

Install and Configure Arduino Software for Windows

Step 1 – Install the driver

- Click this instant URL to download directly from here:
 - For Windows 7/8: https://www.silabs.com/documents/public/software/CP210x_Windows_Drivers.zip
 - For Windows 10: https://www.silabs.com/documents/public/software/CP210x_Universal_Windows_Driver.zip

For your information, [click here](#) for the website that contains the above download link.

- The file is normally located in your Downloads directory. Right click on the CP210x Universal Windows Driver.zip [Figure 1], then click Extract All and extract it on your machine.

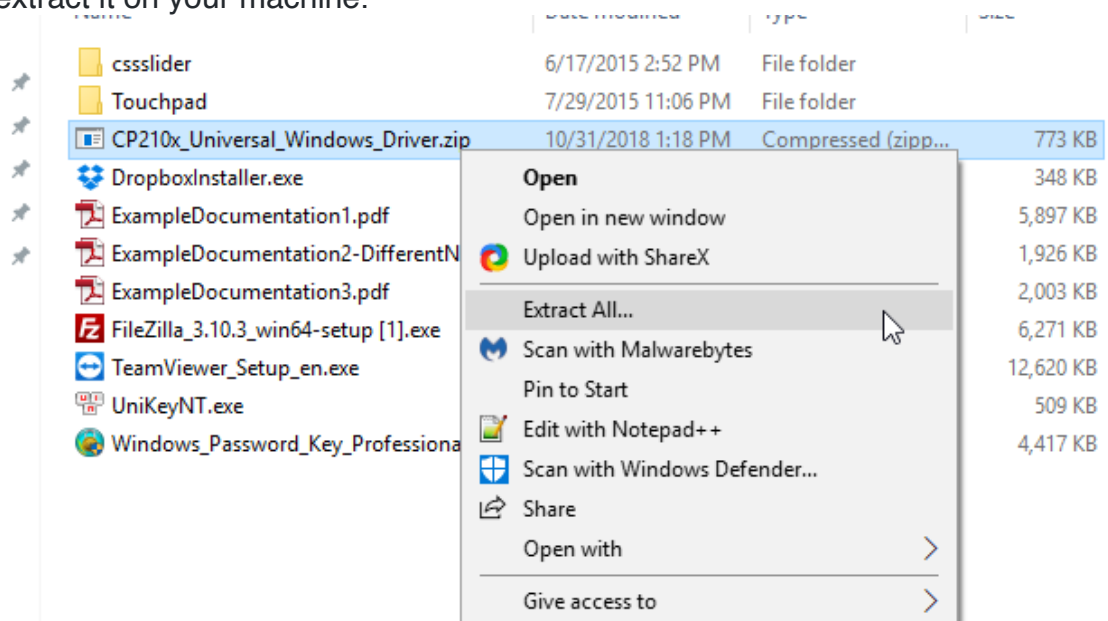


Figure 1

- Once you have extracted the zip file, a directory will popup on your screen [Figure 2]. Double click on the CP210xVCPInstaller_x64.exe. In case, If Windows ask for permission, click “Allow”, “Install” or “Yes”.

arm	10/31/2018 1:20 PM	File folder	
x64	10/31/2018 1:20 PM	File folder	
x86	10/31/2018 1:20 PM	File folder	
CP210x_Universal_Windows_Driver_Korea...	10/31/2018 1:20 PM	Text Document	18 KB
CP210xVCPInstaller_x64.exe	10/31/2018 1:20 PM	Application	1,026 KB
CP210xVCPInstaller_x86.exe	10/31/2018 1:20 PM	Application	992 KB
dpinst.xml	10/31/2018 1:20 PM	XML File	12 KB
silabser.cat	10/31/2018 1:20 PM	Security Catalog	12 KB
silabser.inf	10/31/2018 1:20 PM	Setup Information	10 KB
SLAB_License_Agreement_VCP_Windows...	10/31/2018 1:20 PM	Text Document	9 KB

Figure 2

Step 2— Download and install the Arduino software

- Visit <https://www.arduino.cc/en/Main/Software> and download the Windows version of the Arduino software installer. Install the Windows version [Figure 3]



Figure 3

- Install the software per the instructions at <https://www.arduino.cc/en/Guide/Windows>. Skip the last section of the installation instructions, i.e. the “Proceed with board specific instructions” portion.

