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

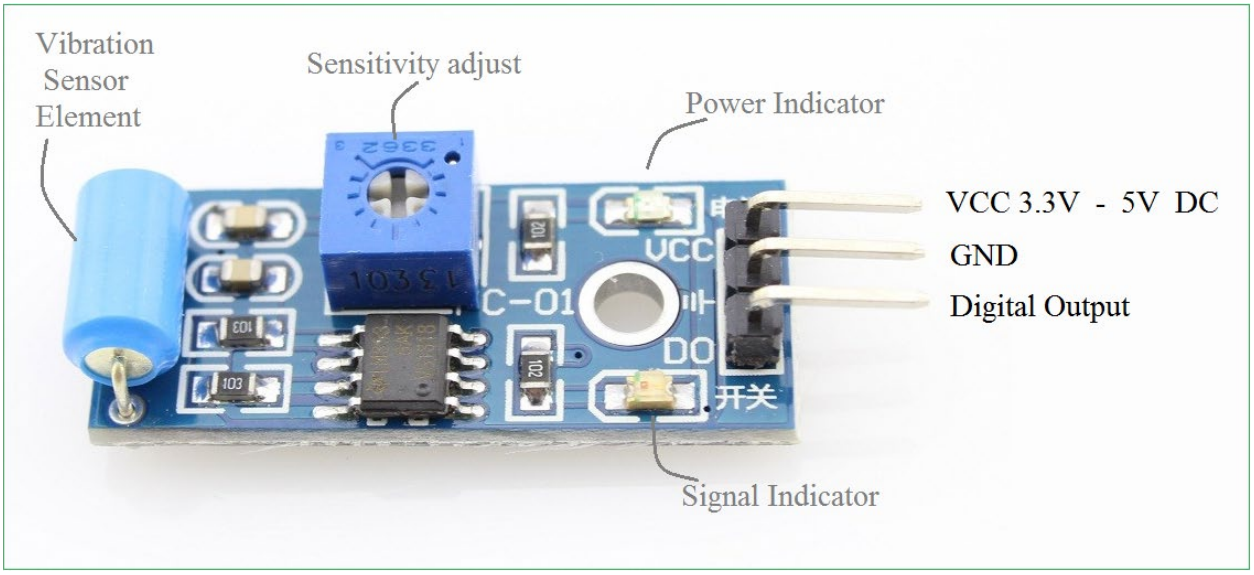
Reinstall NOOBS from Recovery

-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 Contents of Repository
- CheatSheet.md, ModulesCheatSheet.md, ProjectLinks.md
- Create your own project