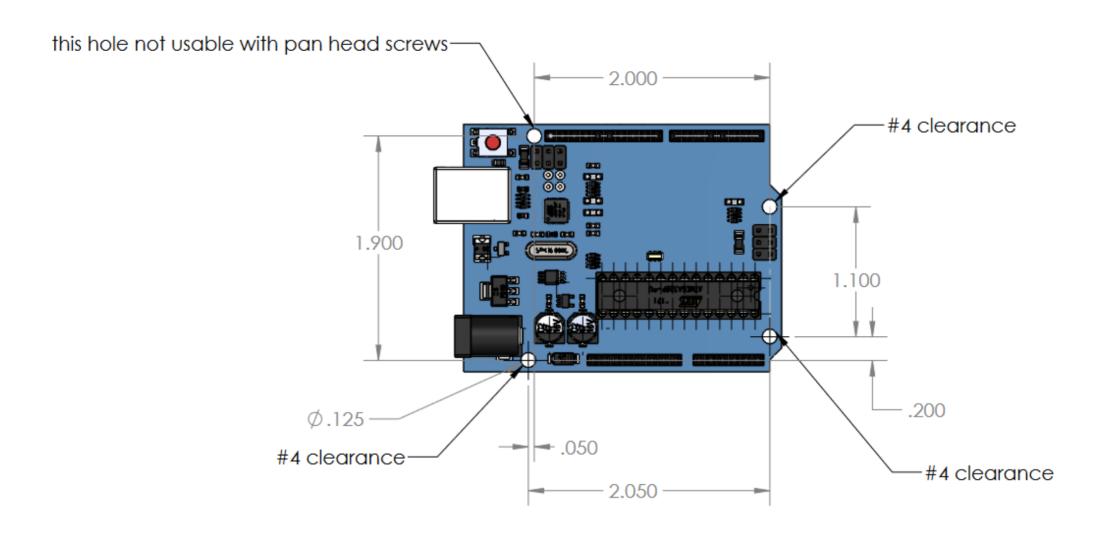
# Arduino UNO

Lafe Spietz

### Arduino

- Open Source
- Not a company
- A wide range of products sold by many vendors around the world
- The Arduino UNO is one of the most popular and easiest to use of the boards
- Can be programmed on Windows, Mac and Linux using the Arduino IDE
- Programmed in a c-like language based on Processing(a language designed for artists)

## Arduino UNO



### **Downloads**



#### Arduino IDE 2.3.2

The new major release of the Arduino IDE is faster and even more powerful! In addition to a more modern editor and a more responsive interface it features autocompletion, code navigation, and even a live debugger.

For more details, please refer to the **Arduino IDE 2.0** documentation.

Nightly builds with the latest bugfixes are available through the section below.

SOURCE CODE

The Arduino IDE 2.0 is open source and its source code is hosted on **GitHub**.

#### **DOWNLOAD OPTIONS**

Windows Win 10 and newer, 64 bits

Windows MSI installer

Windows ZIP file

**Linux** Applmage 64 bits (X86-64)

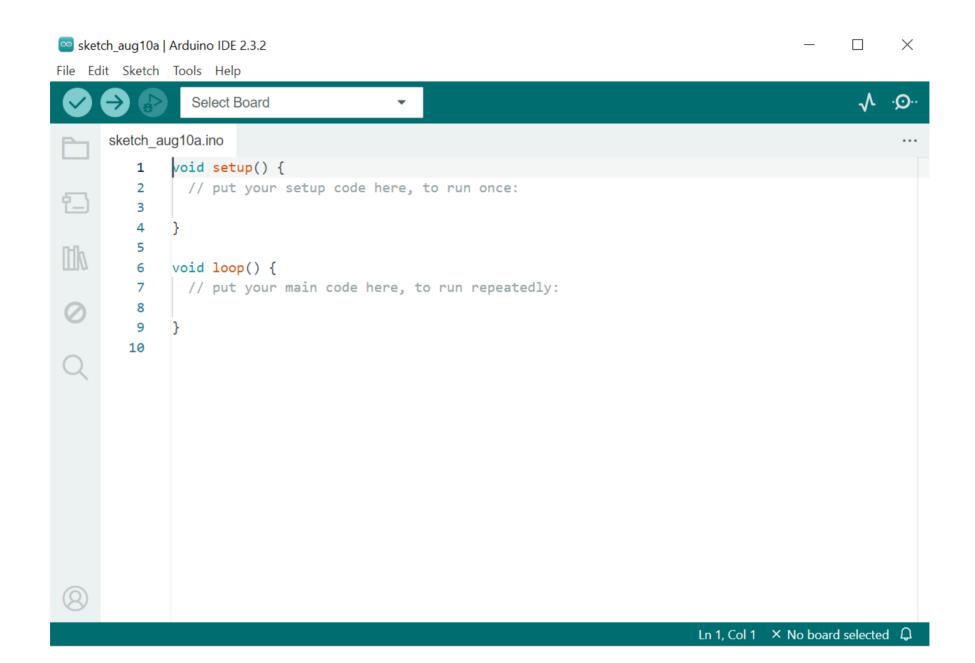
Linux ZIP file 64 bits (X86-64)

