

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

The screenshot shows the Arduino website's navigation menu with the following items: HOME, STORE, SOFTWARE, EDUCATION, RESOURCES, COMMUNITY, and HELP. The 'SOFTWARE' menu is expanded, showing 'ONLINE TOOLS' and 'DOWNLOADS' (which is highlighted). The main content area features a 'WHAT IS ARDUINO?' section with an image of an Arduino Uno board, a 'BUY AN ARDUINO' button with a shopping cart icon, a 'LEARN ARDUINO' button with a bell icon, and a 'DONATE' button with a heart icon. A featured article titled 'CUSTOM "DOORBELL" FLASHES HOUSE LIGHTS FOR THE HEARING IMPAIRED' is displayed with a 'BLOG' tag. On the right, there is a 'CODE ONLINE!' section with the Arduino logo and links for '> ARDUINO', '> WEB EDITOR', and '> CODE ONLINE!'. Below this is a screenshot of the Arduino IDE web editor showing a code window with the following code:

```
void setup(){  
  }  
  
void loop(){  
  }  
}
```

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

Select the Version for Your OS

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

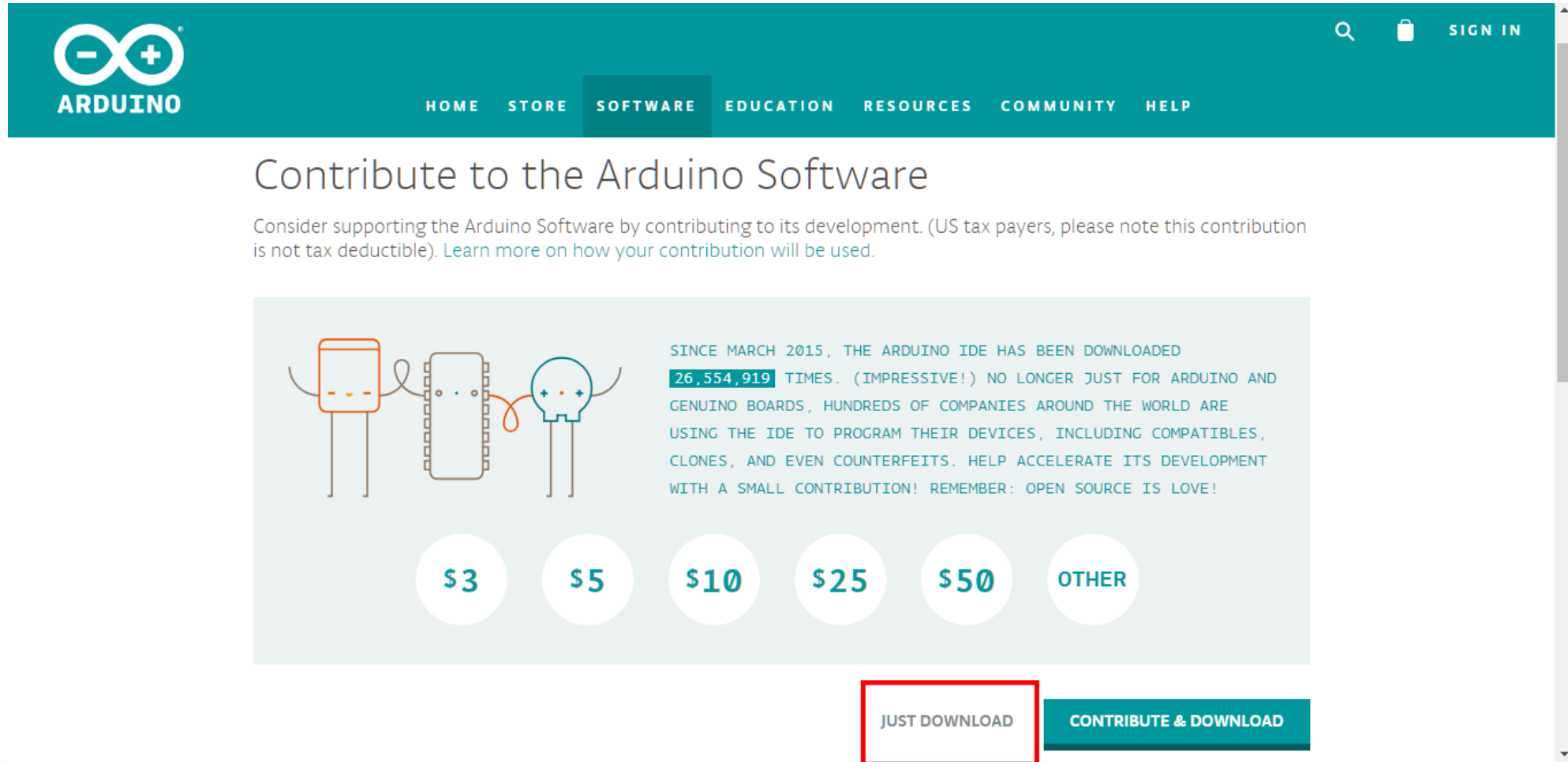
BETA BUILDS

 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

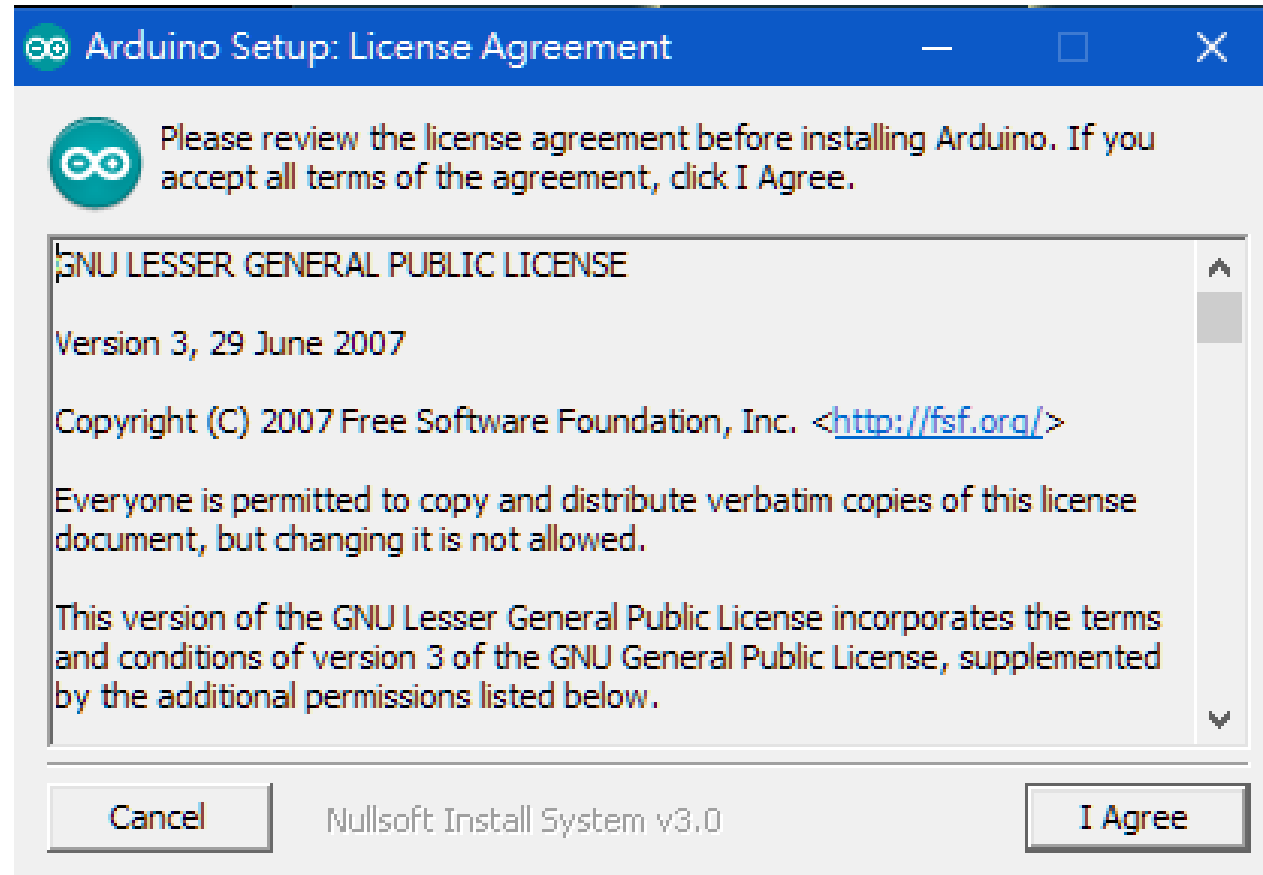


The screenshot shows the Arduino Software page. At the top is a teal navigation bar with the Arduino logo on the left and search, shopping cart, and 'SIGN IN' on the right. Below the navigation bar are menu items: HOME, STORE, SOFTWARE (highlighted), EDUCATION, RESOURCES, COMMUNITY, and HELP. The main heading is 'Contribute to the Arduino Software'. Below it is a paragraph: '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.](#)'

