**Learning Arduino**

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| **#** | **Description** |
| 1 | Install the latest version of the Arduino IDE from Arduino.cc not .org  Also, please download the IDE and **NOT** the Web Editor and **NOT** the PRO IDE.  If you’re on Windows, use the Installer not the ZIP. |
| 2 | Download the board definitions for the typical Arduino boards that we will use.  **Step 1**  Copy and paste these links into “Additional Boards Manager URLs” in the Arduino Preferences menu. You can simply copy the whole line of text as is.  ***Step 1a: Navigate to the Arduino Preferences menu***  On Macs: Arduino -> Preferences -> Additional Boards Manager URLs (is located towards the bottom of the window)  On Windows: File -> Preferences -> Additional Boards Manager URLs (is located towards the bottom of the window)  ***Step 1b: Copy and paste the following links into “Additional Boards Manager URLs”*** *simply copy and paste the whole thing as is*  *https://adafruit.github.io/arduino-board-index/package\_adafruit\_index.json*  *https://sandeepmistry.github.io/arduino-nRF5/package\_nRF5\_boards\_index.json*  *https://raw.githubusercontent.com/sparkfun/Arduino\_Boards/master/IDE\_Board\_Manager/package\_sparkfun\_index.json*  **Step 2**  Then go to Tools -> Board -> Boards Manager  There are a number of board definitions to download. Please navigate here to see the list: |
| 3 | **What is an Arduino?**  Please watch the following video to learn what an Arduino is in general: <https://youtu.be/_h1m6R9YW8c> |
| 4 | First, learn how to make an LED blink from yours truly :)  <https://youtu.be/EFp6oE26__k> |
| 5 | Learn how to work with digital inputs using buttons   1. <https://learn.adafruit.com/adafruit-arduino-lesson-6-digital-inputs?view=all> 2. <https://youtu.be/YWY_Is0L7fE>   Analog-to-Digital Conversion  <https://youtu.be/2HNZZ5rG4w0>  Follow Jeremy Blum’s Arduino Tutorials particularly Tutorials 2-4, and 6-8  <https://www.youtube.com/playlist?list=PLA567CE235D39FA84> |