



Upward Bound Math Science Raspberry Pi Day!

Michael Hale: michael_hale@iu5.org

Hannah Evans: hannah_evans@iu5.org

Update and Upgrade the Pi

-Connect to WiFi

-Open Terminal located in Task Bar and type the following commands:

- `sudo apt-get update`
- `sudo apt-get upgrade`

Accessing the Git Repository

-Connect to WiFi

-Open Terminal located in Task Bar and type the following commands:

- `dir`
- `cd Desktop`
- `git clone https://github.com/mjhale22/UBMSPI.git`

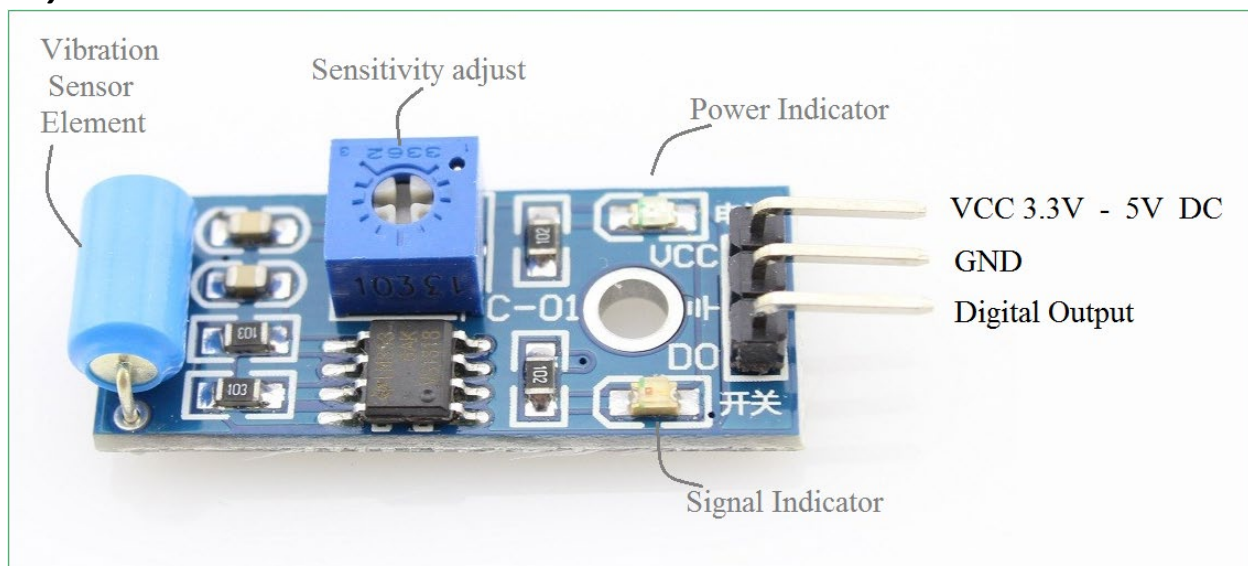
Reinstall NOOBS from Recovery

-On startup/reboot, hold Shift key when prompted

Reinstall NOOBS from Download

-www.raspberrypi.org/documentation/installation/noobs.md

Sensor Layout



Day 1 Agenda

- Housekeeping
- Distribute kits
- Connecting the Raspberry Pi
- Connecting to Wifi
- Taskbar Panel Settings
- Preferences > Mouse and Keyboard Settings
- Preferences > Raspberry Pi Configuration
 - VNC/Camera
- Desktop Preferences (Right click on Desktop)
- Updating and Upgrading the Pi
- What is GitHub / Accessing UBMSPI.git
 - <https://github.com/mjhale22/UBMSPI>
- Contents of the UBMSPI Git Repository
- Pin Layout/Leaf
- Breadboard / Resistors / LED / LED Blink (tinyurl.com/PiCircuits)
- Inputs Folder
- Temp/Humidity Sensor Python Walkthrough
 - Importing Libraries
 - Defining Variables
 - Hashtags
- Explore other sensors and Python codes
- Brainstorm Sensor Uses (Discuss Outputs)

Day 2 Agenda

- Review Day 1 Agenda
- Re-clone UBMSPI Git Repository
- Review Sensor Usage Brainstorm Document
- Outputs Folder
- Conditionals Folder
- Create your own project