M5StickC

Getting Started Guide

Choose the development platform you use

Arduino-MacOS | Arduino-Windows | UIFlow

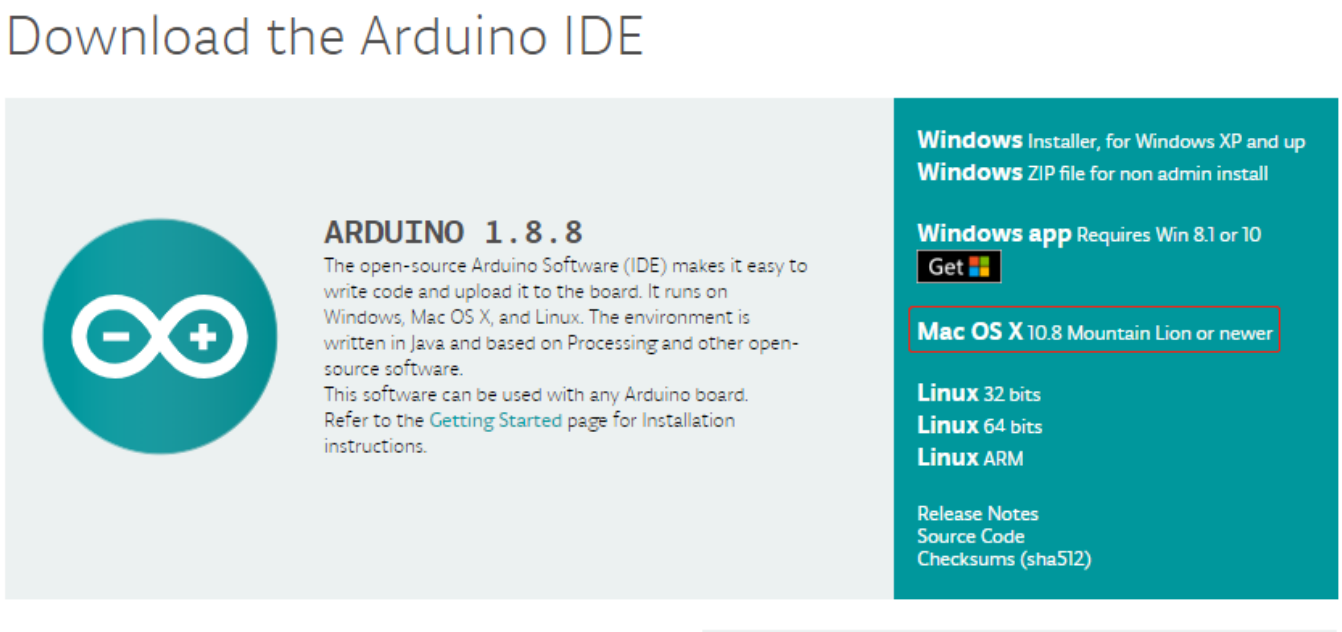
I. Arduino MAC

Configuration Environment

1. Install the Arduino IDE

The browser opens the Arduino website https://www.arduino.cc/en/Main/Software

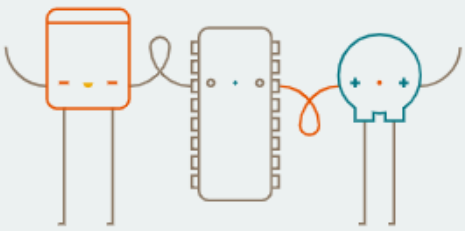
(1) Click to select the installation package Mac OS X



(2) Choice JUST DOWNLOAD

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.

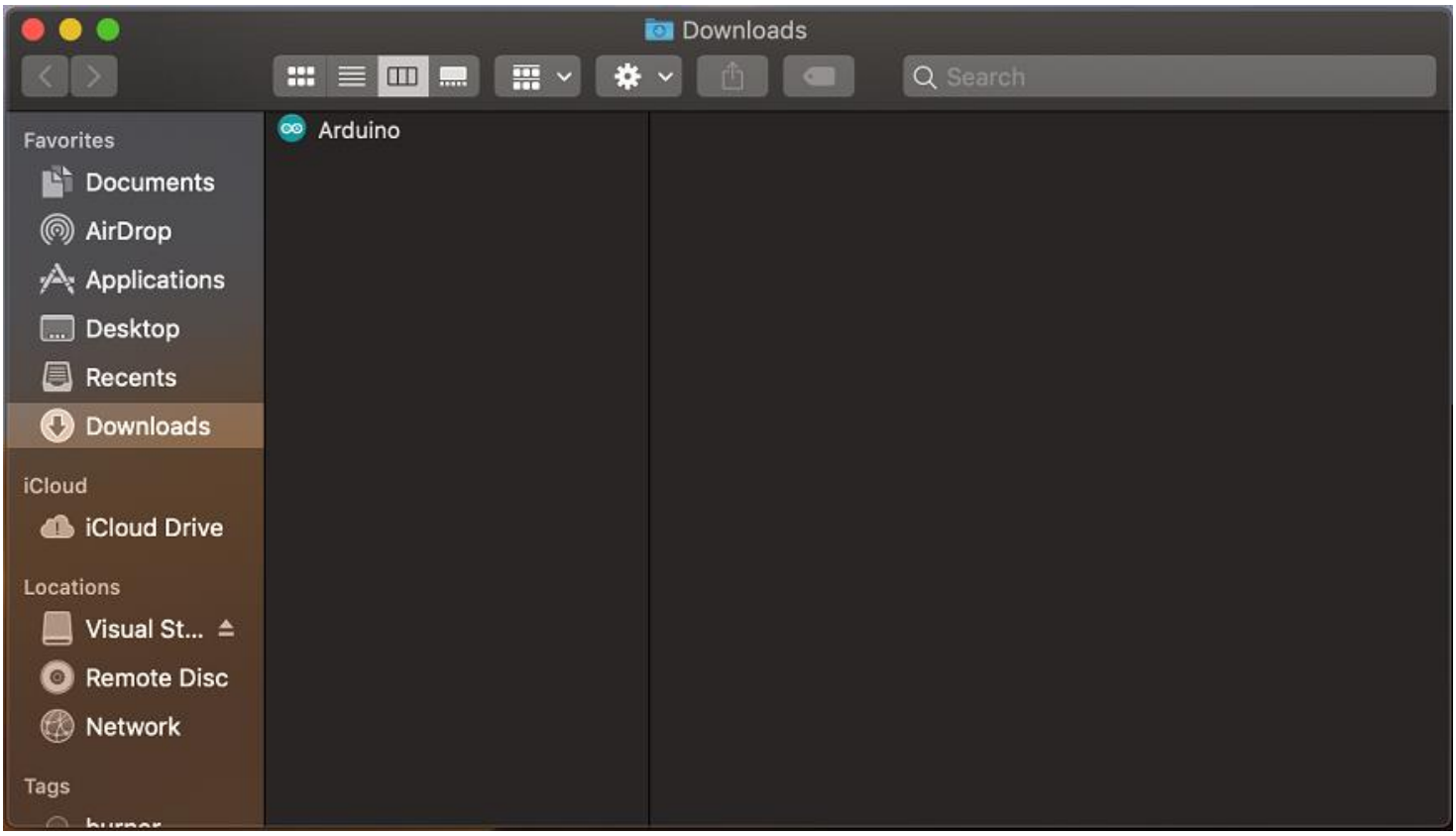


SINCE MARCH 2015, THE ARDUINO IDE HAS BEEN DOWNLOADED 30,671,385 TIMES. (IMPRESSIVE!) NO LONGER JUST FOR ARDUINO AND GENUINO BOARDS, HUNDREDS OF COMPANIES AROUND THE WORLD ARE USING THE IDE TO PROGRAM THEIR DEVICES, INCLUDING COMPATIBLES, CLONES, AND EVEN COUNTERFEITS. HELP ACCELERATE ITS DEVELOPMENT WITH A SMALL CONTRIBUTION! REMEMBER: OPEN SOURCE IS LOVE!

$3 $5 $10 $25 $50 OTHER

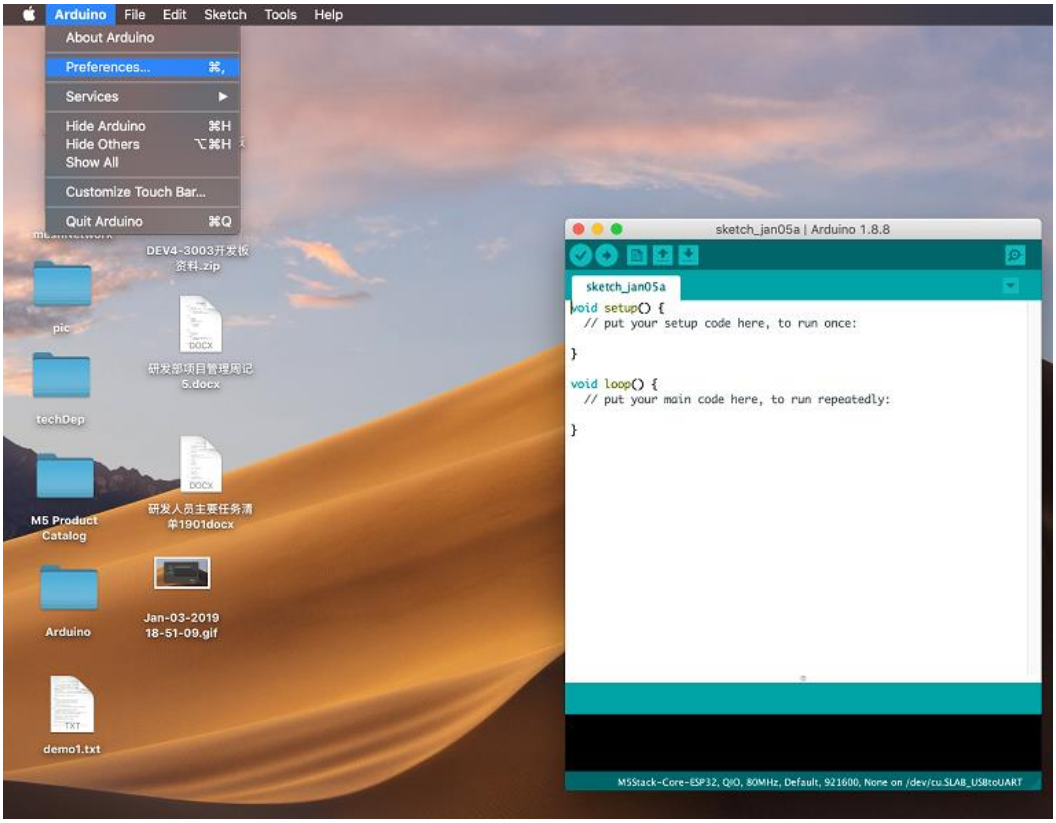
JUST DOWNLOAD CONTRIBUTE & DOWNLOAD

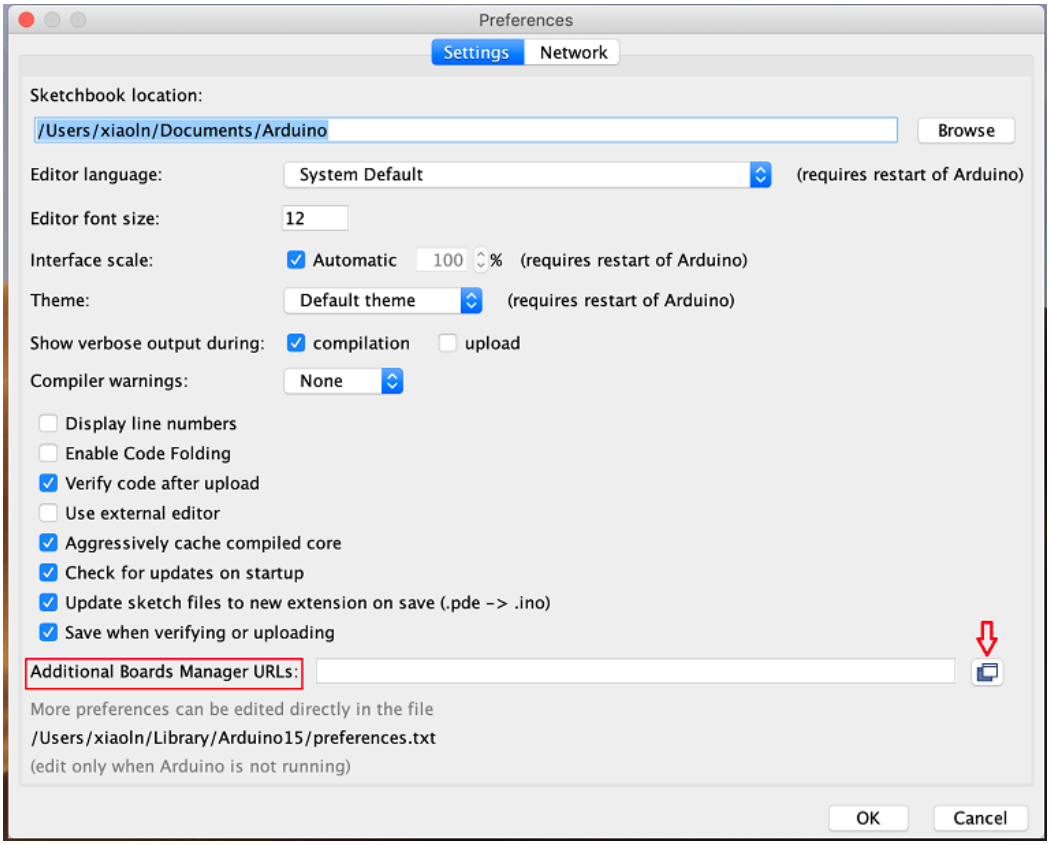
(3) After downloading the Arduino IDE, you can double-click to open it.



