# Arduino IDE Setup

The first thing you will need to do is to download the latest release of the Arduino IDE. You will need to be using **version 1.8** or higher for this guide

[Arduino IDE Download](http://www.arduino.cc/en/Main/Software)

After you have downloaded and installed**the latest version of Arduino IDE**, you will need to start the IDE and navigate to the **Preferences** menu. You can access it from the **File** menu in *Windows* or *Linux*, or the **Arduino** menu on *OS X*.

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A dialog will pop up just like the one shown below.

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We will be adding a URL to the new **Additional Boards Manager URLs** option. The list of URLs is comma separated, and *you will only have to add each URL once.* New Adafruit boards and updates to existing boards will automatically be picked up by the Board Manager each time it is opened. The URLs point to index files that the Board Manager uses to build the list of available & installed boards.

To find the most up to date list of URLs you can add, you can visit the list of [third party board URLs on the Arduino IDE wiki](https://github.com/arduino/Arduino/wiki/Unofficial-list-of-3rd-party-boards-support-urls#list-of-3rd-party-boards-support-urls). We will only need to add one URL to the IDE in this example, but ***you can add multiple URLS by separating them with commas***.

# Adding Adafruit Feather Boards

Copy and paste the link below into the **Additional Boards Manager URLs** option in the Arduino IDE preferences.

https://adafruit.github.io/arduino-board-index/package\_adafruit\_index.json

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Here's a short description of each of the Adafruit supplied packages that will be available in the Board Manager when you add the URL:

* **Adafruit AVR Boards** - Includes support for Flora, Gemma, Feather 32u4, Trinket, & Trinket Pro.

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# Adding the ESP32 HUZZAH

Visit the repository and add to the IDE similar to how you added the Feather drivers

<https://github.com/espressif/arduino-esp32#using-through-arduino-ide>

The Additional Boards Manager URL: <https://raw.githubusercontent.com/espressif/arduino-esp32/gh-pages/package_esp32_index.json>

NOTE: if there are URLs you will need to add comma (, ) between each

Make sure you select versions and choose 1.06

**NOTE: Anything newer than 1.06 is breaking on the Supporting PS3/4 controllers**

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Visit: <https://www.silabs.com/developers/usb-to-uart-bridge-vcp-drivers>

Download the Windows Driver and install

Debugging Stack traces

<https://github.com/me-no-dev/EspExceptionDecoder>

# Adafruit Trinket M0

Add the following IDE URI:

Choose Arduno SAMD and Adafruit SAMD boards and install latest

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