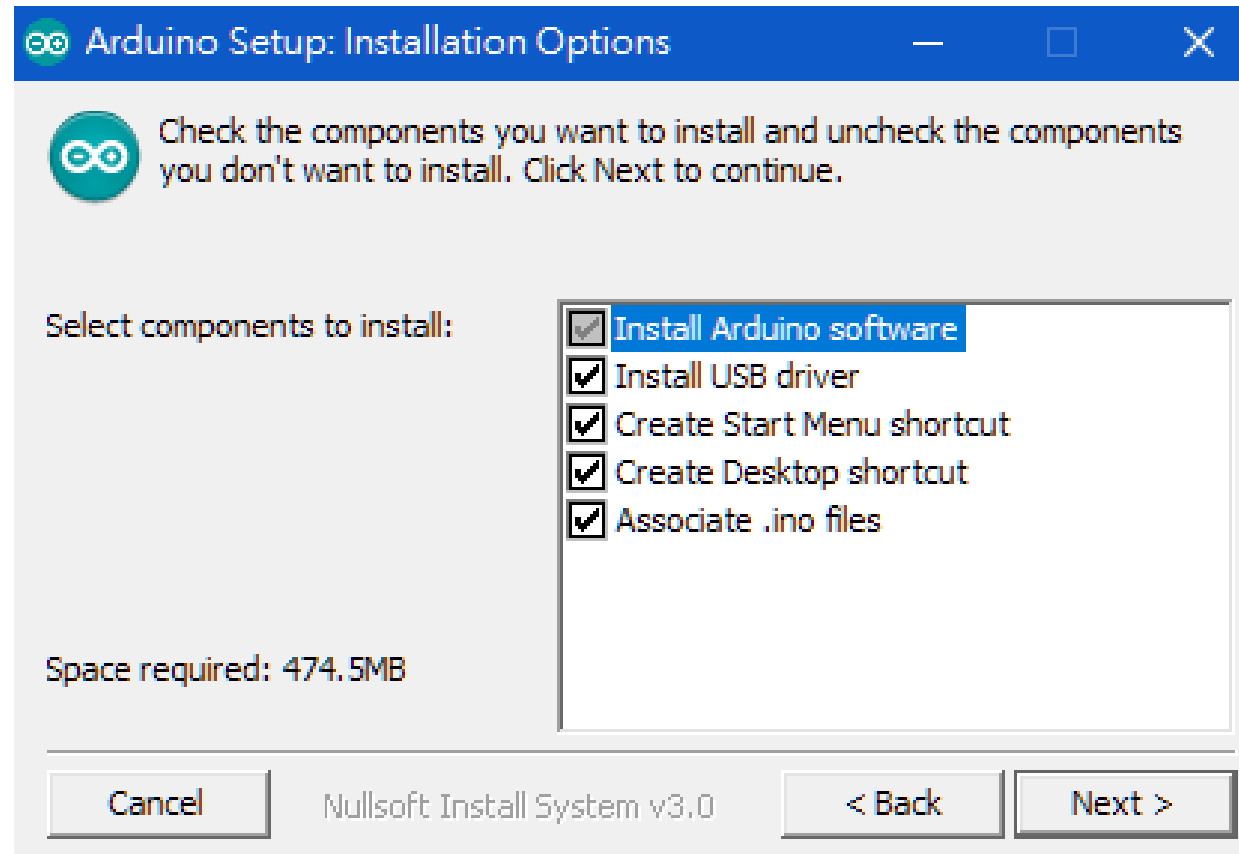
The main content area features an illustration of three stylized characters: an orange square, a brown rectangle, and a blue circle, all with arms and legs. To the right of the illustration is text: 'SINCE MARCH 2015, THE ARDUINO IDE HAS BEEN DOWNLOADED **26,554,919** TIMES. (IMPRESSIVE!) NO LONGER JUST 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!'

Below the text are six circular buttons for contribution amounts: \$3, \$5, \$10, \$25, \$50, and OTHER. At the bottom of the page are two buttons: 'JUST DOWNLOAD' (highlighted with a red border) and 'CONTRIBUTE & DOWNLOAD'.