2. Install ESP32 board management

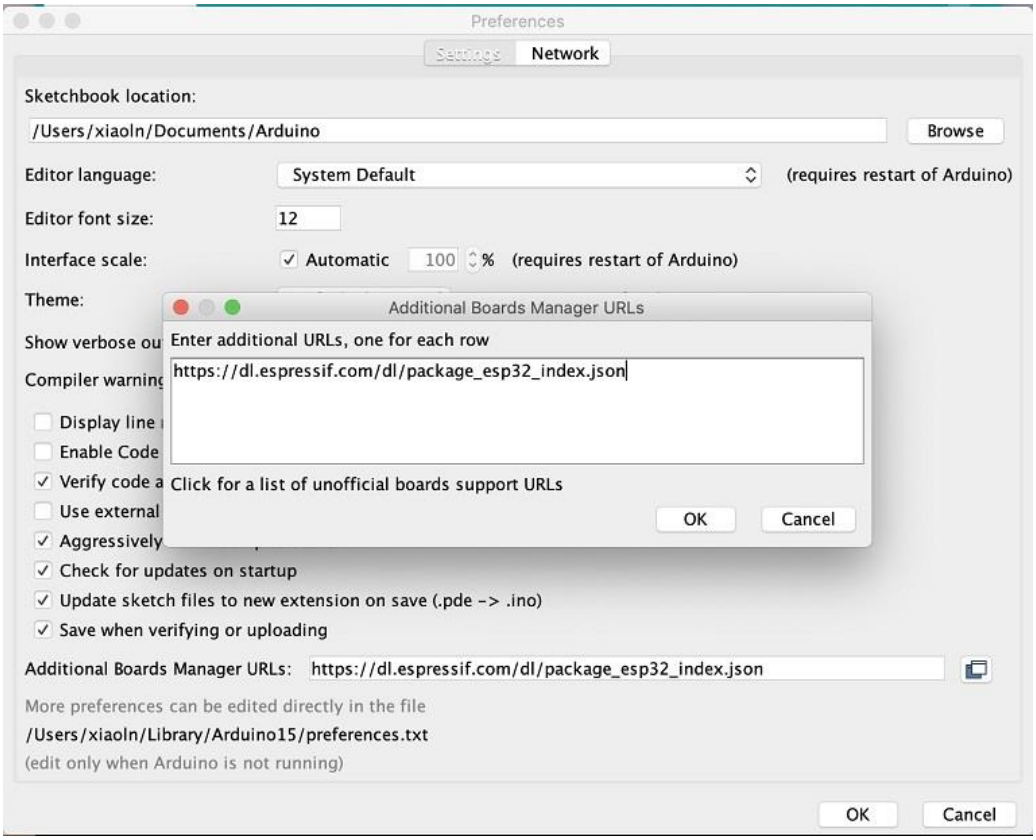
(1) Open the Arduino IDE and select 文件-> 首选项->设置 (file -> first choice -> Settings)



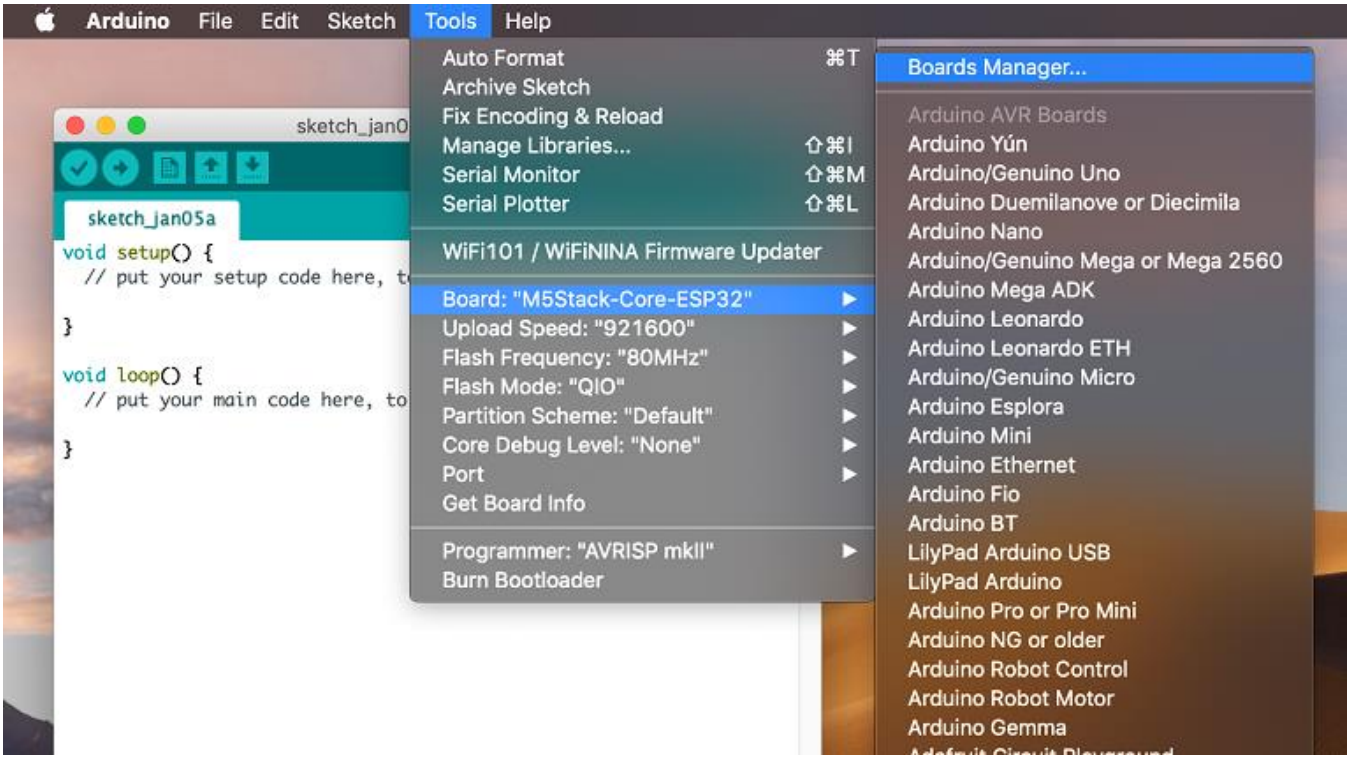


(2) Copy the following URL to the management board ESP32 附加开发板管理器:in (Additional development board manager)

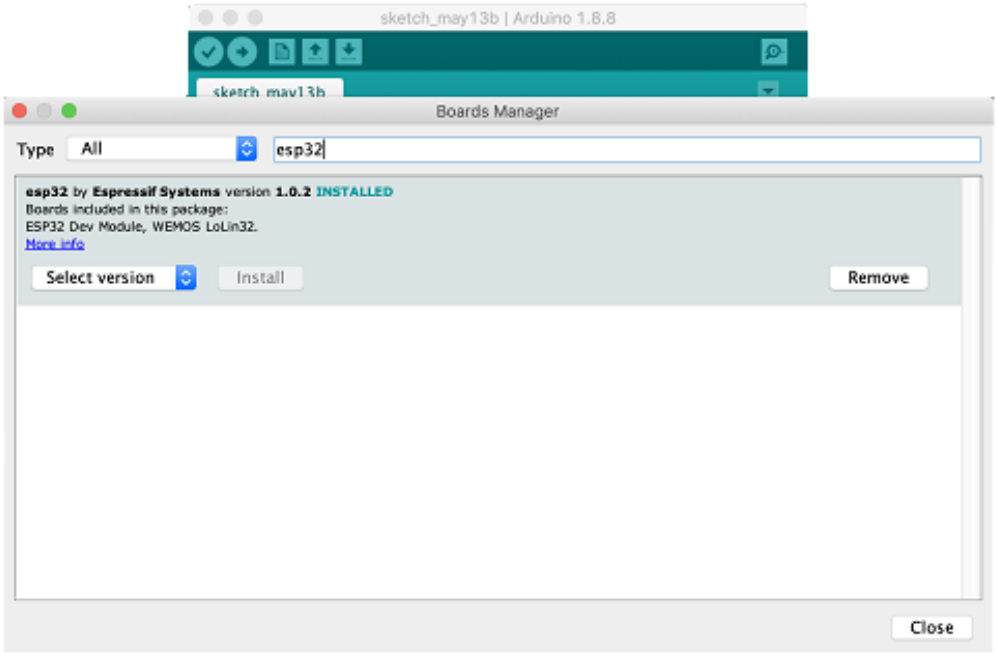
ESP32 Boards Manager url: https://dl.espressif.com/dl/package_esp32_index.json



(3) Select 工具-> 开发板:->开发板管理器... (Tools -> Development board: -> Development board manager)

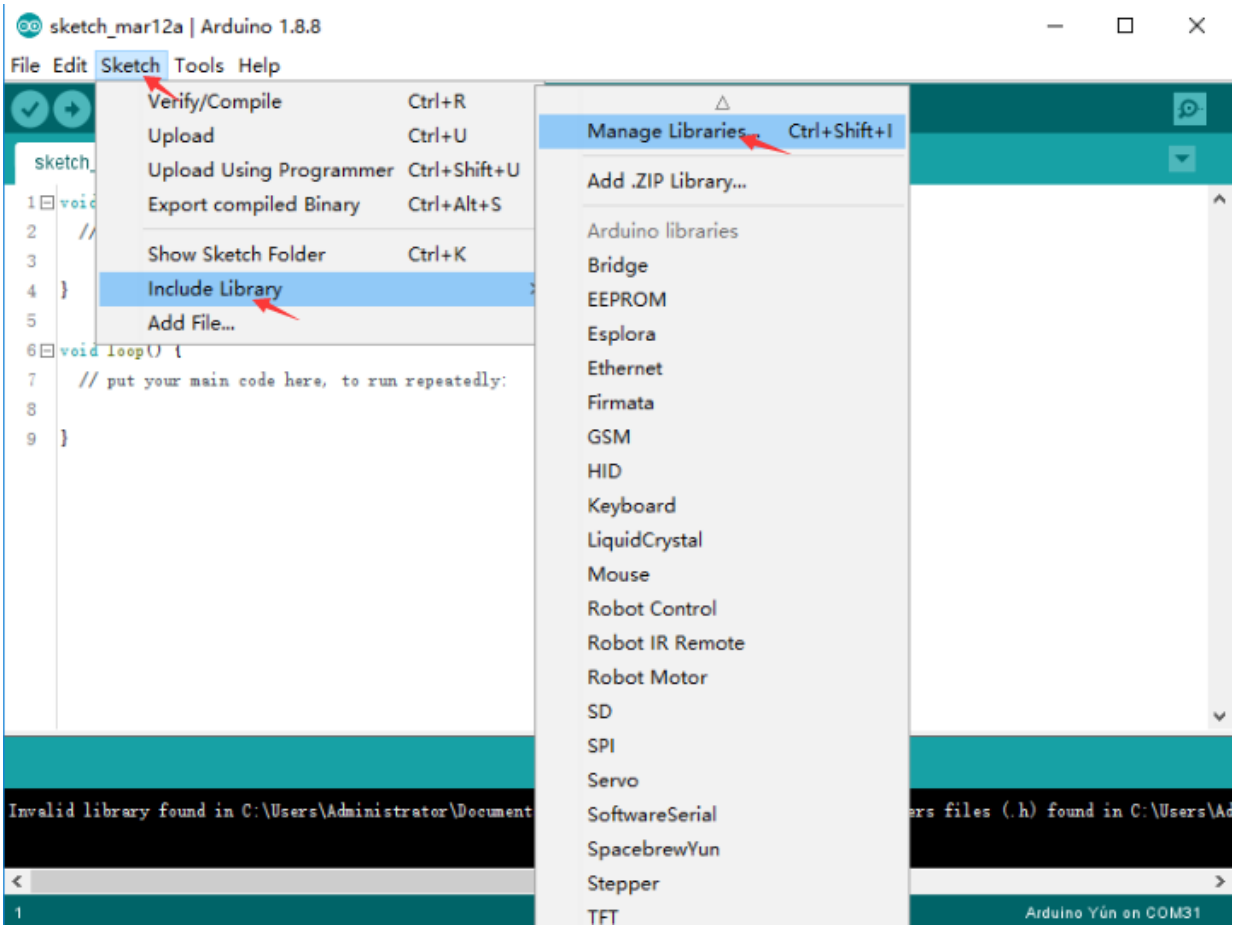


(4) In the new pop-up dialog box, enter and search ESP32, click安装 (Installation)

