

Arduino Environment Building

1 Arduino IDE download

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Downloads



Arduino IDE 1.8.16

The open-source Arduino Software (IDE) makes it easy to write code and upload it to the board. This software can be used with any Arduino board.

Refer to the [Getting Started](#) page for Installation instructions.

SOURCE CODE

Active development of the Arduino software is [hosted by GitHub](#). See the instructions for [building the code](#). Latest release source code archives are available [here](#). The archives are PGP-signed so they can be verified using [this](#) gpg key.

DOWNLOAD OPTIONS

Windows Win 7 and newer
Windows ZIP file

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

Linux 32 bits
Linux 64 bits
Linux ARM 32 bits
Linux ARM 64 bits

Mac OS X 10.10 or newer

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

Arduino IDE Download Address

- [Arduino Official Website](#)
- [Windows X64](#)
- [Mac OS X](#)
- [Linux ARM 64](#)

2 Installed drivers

Before burning the program, M5Core host (including M5Stack-basic/GRAY/M5GO/FIRE/FACES) / **micro control types of equipment** users according to the operating system you are using, please download the corresponding driver package. After decompressing the package, select the installation package of the corresponding OPERATING system bit.

For Mac OS, ensure correct settings of the system **Preferred settings --> Security and privacy --> General** before installation, and allow the user to get it from App Store or an approved developer.

Download the **M5Stack-basic** serial port driver **CP210X** or **CP34X**

CP210X

- [Windows10](#)
- [MacOS](#)
- [Linux](#)

After extracting the zip package, select the corresponding installation package to install according to your computer **operating system** (win10 and win11 select x64 or x86 for installation).

此电脑 > 下载 > CP210x_VCP_Windows (1) > CP210x_VCP_Windows

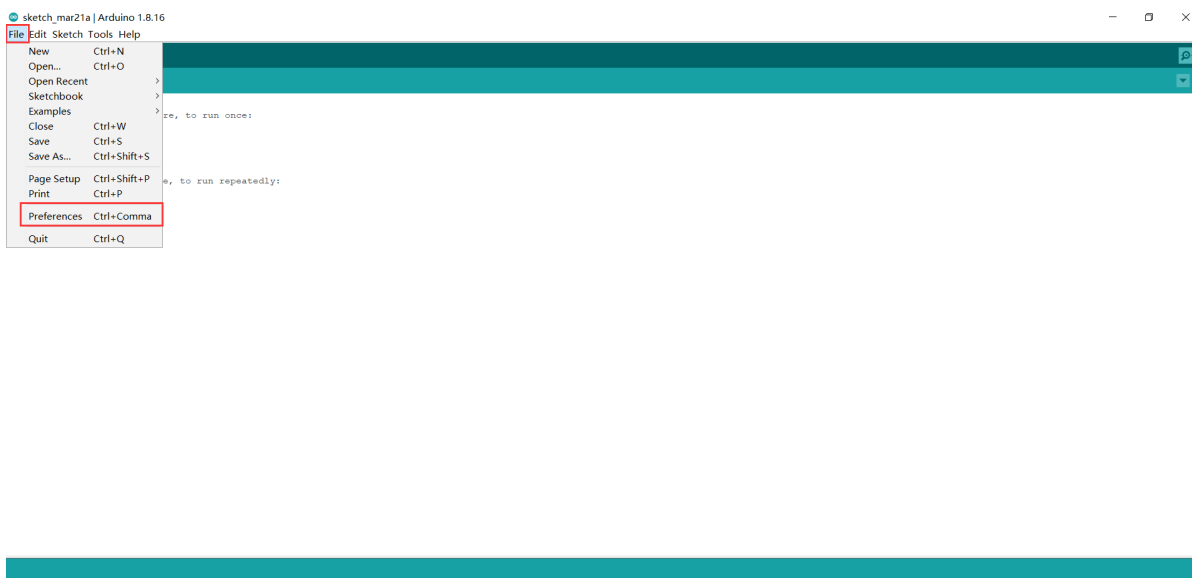
名称	修改日期	类型	大小
x64	2014/4/12 5:56	文件夹	
x86	2014/4/12 5:56	文件夹	
CP210xVCPInstaller_Win7_v5.40.24.exe	2009/10/25 16:59	应用程序	5,364 KB
CP210xVCPInstaller_x64_v6.7.0.0.exe	2014/4/12 5:56	应用程序	1,026 KB
CP210xVCPInstaller_x86_v6.7.0.0.exe	2014/4/12 5:56	应用程序	901 KB
dpinst.xml	2014/4/12 5:56	XML 文档	12 KB
Readme.txt	2017/11/27 20:46	文本文档	1 KB
ReleaseNotes.txt	2014/4/12 5:56	文本文档	11 KB
SLAB_License_Agreement_VCP_Wind...	2014/4/12 5:56	文本文档	9 KB
slabvcp.cat	2014/4/12 5:56	安全目录	12 KB
slabvcp.inf	2014/4/12 5:56	安装信息	5 KB

