



Arduino IDE Install Guide

For Matrix Mini





Arduino IDE Installation






Entering Arduino Website

- Searching for Arduino, and entering the website
- Or click the link below.
- <https://www.arduino.cc/>





Software→Downloads



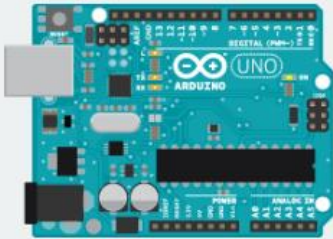
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ONLINE TOOLS

DOWNLOADS

BLOG


WHAT IS ARDUINO?




BUY AN ARDUINO

LEARN ARDUINO

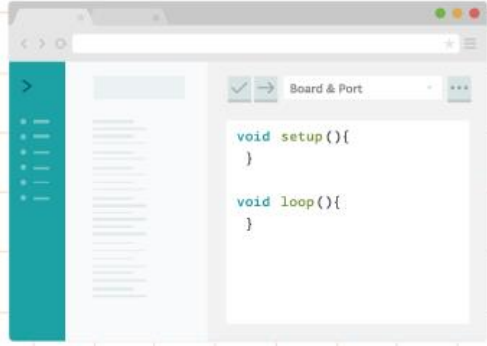
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CUSTOM "DOORBELL" FLASHES HOUSE LIGHTS FOR THE HEARING IMPAIRED



> ARDUINO
> WEB EDITOR
> CODE ONLINE!




<https://www.arduino.cc/en/Main/Software>



Select the Version for Your OS

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Download the Arduino IDE



ARDUINO 1.8.7

The open-source Arduino Software (IDE) makes it easy to write code and upload it to the board. It runs on Windows, Mac OS X, and Linux. The environment is written in Java and based on Processing and other open-source software.

This software can be used with any Arduino board. Refer to the [Getting Started](#) page for Installation instructions.

Windows Installer, for Windows XP and up
Windows ZIP file for non admin install

Windows app Requires Win 8.1 or 10
[Get](#) 

Mac OS X 10.8 Mountain Lion or newer

Linux 32 bits
Linux 64 bits
Linux ARM


[Release Notes](#)
[Source Code](#)
[Checksums \(sha512\)](#)

HOURLY BUILDS

LAST UPDATE
28 September 2018 18:2:58 GMT

Download a **preview of the incoming release** with the most

BETA BUILDS


 **BETA**

Download the **Beta Version** of the Arduino IDE with experimental features. This version should NOT be used in production.

正在等候 checkout.stripe.com...



Contribute or Just Download

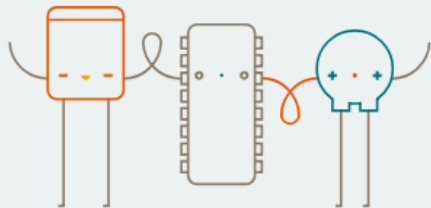


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Contribute to the Arduino Software

Consider supporting the Arduino Software by contributing to its development. (US tax payers, please note this contribution is not tax deductible). [Learn more on how your contribution will be used.](#)



SINCE MARCH 2015, THE ARDUINO IDE HAS BEEN DOWNLOADED **26,554,919** TIMES. (IMPRESSIVE!) NO LONGER JUST FOR ARDUINO AND GENUINO BOARDS, HUNDREDS OF COMPANIES AROUND THE WORLD ARE USING THE IDE TO PROGRAM THEIR DEVICES, INCLUDING COMPATIBLES, CLONES, AND EVEN COUNTERFEITS. HELP ACCELERATE ITS DEVELOPMENT WITH A SMALL CONTRIBUTION! REMEMBER: OPEN SOURCE IS LOVE!

