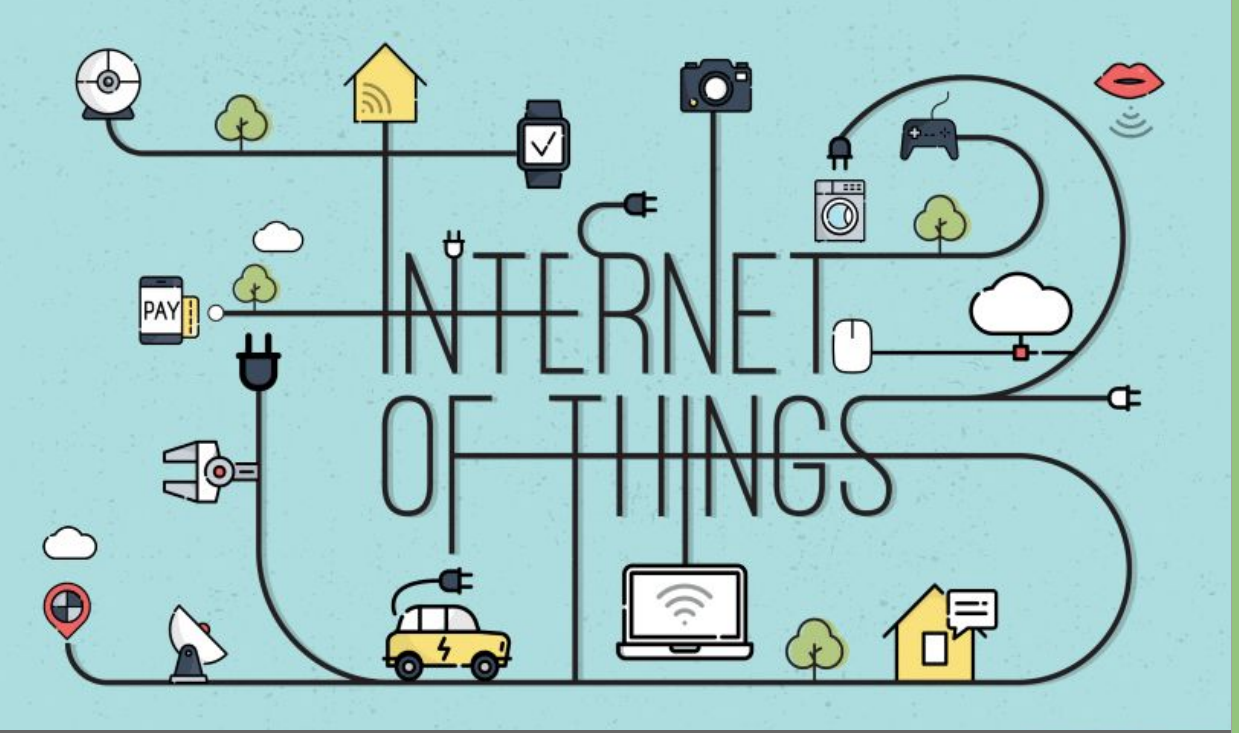


ESP32 + Arduino IDE

ARDUINO

Professor: Luiz Felipe Oliveira

Como eu começo?

