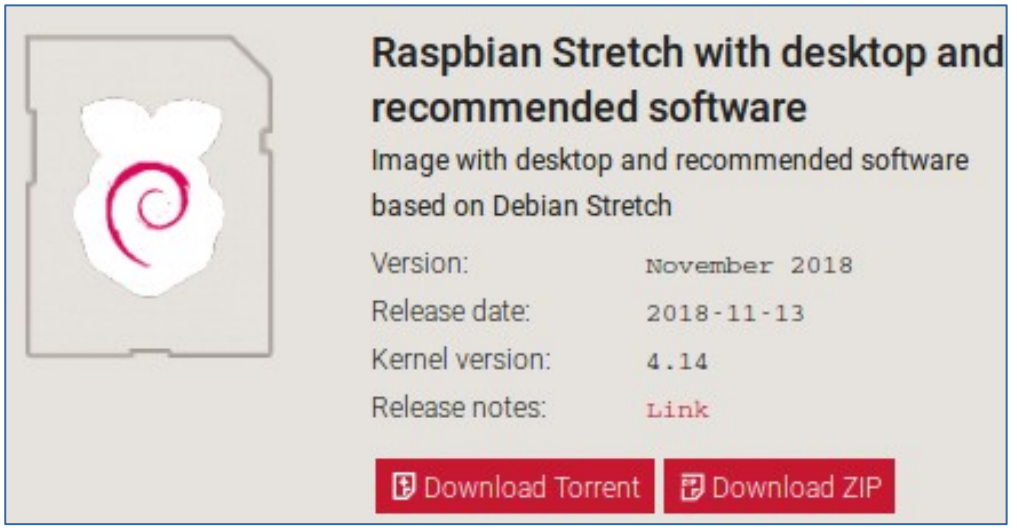
The Raspbian Operating System via NOOBS
Using the NOOBS software to install Raspbian OS on your SD card. Download NOOBS at (https://www.raspberrypi.org/downloads).

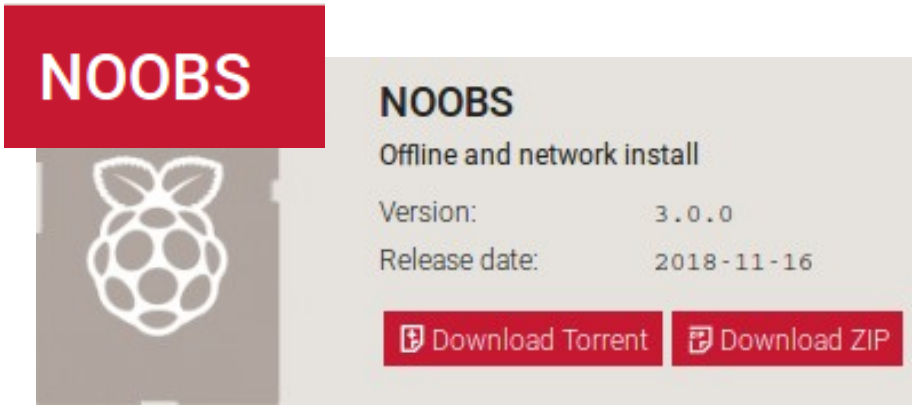
https://raspberry-projects.com/pi/programming-in-c/getting-your-raspberry-pi-ready-for-c-programming

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.

Harry Li, Ph.D.

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

Harry Li, Ph.D.