

Step1: Download Driver

Go to the Silicon Labs website and download the CP210x Universal Windows Driver (latest v11.4.0)

Download and Install VCP Drivers

Downloads for Windows, Macintosh, Linux and Android below.

*Note: The Linux 3.x.x and 4.x.x version of the driver is maintained in the current Linux 3.x.x and 4.x.x tree at www.kernel.org.

Software Downloads

Software (11)

Software · 11

CP210x Universal Windows Driver	v11.4.0 12/18/2024
CP210x VCP Mac OSX Driver	v6.0.3 5/30/2025
CP210x VCP Windows	v6.7 9/3/2020
CP210x Windows Drivers	v6.7.6 9/3/2020
CP210x Windows Drivers with Serial Enumerator	v6.7.6 9/3/2020

Download this one for Windows

[Show 6 more Software](#)

Legacy OS Software Versions

Driver Package download links and support information

[Explore Versions](#)

Serial Enumeration Driver

What is the serial enumeration driver and why would I need it?

[Read More](#)

Step 2: Extract the Files

 CP210x_Windows_Drivers	8/26/2025 4:22 PM
 Download	8/26/2025 4:34 PM
 arduino-ide_2.3.6_Windows_64bit	8/26/2025 4:14 PM
 CP210x_Windows_Drivers	8/26/2025 4:19 PM

Extract the folder

Step 3: Install the Driver

Double-click 'CP210xVCPInstaller_x64.exe' (for 64-bit Windows) / 'CP210xVCPInstaller_x86.exe' (for 32-bit Windows)

The installer window will open, click Next / Install. If Windows shows a security prompt, click Allow or Install.

Wait for the progress bar to complete. When it shows Installation Complete, click Finish.

 x64	8/26/2025 4:22 PM
 x86	8/26/2025 4:22 PM
 CP210xVCPInstaller x64 install this	8/26/2025 4:22 PM
 CP210xVCPInstaller_x86	8/26/2025 4:22 PM
 dpinst	8/26/2025 4:22 PM
 SLAB_License_Agreement_VCP_Wind...	8/26/2025 4:22 PM
 slabvcp	8/26/2025 4:22 PM
 slabvcp	8/26/2025 4:22 PM
 v6-7-6-driver-release-notes	8/26/2025 4:22 PM

Step 4: Connect the Grove Board

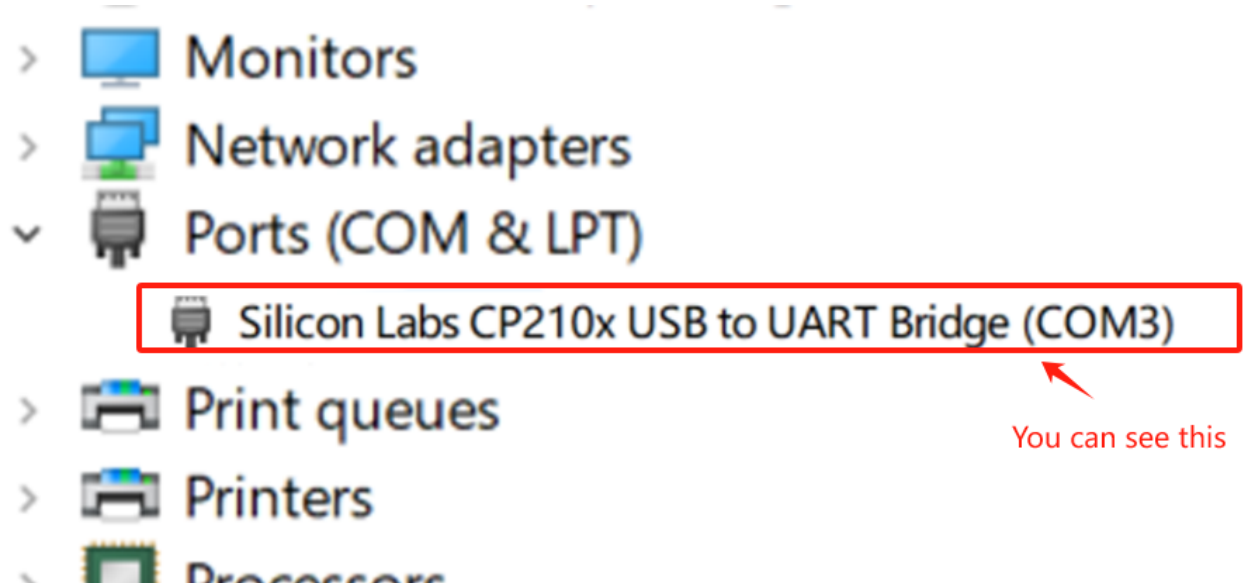
Use the USB cable to connect your Grove Beginner Kit to the computer

