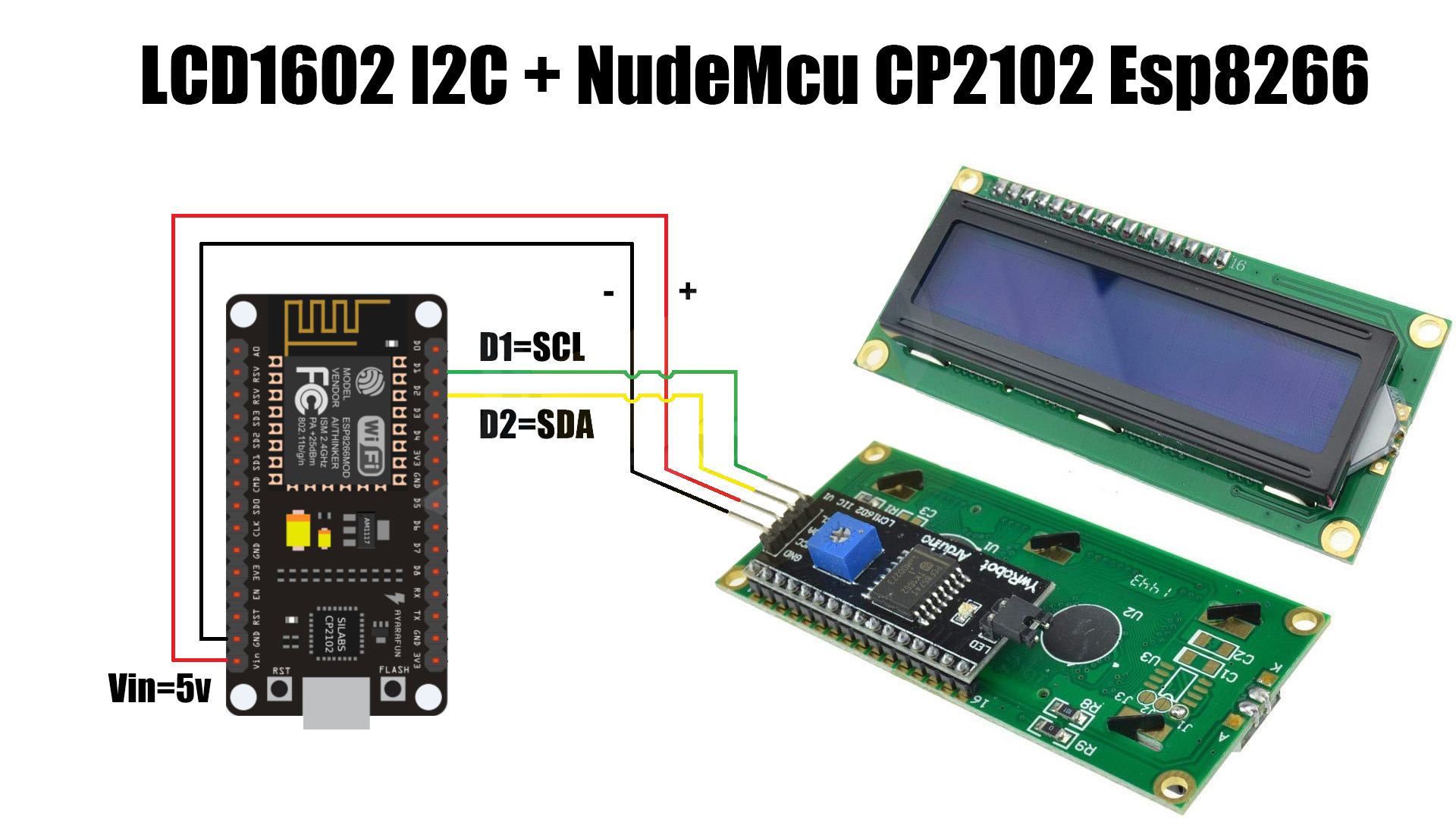
Development board and LCD screen connection instructions