macOS Intel, 10.15: "Catalina" or newer, 64 bits

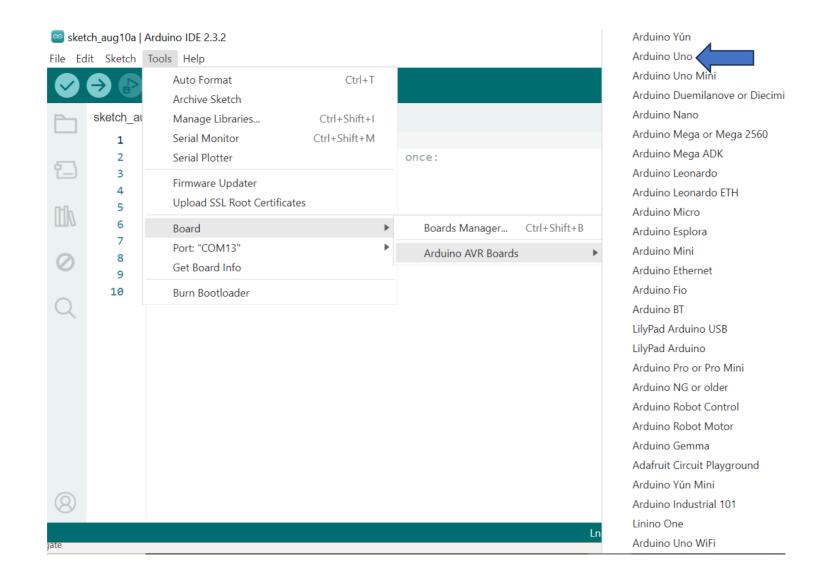
macOS Apple Silicon, 11: "Big Sur" or newer, 64 bits

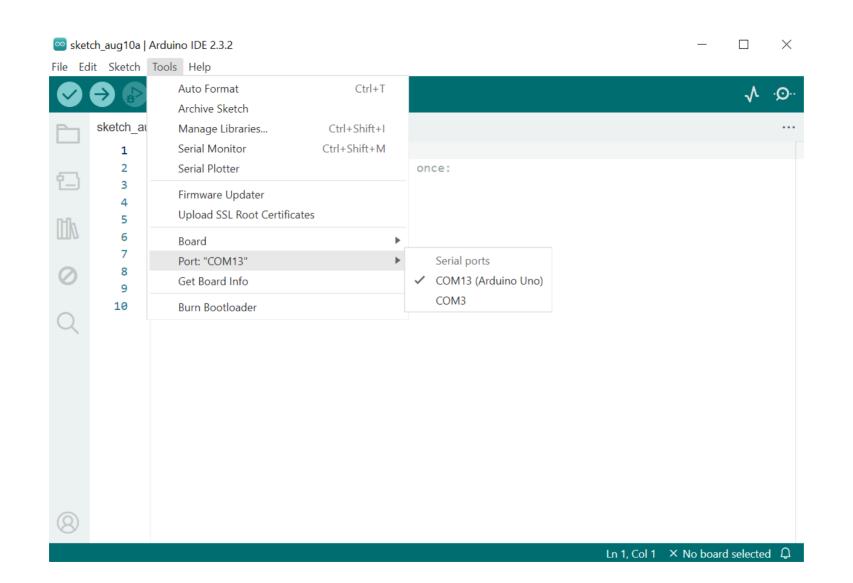
Release Notes

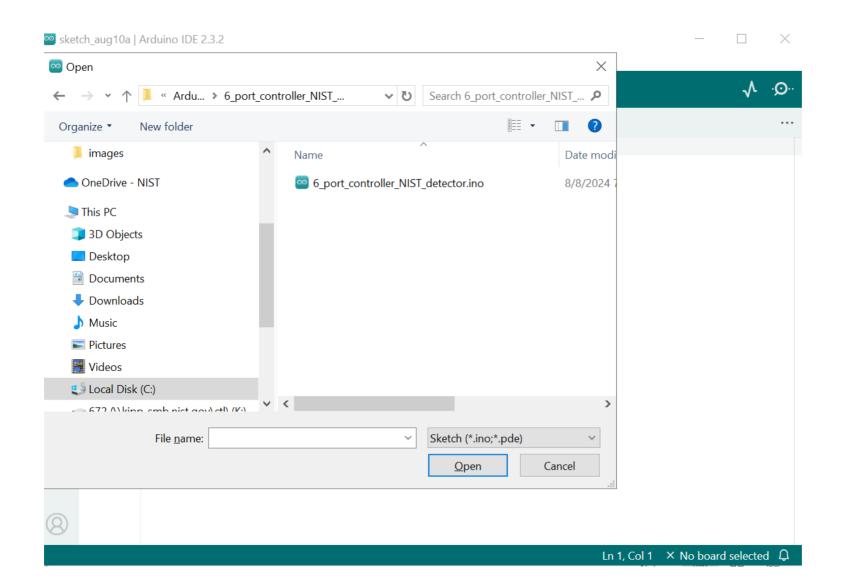
https://www.arduino.cc/en/software



## Select the UNO









П X File Edit Sketch Tools Help 6 port controller NIST detector.ino #include <Adafruit NeoPixel.h> #ifdef AVR #endif // Which pin on the Arduino is connected to the NeoPixels? // It is very important to change this based on if you have a Mega or UNO, since the A5 pin maps to different digital output pins // A5 maps to 19 on the UNO and 59 on the Mega 10 //#define PIN 59 // MEGA 11 #define PIN 19 // UNO 12 13 // How many NeoPixels are attached to the Arduino? #define NUMPIXELS 6 // //there are 6 17 // When setting up the NeoPixel library, we tell it how many pixels, // and which pin to use to send signals. Note that for older NeoPixel 20 // strips you might need to change the third parameter -- see the 21 // strandtest example for more information on possible values. Adafruit\_NeoPixel pixels(NUMPIXELS, PIN, NEO\_GRB + NEO\_KHZ800); Output Serial Monitor × ▼ 9600 baud New Line

## Send control characters down serial