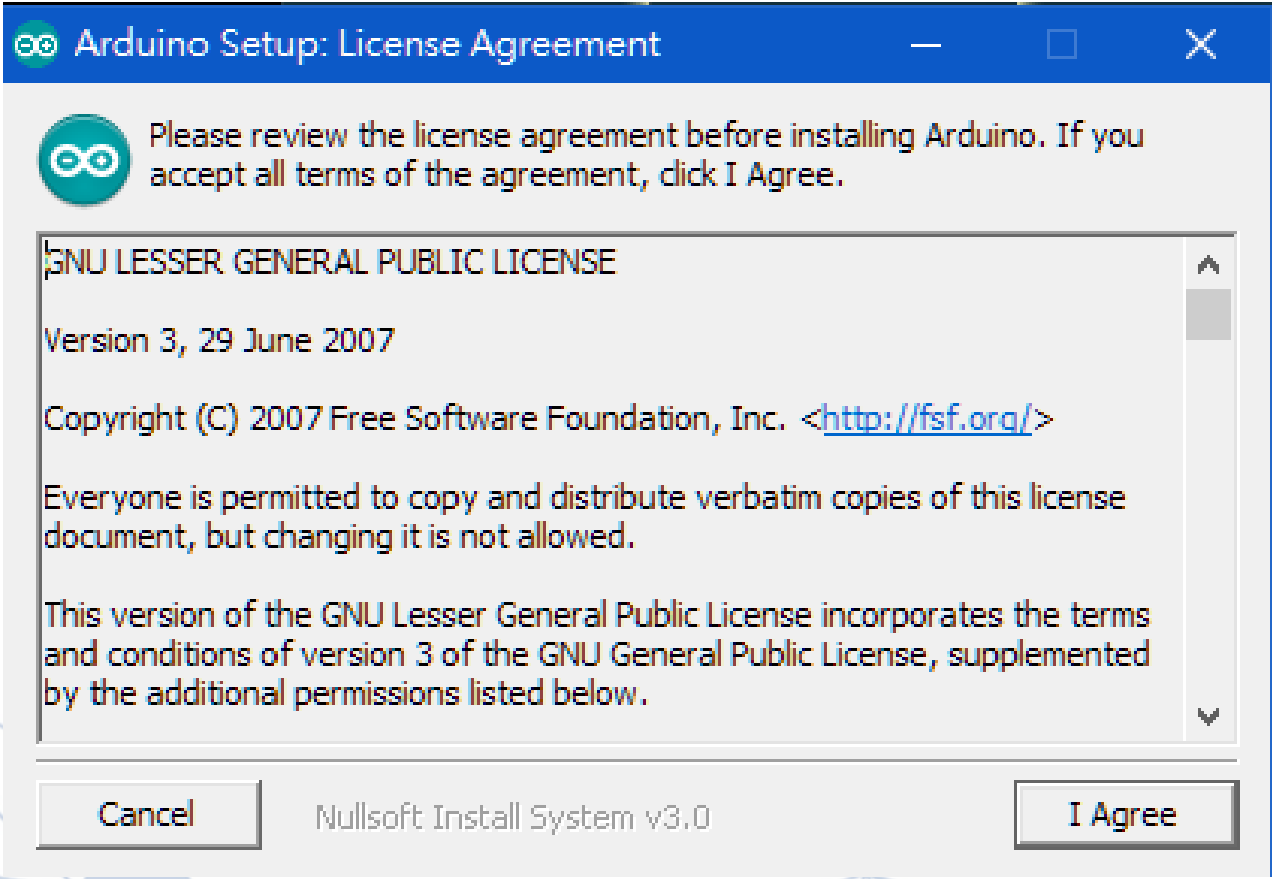
\$3\$5\$10\$25\$50OTHER

JUST DOWNLOAD

CONTRIBUTE & DOWNLOAD

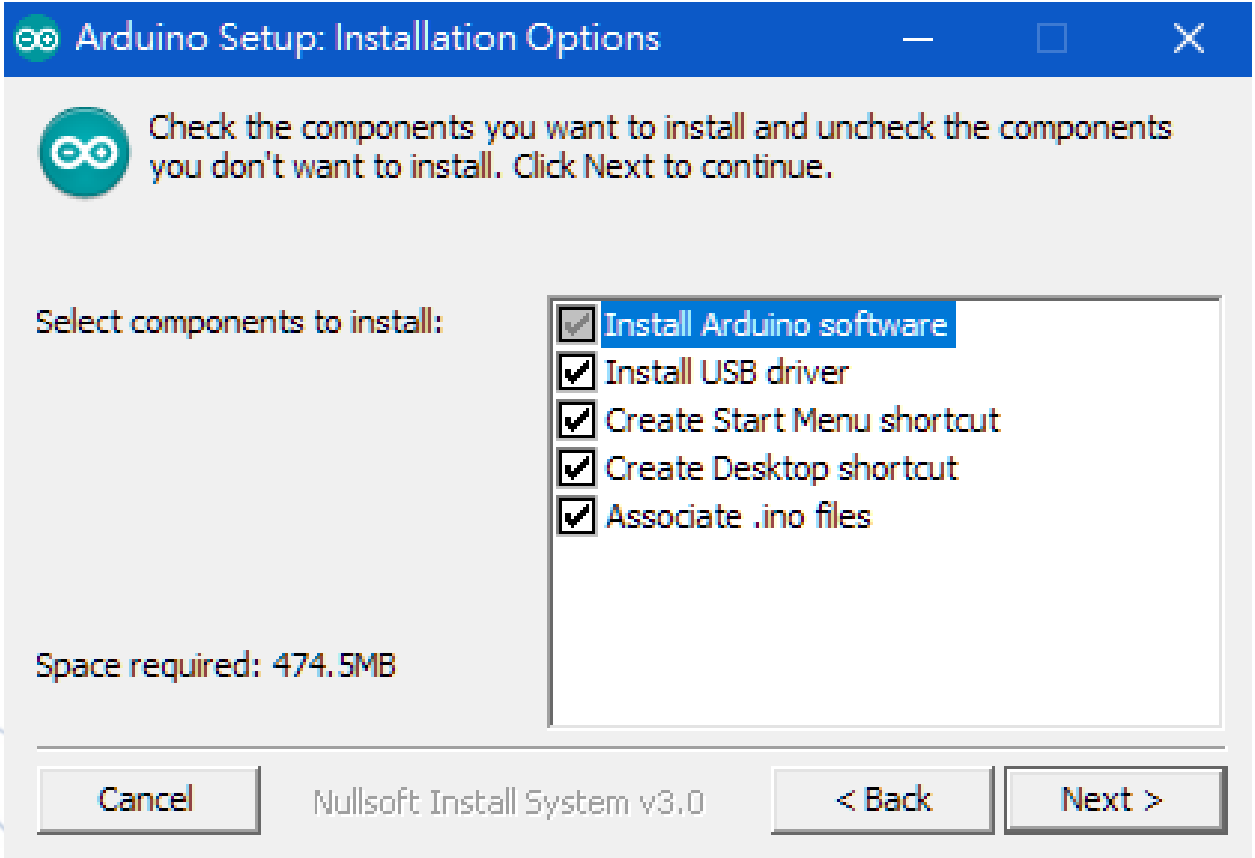


License Agreement



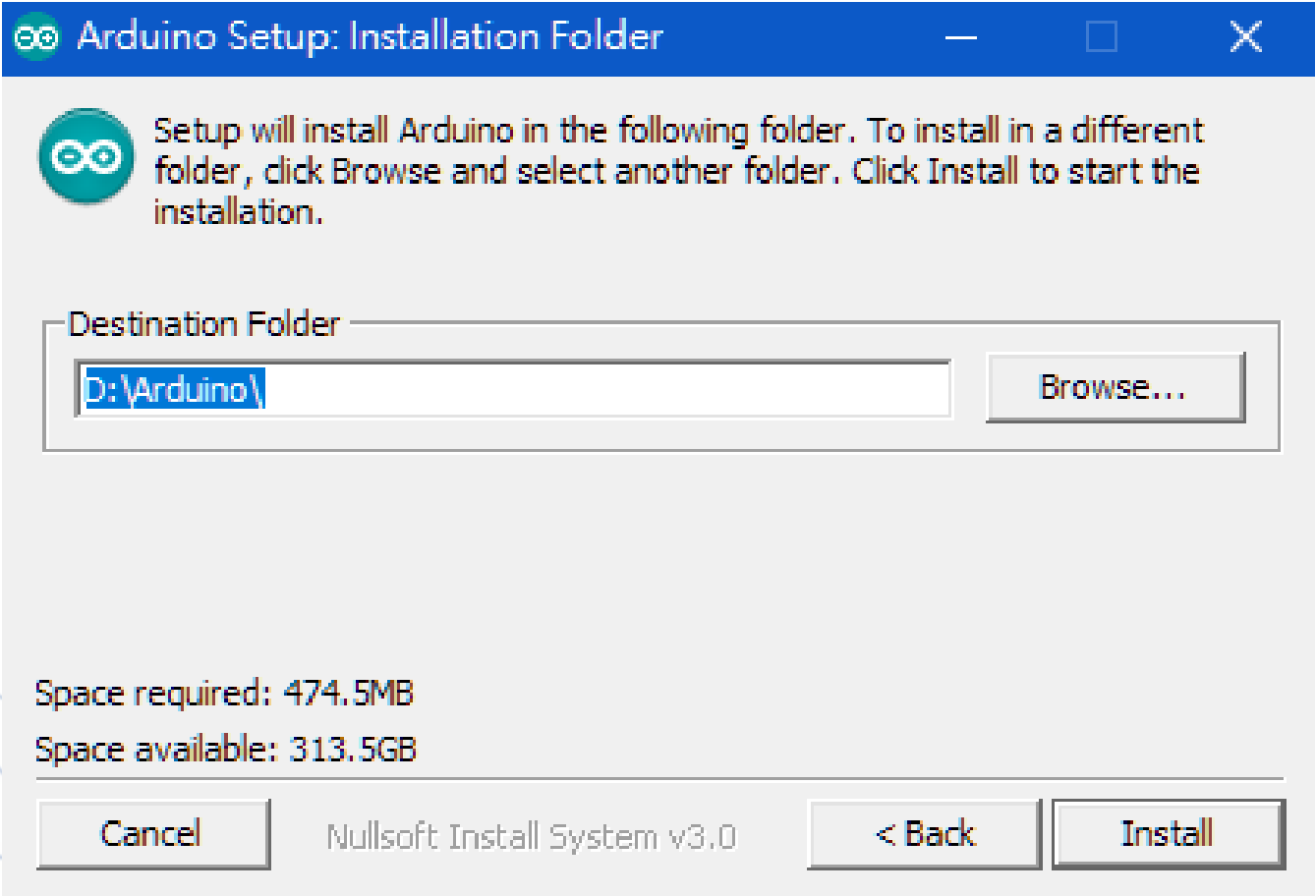


Components to Install



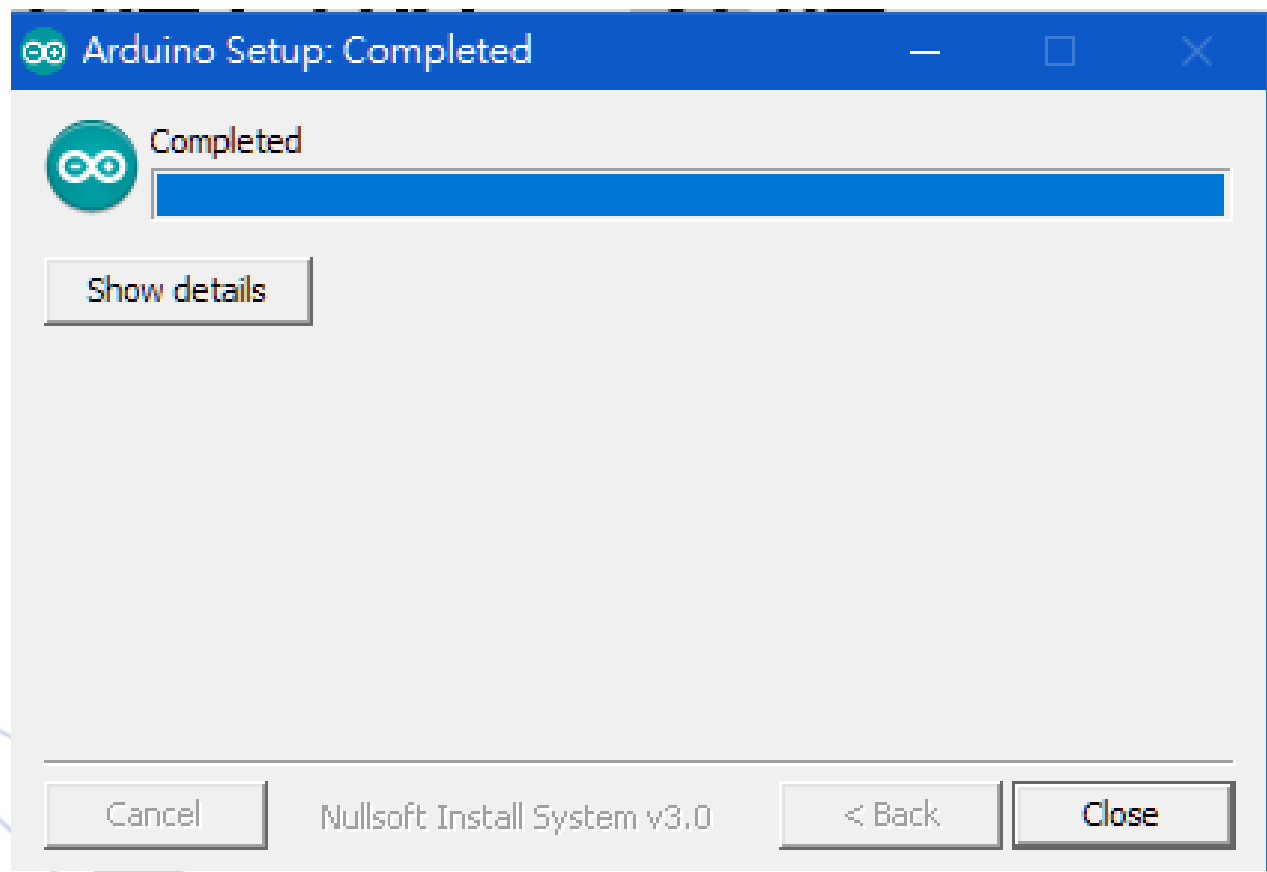


Destination Folder