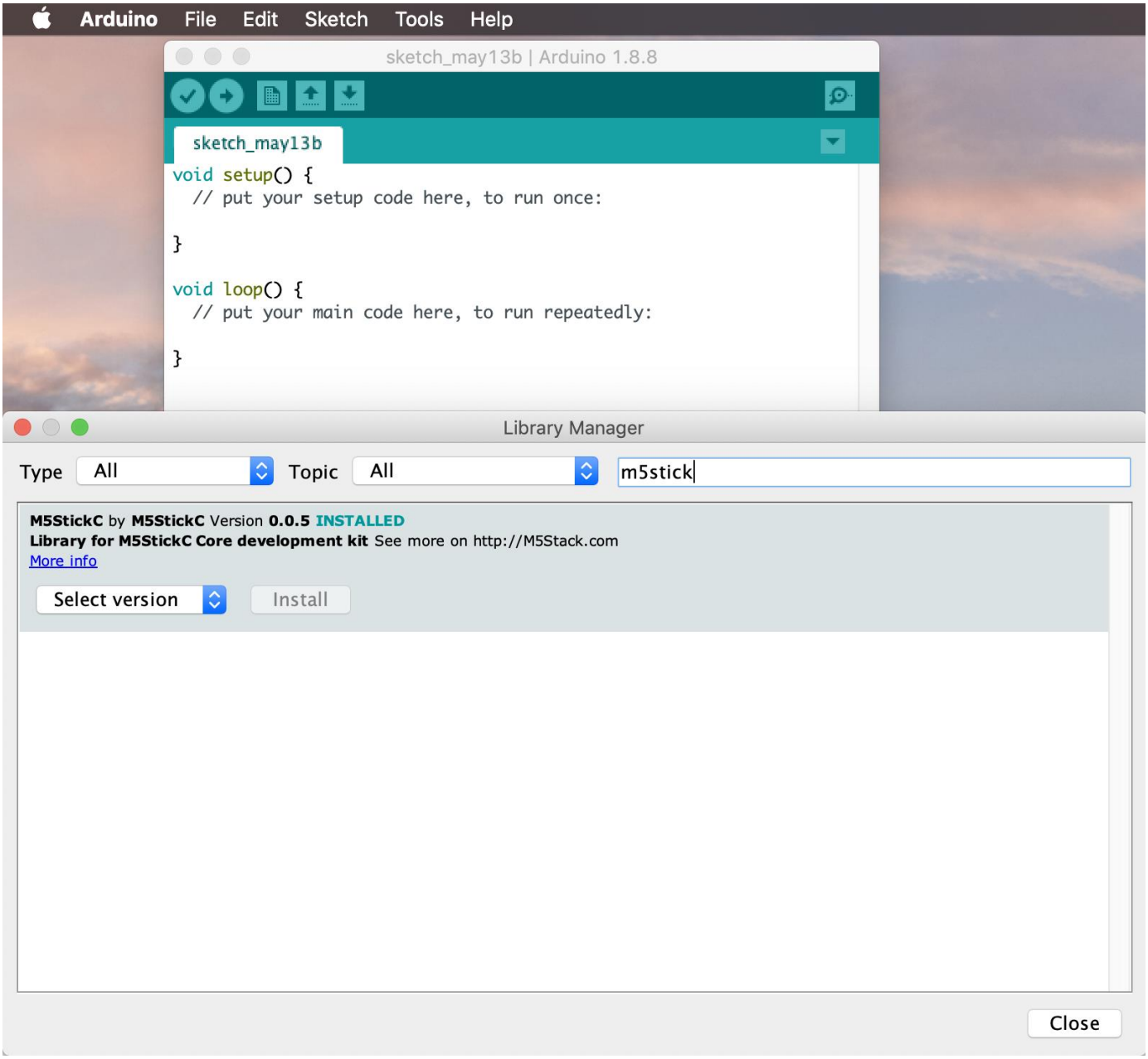


3. Install the M5StackC library

(1) Open the Arduino IDE and select 项目-> 加载库->库管理... (Project -> Load library -> Library management)



(2) Search for M5StackCand installed, as shown in FIG.



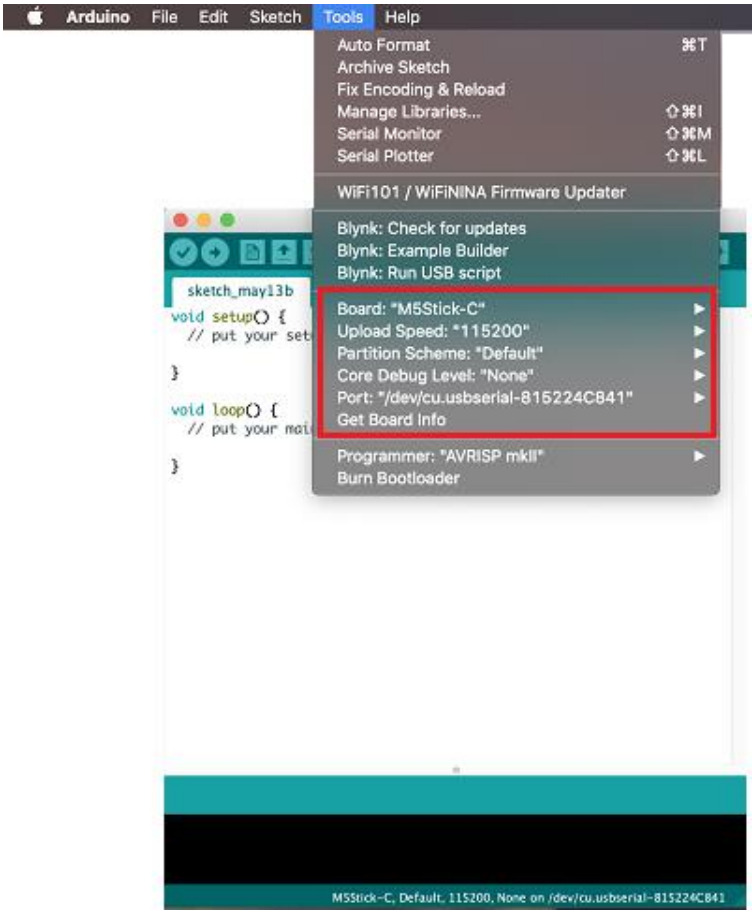
Routine

1. Select board and serial port

Open the Arduino IDE and click Tools-> Boards->M5Stack-Core-ESP32

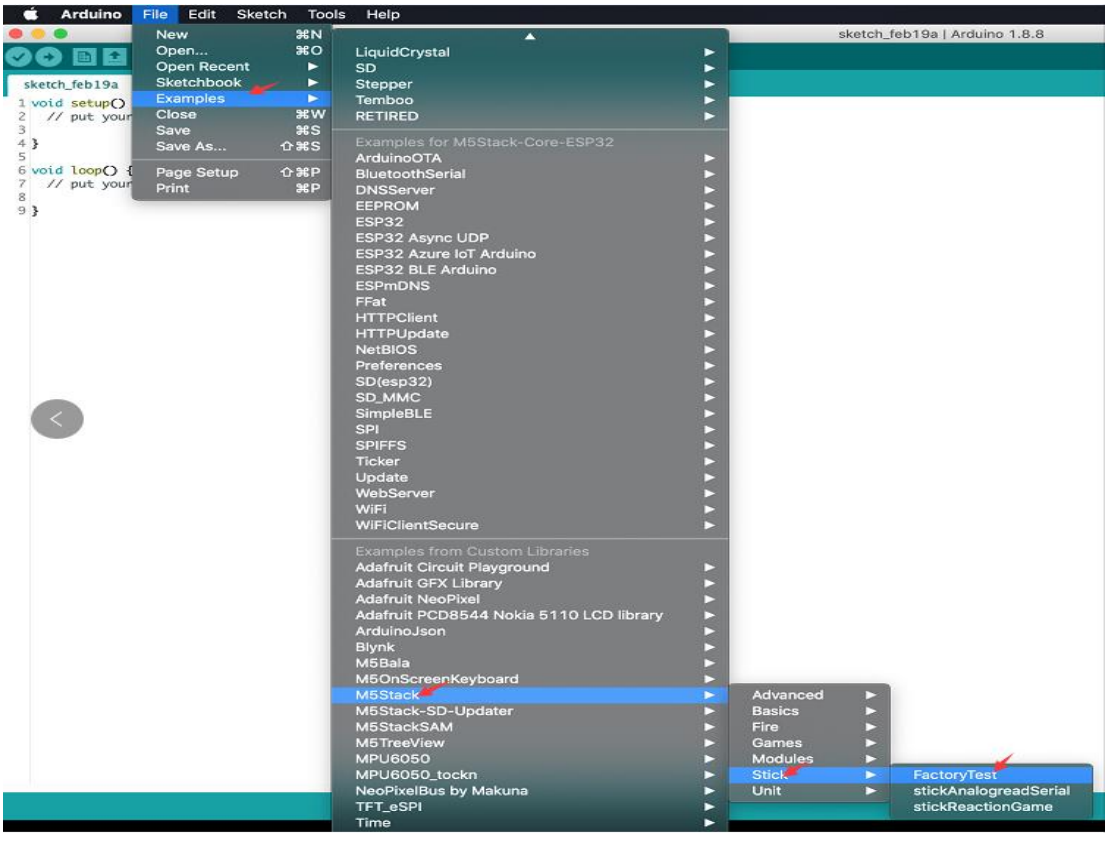
Click Tools-> Portsto select the corresponding serial port number

Upload Speed->115200



2. Select the routine

Click File-> Examples-> M5StackC-> Basic->FactoryTest



Click Uploadto compile the uploader.

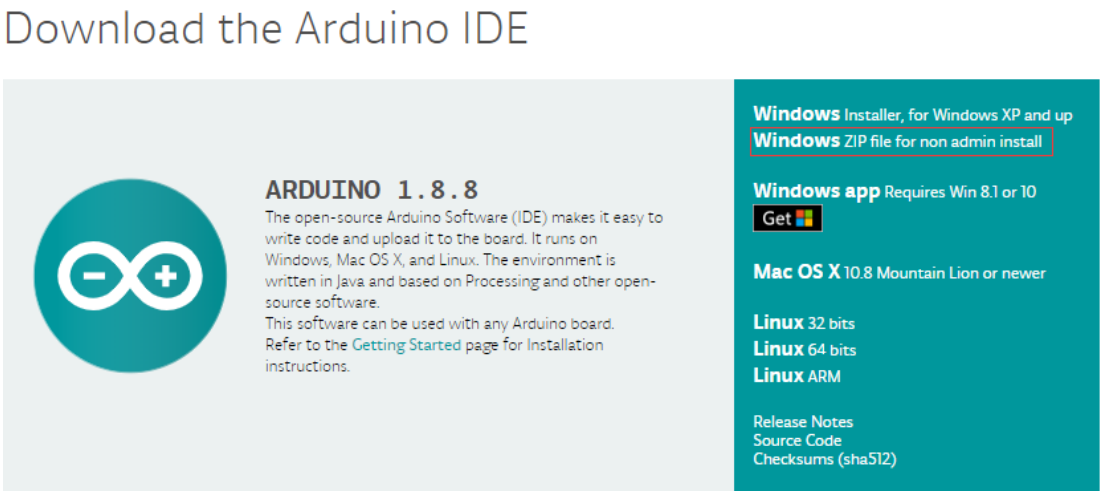
The button located on the bottom left is the power button, single-click to reboot. To enter deep sleep mode, double click this button

II. Arduino Windows

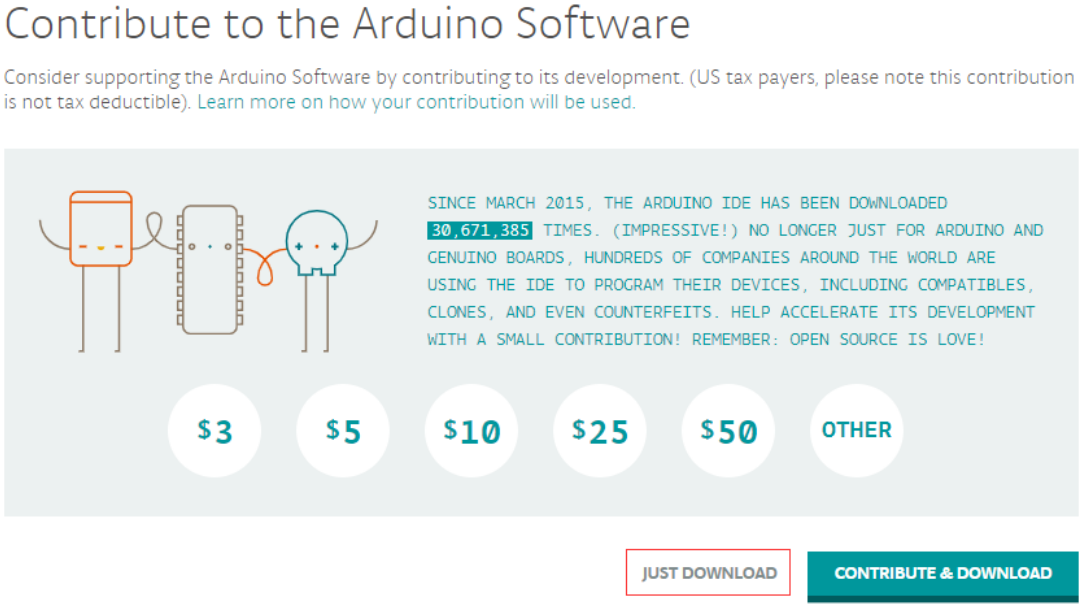
1. Install the Arduino IDE

The browser opens the Arduino website https://www.arduino.cc/en/Main/Software

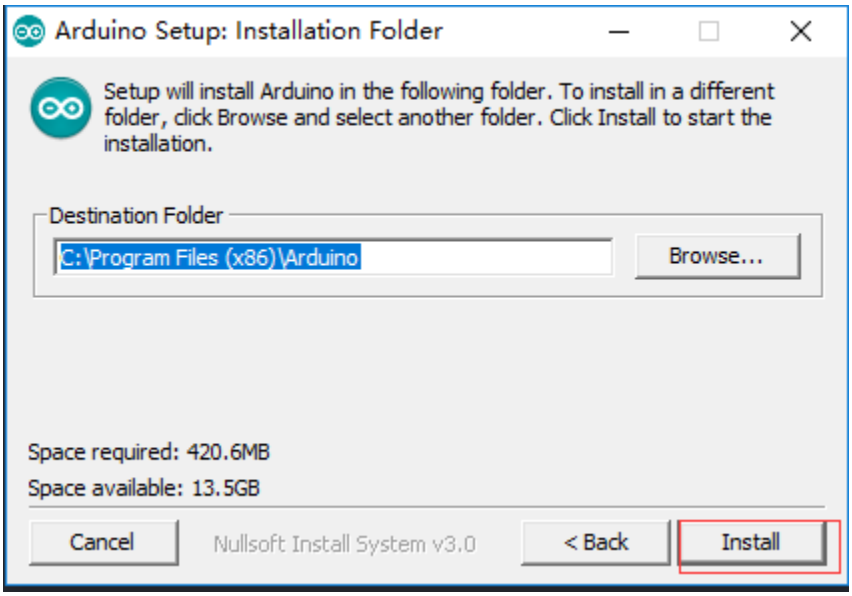
(1) Click to select the installation package Windows ZIP file for non admin install