LCD1602/LCD2004 Display ---------- Development board

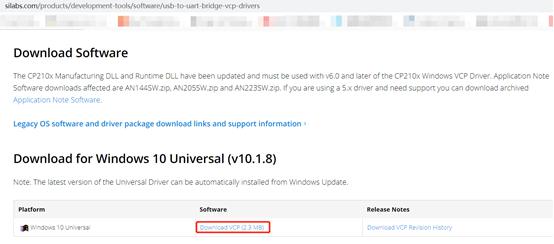
VCC --------------- VIN

GND -------------- GND

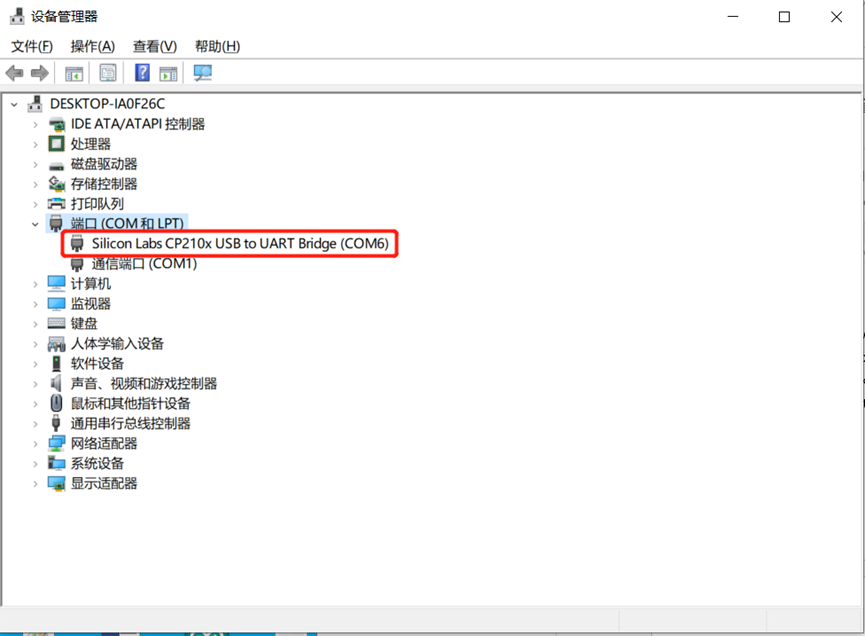
SDA ------------- D2

SCL ---------- D1

Production process:

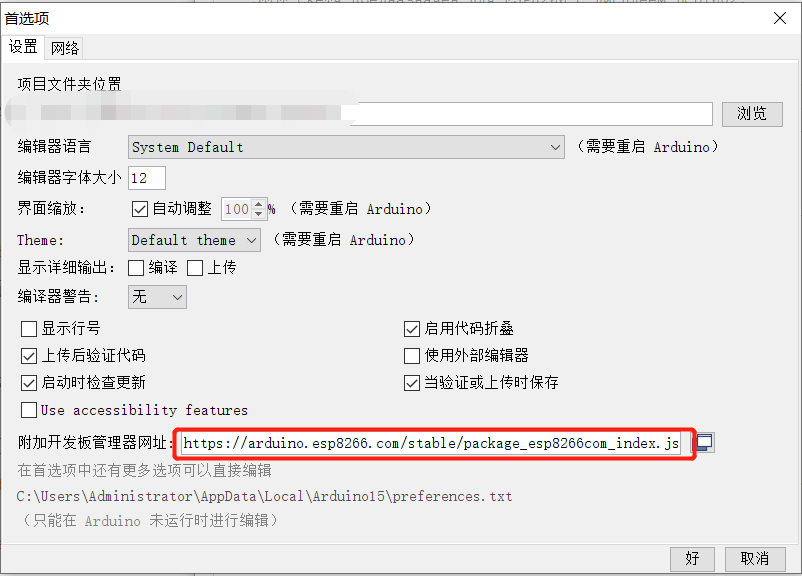


1. Download the esp8266 development board driver: https://www.silabs.com/products/development-tools/software/usb-to-uart-bridge-vcp-drivers, after downloading, you need to connect the development board to the computer, and then on the device Check to see if the device already exists in the manager. There are instructions that your development board and driver are correct. If not, there may be a problem with the board or cable.