Step 5: Confirm Driver Installation

Open Device Manager (Right-click the Start Menu to Device Manage)

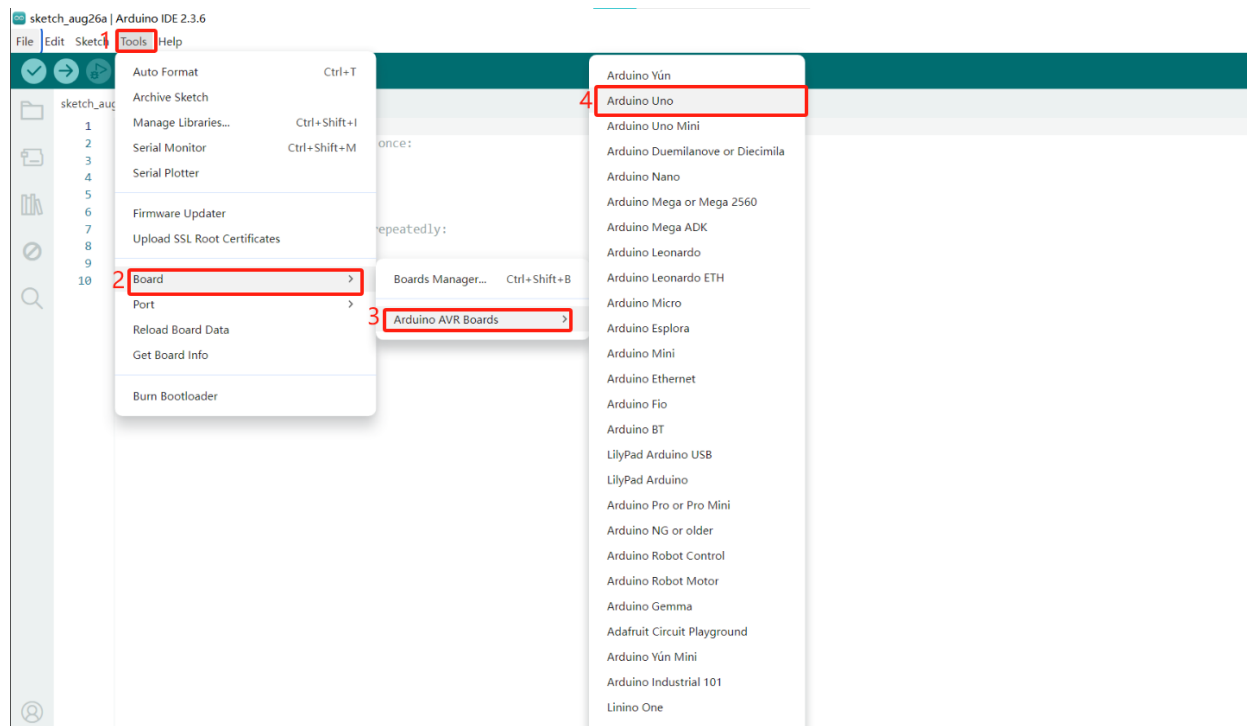
Expand Ports (COM & LPT). You should see something like:

'Silicon Labs CP210x USB to UART Bridge (COM3)'