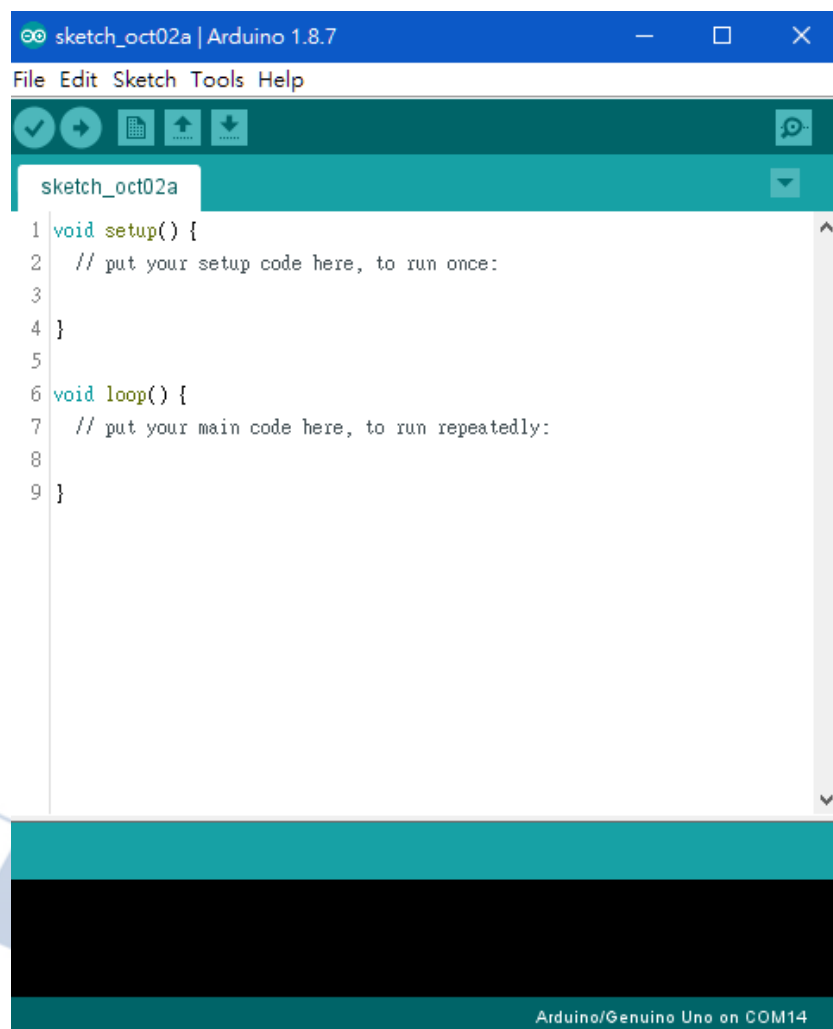


Completed





Start Arduino IDE





Import Matrix Mini Library





Method 1





Entering Matrix Robotics Website

- <http://matrixrobotics.com/downloads/matrix-mini/>





Download Matrix Mini Arduino Library

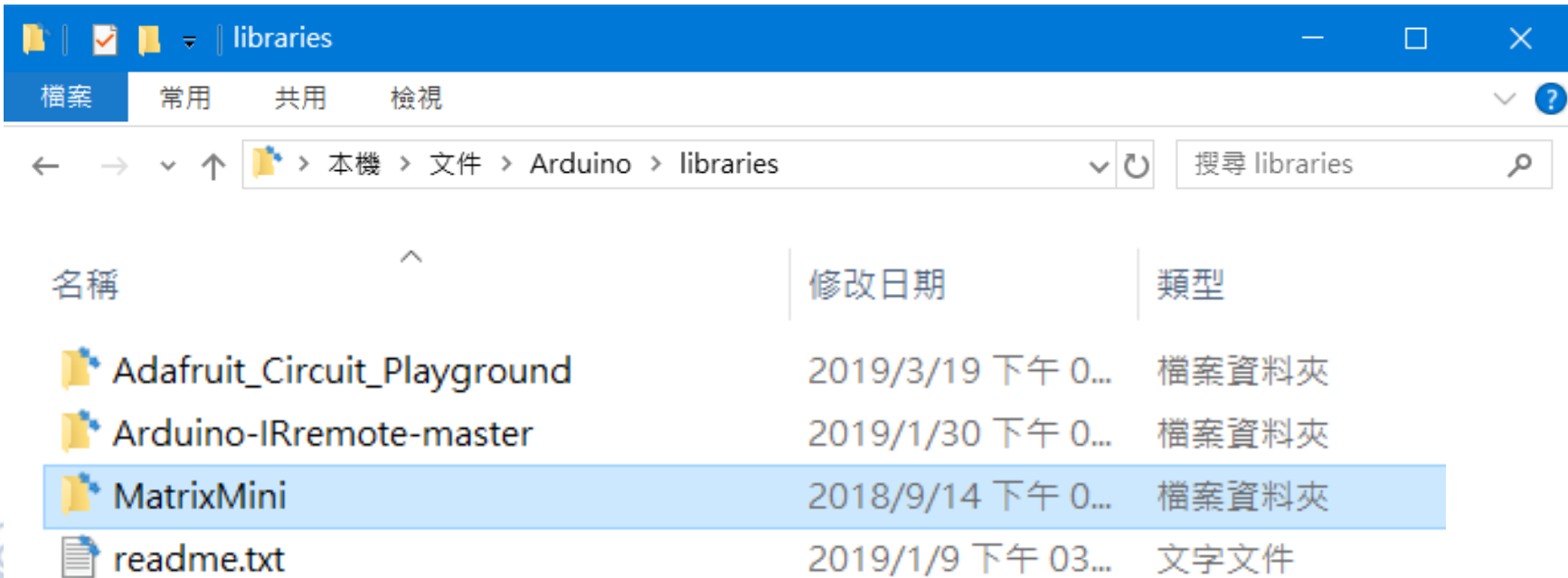
API

File name/檔案名稱	Downlaod/下載	Version/版本	Updated/更新日期
Matrix MINI Arduino Library	Download 下載	V 1.02	2018/6/22
USB Driver_FT230x	Download 下載	-	2018/7/27
Matrix MINI Bluetooth Control	Download 下載	V 2.05	2018/8/13
Matrix MINI for mBlock	Download 下載	V 1.01	2018/6/4
ScratchDevicePlugin.msi	Download 下載	V 1.01	2018/6/3



