Areej Almalki

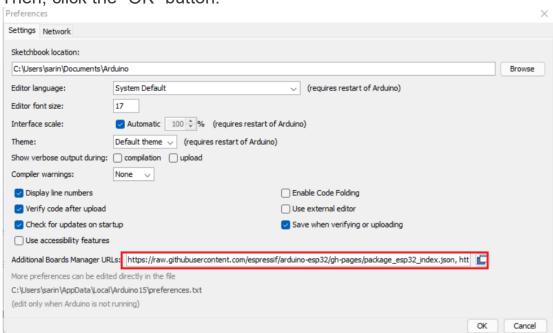
438005533

To install the ESP32 board in your Arduino IDE, follow these next instructions:

- 1- In your Arduino IDE, go to File> Preferences
- 2- Enter the following into the "Additional Board Manager URLs" field:

https://raw.githubusercontent.com/espressif/arduino
-esp32/gh-pages/package_esp32_index.json

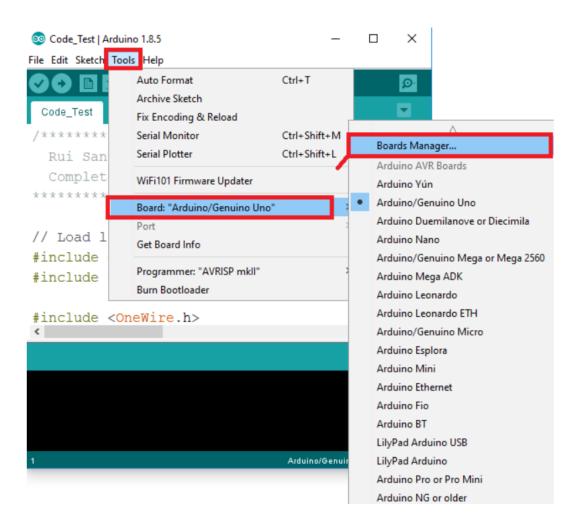
Then, click the "OK" button:



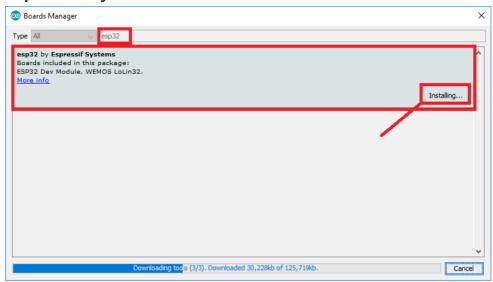
Note: if you already have the ESP8266 boards URL, you can separate the URLs with a comma as follows:

https://raw.githubusercontent.com/espressif/arduinoesp32/gh-pages/package_esp32_index.json, http://arduino.esp8266.com/stable/package_esp8266com_in_ dex.json

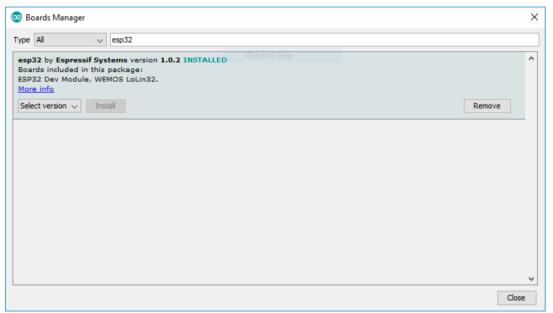
3 - Open the Boards Manager. Go to **Tools** > **Board** > **Boards Manager...**



4- Search for **ESP32** and press install button for the "**ESP32 by Espressif Systems**

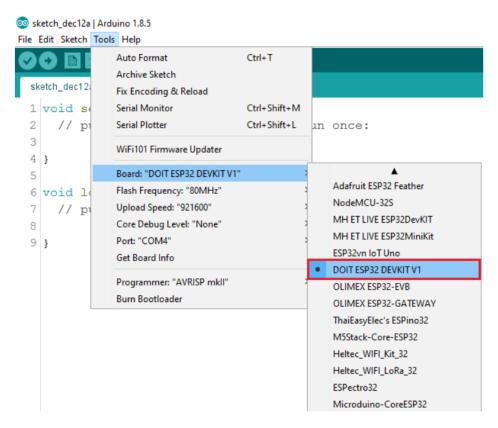


5- That's it. It should be installed after a few seconds.

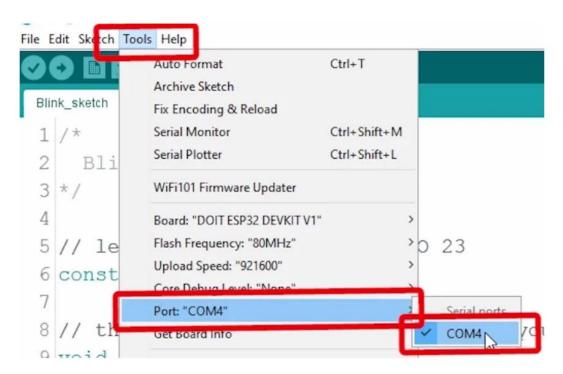


Plug the ESP32 board to your computer. With your Arduino IDE open, follow these steps:

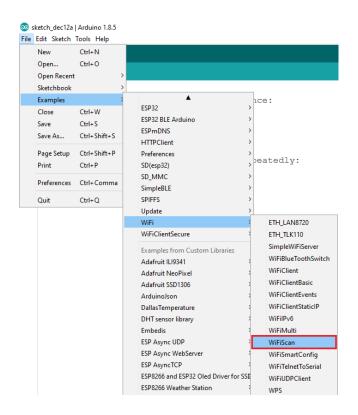
1- Select your Board in Tools > Board menu (in my case it's the DOIT ESP32 DEVKIT V1)



2- Select the Port (if you don't see the COM Port in your Arduino IDE, you need to install the CP210x USB to UART Bridge VCP Drivers):



3- Open the following example under File > Examples > WiFi (ESP32) > WiFiScan



4- A new sketch opens in your Arduino IDE:

```
×
File Edit Sketch Tools Help
 WiFiScan
 1 /*
      This sketch demonstrates how to scan WiFi networks.
 3
      The API is almost the same as with the WiFi Shield library,
 4 *
      the most obvious difference being the different file you need to include:
 5 */
 6 #include "WiFi.h"
 8 void setup()
9 {
10
      Serial.begin(115200);
11
      // Set WiFi to station mode and disconnect from an AP if it was previousl
12
13
      WiFi.mode(WIFI_STA);
14
      WiFi.disconnect();
      delay(100);
1.5
16
17
       Serial.println("Setup done");
18 }
19
20 void loop()
```

5- Press the **Upload** button in the Arduino IDE. Wait a few seconds while the code compiles and uploads to your board



6- If everything went as expected, you should see a "**Done** uploading." Message

```
Done uploading

Writing at 0x00050000... (89 %)

Writing at 0x00054000... (94 %)

Writing at 0x00058000... (100 %)

Wrote 481440 bytes (299651 compressed) at 0x00010000 in 4.7 secon

Hash of data verified.

Compressed 3072 bytes to 122...

Writing at 0x00008000... (100 %)

Wrote 3072 bytes (122 compressed) at 0x00008000 in 0.0 seconds (e

Hash of data verified.

Leaving...

Hard resetting...
```

7- Open the Arduino IDE Serial Monitor at a baud rate of 115200



8- Press the ESP32 on-board **Enable** button and you should see the networks available near your ESP32:

