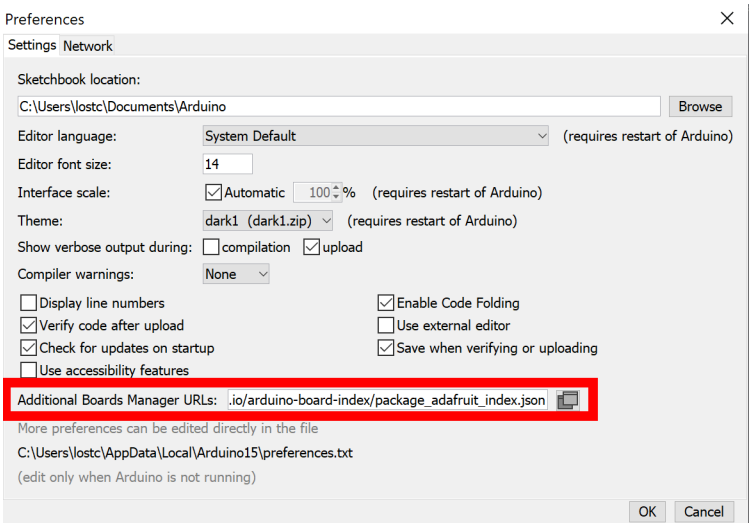
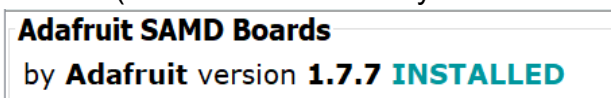
PedalBrainz Update Instructions for Windows

Step 1: Installing Drivers and Arduino, Setting up Board and Port

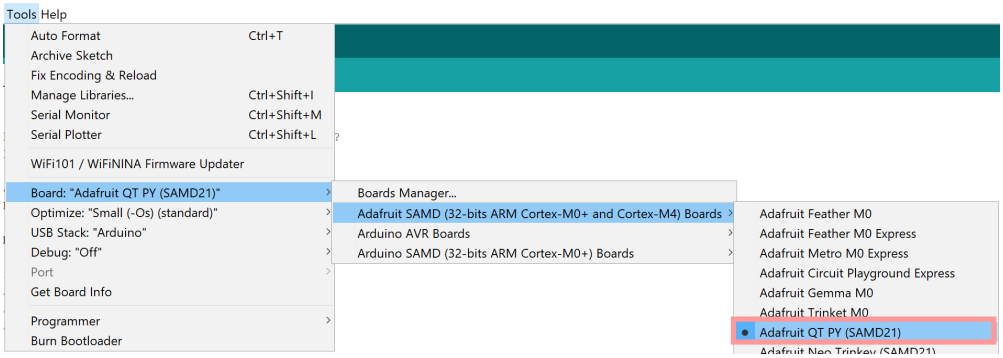
1) Install the latest Adafruit Drivers: https://github.com/adafruit/Adafruit_Windows_Drivers/releases
2) Install Arduino software for Windows: https://www.arduino.cc/en/software
3) Open Arduino
4) Click on File Menu at the top of the screen and select "Preferences"
5) Next to the "Additional Boards Manager URLs," copy and paste the URL below into the text box and then click "OK":

   COPY this URL:
   https://adafruit.github.io/arduino-board-index/package_adafruit_index.json



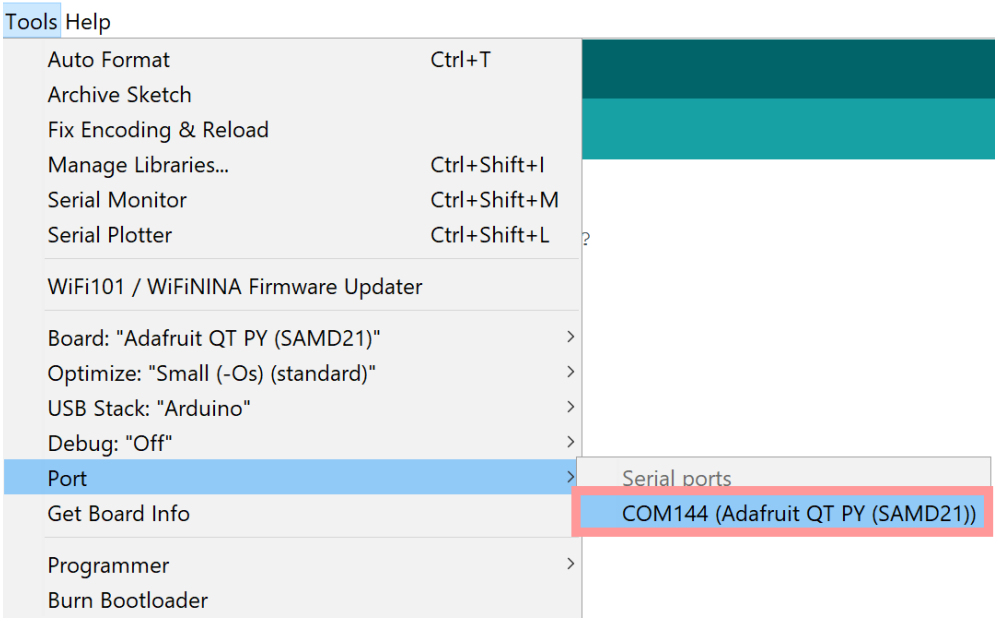
6) Go to "Tools" "Board" "Boards Manager"
   a. In Boards Manger, type "Adafruit SAMD" in the search bar; next, "Adafruit SAMD Boards" will appear in the results
7) Select the ~~latest version~~ Adafruit SAMD Boards VERSION 1.7.7 and click on "Install" button (Note: Installation may take from 3- 5 minutes)
   a. 

8) When installation is complete, close Boards Manager
9) Go to "Tools" "Board" "Adafruit SAMD Boards" and select "Adafruit QTPY (SAMD21)"

a. 

10) Connect the PedalBrainz to your computer via USB (the lights should flash on the unit)

11) Go to “Tools” “Port” choose the selection that has “Adafruit QT PY (SAMD21)” next to the name. (The COM### may differ)

a. 

a. If the QTPY doesn’t immediately appear, try restarting the Arduino software

Step 2: Downloading and Installing Libraries

1) Pedal Brainz also uses three libraries that need to be installed in Arduino using the Library Manager:

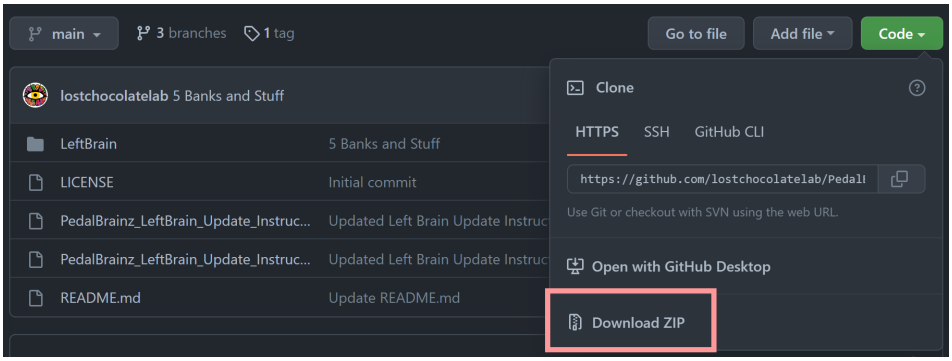
   a. **FastLED**
   b. FastLED_Neopixel
   c. **FlashAsEEPROM_SAMD**
   d. **MultiMap**

2) Click on “Tools” “Manage Libraries”

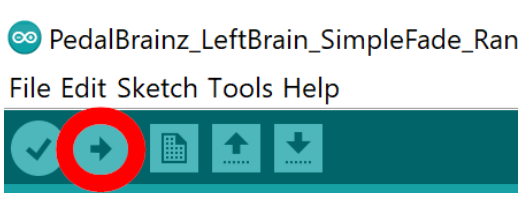
a. In the Library Manager, type “**FastLED**” in the search bar, then install **“FastLED”** file by clicking on “Install” button and wait until installation is complete
    i. Install All Dependencies if Prompted
b. Staying in the Library Manager, next, type “**FastLED_Neopixel**” in the search bar, then install **“FastLED_Neopixel”** file by clicking on the “Install” button; wait until installation is complete
c. Staying in the Library Manager, next, type “**FlashStorage_SAMD**” in the search bar, then install **“FlashStorage_SAMD”** file by clicking on the “Install” button; wait until installation is complete
d. Staying in the Library Manager, next, type “**MultiMap**” in the search bar, then install **“MultiMap”** file by clicking on the “Install” button; wait until installation is complete

3) After these library files are installed, close the Library Manager

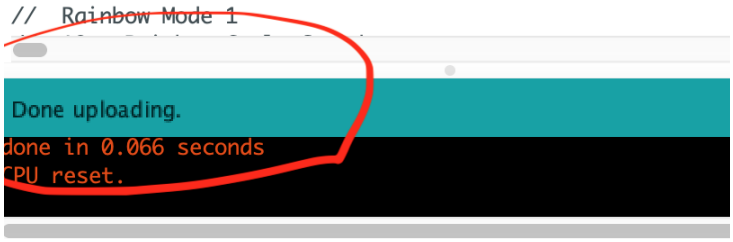
Step 3: Downloading PedalBrainz Files/ Uploading to Unit

1) Download the PedalBrainz Software from GitHub: https://github.com/lostchocolatelab/PedalBrainz
    a. 

2) After download is complete, unzip “PedalBrainz-main.zip”
3) In Arduino, click on “File” “Open” and navigate to the v2 software from the unzipped folder that you just unzipped on the Desktop:
    a. Location: Desktop\PedalBrainz-main\PedalBrainz-main\LeftBrain\PedalBrainz_LeftBrain_Software\v2\PedalBrainz_LeftBrain_Software_v2
    b. Open the file: “**PedalBrainz_LeftBrain_Software_v2.ino”**
4) This will open the software for the v2 Left Brain in Arduino
5) Click on the Upload Button (the arrow icon pointing right) to upload the software to PedalBrainz



6) Once upload is complete, there will be text at the bottom stating “Done uploading.”
    a. It’s worth trying this twice if at first it doesn’t succeed.



7) After the “Done Uploading” message appears, you can now disconnect the USB cable from PedalBrainz, and you’re now ready to use the unit!