INSTITUTO FEDERAL
Rio de Janeiro
Campus
Niterói

IDE

ARDUINO IDE

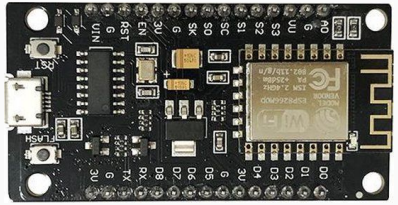
ESP-IDF

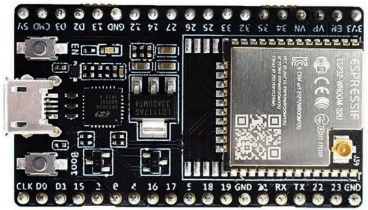
PLATFORMIO.ORG

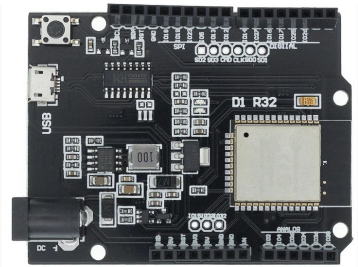
python

MicroPython

HARDWARE







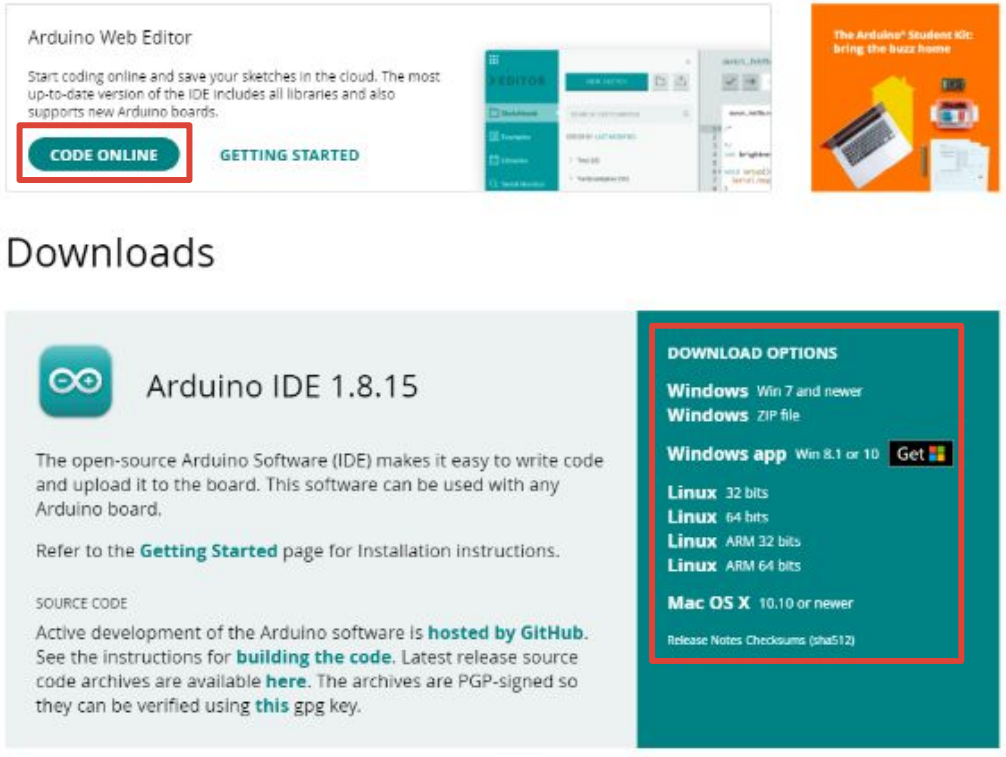
DRIVER

CH340

CP2102

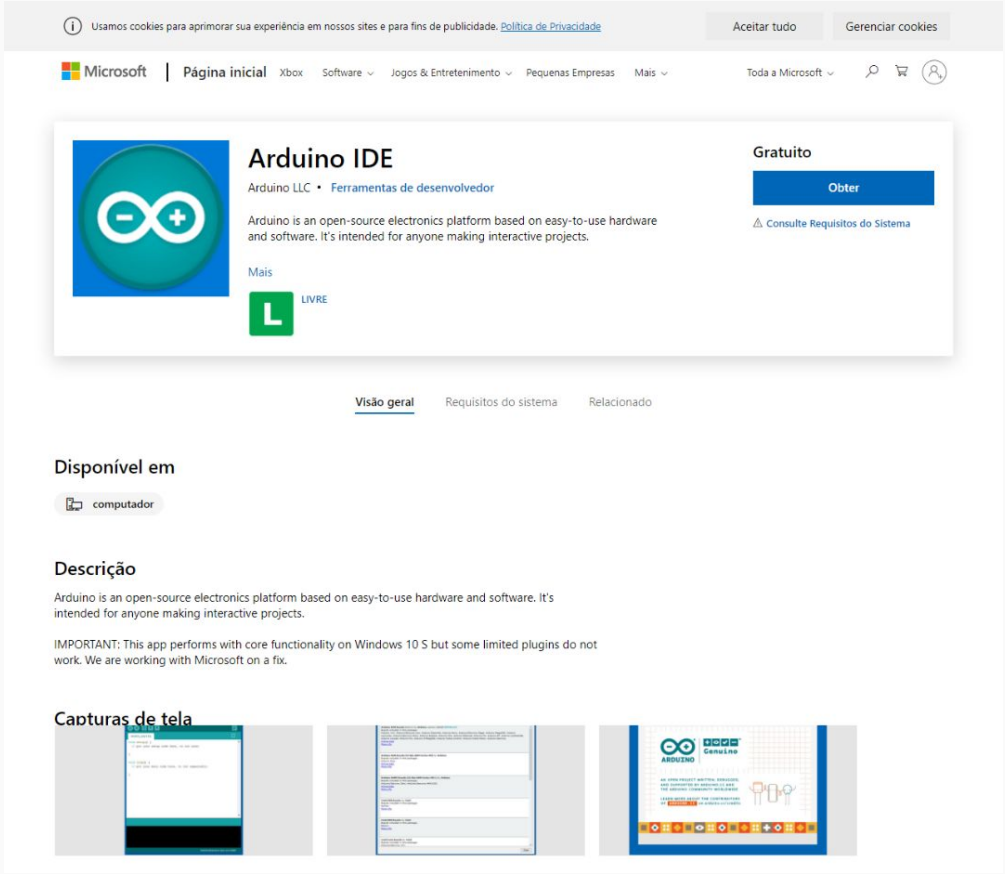
...