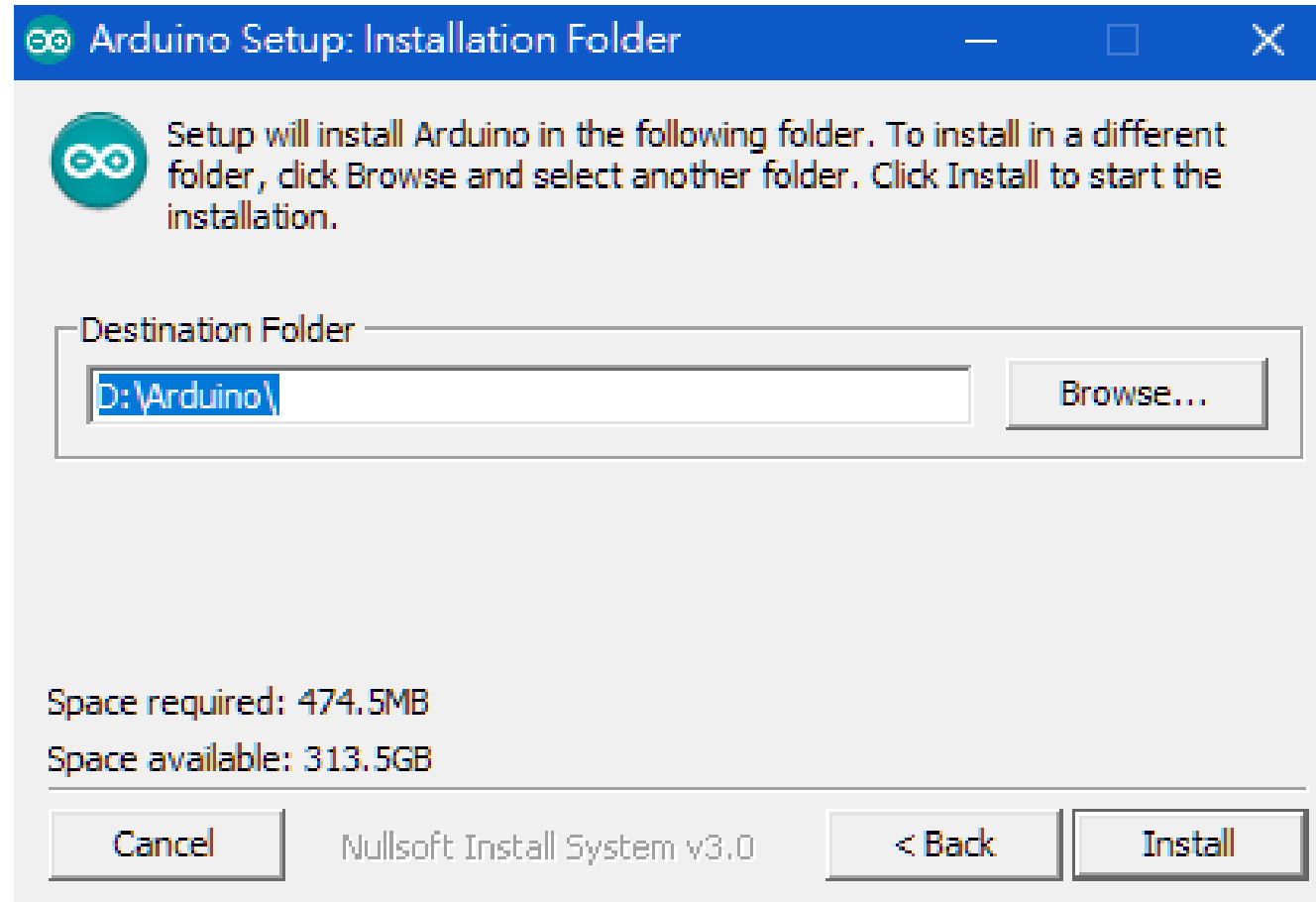
License Agreement



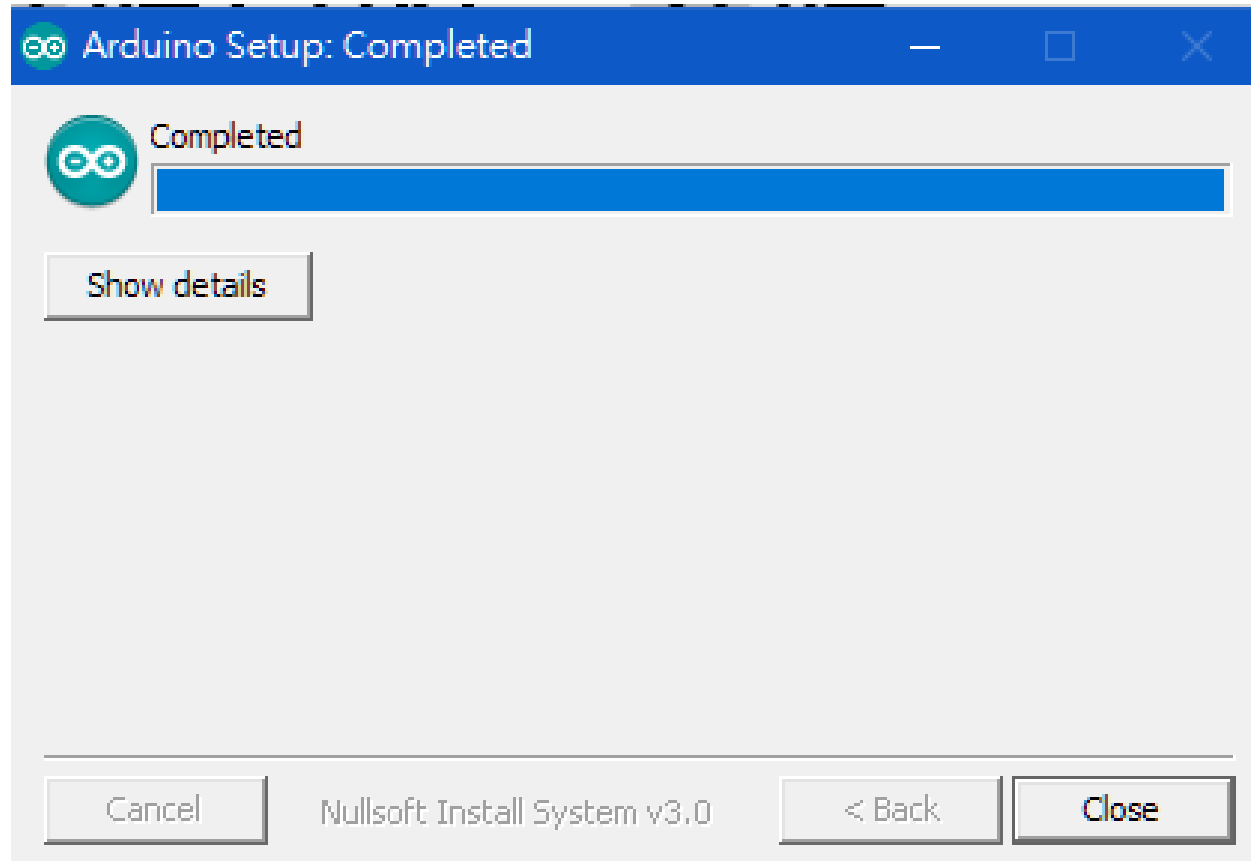
Components to Install



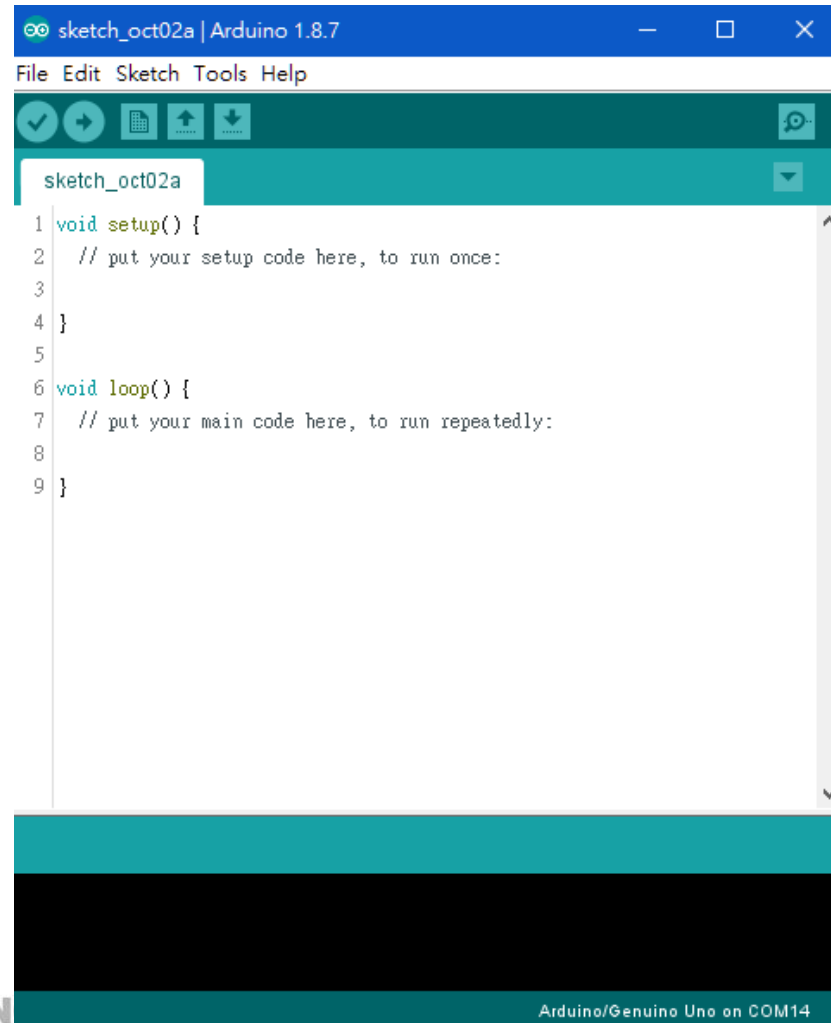
Destination Folder



Completed



Start Arduino IDE



The screenshot shows the Arduino IDE window titled "sketch_oct02a | Arduino 1.8.7". The menu bar includes "File", "Edit", "Sketch", "Tools", and "Help". Below the menu bar is a toolbar with icons for checkmark, run, upload, download, and a gear. The sketch editor shows a blank sketch named "sketch_oct02a" with the following code:

```
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 }
```

At the bottom of the IDE, there is a status bar that reads "Arduino/Genuino Uno on COM14".