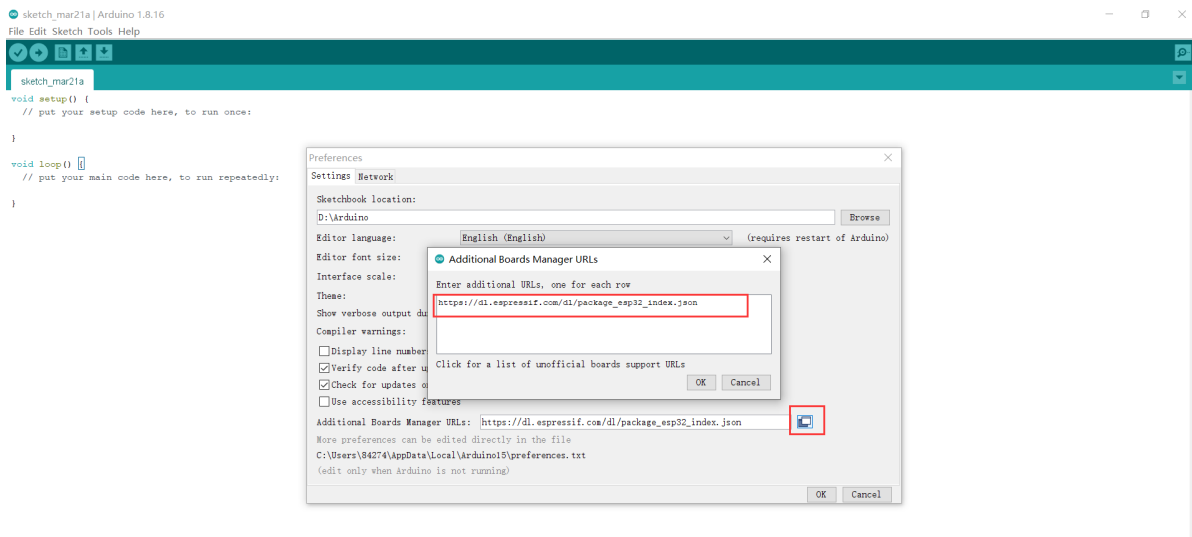
CP34X

- [Windows10](#)
- [MacOS](#)