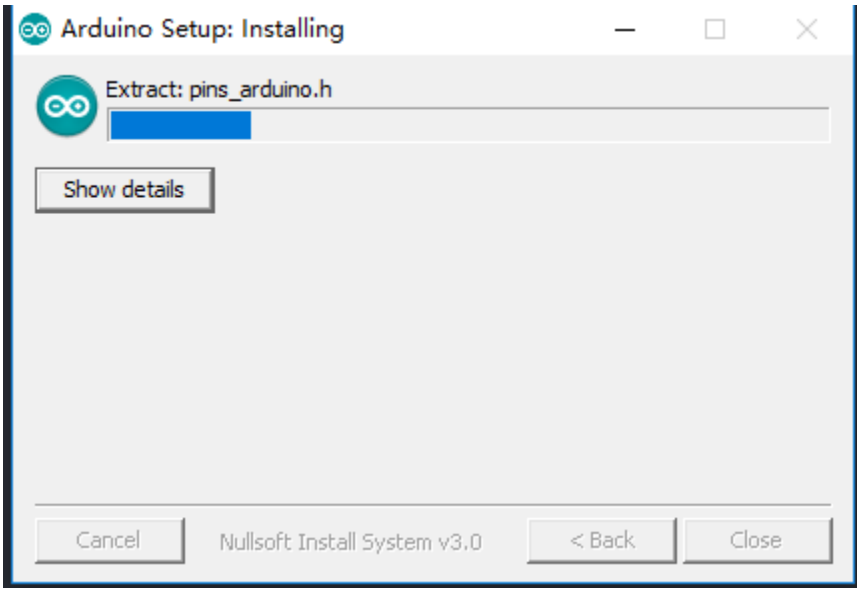


(2) Choice JUST DOWNLOAD



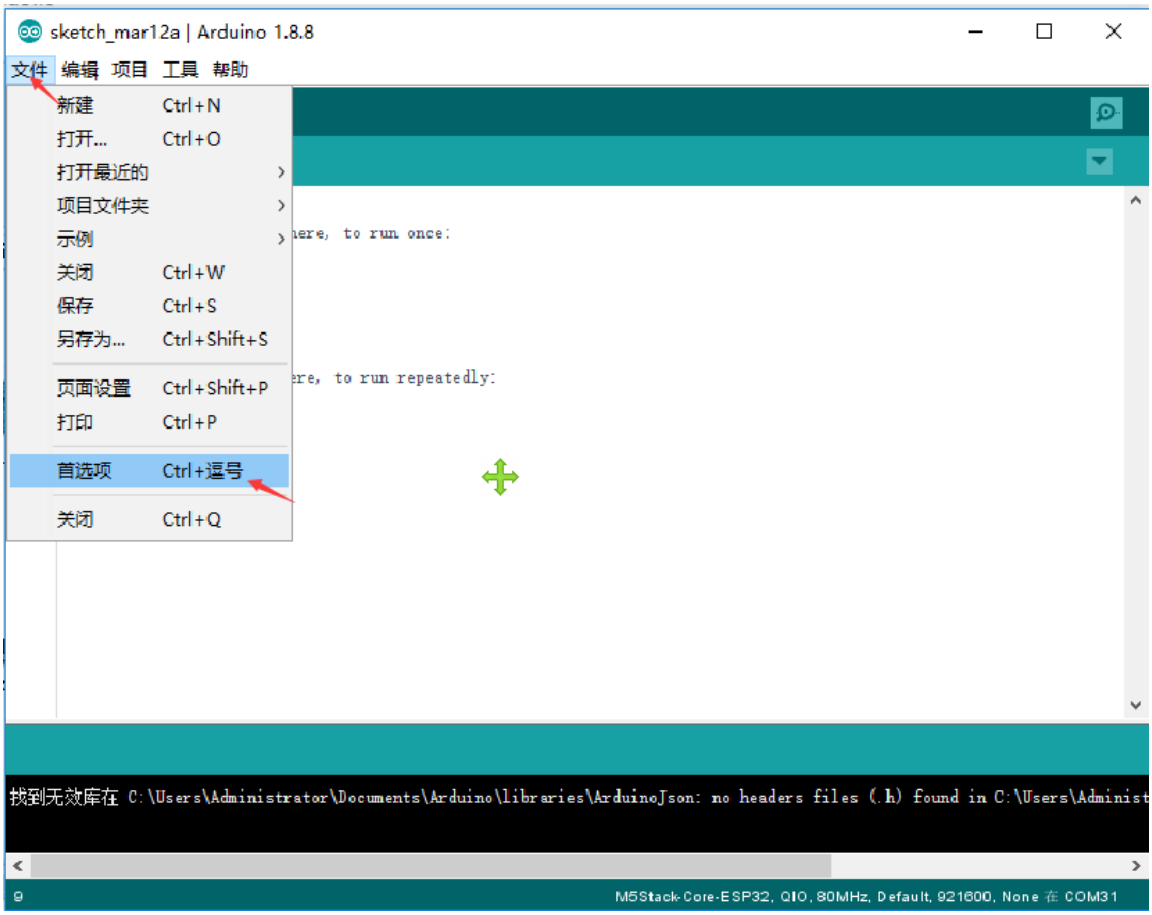
(3) Double-click the downloaded IDE executable file to keep the default selection, including the installation path.

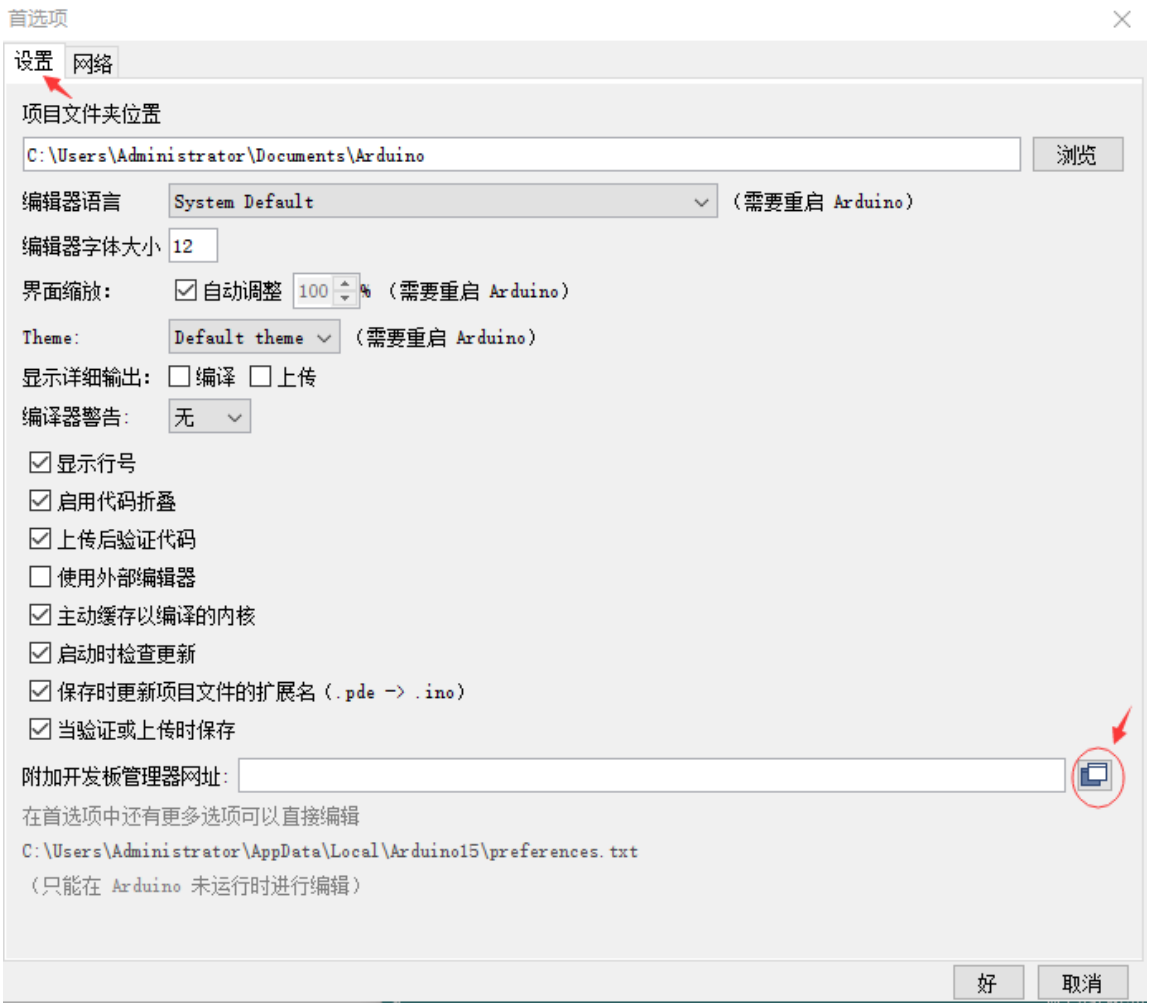




2. Install ESP32 board management

(1) Open the IDE and select 文件-> 首选项->设置 (file -> first choice -> Settings)

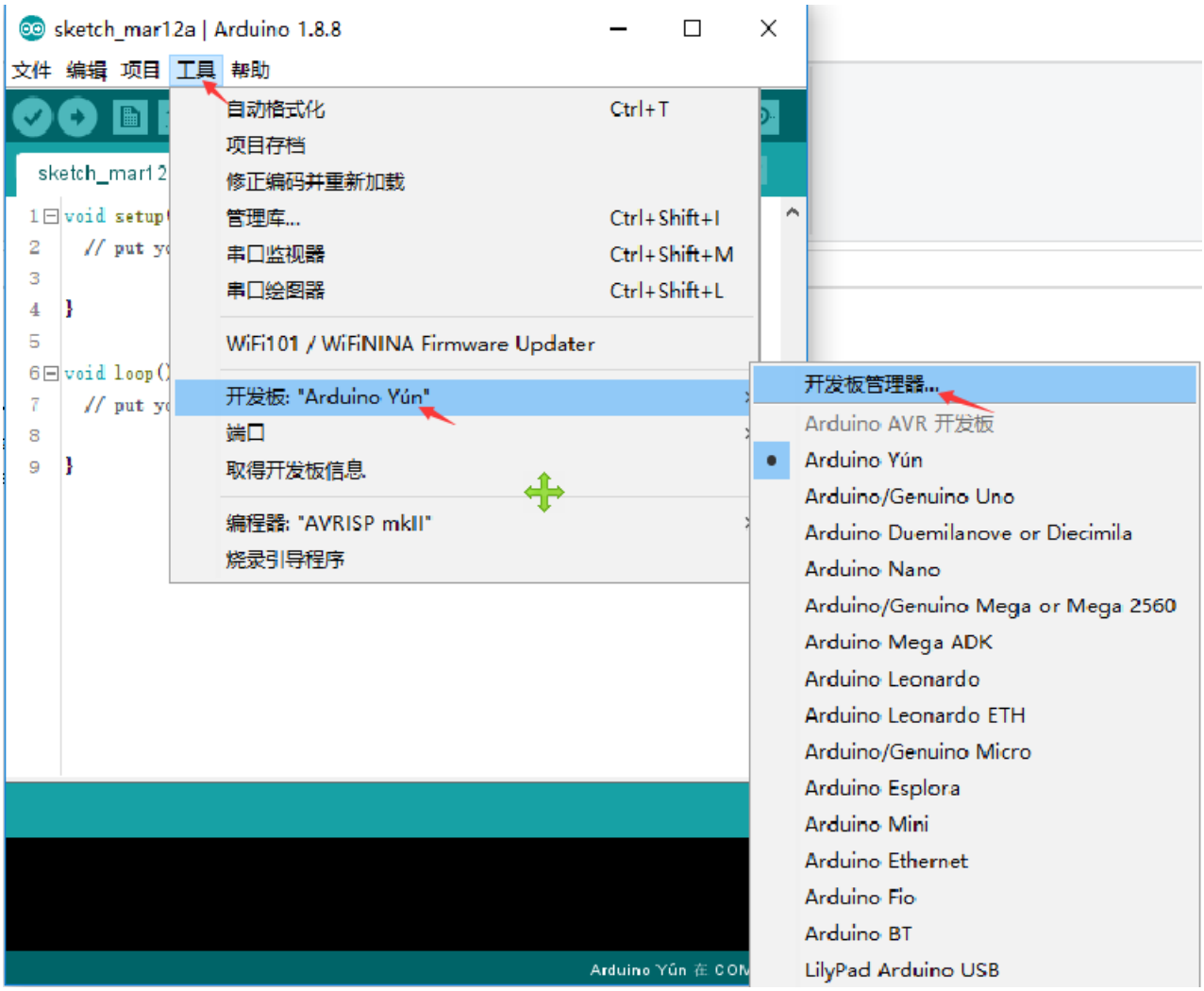

sketch_mar12a | Arduino 1.8.8
文件 编辑 项目 工具 帮助
新建 Ctrl+N
打开... Ctrl+O
打开最近的
项目文件夹
示例
关闭 Ctrl+W
保存 Ctrl+S
另存为... Ctrl+Shift+S
页面设置 Ctrl+Shift+P
打印 Ctrl+P
首选项 Ctrl+逗号
关闭 Ctrl+Q
ere, to run once:
re, to run repeatedly:
找到无效库在 C:\Users\Administrator\Documents\Arduino\libraries\ArduinoJson: no headers files (.h) found in C:\Users\Administ
9
M5Stack-Core-ESP32, QIO, 80MHz, Default, 921600, None 在 COM31