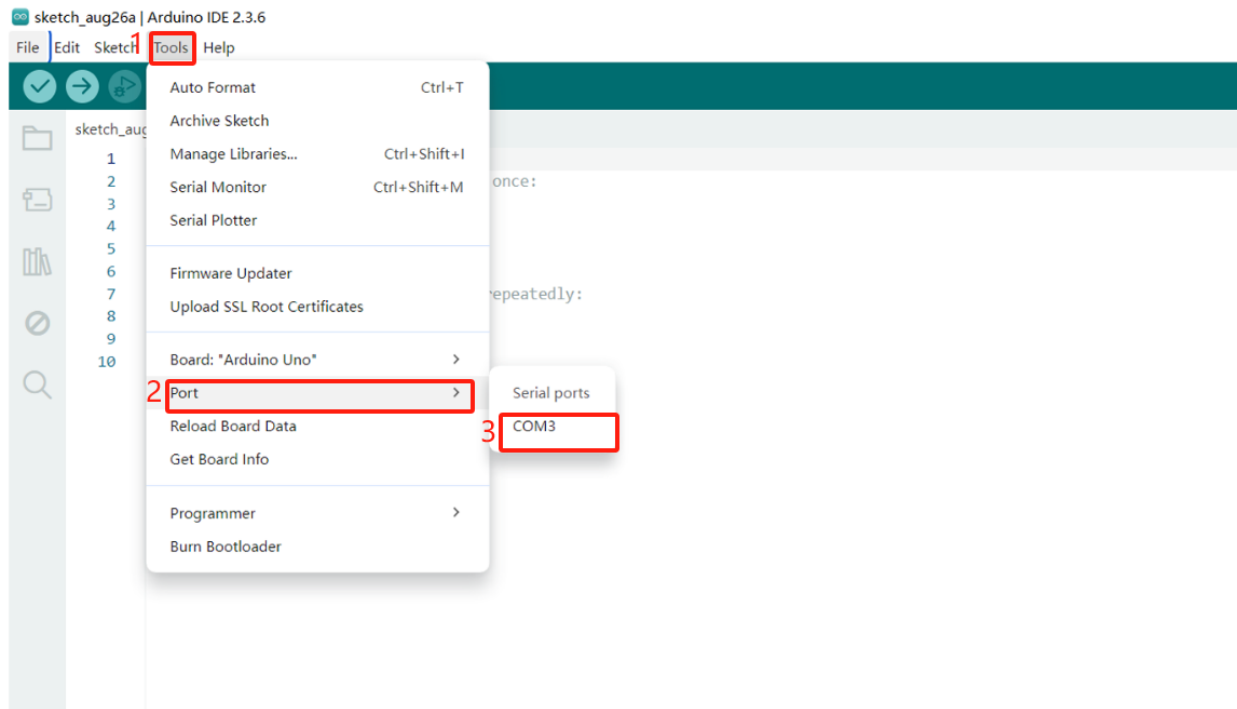


Step 6: Set Up in Arduino IDE

Open **Arduino IDE** → **Tools** → **Board** → select **Arduino Uno**



Go to **Tools** → **Port** → choose the COM port you saw in Device Manager (e.g., **COM3**).



Upload a test sketch (for example, blink the onboard LED) to confirm everything is working

```
sketch_aug26a.ino
1 //The sound sensor detects sounds and lights up an LED
2
3 int soundPin = A2; //connect sound sensor to A2
4 int ledPin = 4; //connect LED to D4
5 void setup() {
6   pinMode(ledPin, OUTPUT);
7   Serial.begin(9600);
8 }
9 void loop(){
10  int soundState = analogRead(soundPin); //read sound sensor's value
11  Serial.println(soundState);
12  if (soundState > 200) {
13    digitalWrite(ledPin, HIGH); //when a sufficiently loud sound is detected, LED turns on
14    delay(10);
15  }
16  {
17    digitalWrite(ledPin, LOW); //when it's quiet (sound ends), LED turns off
18  }
19 }
20
21
```