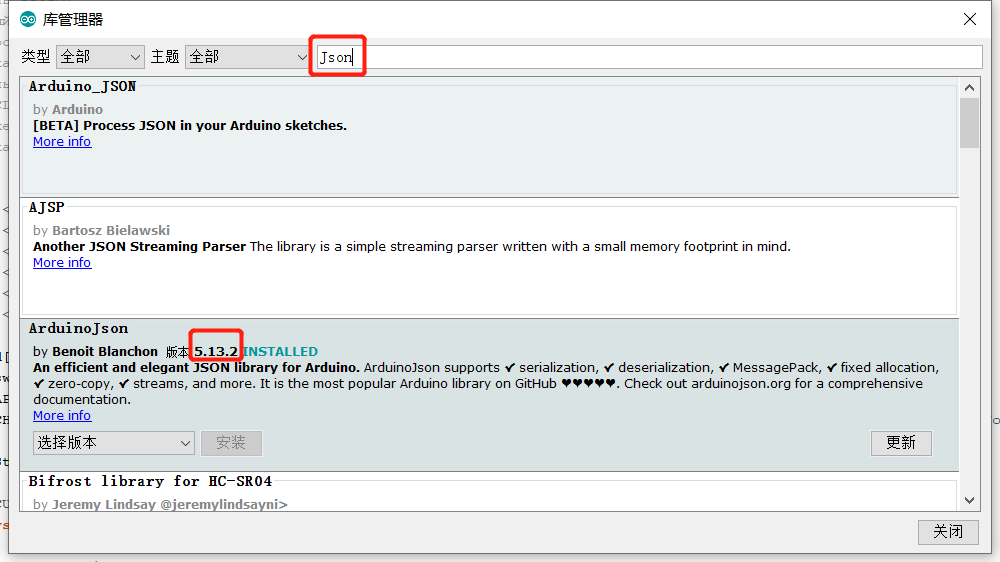


2. Download Arduino development software: https://www.arduino.cc/

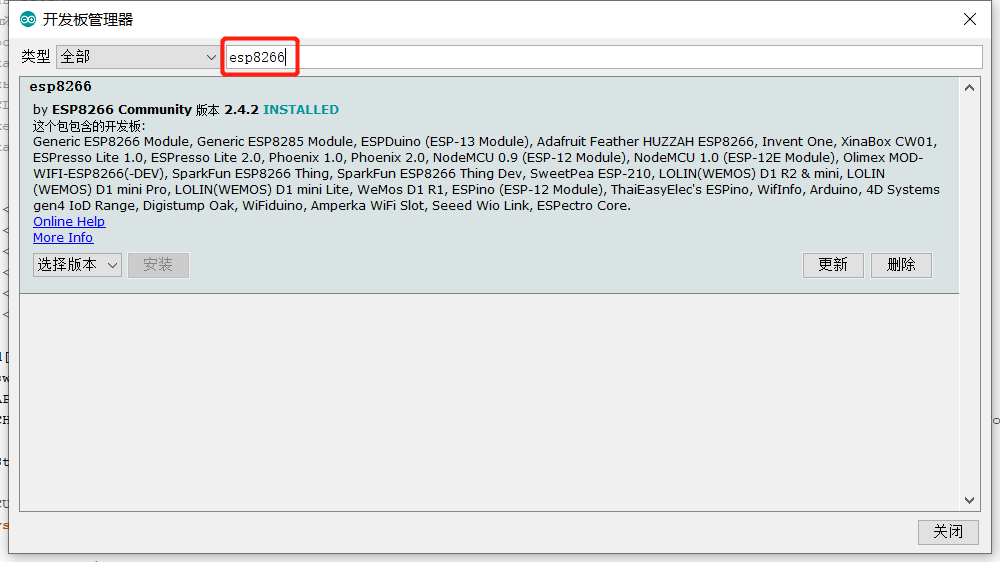
3. Set attachment development board management URL: Open Arduino development software, then select "File"-"Preferences", in "Additional Development Board Manager URL", add the following url: http://arduino.esp8266.com/stable/package\_esp8266com\_index.json



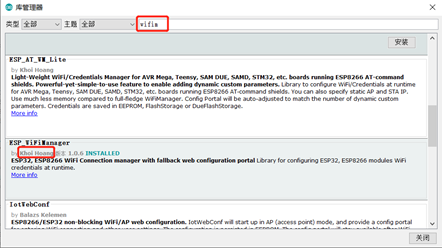
4. Install ArduinoJson: Open "Sketch"-"Library Manager" in the Arduino development software, then search for json, and then install ArduinoJson, the version selected is 5.13.2, the latest version will directly report an error, and the burning will fail.