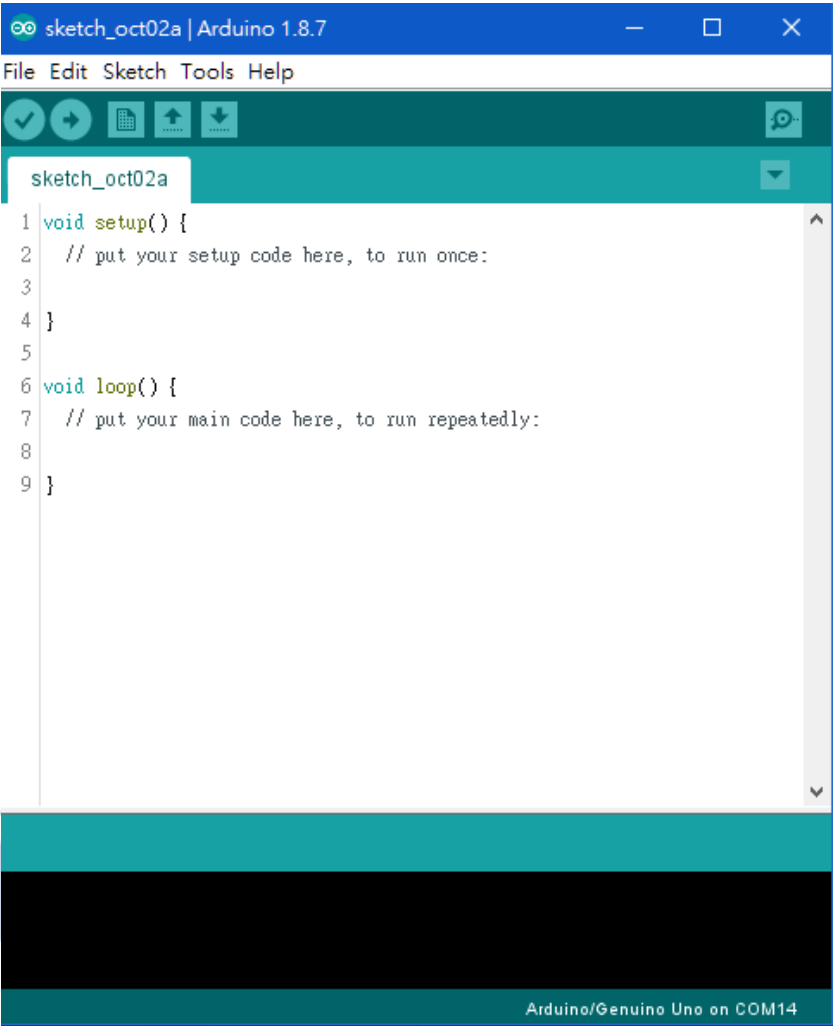
Move or Clone the Folder to Libraries

- Computer → Document → Arduino → libraries



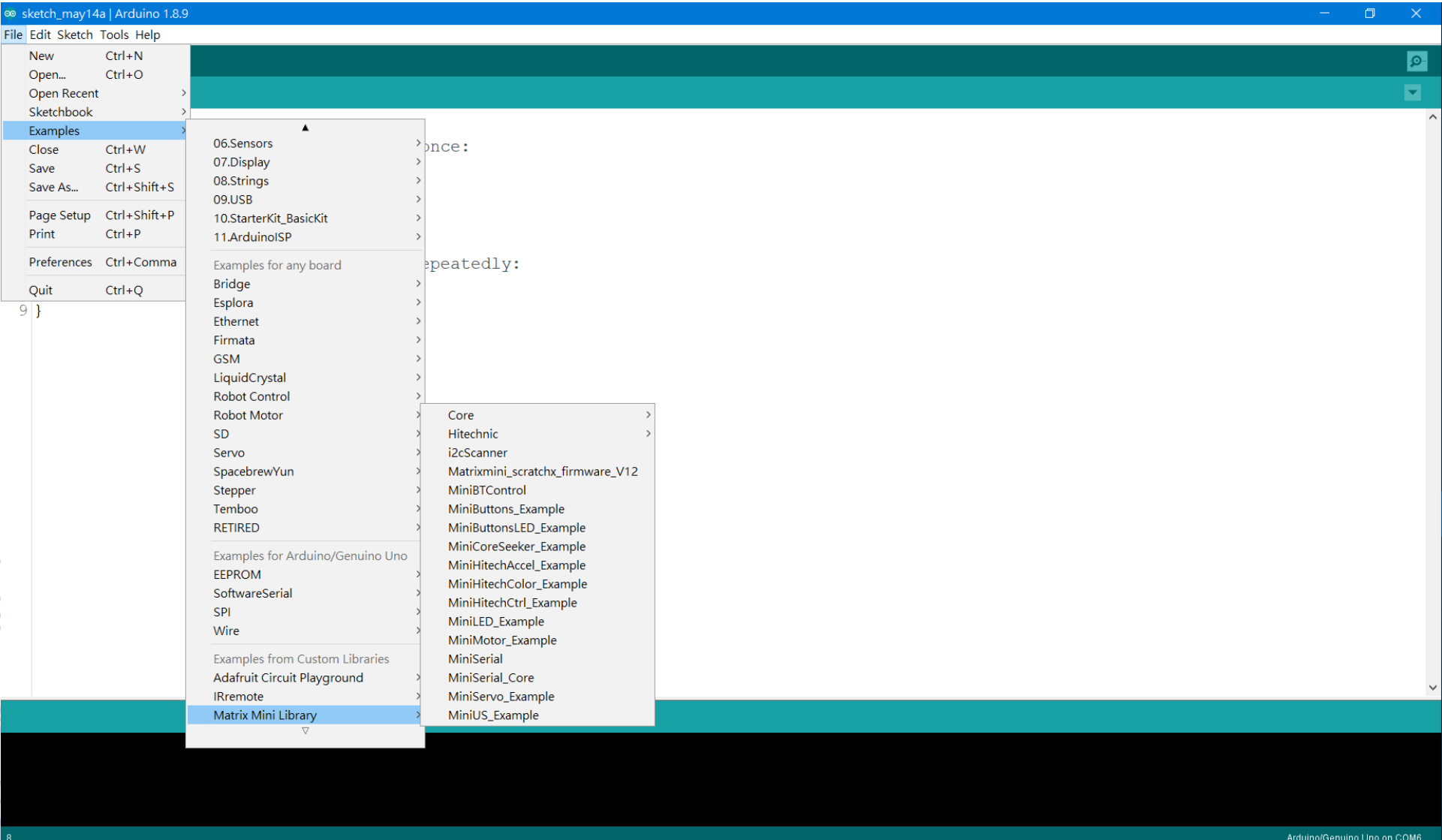


Restart Arduino IDE





Start Programming with Examples





Method 2

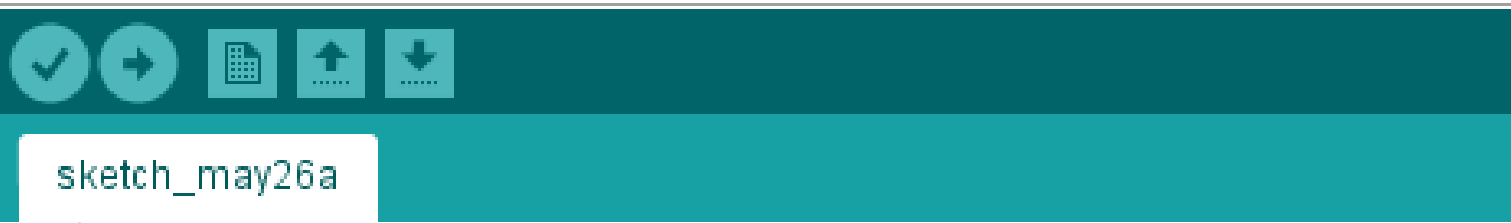




Start Arduino IDE

sketch_may26a | Arduino 1.8.8

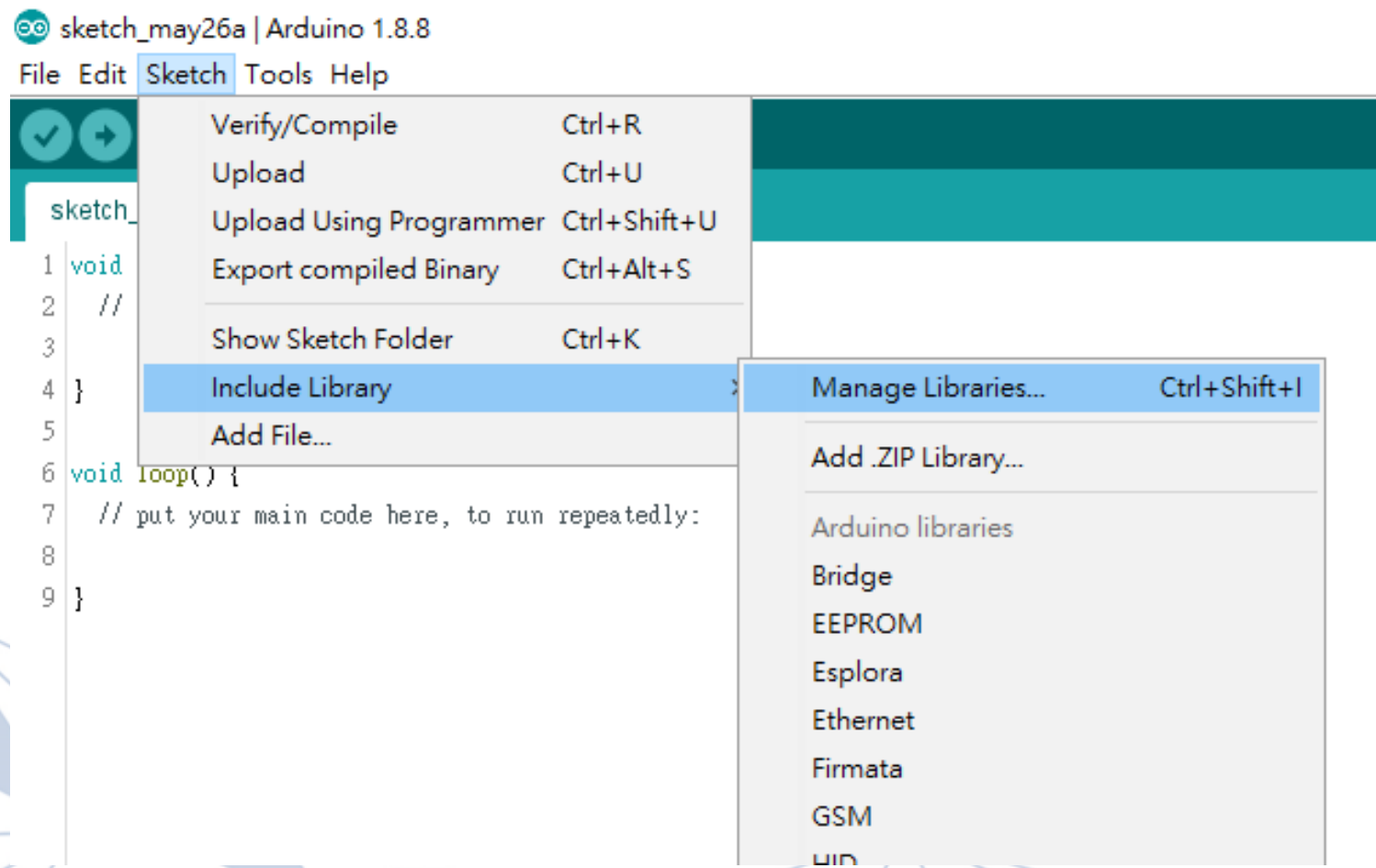
File Edit Sketch Tools Help



```
1 void setup() {  
2   // put your setup code here, to run once:  
3  
4 }  
5  
6 void loop() {  
7   // put your main code here, to run repeatedly:  
8  
9 }
```