首选项
设置
网络
项目文件夹位置
C:\Users\Administrator\Documents\Arduino
浏览
编辑器语言
System Default
（需要重启 Arduino）
编辑器字体大小
12
界面缩放：
自动调整
100
%（需要重启 Arduino）
Theme:
Default theme
（需要重启 Arduino）
显示详细输出：
编译
上传
编译器警告：
无
显示行号
启用代码折叠
上传后验证代码
使用外部编辑器
主动缓存以编译的内核
启动时检查更新
保存时更新项目文件的扩展名（.pde -> .ino）
当验证或上传时保存
附加开发板管理器网址：
在首选项中还有更多选项可以直接编辑
C:\Users\Administrator\AppData\Local\Arduino15\preferences.txt
（只能在 Arduino 未运行时进行编辑）
好
取消

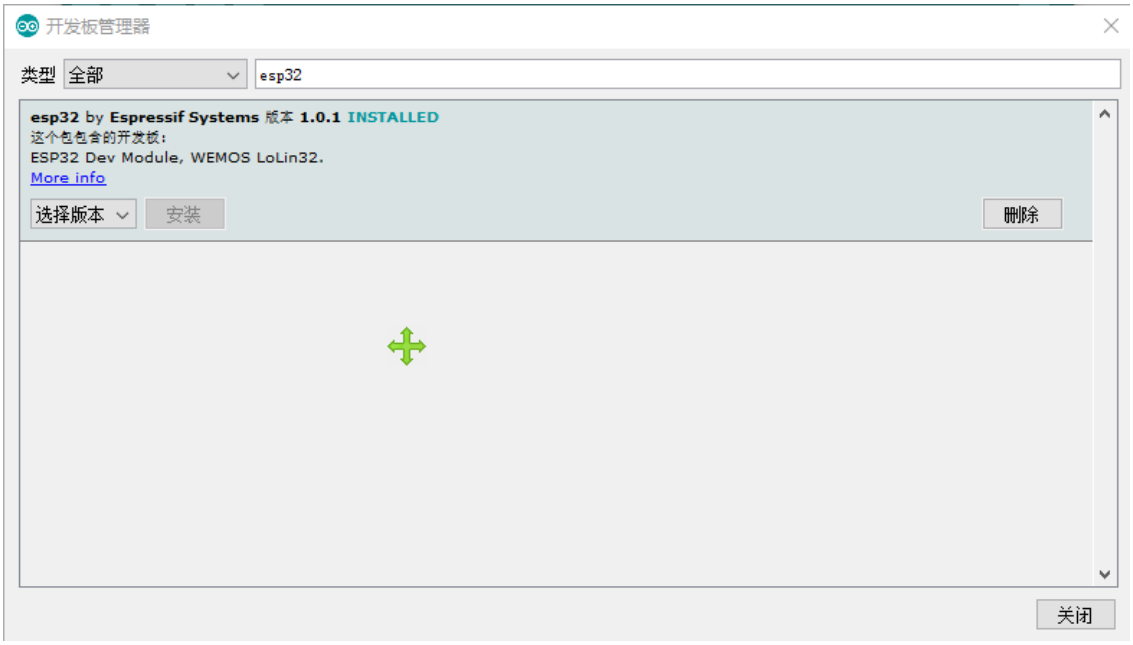
(2) Copy the following URL to the management board ESP32 附加开发板管理器:in (Additional development board manager)

The board management URL for ESP32 is this: https://dl.espressif.com/dl/package_esp32_index.json

(3) Select 工具-> 开发板:->开发板管理器... (Tools -> Development board -> Development board manager)

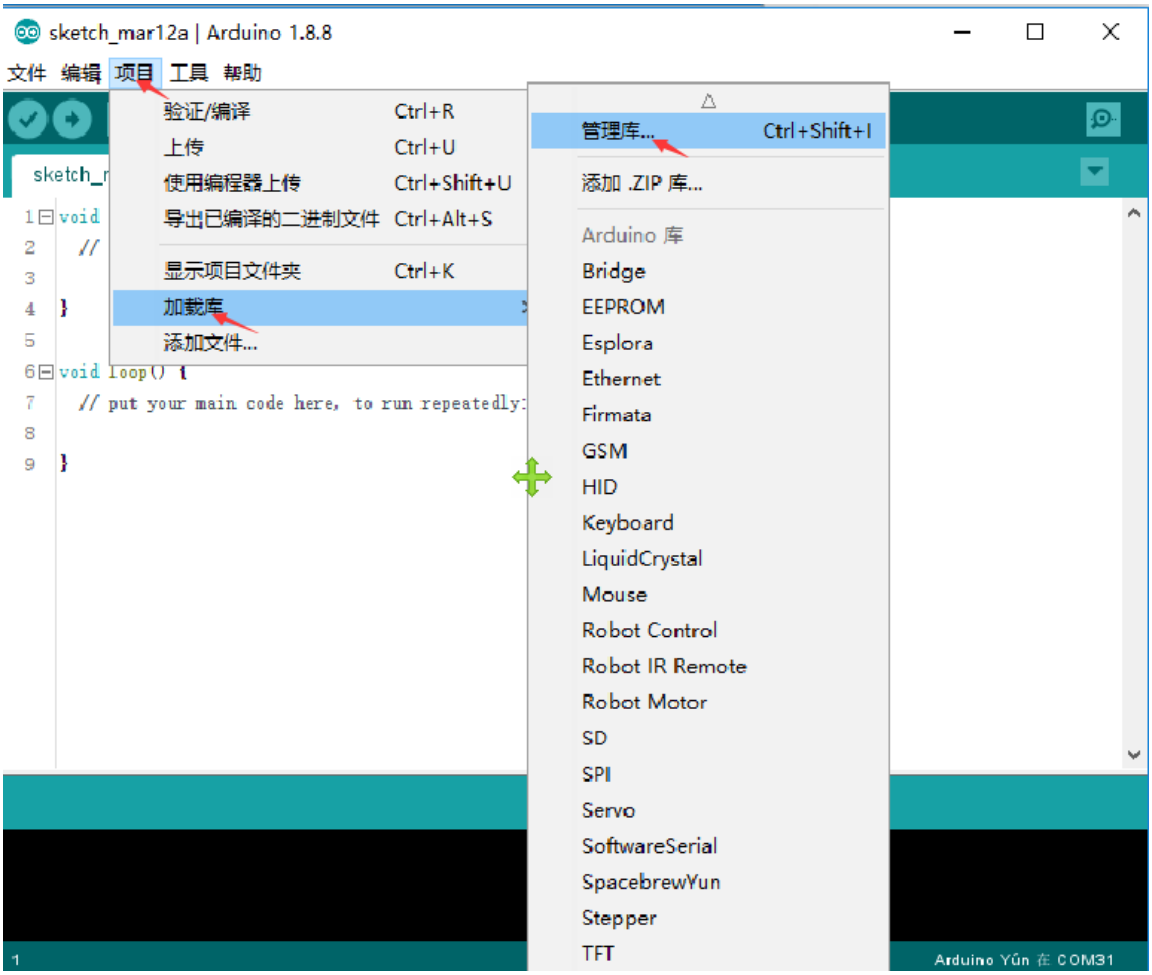


(4) In the new pop-up dialog box, enter and search ESP32, click安装 (Installation)

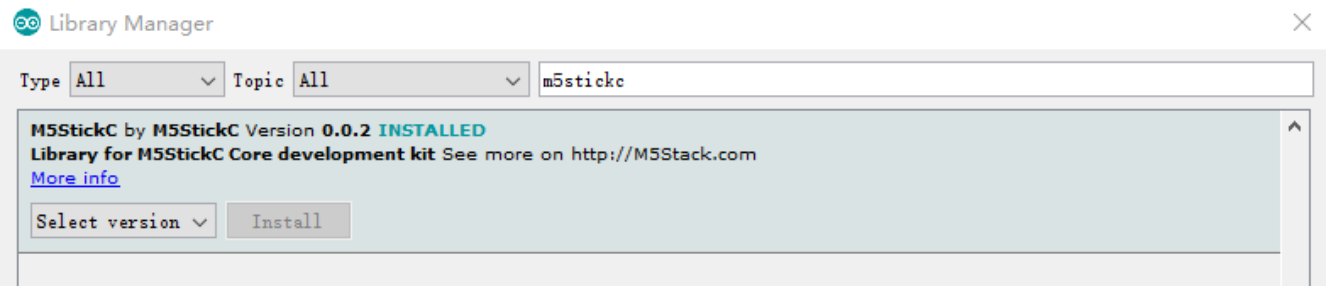


3. Install the library of M5StickC

(1) Open the Arduino IDE and select 项目-> 加载库->库管理... **(Project -> Load library -> Library management)**



(2) Search for M5StickCand installed, as shown in FIG.

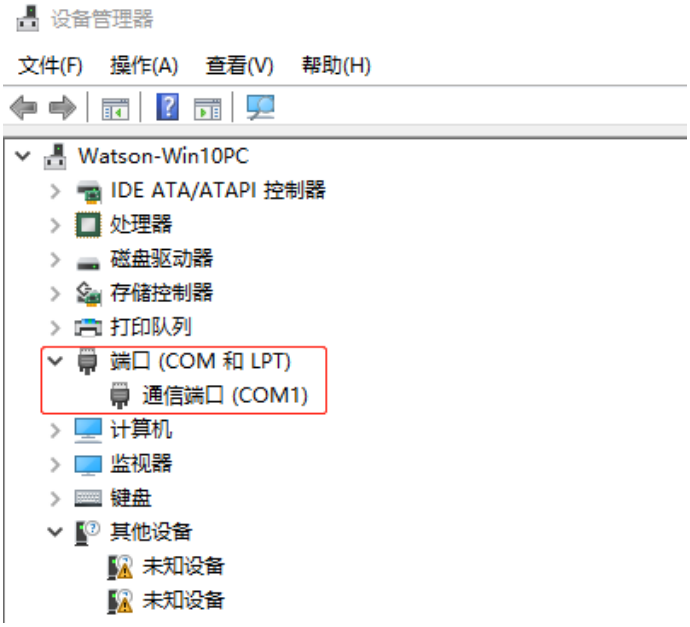


4. Example

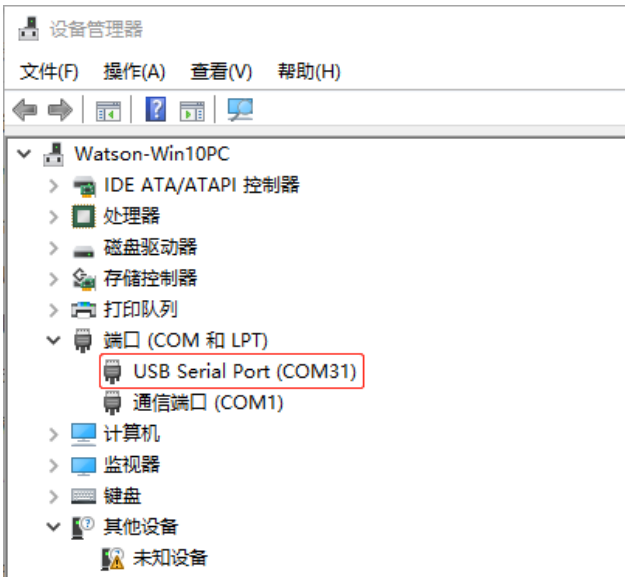
This is to verify that you can now program M5StickC with the Arduino IDE.

(1) View the serial port number

turn on设备管理器 (Device manager)



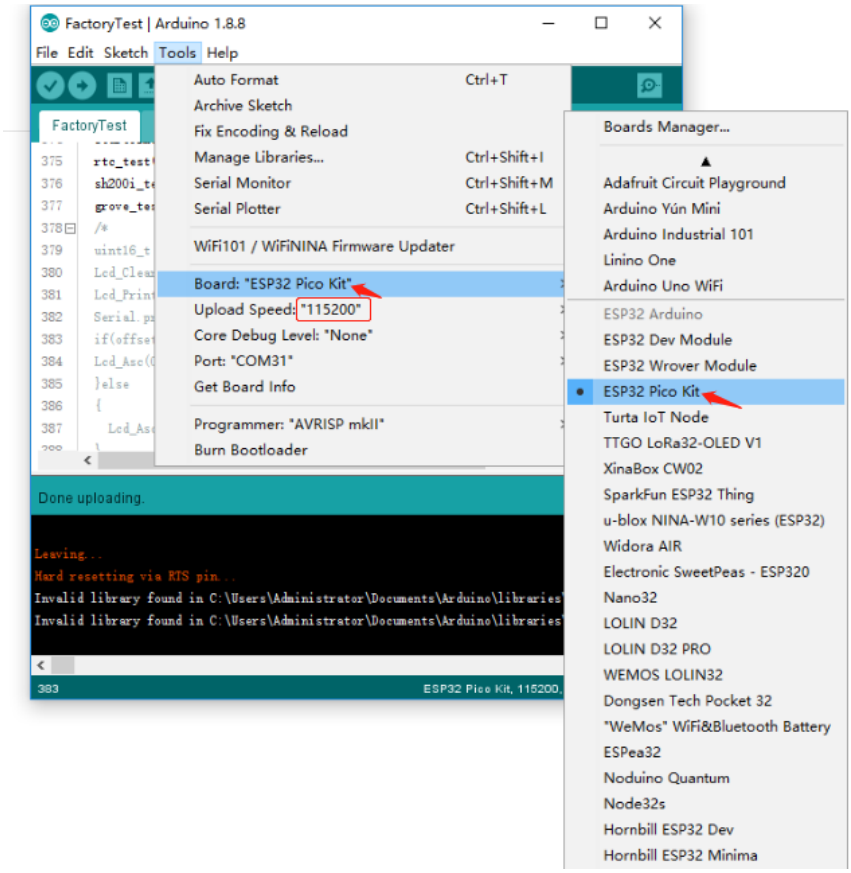
Because the M5StickC serial driver chip is driver-free, the Tpye-C USB cable is used to connect the M5StickC to the computer. A 设备管理器 (Device manger) new serial port number will appear.