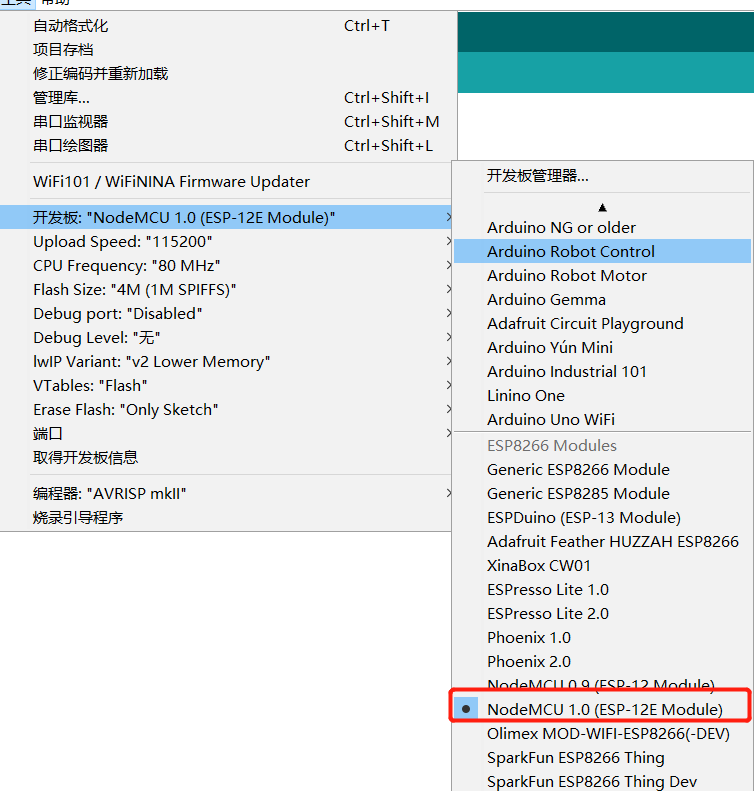
5. Install development board management in Arduino: Open "Tools"-"Development board Arduino yun"-"Development board manager" in Arduino development software, search for ESP82665, and select version 2.4.2 What needs to be said here is that if you do not configure the attachment development board management URL, you will not be able to search this one.



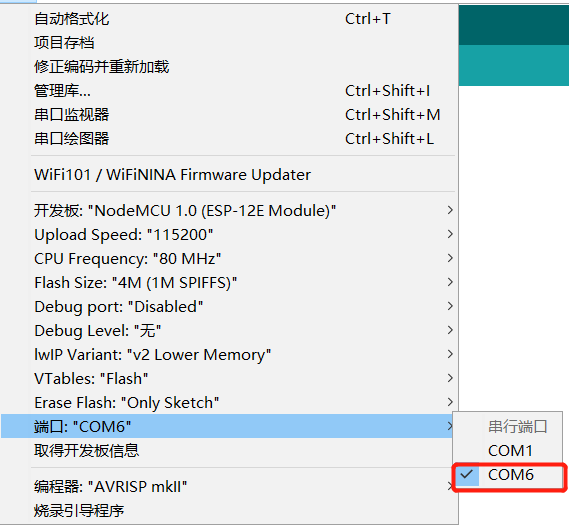
6. Install WIFIManager: Open "Sketch"-"Library Manager" in the Arduino development software, then search for wifim, and then install WIFIManager, the version selected is 1.0.6



Select the development board as NodeMCU 1.0, this is to choose the right.



Then select the port, this port should be the same as what you see in the device manager, so that you can burn the code into the development board.

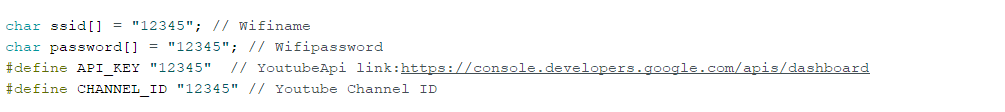


API Link: [https://console.developers.google.com](https://www.youtube.com/redirect?redir_token=LAJMD3UEJ8O8D6k18Teg_gvkUE98MTU4NTI5MzQ3MUAxNTg1MjA3MDcx&event=video_description&v=FBj9BePStpA&q=https%3A%2F%2Fconsole.developers.google.com)

How to get your Youtobe api follow：<https://www.youtube.com/watch?v=FBj9BePStpA&t=166s>

Period 06:07-08:07.

Modify your configuration file, replace the following code with your own



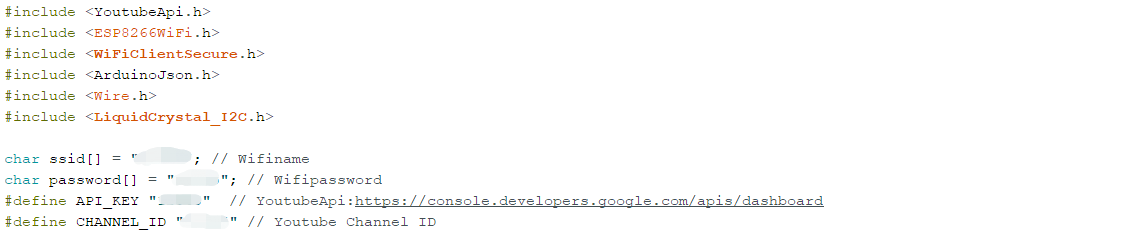
const char \* ssid = "Yourwifiname"; // WiFi name example: TENDA\_457F

const char \* password = "Yourwifipassword"; // WiFi password

define API\_KEY "Your Youtube api”

#define CHANNEL\_ID "Your Youtube Channel ID"

When you replace the code already just click upload and Waiting for programming to reach 100%



You can get your own sub count.