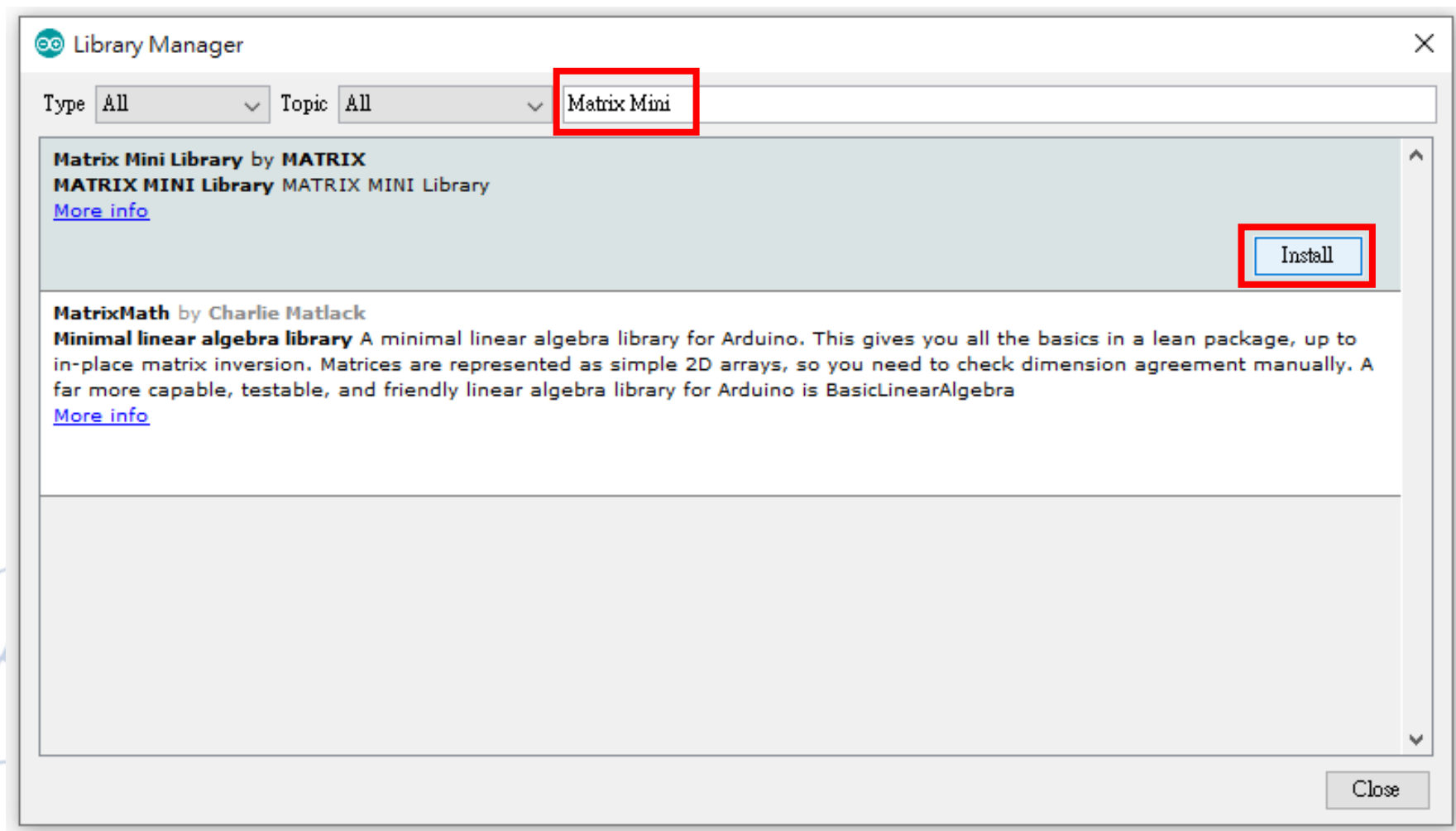


Sketch→Include Library→Manage Libraries



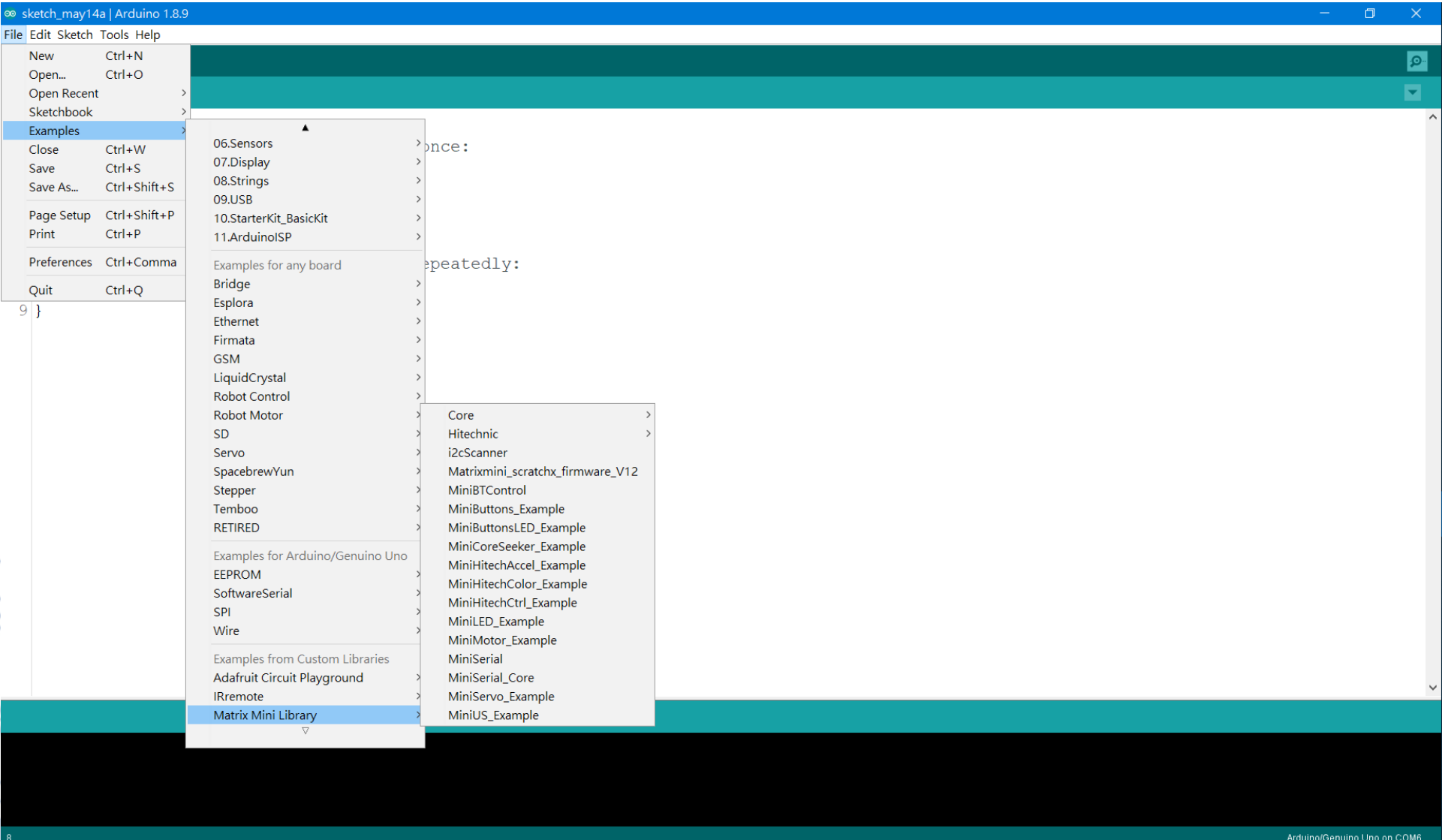


Search for Matrix Mini, Click Install





Start Programming with Examples



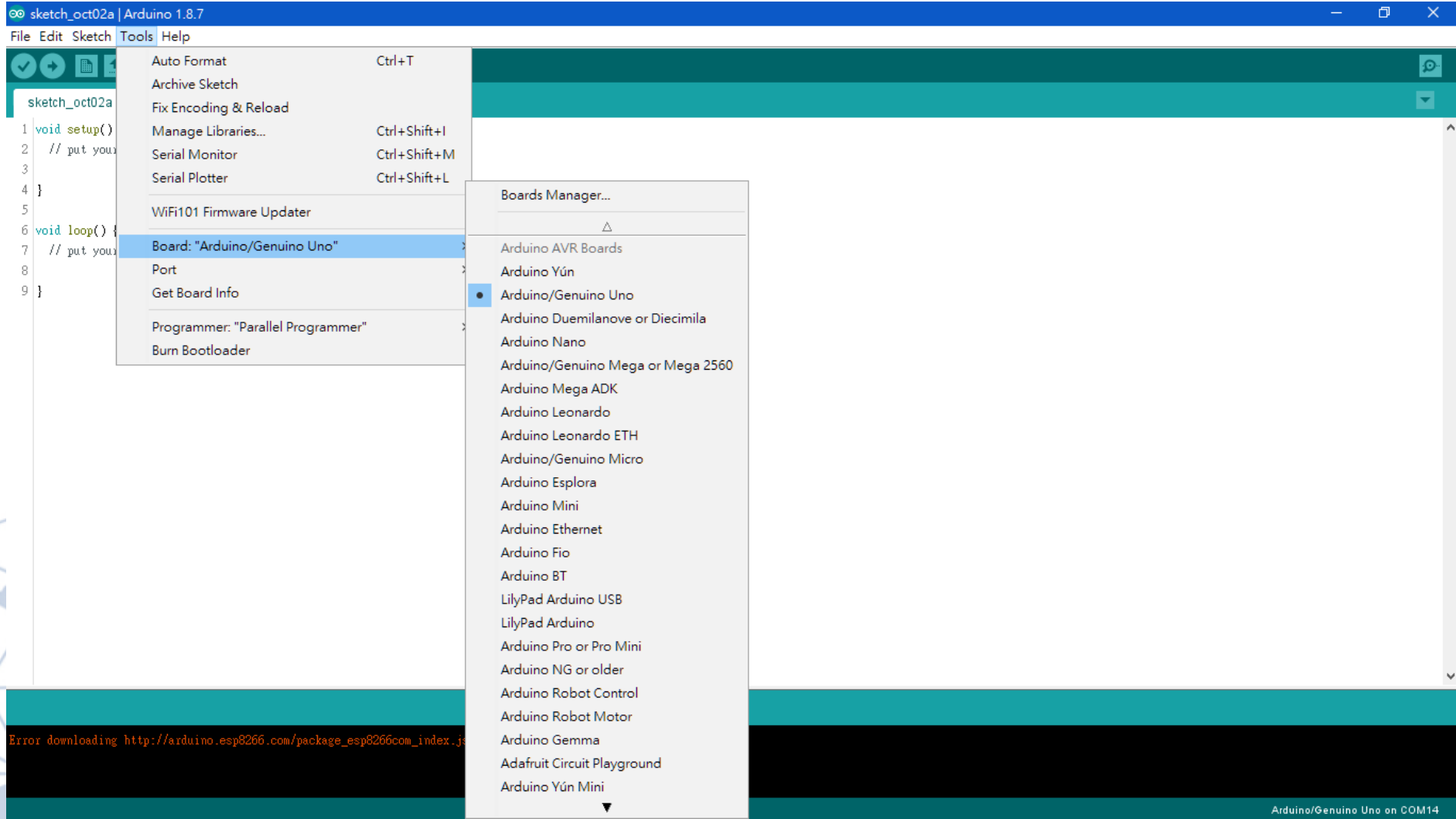


Connect Matrix Mini Controller



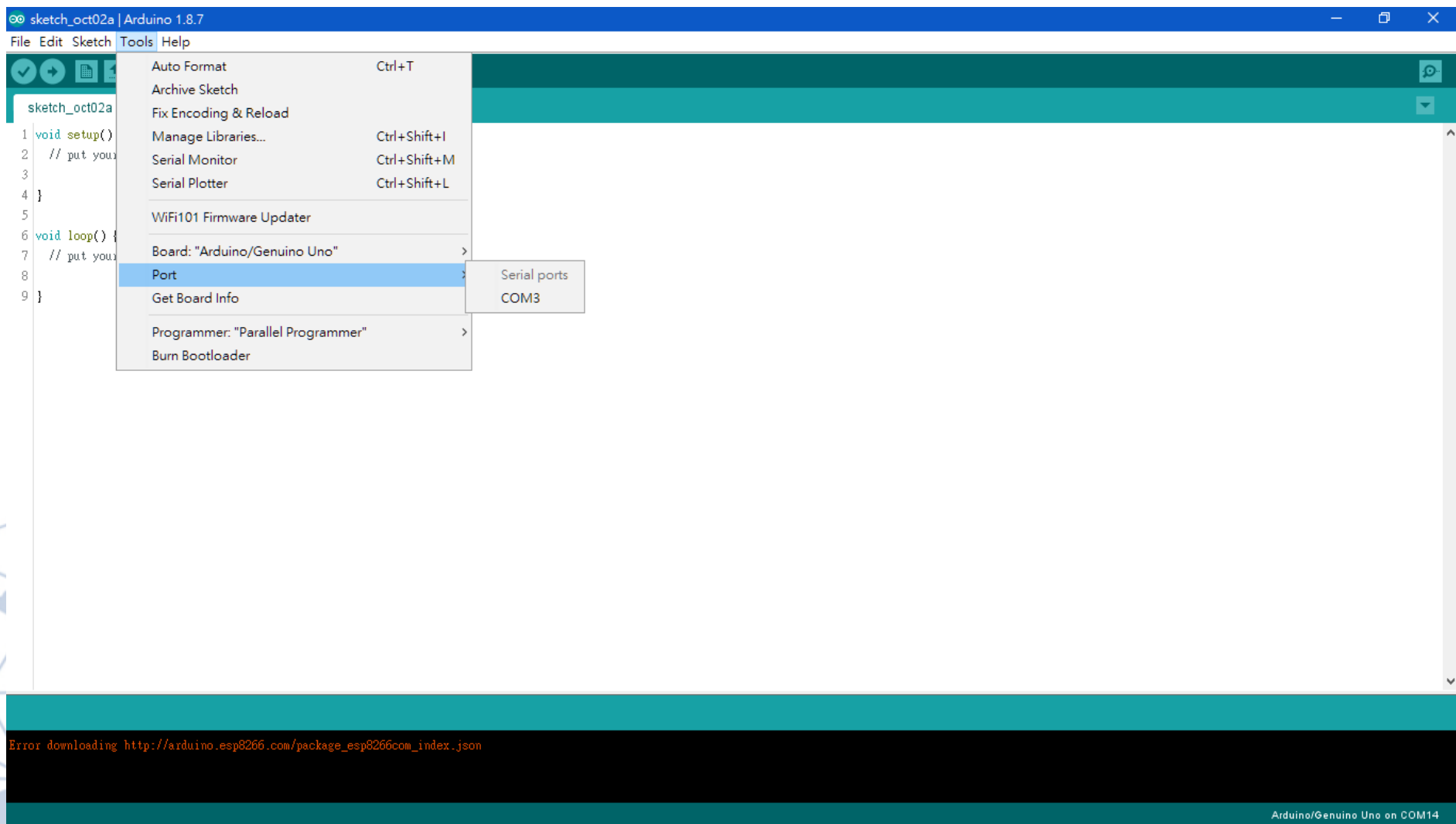


Tools→Board→Arduino Uno



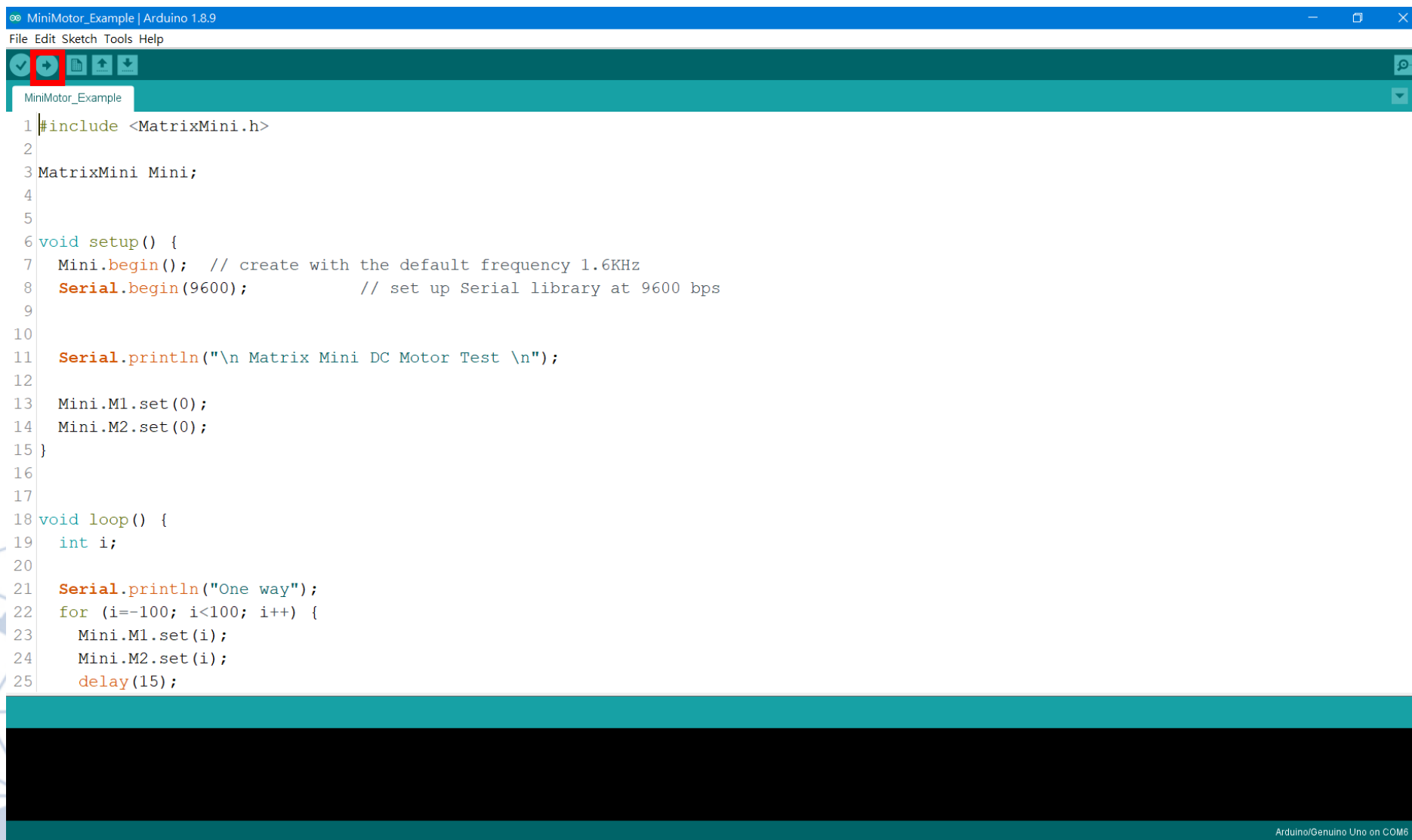


Tools→Port→Select the Com Port





Upload the Sketch



```
MiniMotor_Example | Arduino 1.8.9
File Edit Sketch Tools Help

MiniMotor_Example

1 #include <MatrixMini.h>
2
3 MatrixMini Mini;
4
5
6 void setup() {
7   Mini.begin(); // create with the default frequency 1.6KHz
8   Serial.begin(9600); // set up Serial library at 9600 bps
9
10
11   Serial.println("\n Matrix Mini DC Motor Test \n");
12
13   Mini.M1.set(0);
14   Mini.M2.set(0);
15 }
16
17
18 void loop() {
19   int i;
20
21   Serial.println("One way");
22   for (i=-100; i<100; i++) {
23     Mini.M1.set(i);
24     Mini.M2.set(i);
25     delay(15);
```

Arduino/Genuino Uno on COM6

A decorative geometric pattern in the top-left corner consisting of a network of blue lines forming various polygons. Some of these polygons are filled with a bright yellow color. A stylized blue icon of a robotic arm is integrated into the pattern.

MANY THANKS!

A decorative geometric pattern in the bottom-right corner, mirroring the one in the top-left. It features a network of blue lines with some yellow-filled polygons and a stylized blue robotic arm icon.