Opção 1: Instalando o Arduino IDE

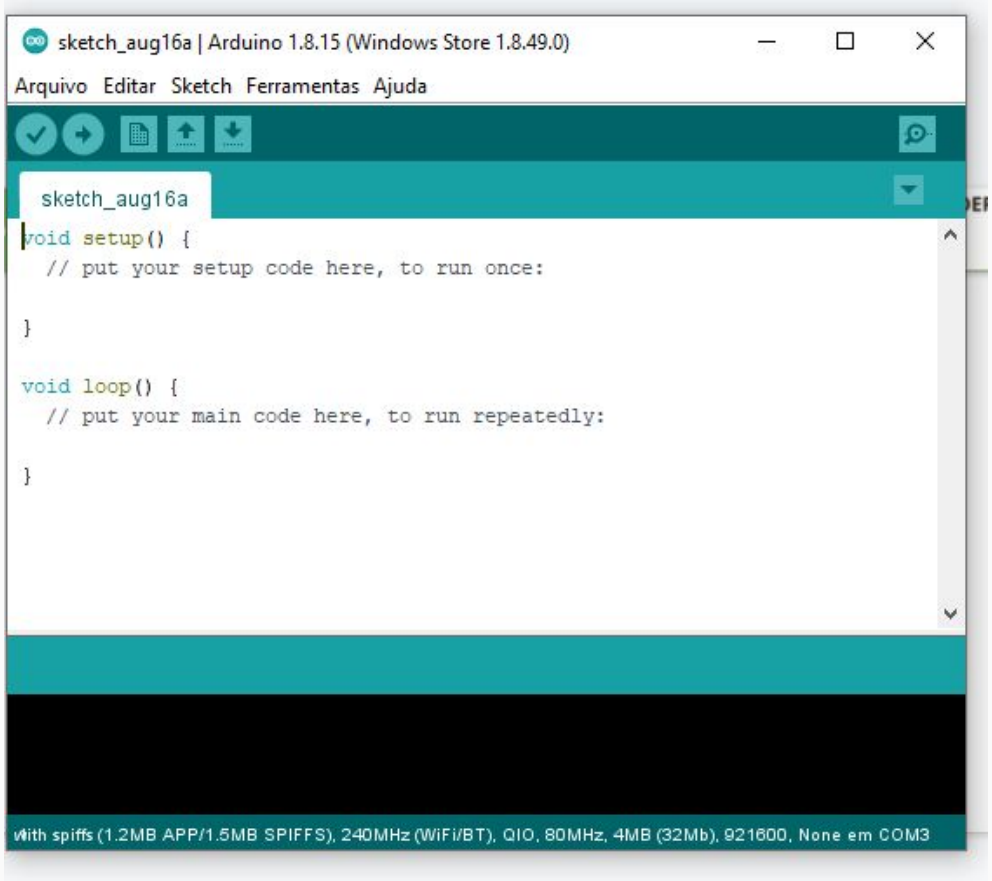


https://www.arduino.cc/en/software

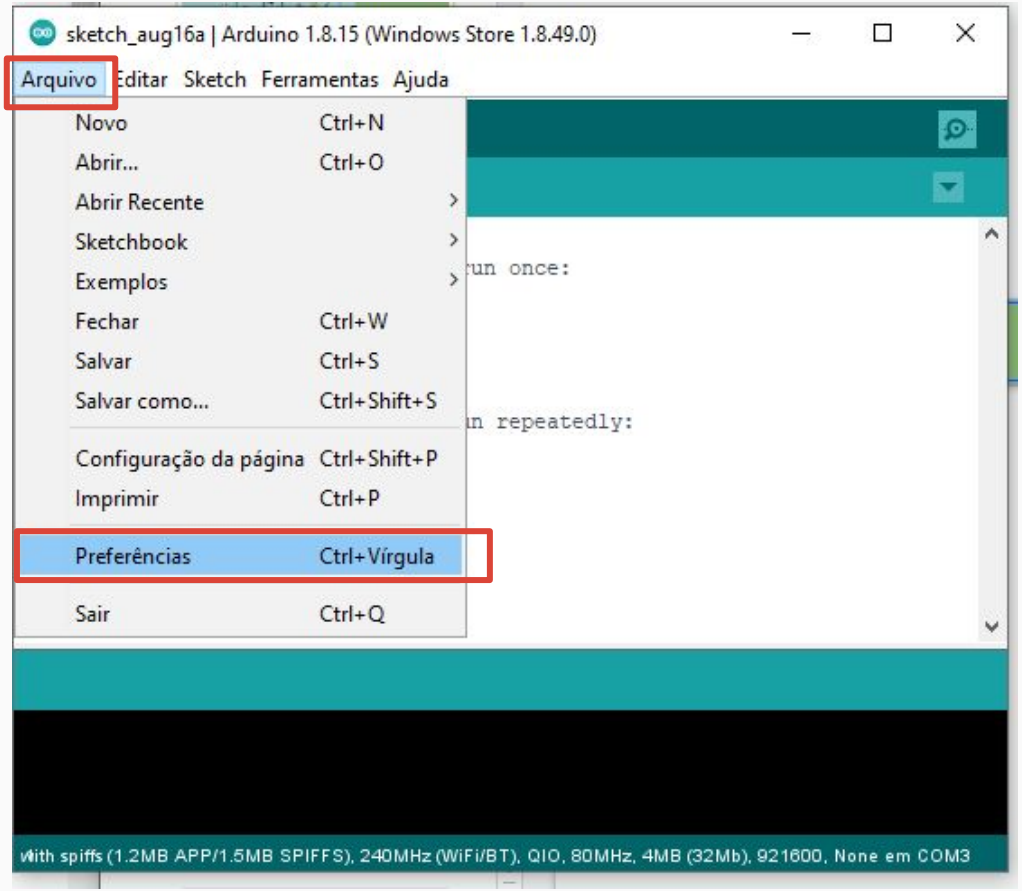
Arduino IDE na Loja de Aplicativos



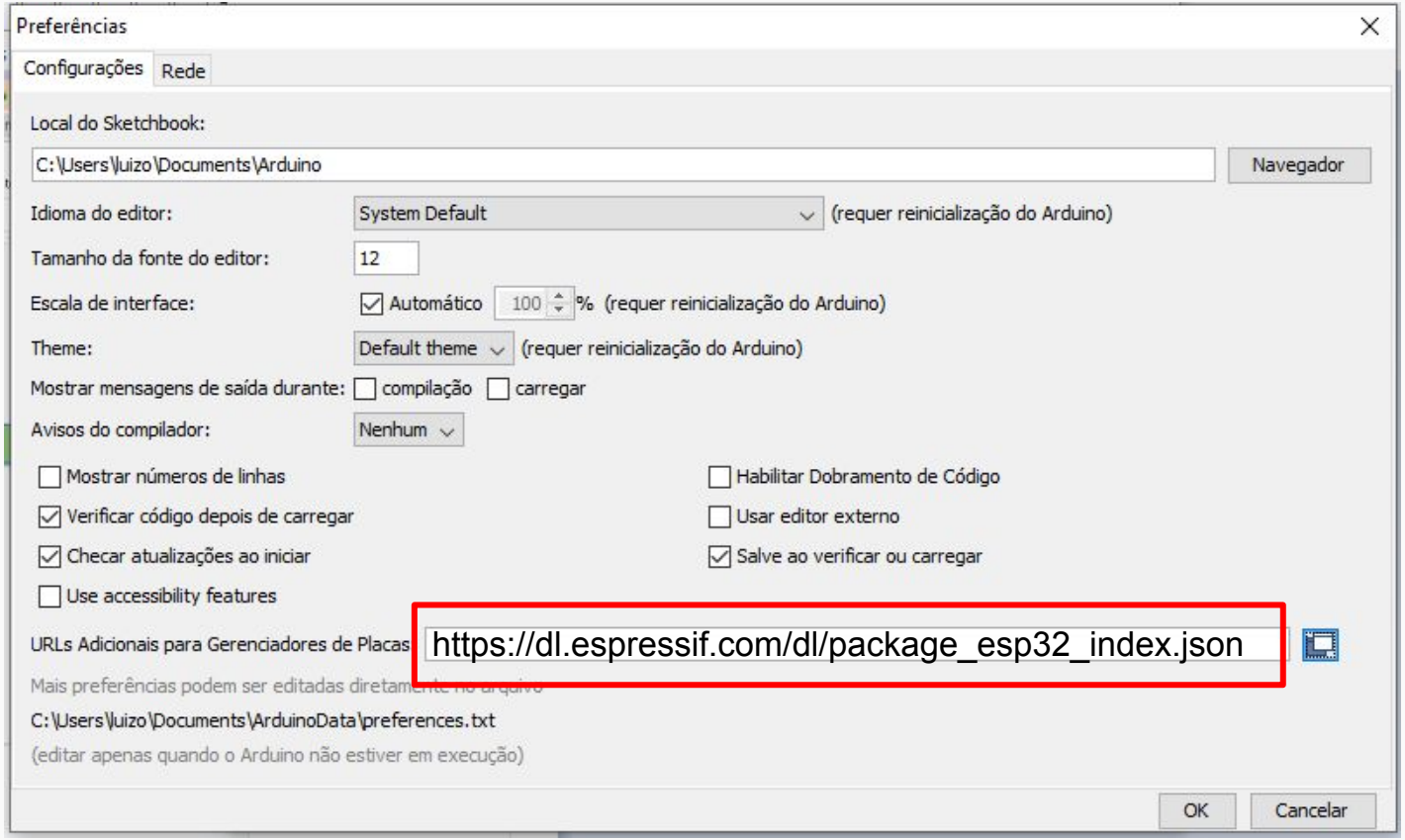
Arduino IDE


sketch_aug16a | Arduino 1.8.15 (Windows Store 1.8.49.0)
Arquivo Editar Sketch Ferramentas Ajuda
sketch_aug16a
void setup() {
// put your setup code here, to run once:
}
void loop() {
// put your main code here, to run repeatedly:
}
With spiffs (1.2MB APP/1.5MB SPIFFS), 240MHz (WiFi/BT), QIO, 80MHz, 4MB (32Mb), 921600, None em COM3

Adicionando suporte ao ESP32

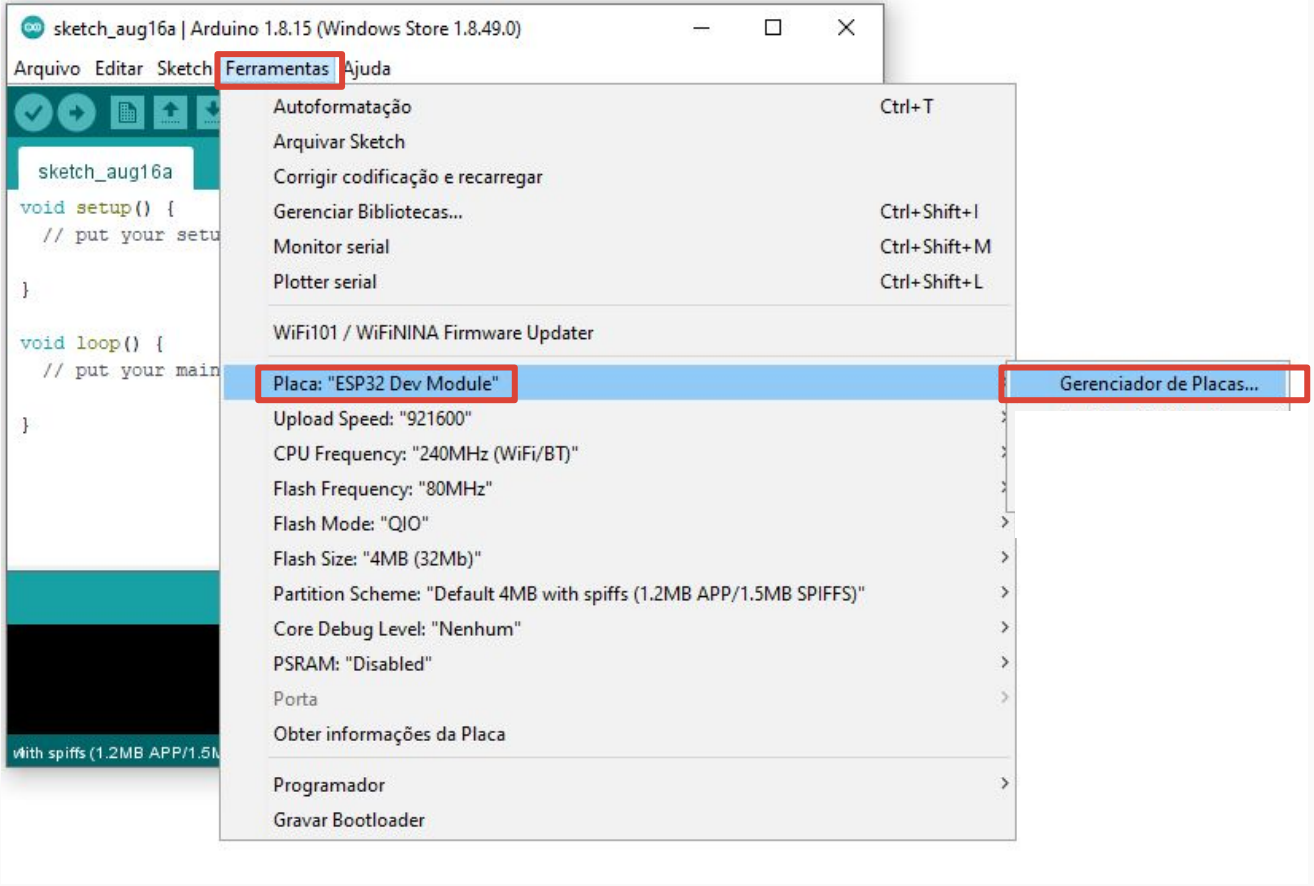


Adicionando suporte ao ESP32

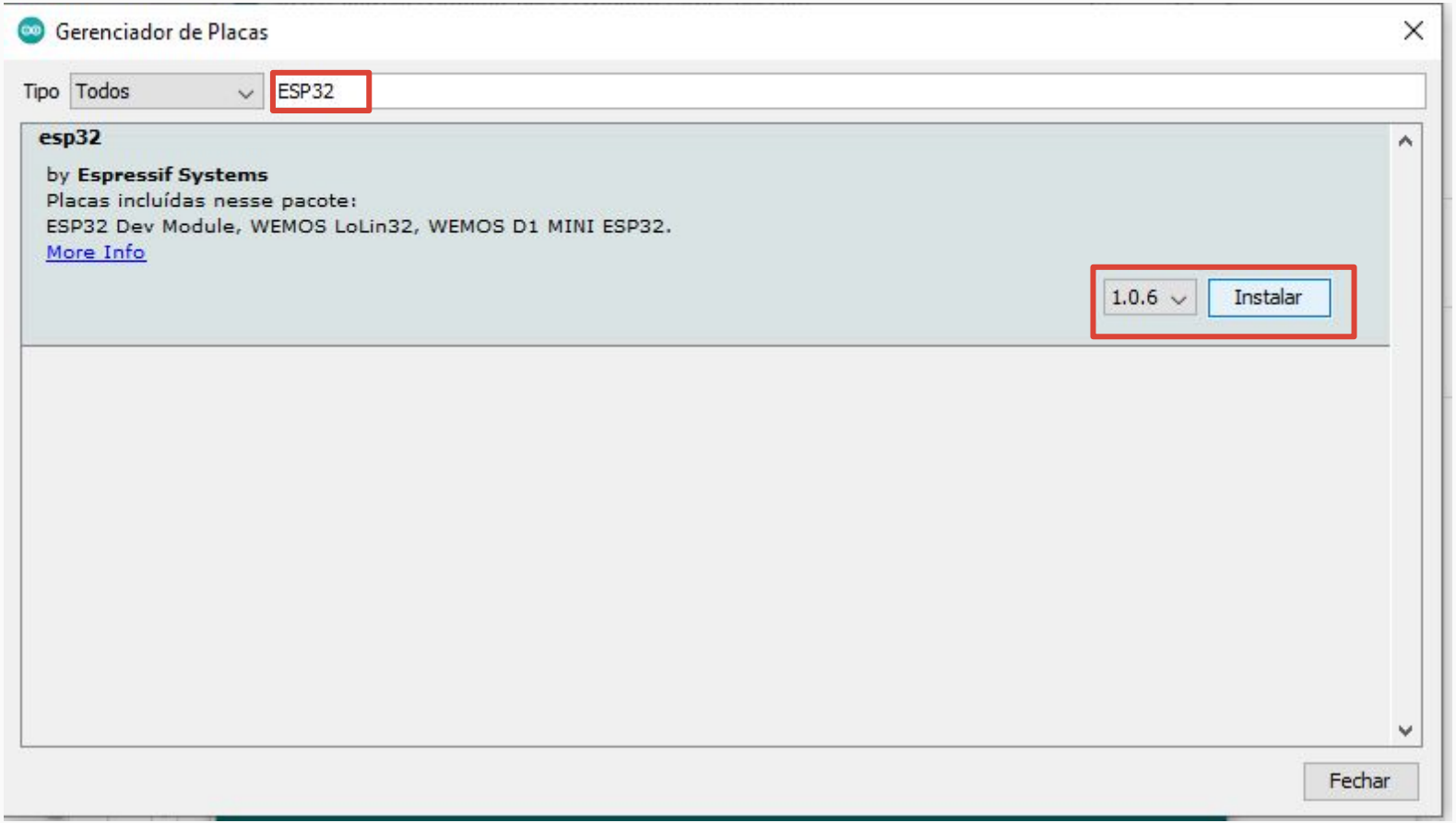


https://dl.espressif.com/dl/package_esp32_index.json

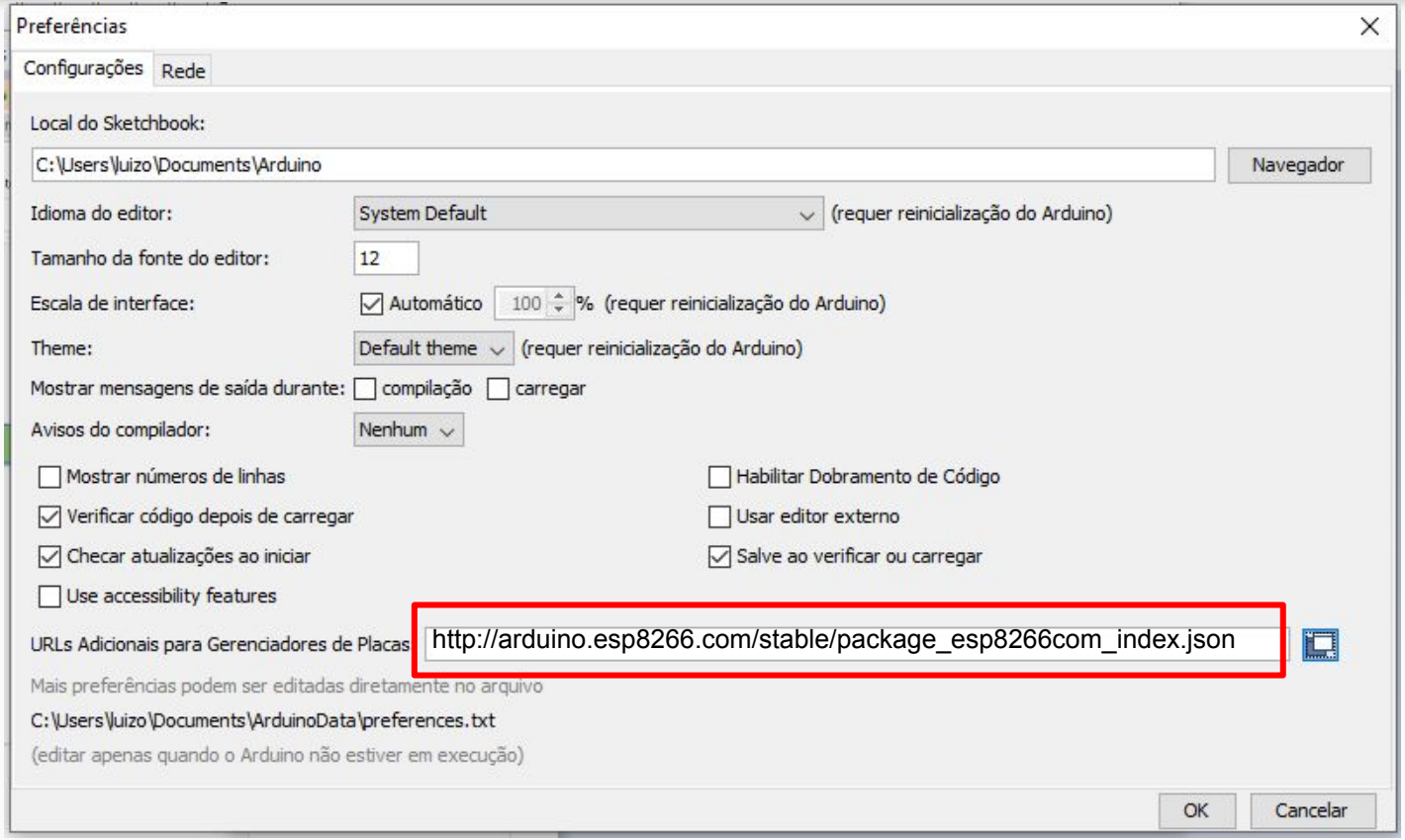
Adicionando suporte ao ESP32



Adicionando suporte ao ESP32