Import Matrix Mini Library

Start Arduino IDE

sketch_may26a | Arduino 1.8.8

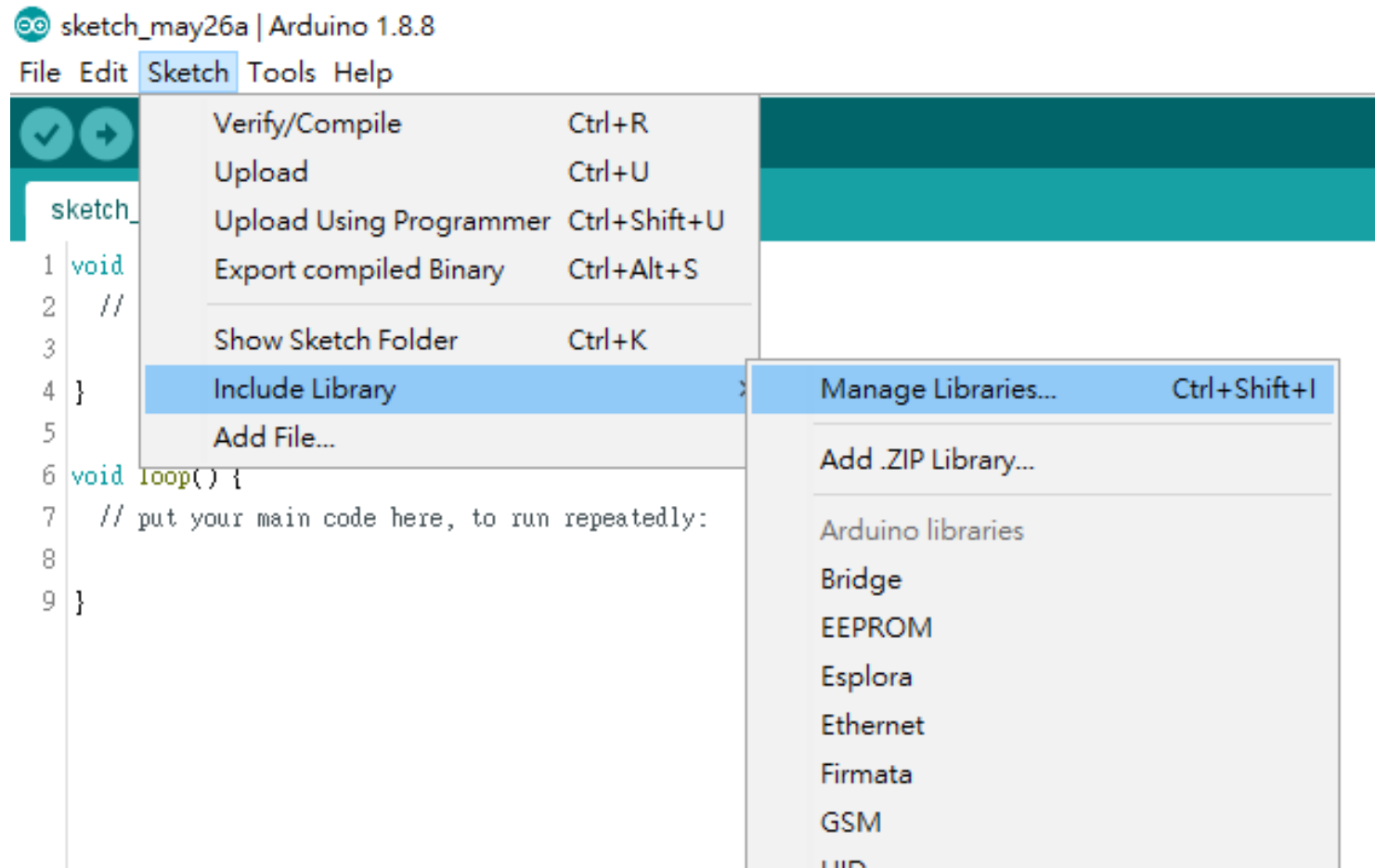
File Edit Sketch Tools Help



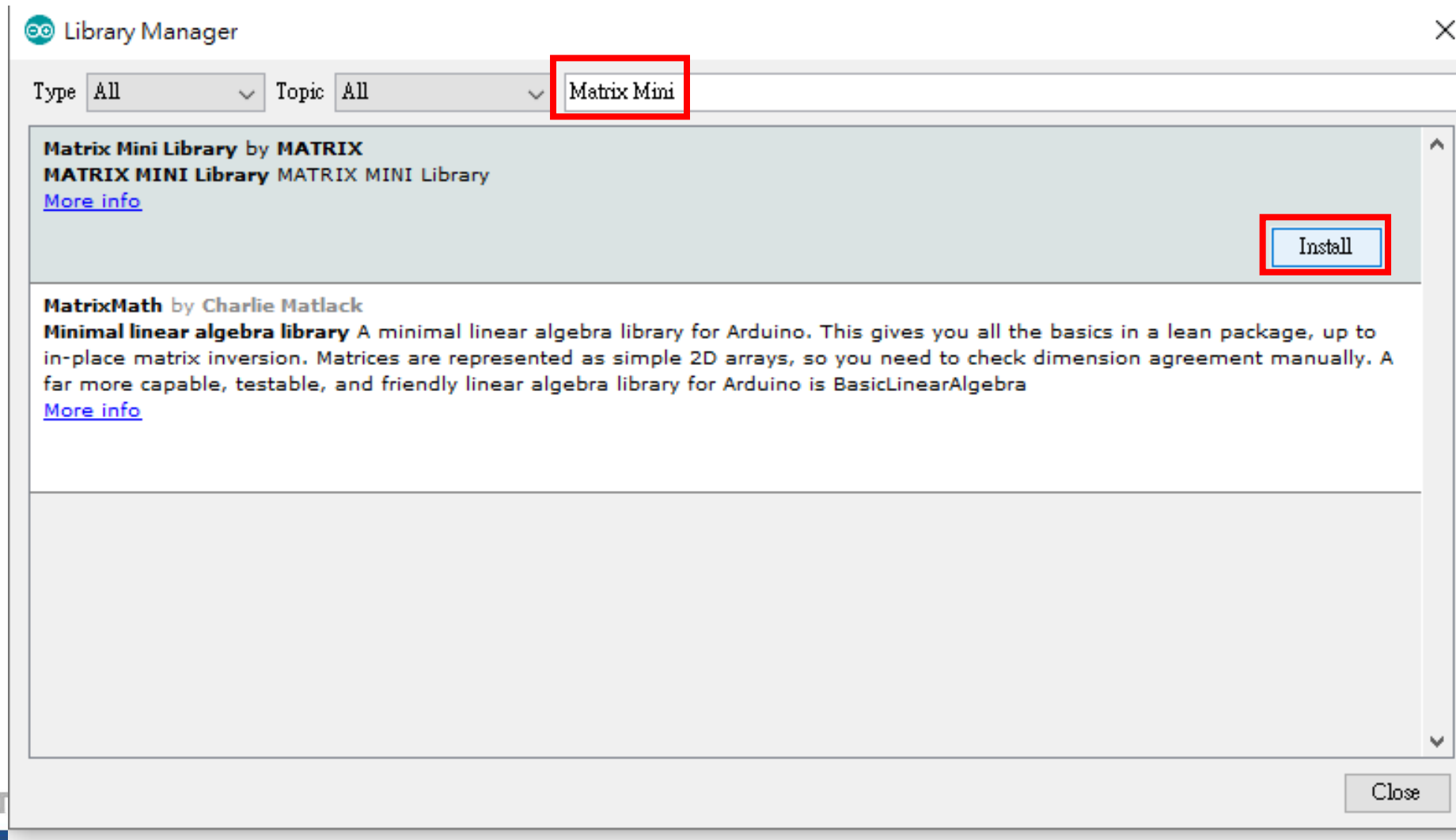
sketch_may26a

```
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 }
```