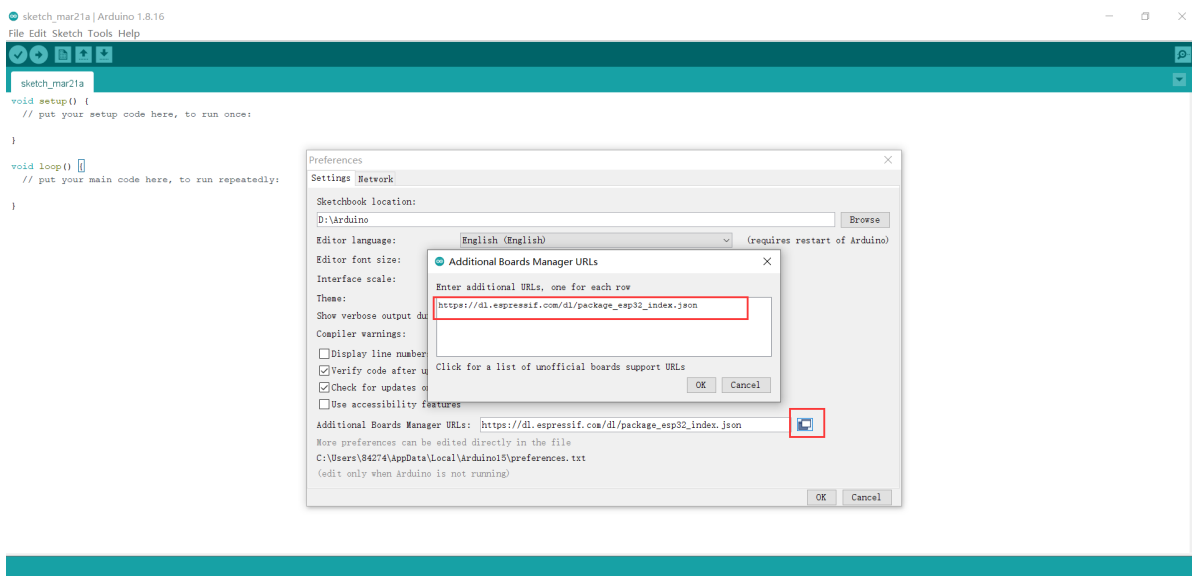
3 Add board

- Open the Arduino IDE and select **File --> Preferences --> Settings** to add the url address below to the additional board manager https://m5stack.oss-cn-shenzhen.aliyuncs.com/resource/arduino/package_m5stack_index.json

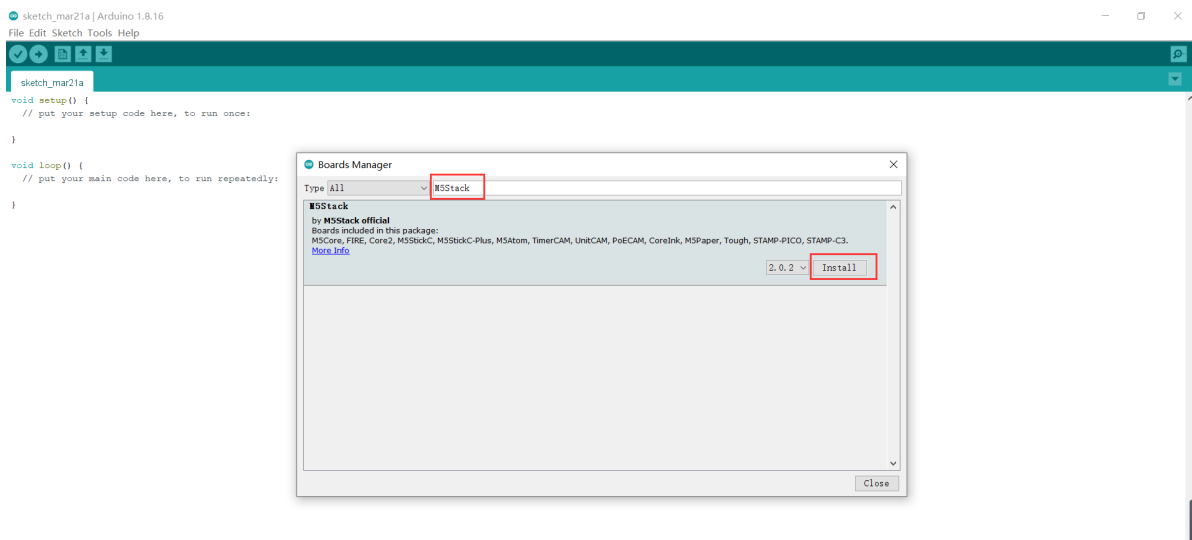




- After adding, select the **Tools --> Board --> Boards Manager**, in the new pop-up dialog, input and search **M5Stack**, click Install (in case of search failure, you can try to restart **Arduino** program), as shown below:



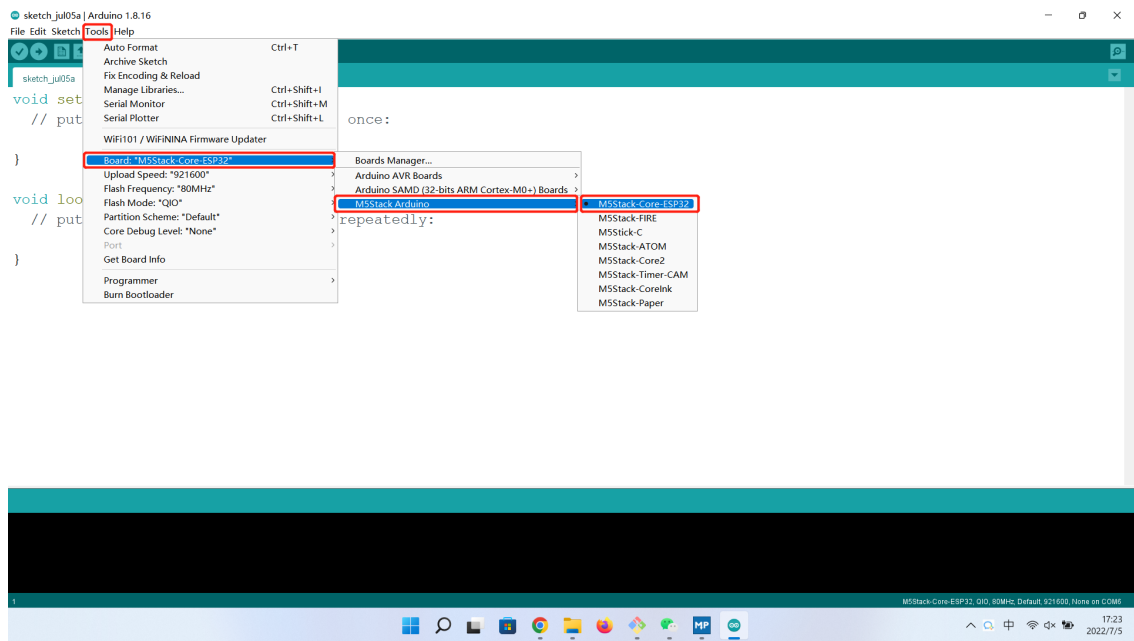
- After adding, select **Tools --> Board**, check whether it is successful, as shown below:



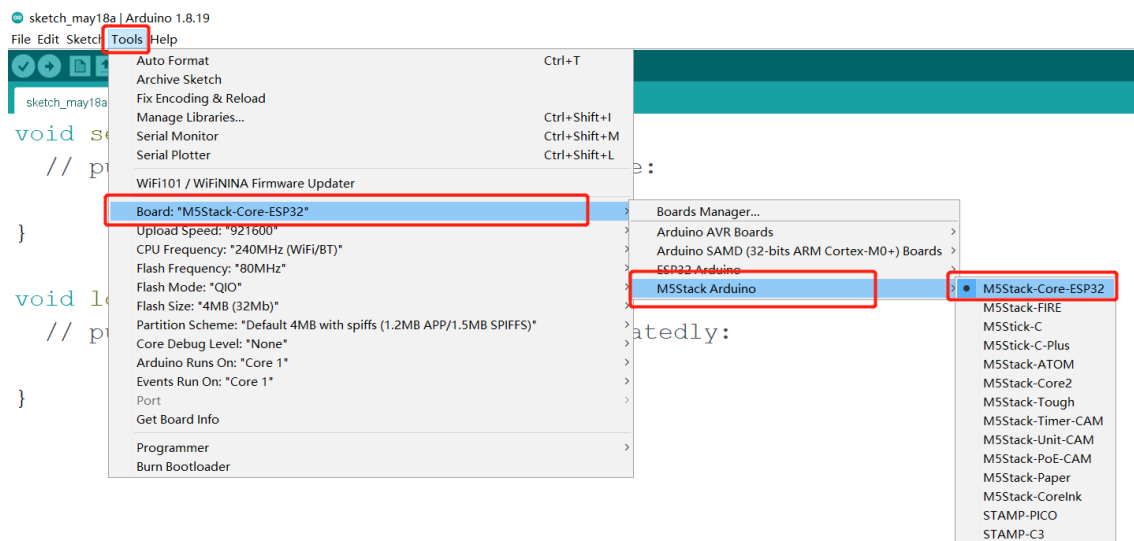
4 Add related libraries

4.1 Install the M5Stack library

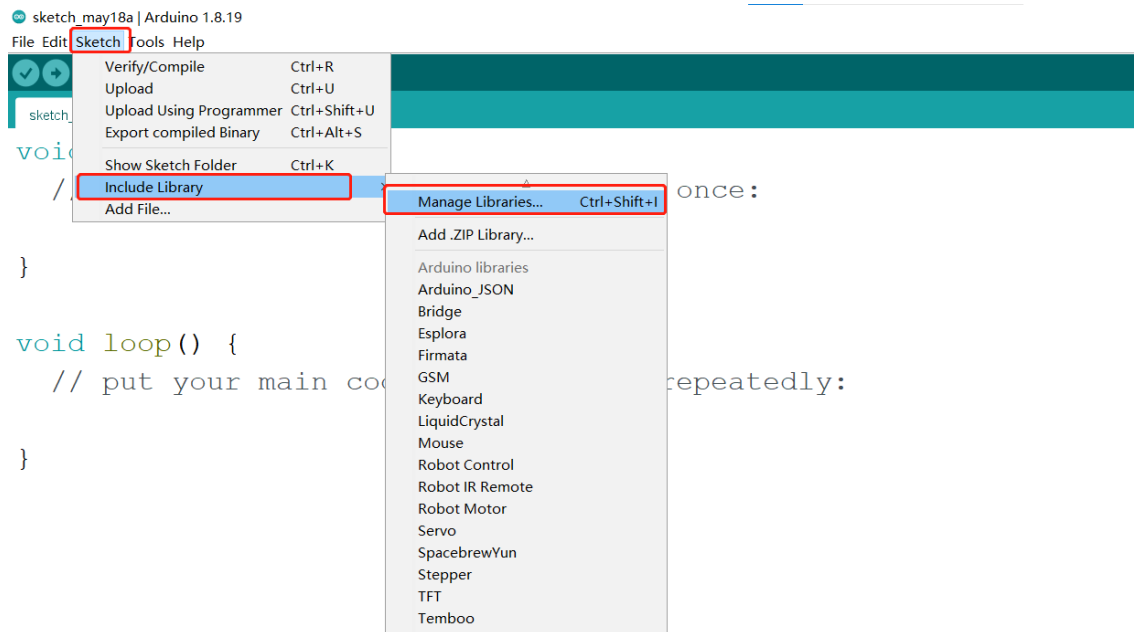
1. Tools --> Development Board --> M5Stack Arduino select **M5Stack-Core-ESP32**, as shown in the following figure:



2. Project --> Load Library --> Manage Library In the search box, enter **M5Stack**, as shown in the figure below:



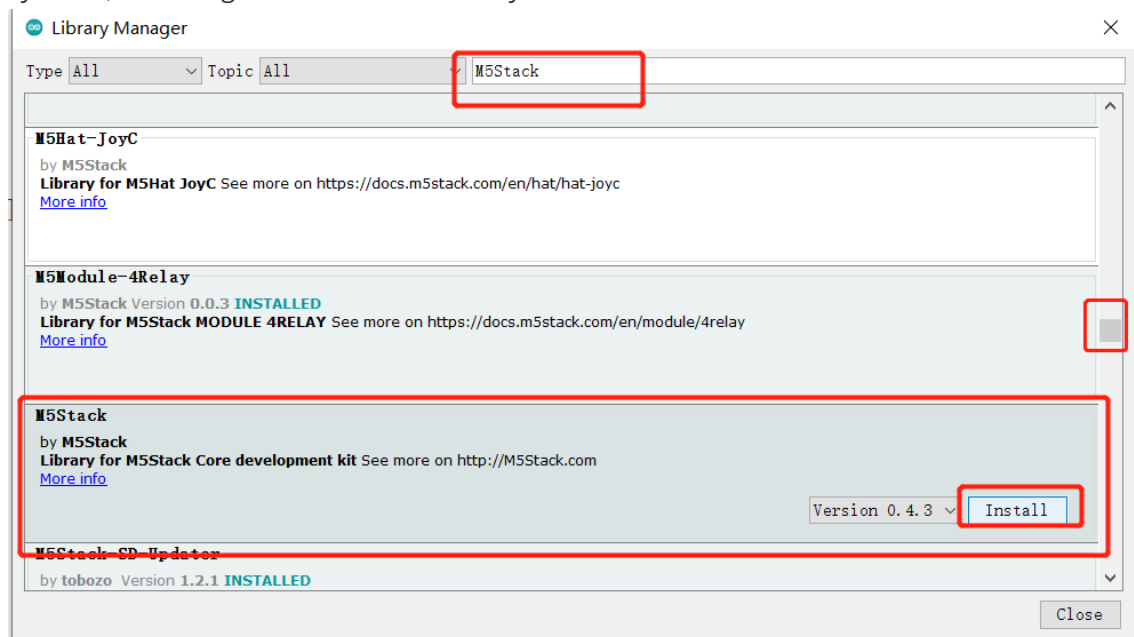
3. After finding it, click Install, scroll down, **M5Stack** is at the back, you can see the location of the drop-down slider in the picture for details, as shown in the figure below:



4.2 Install the MyCobotBasic library

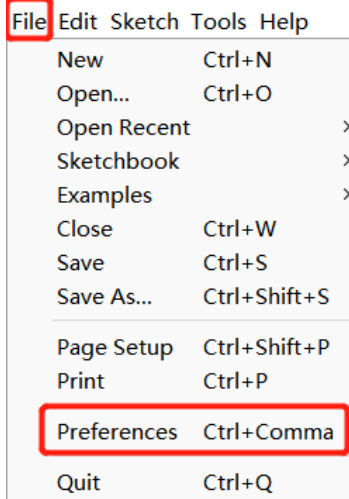
Note: Please download the latest library, the first version is v0.0.1.

- **MyCobotBasic**(After the MyCobot280-Arduino model is imported, you can refer to [10.3-arduino lib use](#) for use). Please see the figure below for details, .zip is suitable for Windows systems, and .tar.gz is suitable for Linux systems:



- Library Installation Instructions

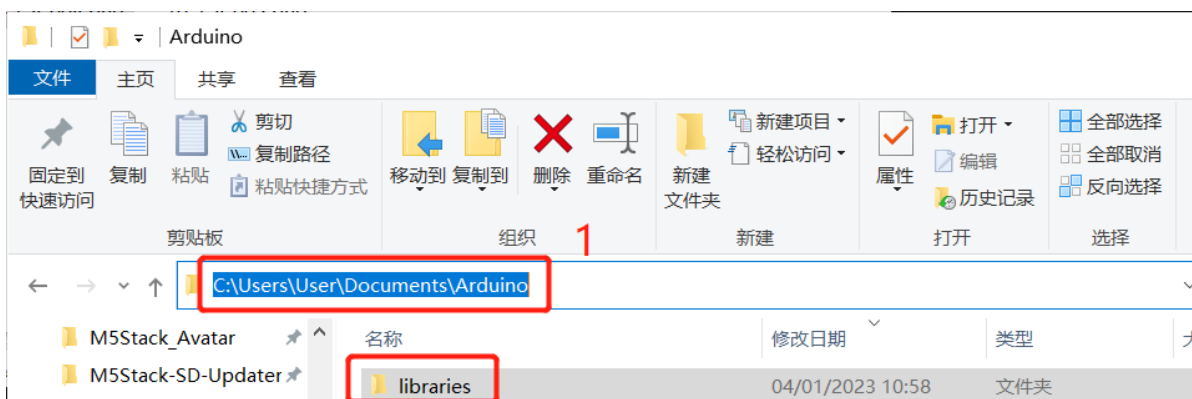
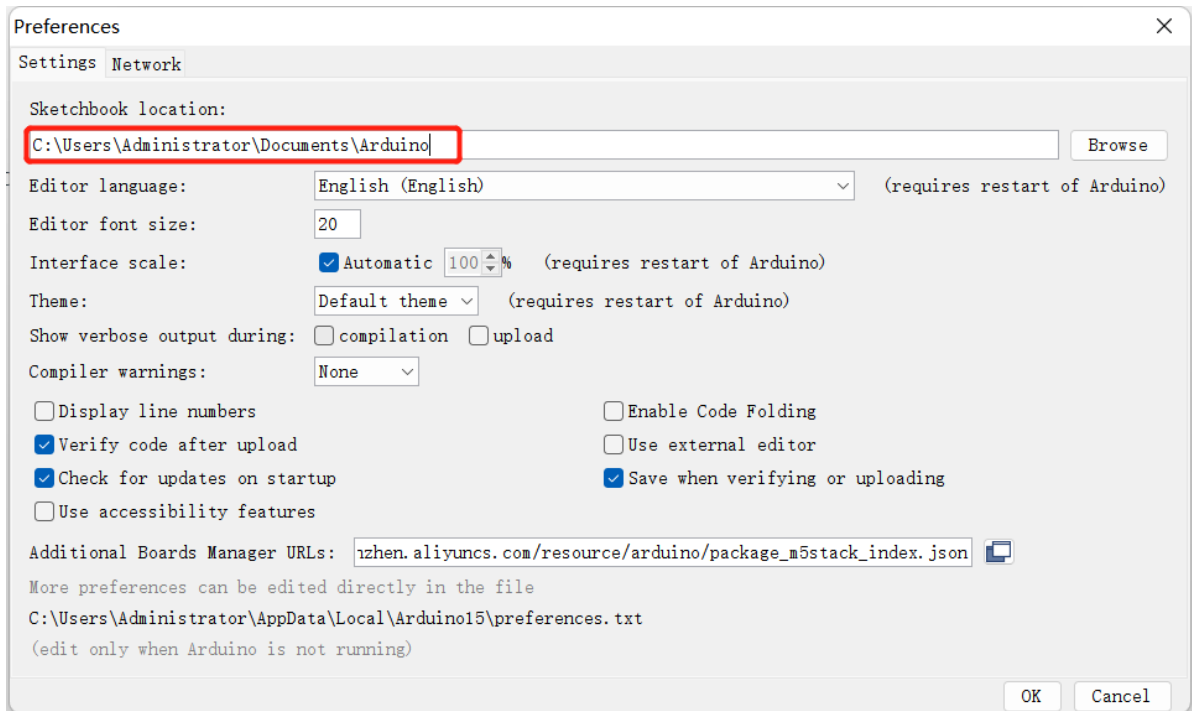
First check the location of the Arduino project folder by clicking File --> Preferences (you can copy the path to your hard drive to find the libraries folder)



Setup code here, to run once:

main code here, to run repeatedly:

}



1 Copy the path here and press enter to find the libraries folder

Unzip it into the corresponding folder in the **libraries** directory. If you are using **Arduino**, don't overwrite it, just add to the existing **Library**.

C:\Users\Administrator\Documents\Arduino\libraries				
名称	修改日期	类型	大小	
Adafruit_BMP280_Library	2022/7/4 11:56	文件夹		
Adafruit_BusIO	2022/7/4 11:56	文件夹		
Adafruit_MCP4725	2022/7/4 11:56	文件夹		
Adafruit_NeoPixel	2022/7/4 11:56	文件夹		
Adafruit_SGP30_Sensor	2022/7/4 11:56	文件夹		
Adafruit_TCS34725	2022/7/4 11:56	文件夹		
Adafruit_Unified_Sensor	2022/7/4 11:56	文件夹		
ArduinoJson	2022/7/4 11:56	文件夹		
ATOM_DTU_CAT1	2022/7/4 11:56	文件夹		
avr-libstdcpp	2022/6/30 14:13	文件夹		
ClosedCube_TCA9548A	2022/7/4 11:56	文件夹		

Congratulations, you have built a **Arduino** related development environment.