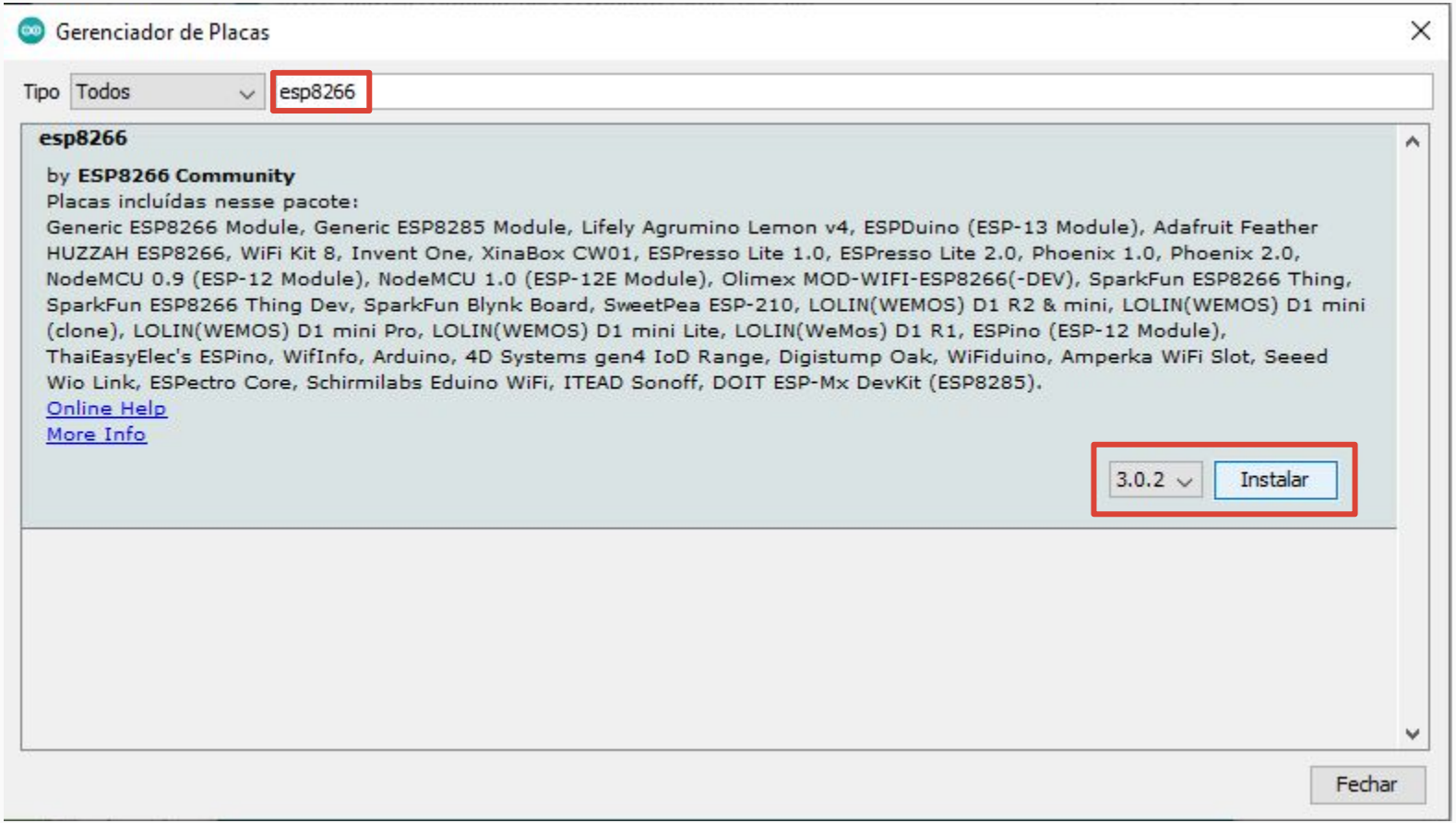


Opcional: Adicionando suporte ao ESP8266

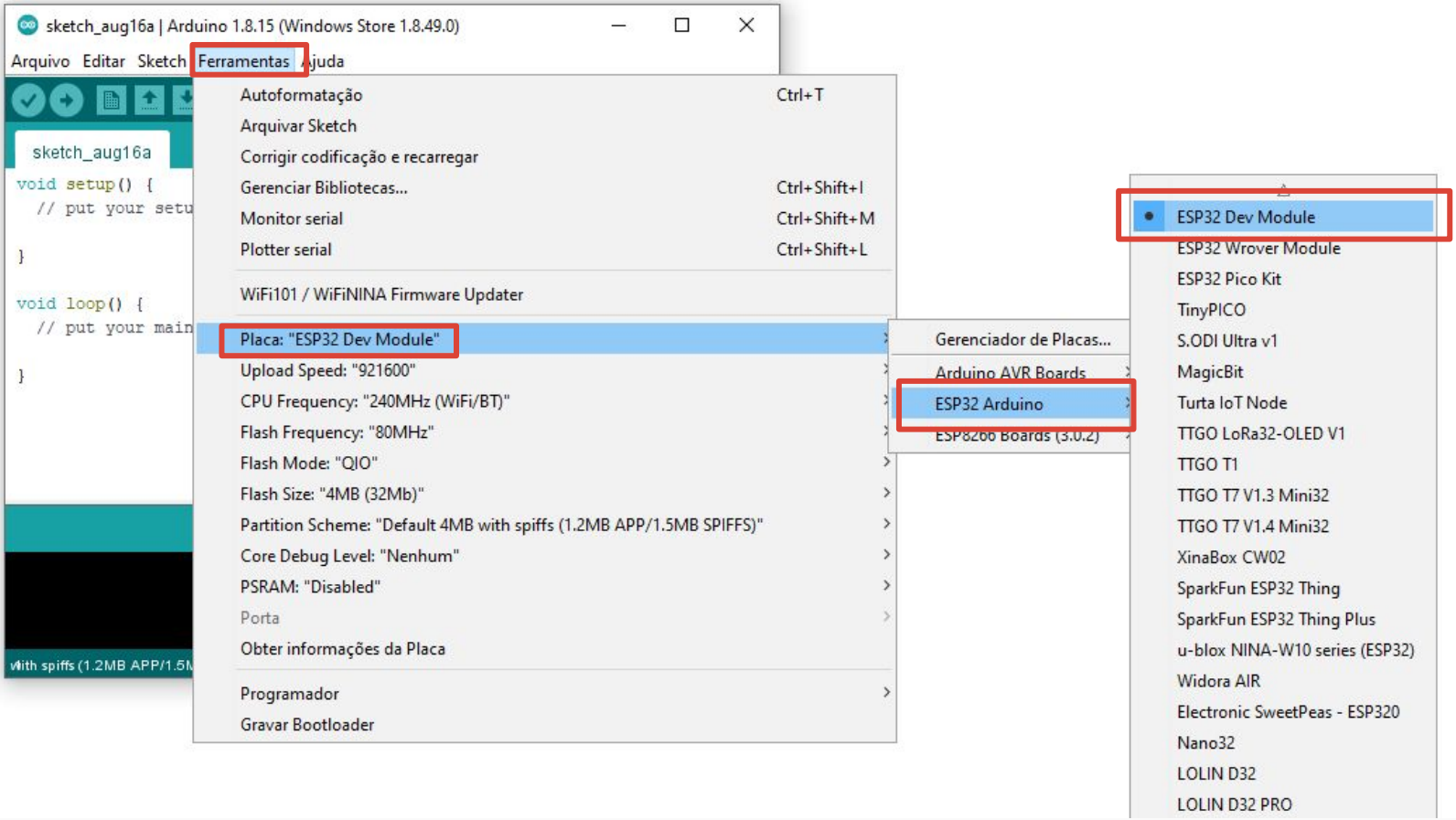


http://arduino.esp8266.com/stable/package_esp8266com_index.json

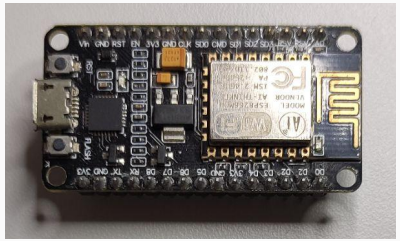
Opcional: Adicionando suporte ao ESP8266