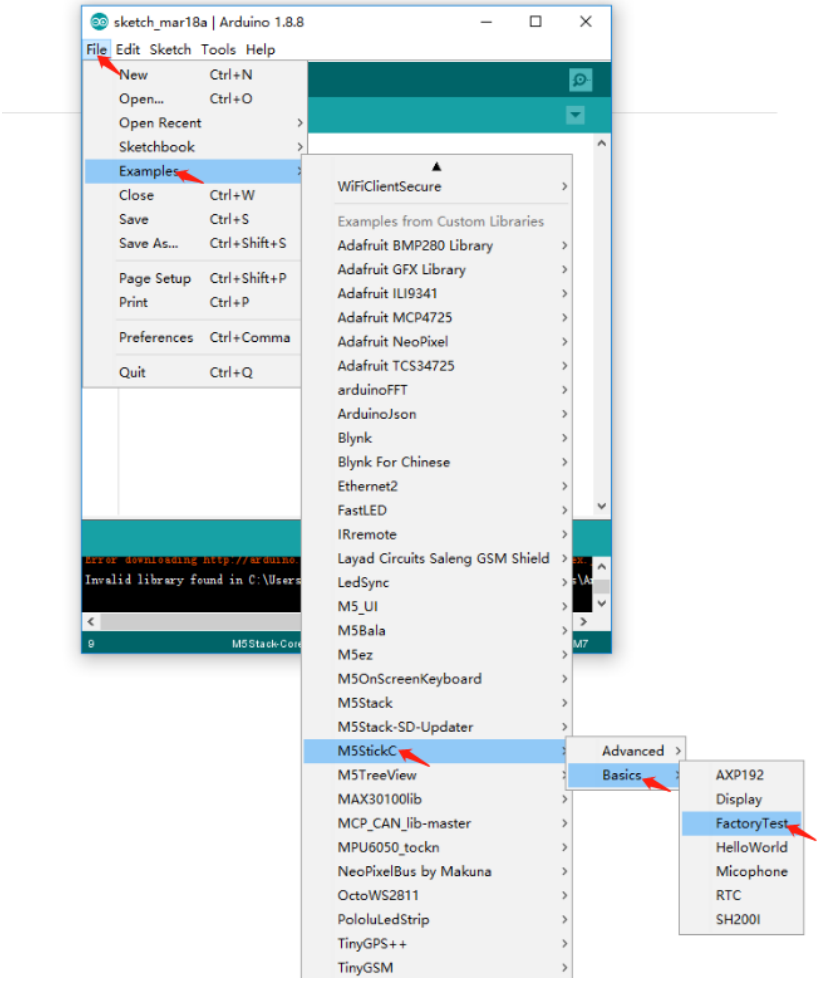
(2) Run a sample program, such as FactoryTest.ino

Open the Arduino IDE and select the correct serial port number. This serial port number is actually the serial port number of the M5StickC. Be careful not to choose the wrong one.

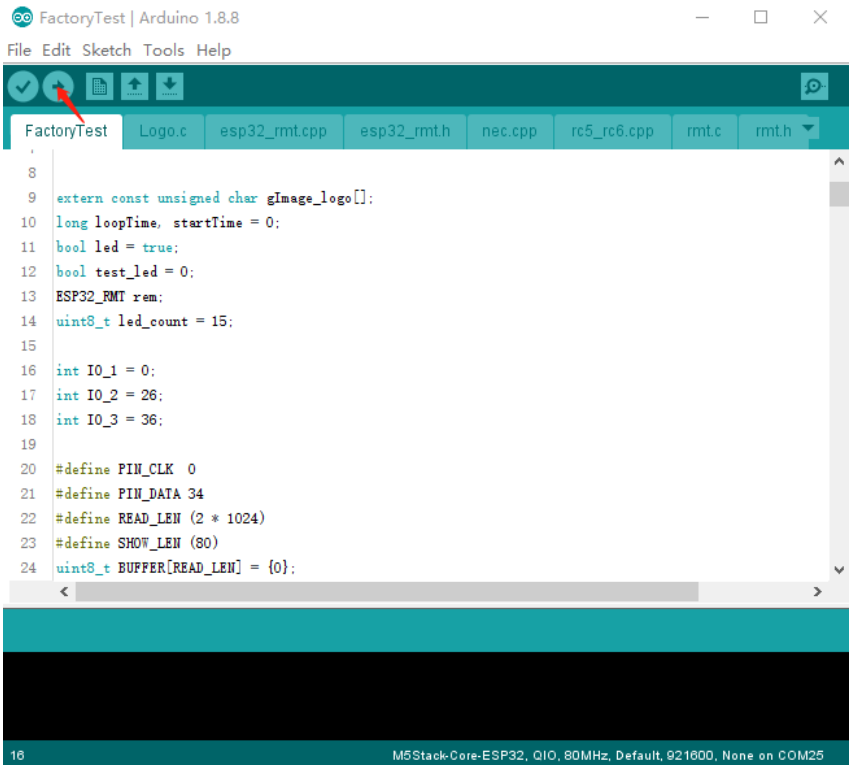
- Select Development Board (Board): ESP32 Pico Kit
- Select the Upload Speed: 115200bps or 1.5Mbps
- Select the serial port number (Port): COM31 (I am now connected to the M5StickC serial port COM31, so I should choose COM31)



Select M5StickC-> Basics->FactoryTest.ino



Click to upload



III. UIFlow

1. Burn UIFlow firmware

(1) Download M5Burner

1. Click on the M5Burner burning tool below your own operating system to download.

M5Burner:

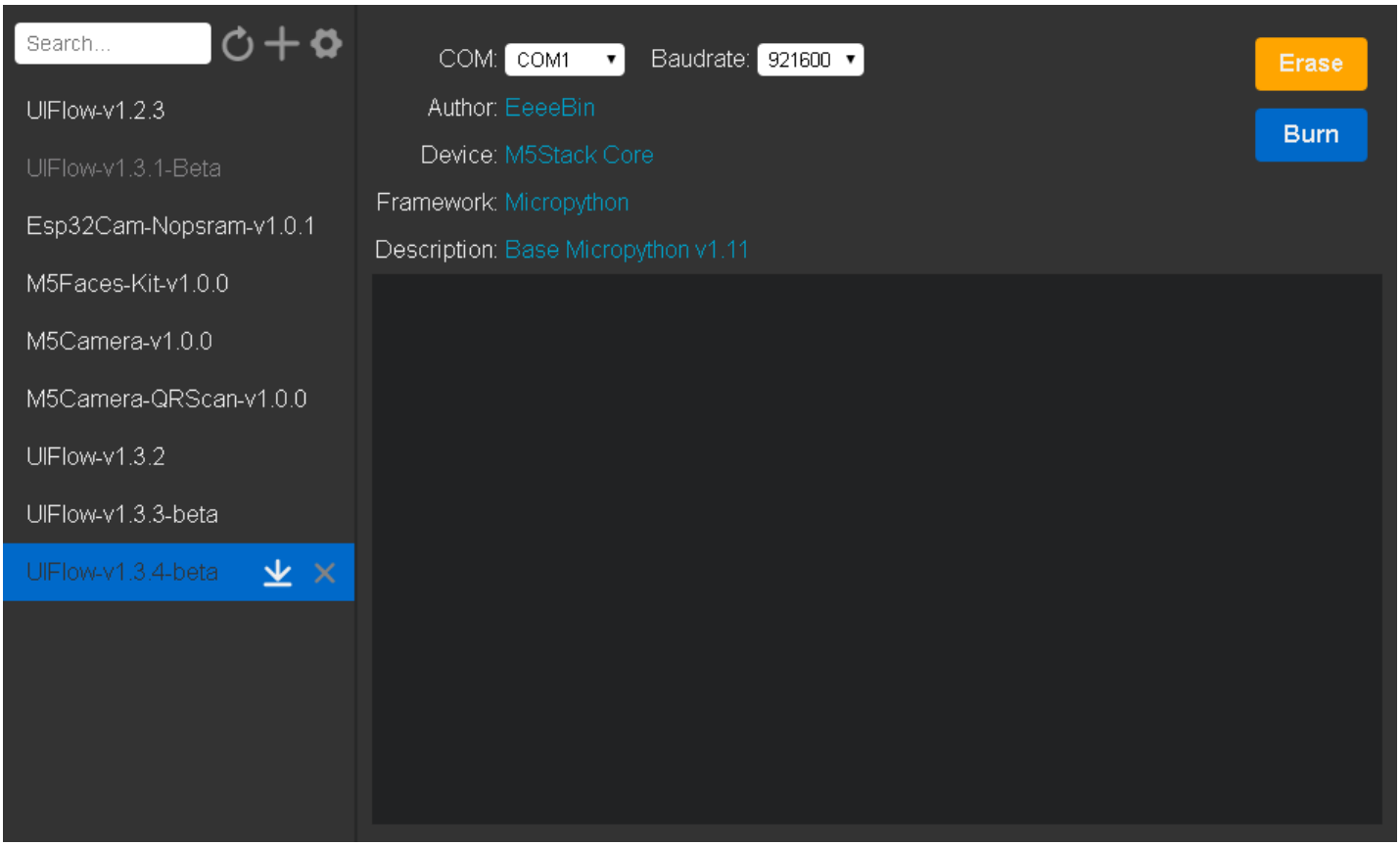
Windows MacOS Linux

(2) Burning firmware

Connect the M5StickC to your PC with a USB Type-C cable, unzip the M5Burner, and double-click the executable M5Burner.exeto open M5Burner

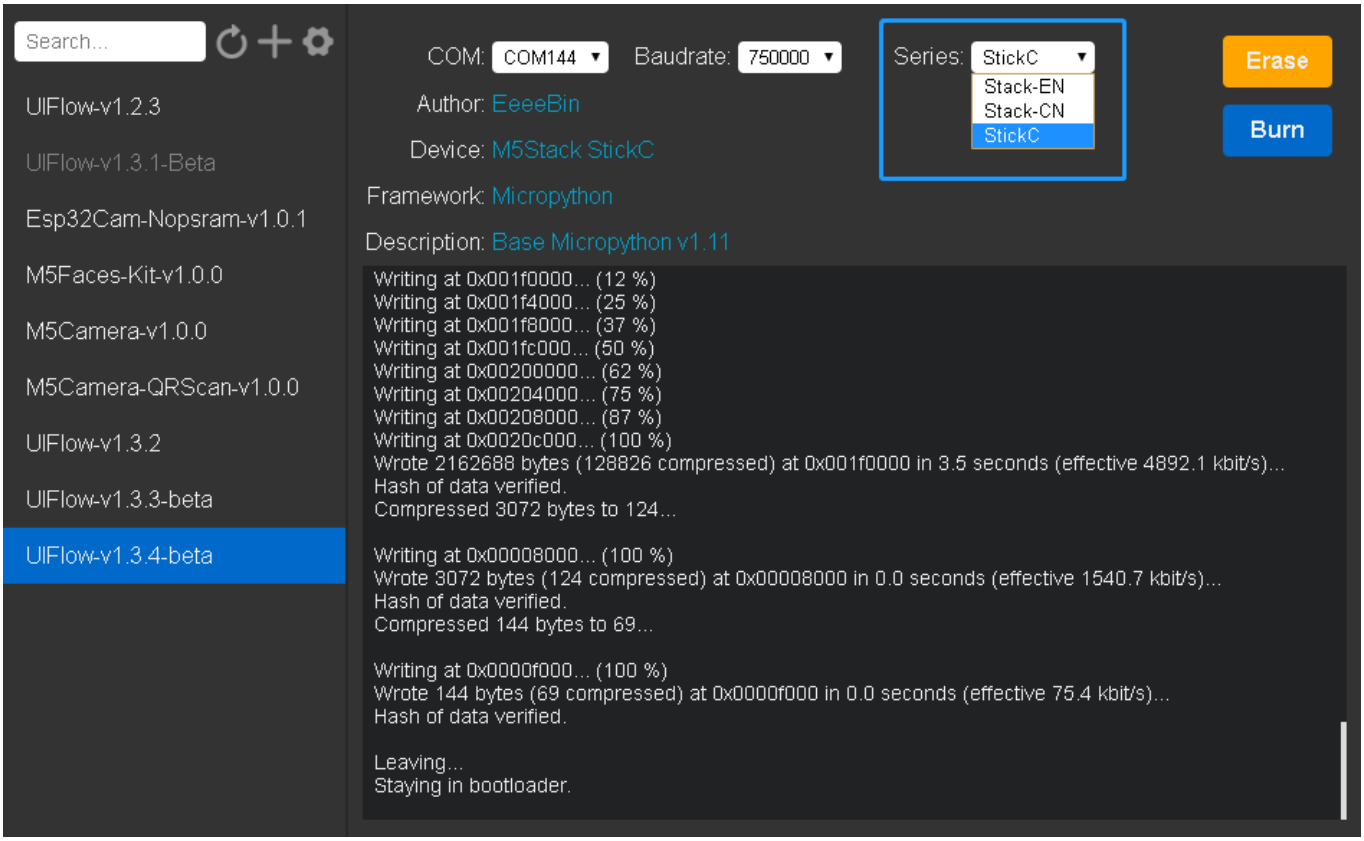
Choose the right one COM, Baudrateand the latest version固件 (Firmware)

- Select COM: COM31
- Select the baud rate (Baudrate): 115200
- Download and select Firmware: UIFlow-vx.xx-StickC



Click Burnto burn the firmware

The figure below shows that the firmware of M5StickC has been downloaded successfully.