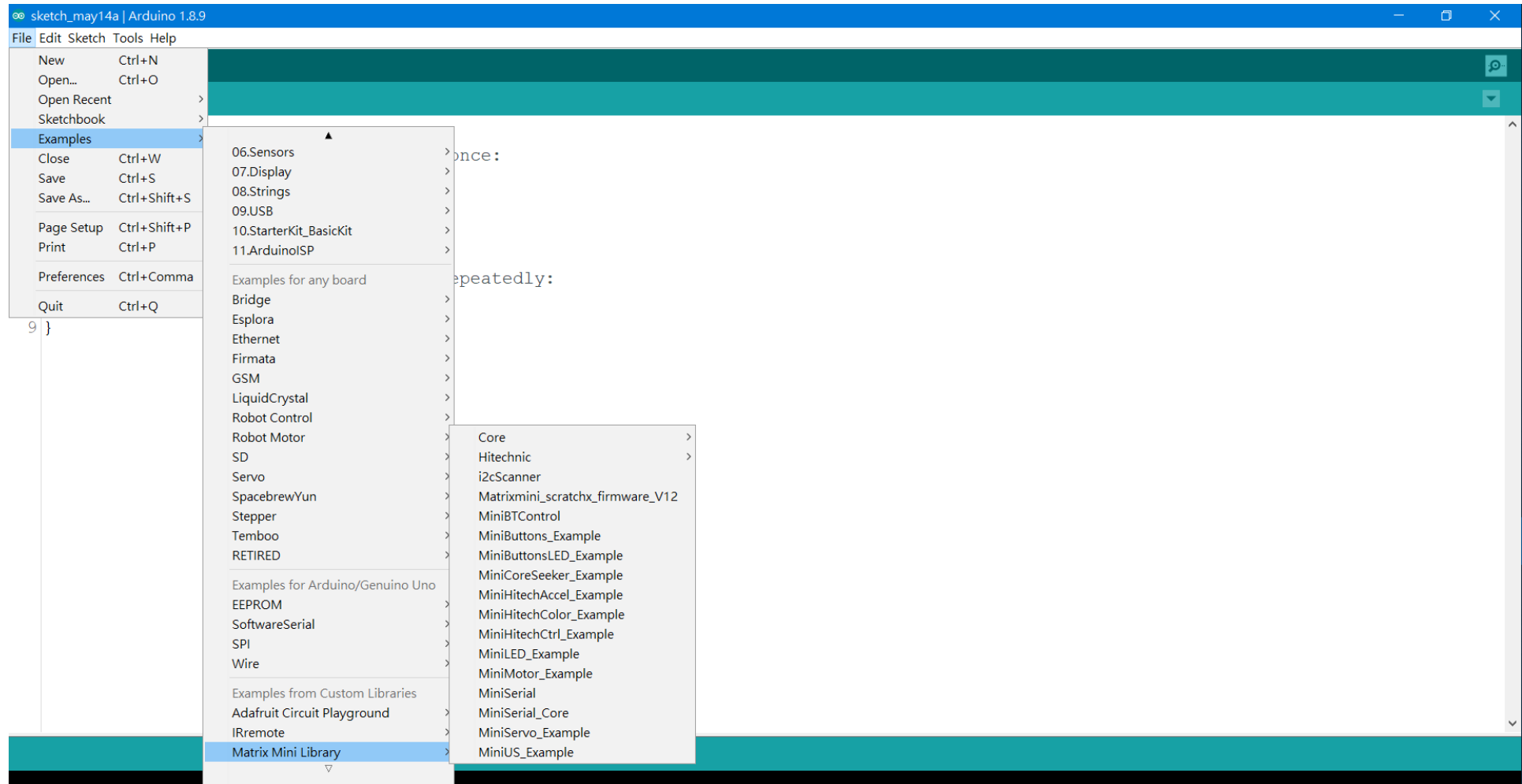
Sketch → Include Library → Manage Libraries