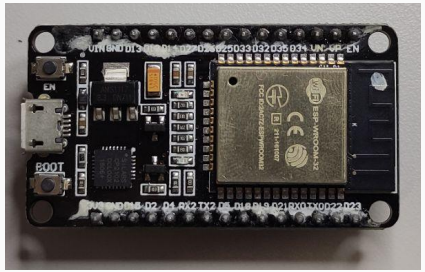
Adicionando suporte ao ESP32



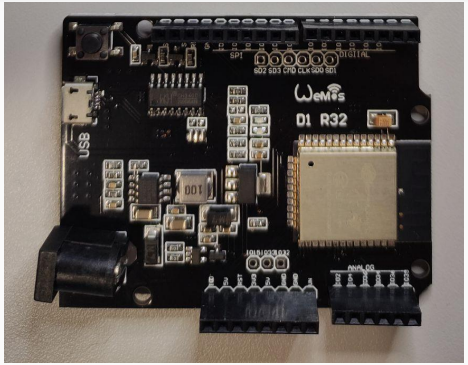
Drivers

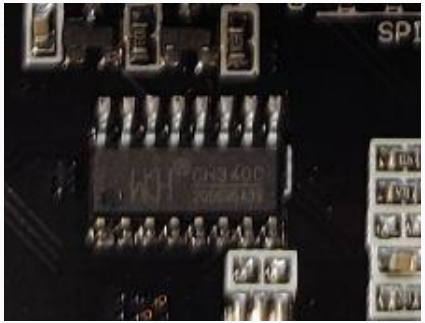


CP2102



CP2102





CH340

CP210x Drivers

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Niterói

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 (10)

Software • 10

CP210x Universal Windows Driver	v10.1.10 1/13/2021
CP210x VCP Mac OSX Driver	v6.0.1 3/31/2021
CP210x Windows Drivers	v6.7.6 9/3/2020
CP210x Windows Drivers with Serial Enumerator	v6.7.6 9/3/2020
CP210x_5x_AppNote_Archive	9/3/2020

Show 5 more Software

Legacy OS Software Versions

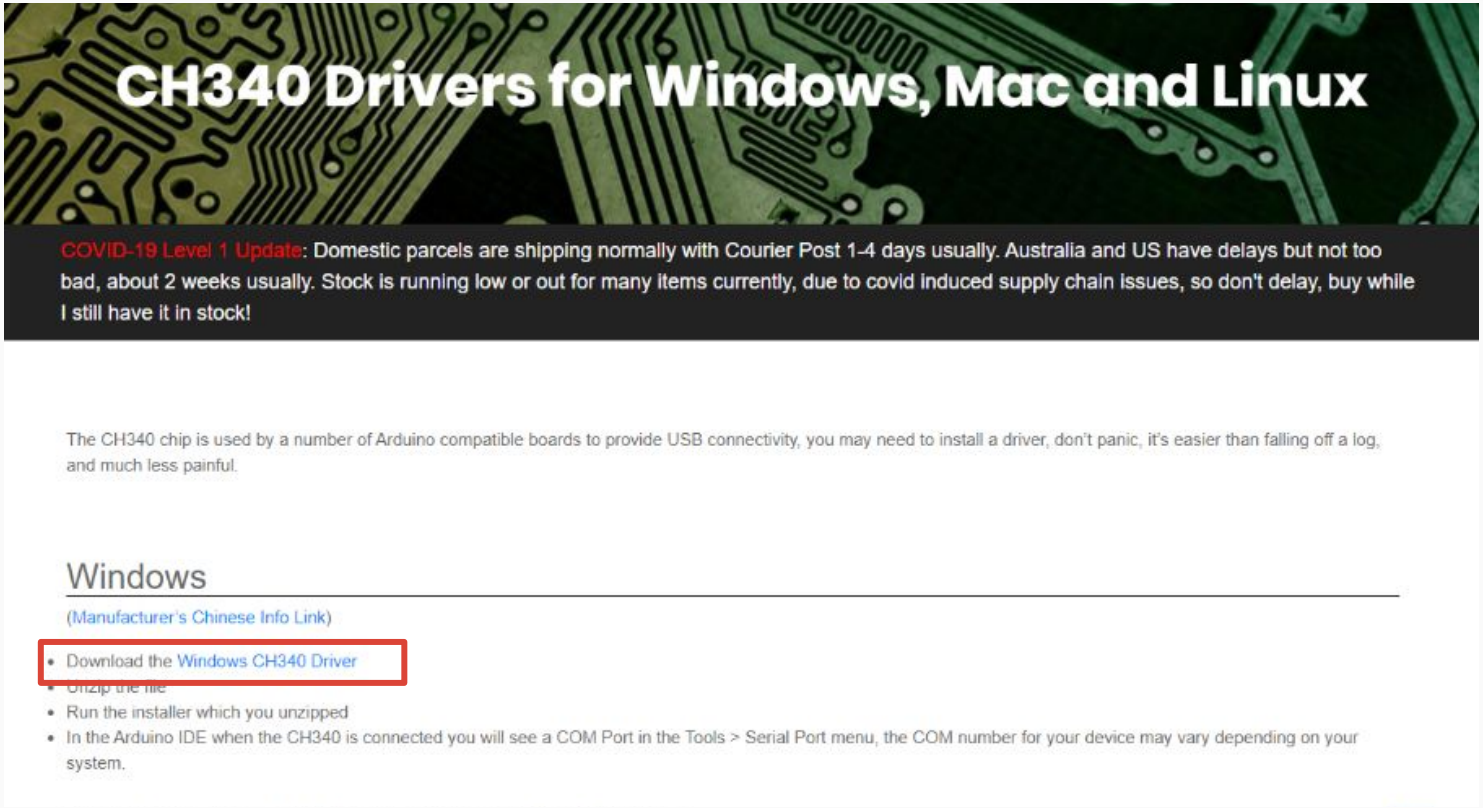
Driver Package download links and support information