2. Set up Wi-Fi

After a successful burning M5StickC of UIFlow firmware, tap the bottom left corner of M5StickC Power Switchbutton

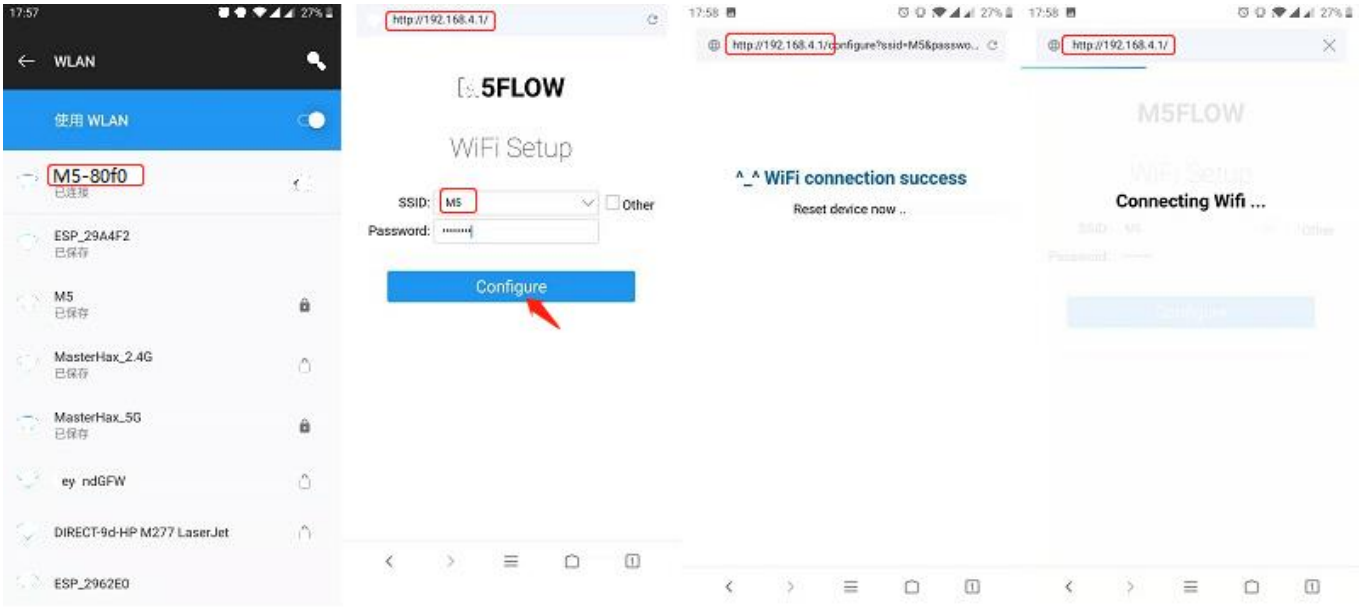
M5StickC will open the Wi-Fi hotspot and display the hotspot (AP) name as shown below

(2) Connect to AP

Note

The information content of the configured WIFI is not allowed to use Chinese and special symbols.

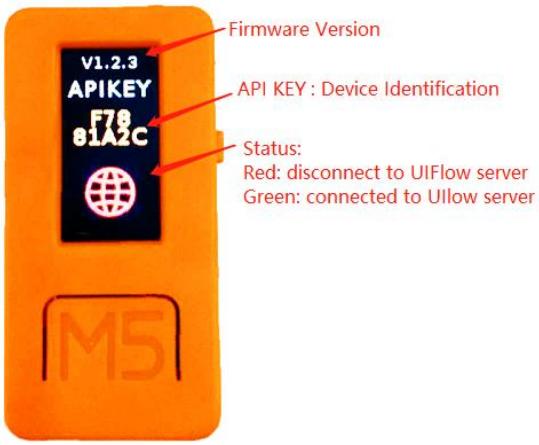
Open the Wi-Fi settings of your phone or computer, and then connect the hotspots displayed on the M5StickC screen (for example, the hotspot name I display here is M5-80f0), after successful connection, open the browser to access the URL 192.168.4.1, and then select the networkable Wi-Fi and enter your Wi-Fi password. (Now, my Wi-Fi here is M5.)



(3) Connect Wi-Fi

M5StickC reboots, then successfully connected to Wi-Fi (I am using M5), it will be displayed on the screen of M5StickC APIKEY

Description of APIKEY: Device unique identifier. As long as UIFlow is connected to the APIKEY of this M5StickC device, the programmed code will be downloaded to this device.



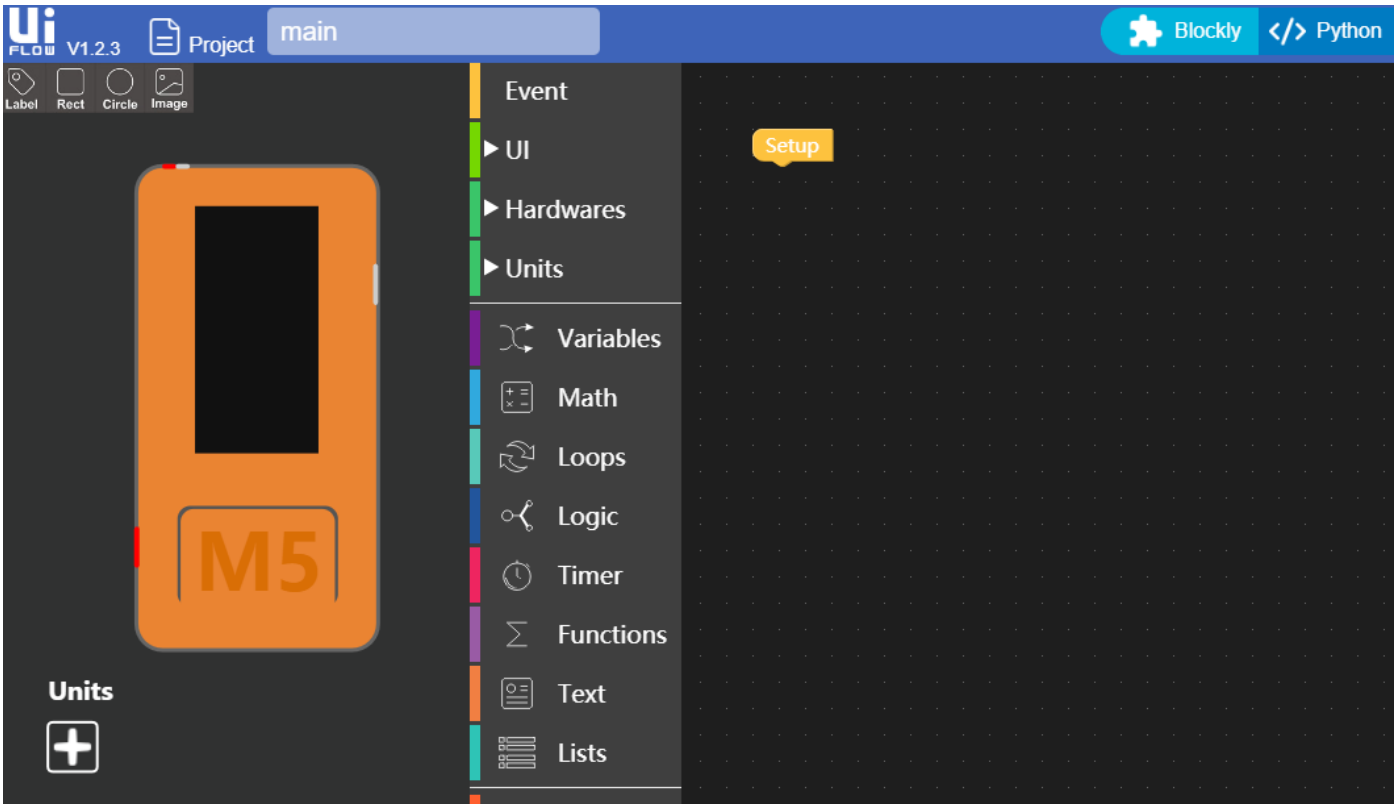
The status of the network icon on the screen at this time:

- Green: M5StickC successfully connected to the UIFlow server, which is online, you can start programming
- Red: M5StickC is not connected to the UIFlow server and is offline.

4. Routine

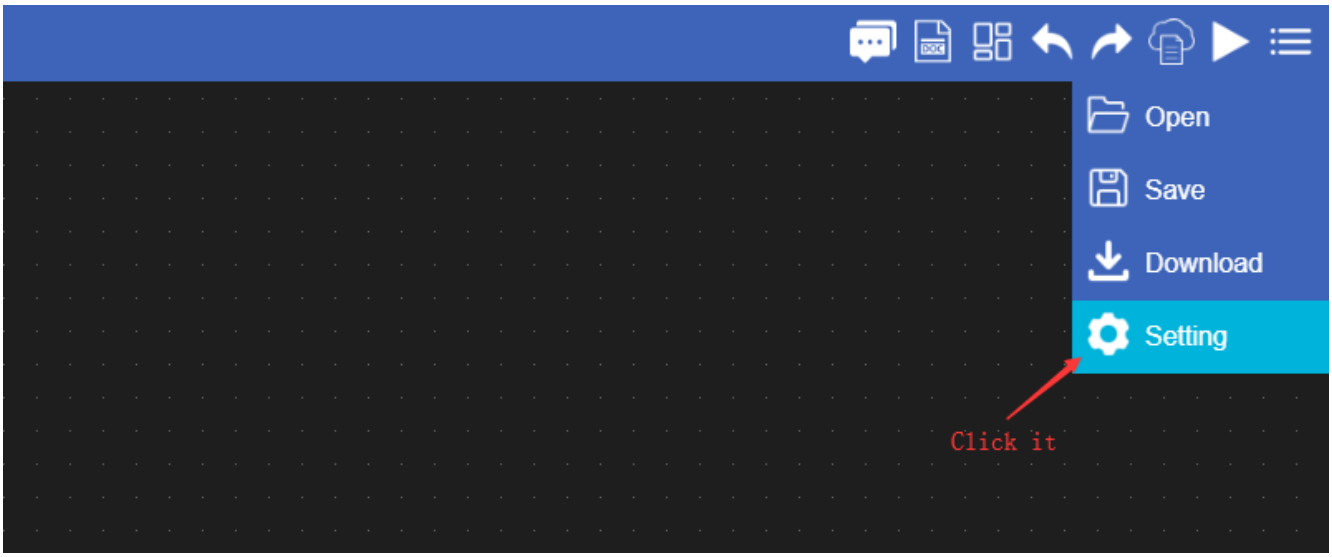
(1) Connect to UIFlow

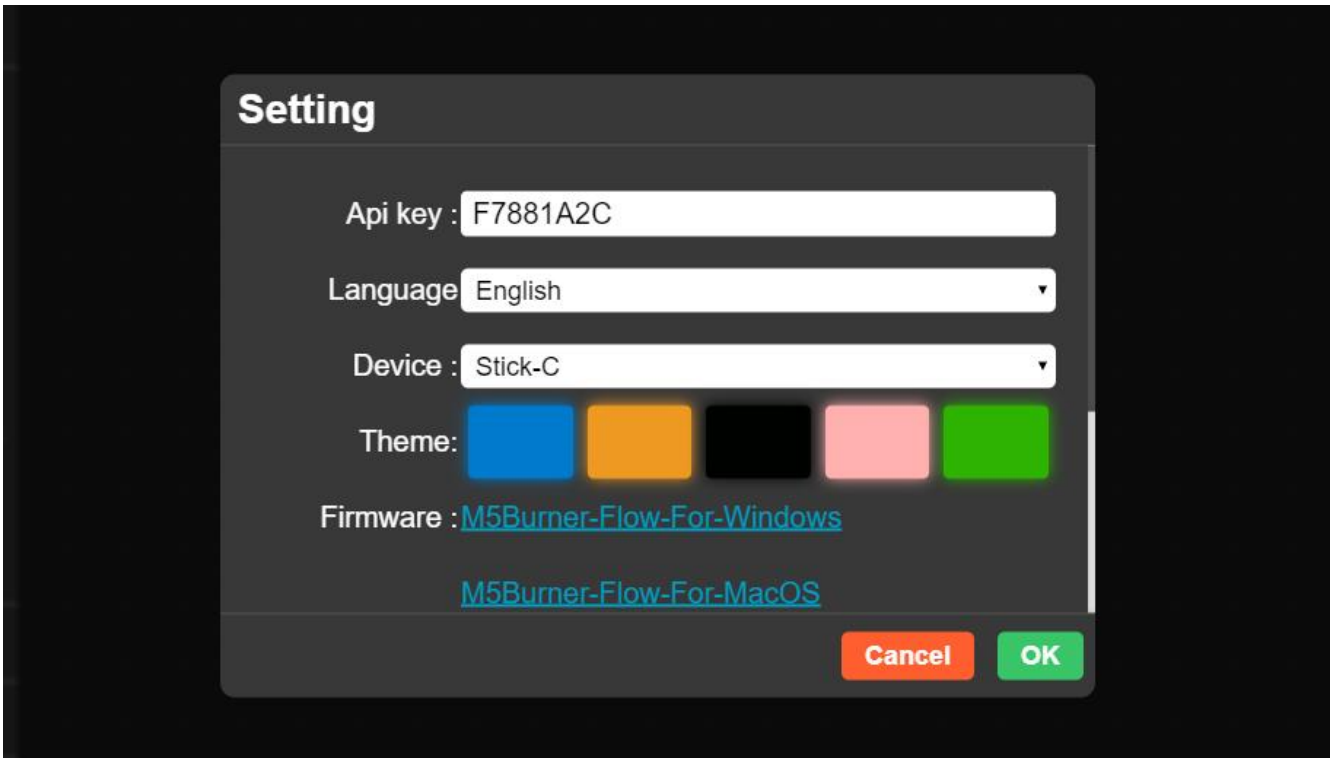
If you use computer programming, then visit in a browser flow.m5stack.com



Then click on the gear in the upper left corner of UIFlow, enter the APIKEY displayed on your M5StickC in the pop-up window, and click 保存 (Save), so UIFlow is bound to your M5StickC device.