Search for Matrix Mini, Install the Latest Version

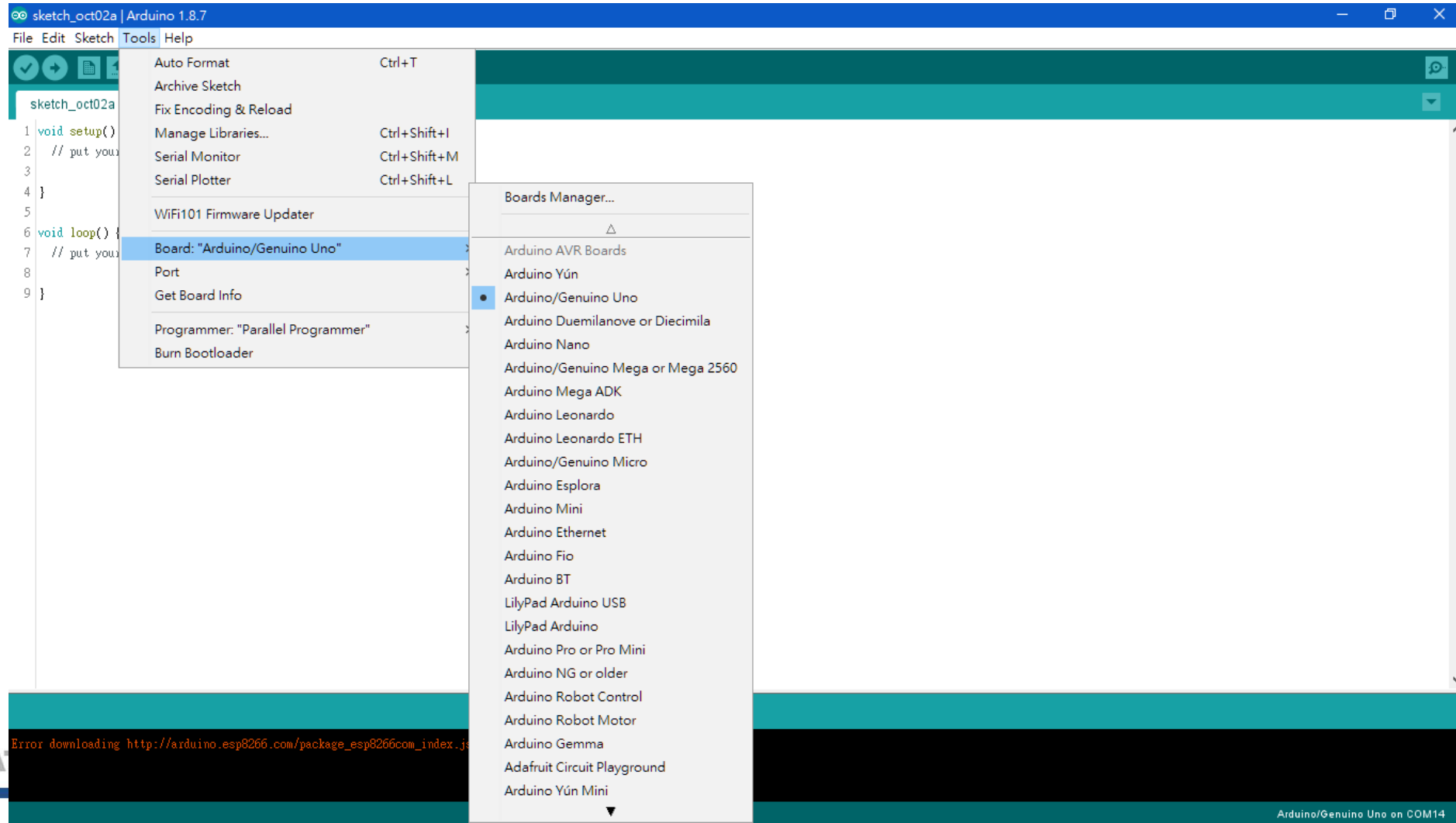


Start Programming with Examples

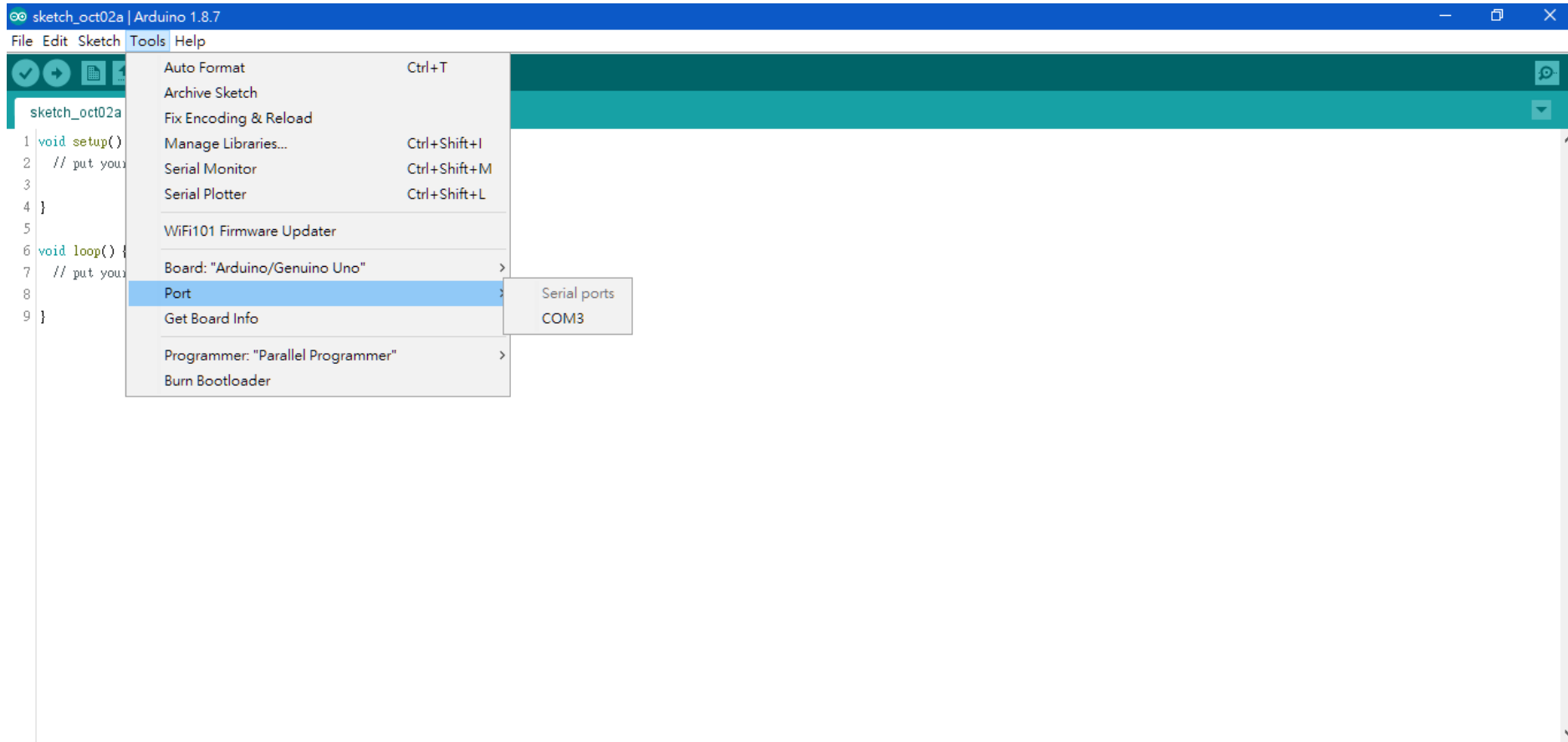


Connect Matrix Mini Controller

Tools → Board → Arduino Uno




Tools → Port → Select the Com Port



Error downloading http://arduino.esp8266.com/package_esp8266com_index.json

Upload the Sketch



The screenshot shows the Arduino IDE window titled "MiniMotor_Example | Arduino 1.8.9". The menu bar includes "File", "Edit", "Sketch", "Tools", and "Help". The toolbar contains several icons, with the "Upload" icon (a right-pointing arrow) highlighted by a red square. Below the toolbar, the sketch editor displays the following code:

```
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);
```