Serial Enumeration Driver

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

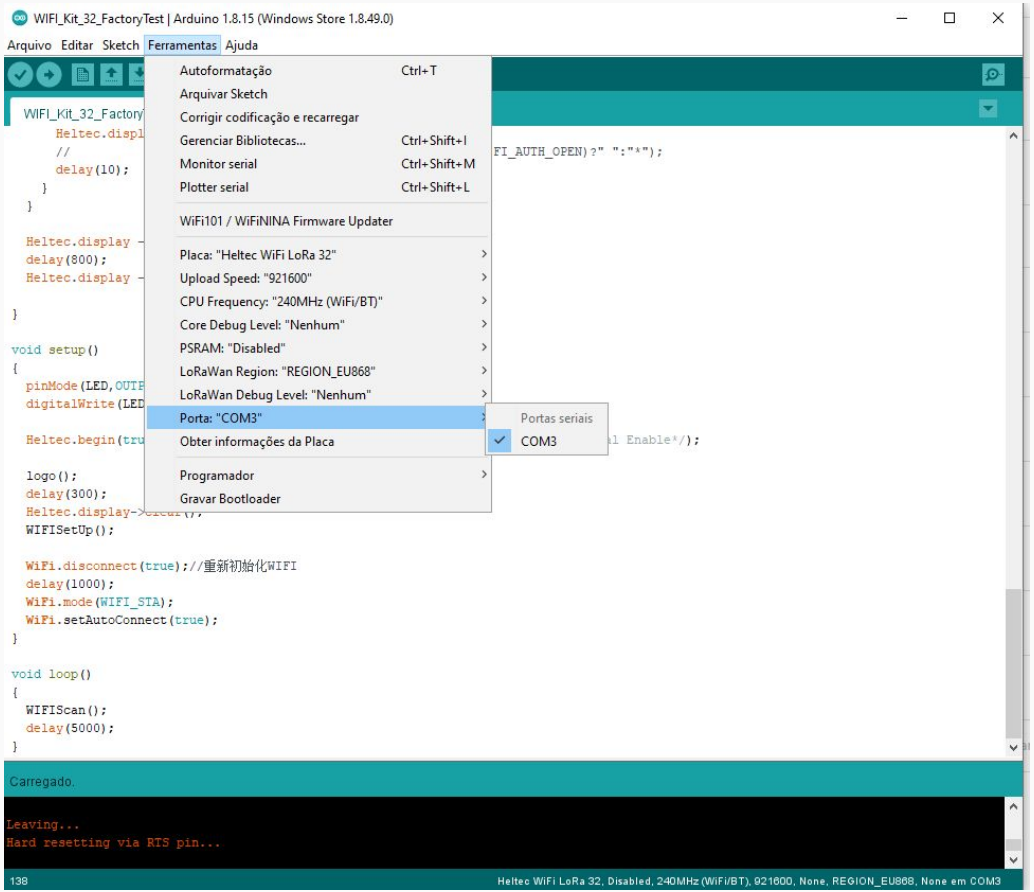
Feedback

https://www.silabs.com/developers/usb-to-uart-bridge-vcp-drivers



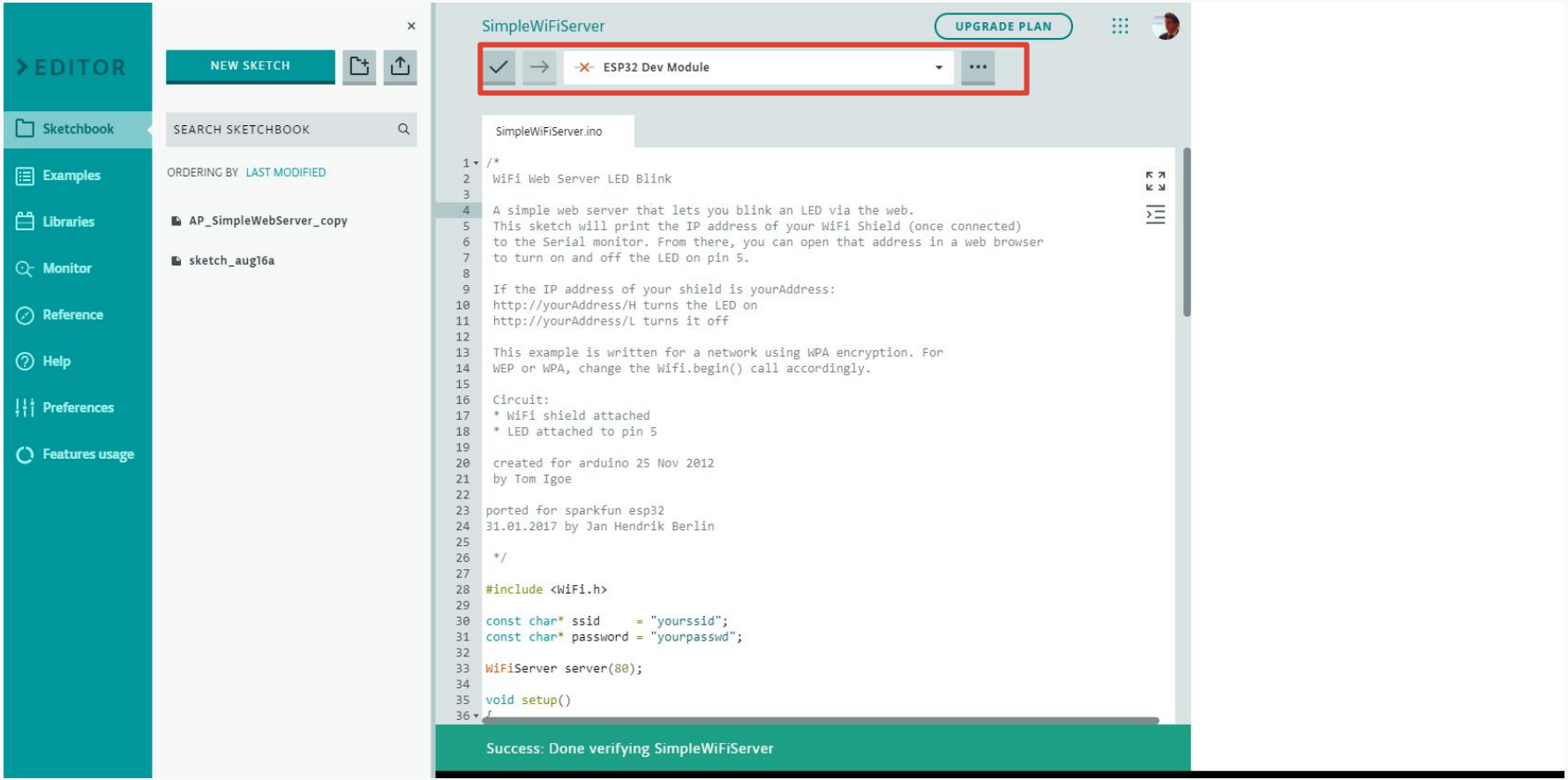
https://sparks.gogo.co.nz/ch340.html

Arduino IDE
+
URLs Adicionais para Gerenciadores de Placas
+
Adição do suporte à placa ESP32
+
Instalação do Driver