Note: Every time you upload a program to M5StickC in UIFlow, please make sure that the current UIFlow is connected to your M5StickC APIKEY, which is to ensure that UIFlow is bound to your M5StickC device.



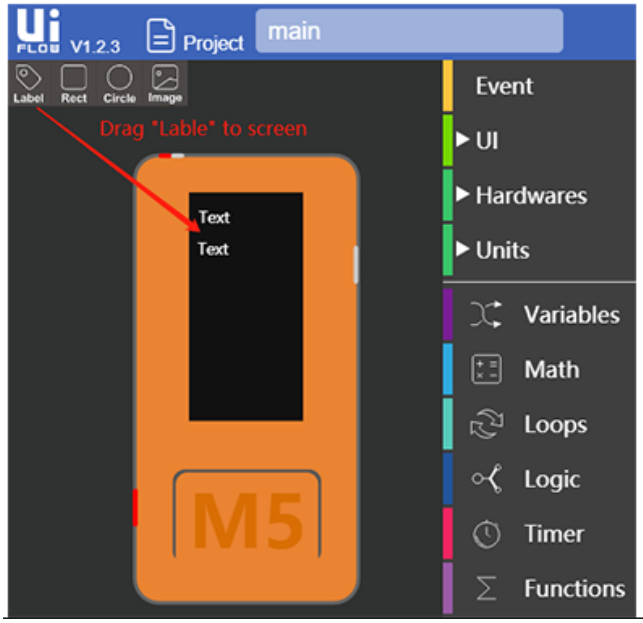


Now you are ready to start using UIFlow!

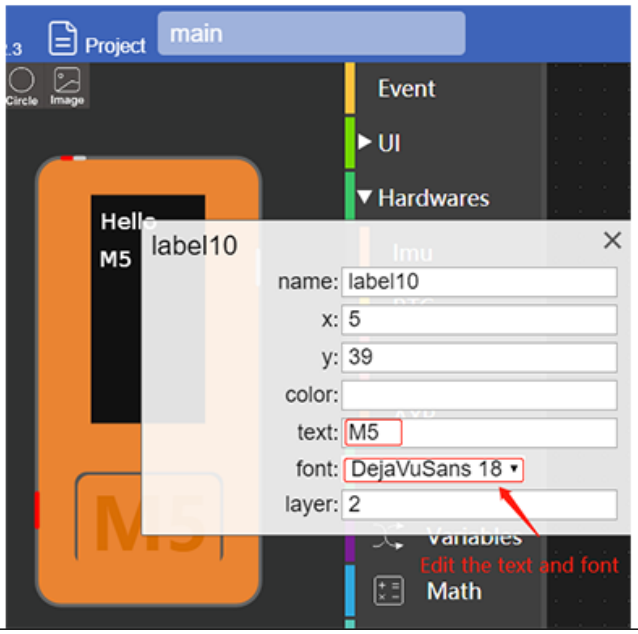
(2) Write a routine

Drag UIFlow the upper left corner of the interface Lablecontrols to M5StickC, changing their properties: 文本and字体 (Text and Font)

Step 1



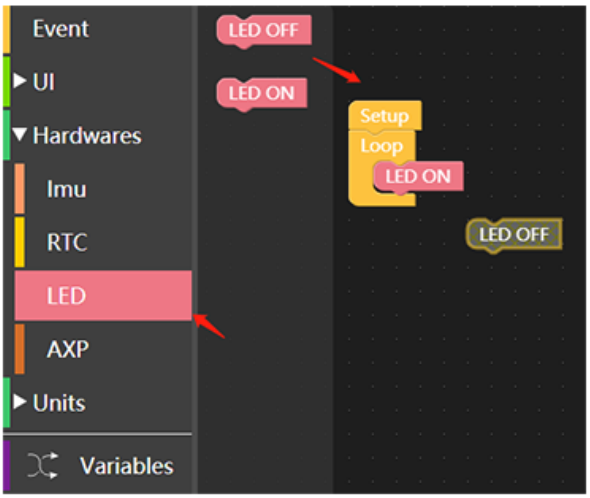
Step 2



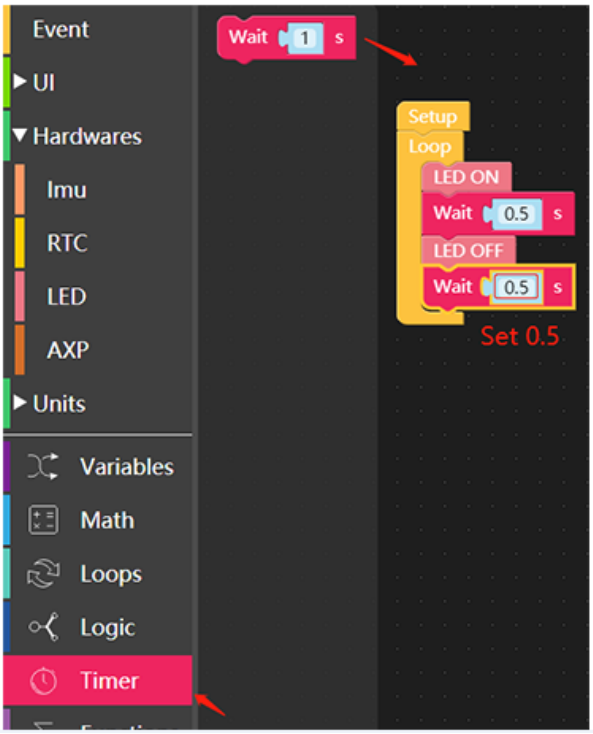
From the 硬件(Hardware) -> LED, the drag is a well-known LED ONand another called LED OFFthe Block

From 时间(Time) the drag two named 等待 (Wait)1 秒 (Second) Block,

Step 3

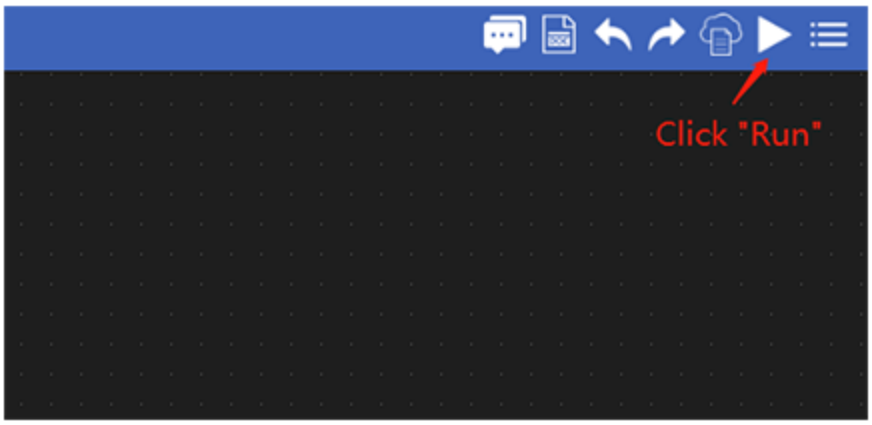


Step 4



Click on the top right corner UIFlow interface RUNbuttons

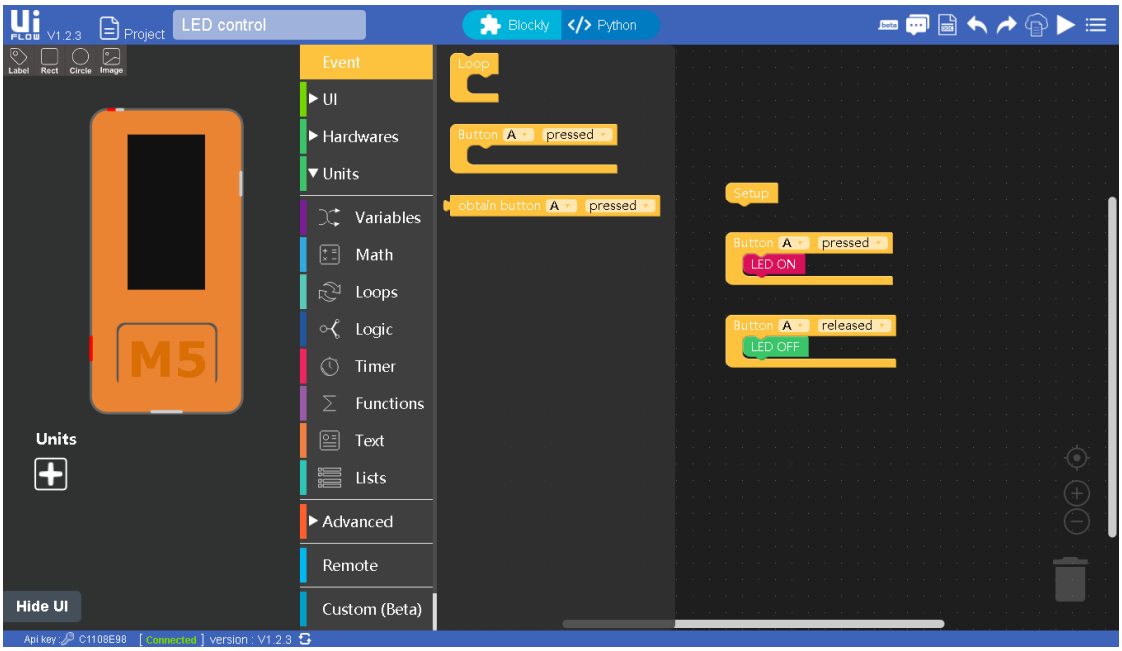
Step 5



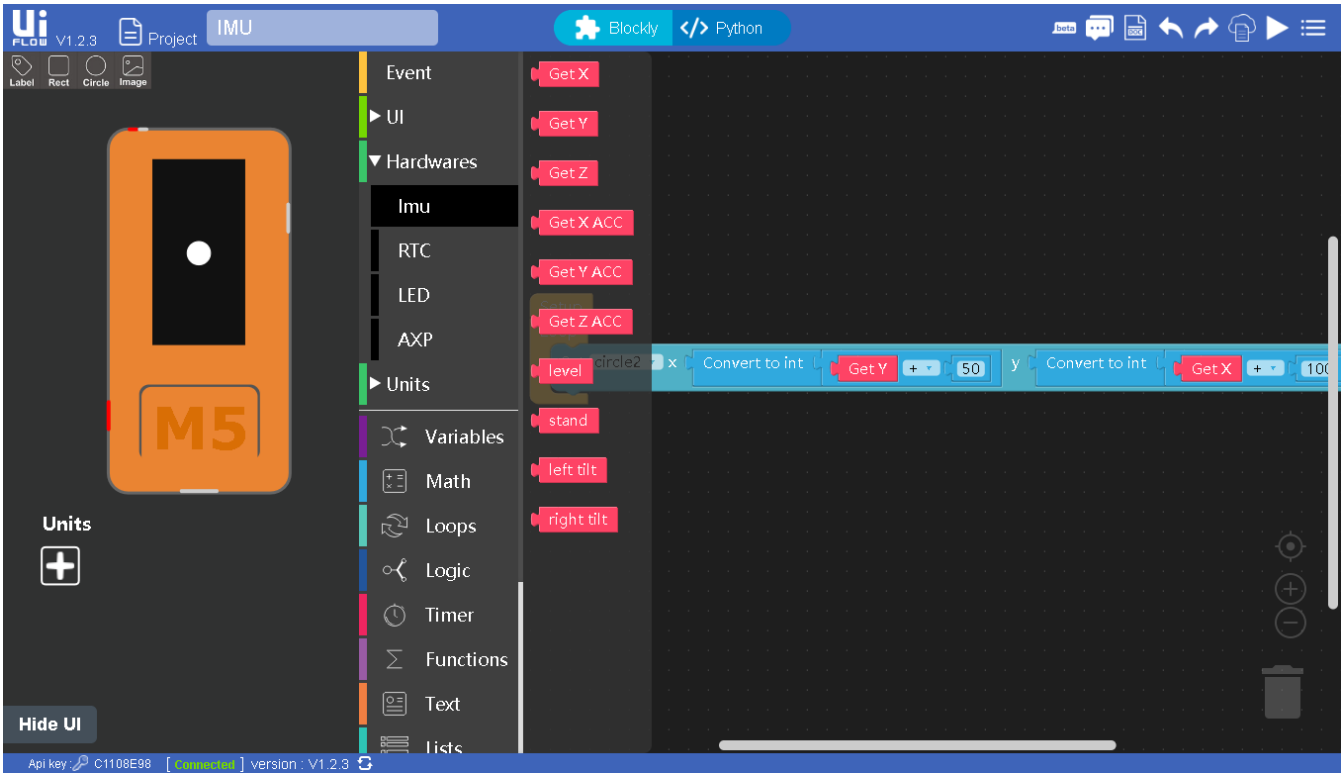
Result:

(3) Programming case

Button control LED light



IMU system



Remote remote control