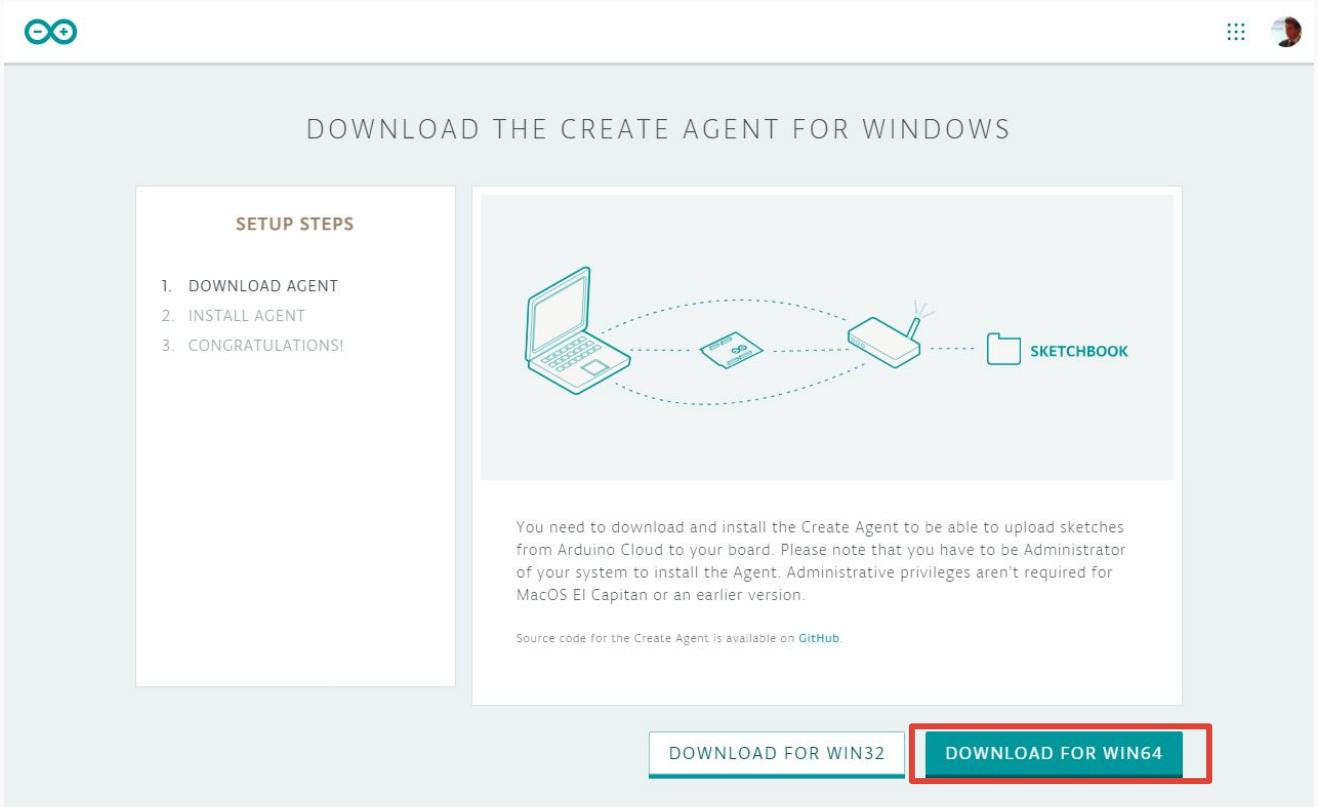


Opção 2: Arduino CREATE Web Editor

Opção 2: Arduino Web Editor



Opção 2: Instalando Agente do Arduino Web Editor



https://create.arduino.cc/getting-started/plugin/download

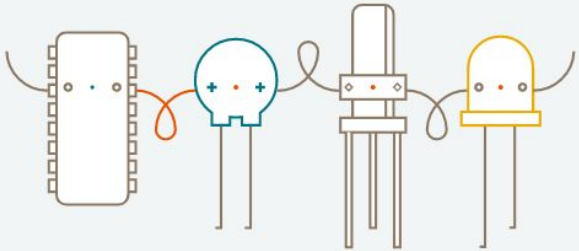
Opção 2: Instalando Agente do Arduino Web Editor

Opção 2: Instalando Agente do Arduino Web Editor

CONGRATULATIONS! YOU'RE ALL SET.

SETUP STEPS

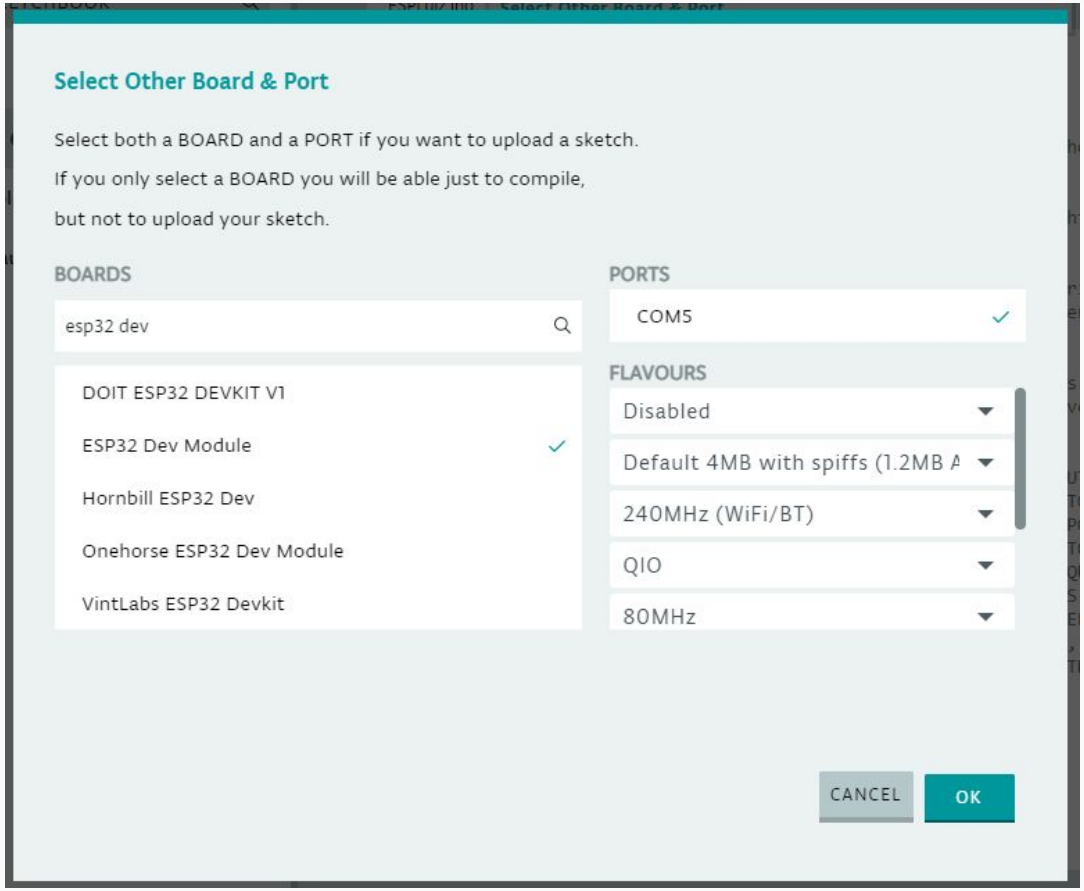
- ✓ DOWNLOAD AGENT
- ✓ INSTALL AGENT
3. CONGRATULATIONS!

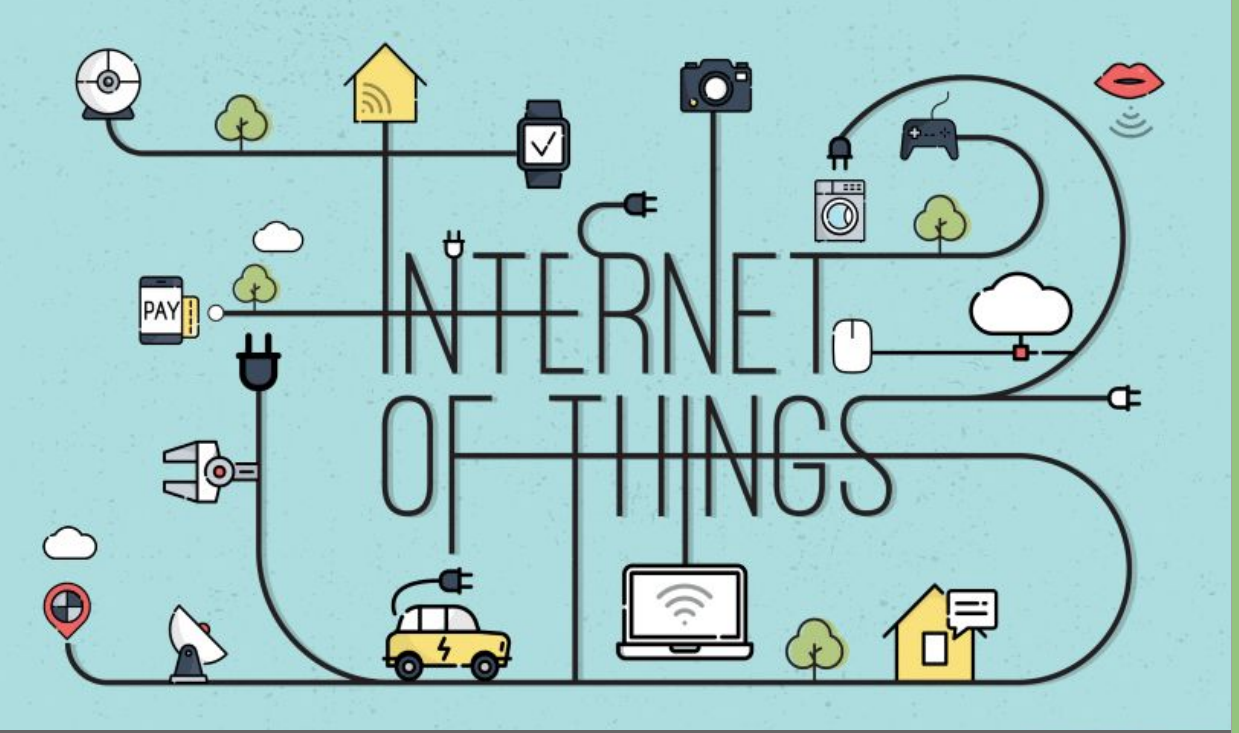


The Arduino Create Agent has been installed correctly and it's up and running! Go the the Web Editor and try it out!

GO TO WEB EDITOR

Arduino Web Editor
+
Arduino CREATE Agent
+
Instalação do Driver





Dúvidas

ARDUINO™

Professor: Luiz Felipe Oliveira