Step 3— Configure the Arduino Software

- Add the necessary libraries (libraries are like “drivers”) to let the Arduino software know how to communicate with the ESP32 microcontroller and components we will be using.
- To add support for the ESP32 microcontroller, click on Arduino -> Preferences [Figure 4]

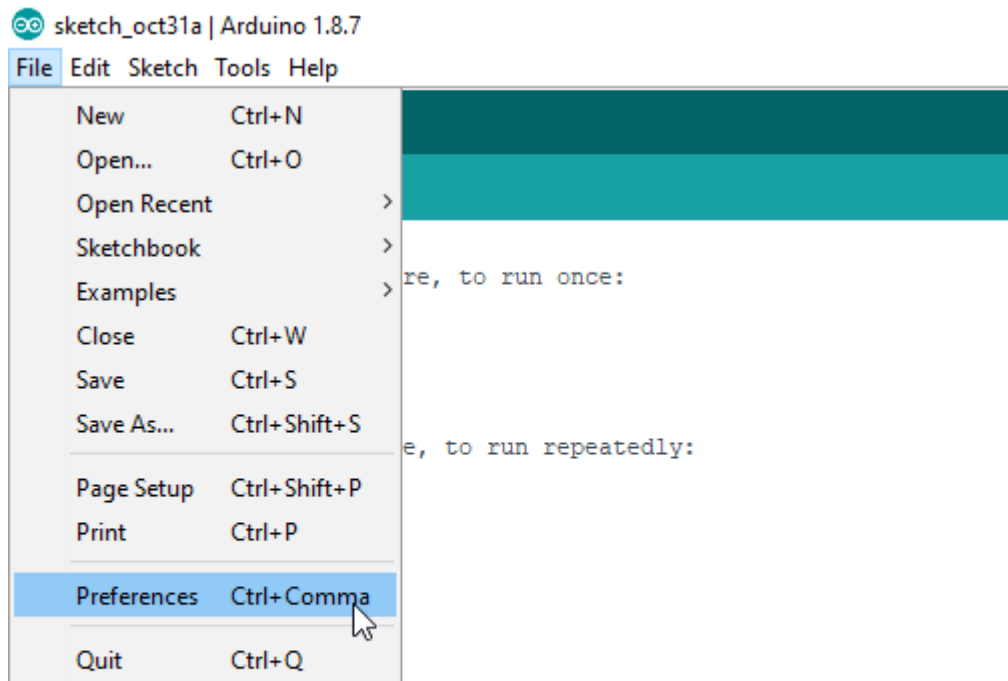


Figure 4

- Paste https://dl.espressif.com/dl/package_esp32_index.json into the blank space next to “Additional Boards Manager URLs:” then click “OK” to return to the main Arduino software windows [Figure 5].

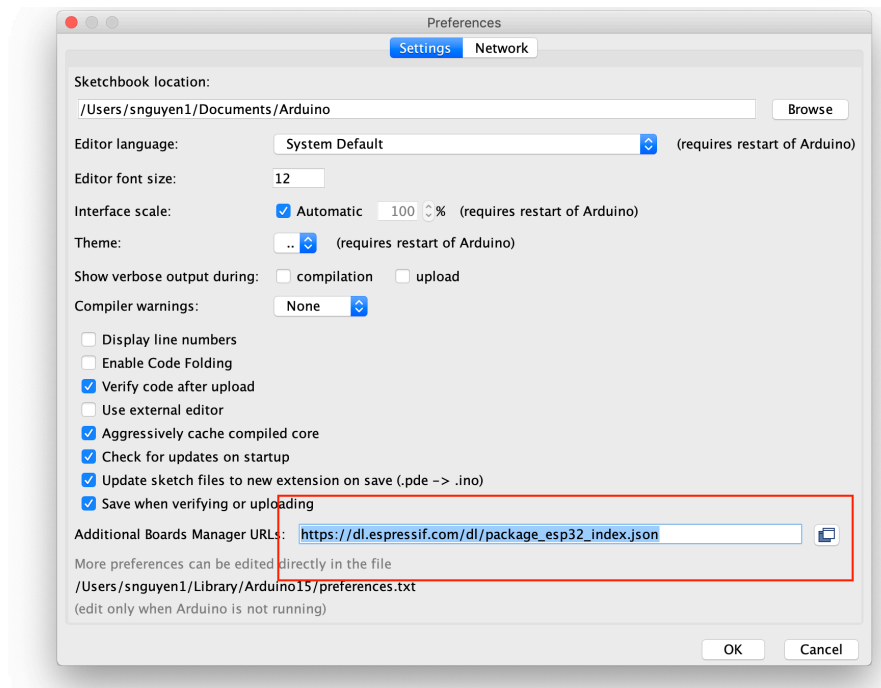


Figure 5

- Click on **Tools** -> **Board: “Arduino/Genuino Uno”** -> **Boards Manager...** [Figure 6]

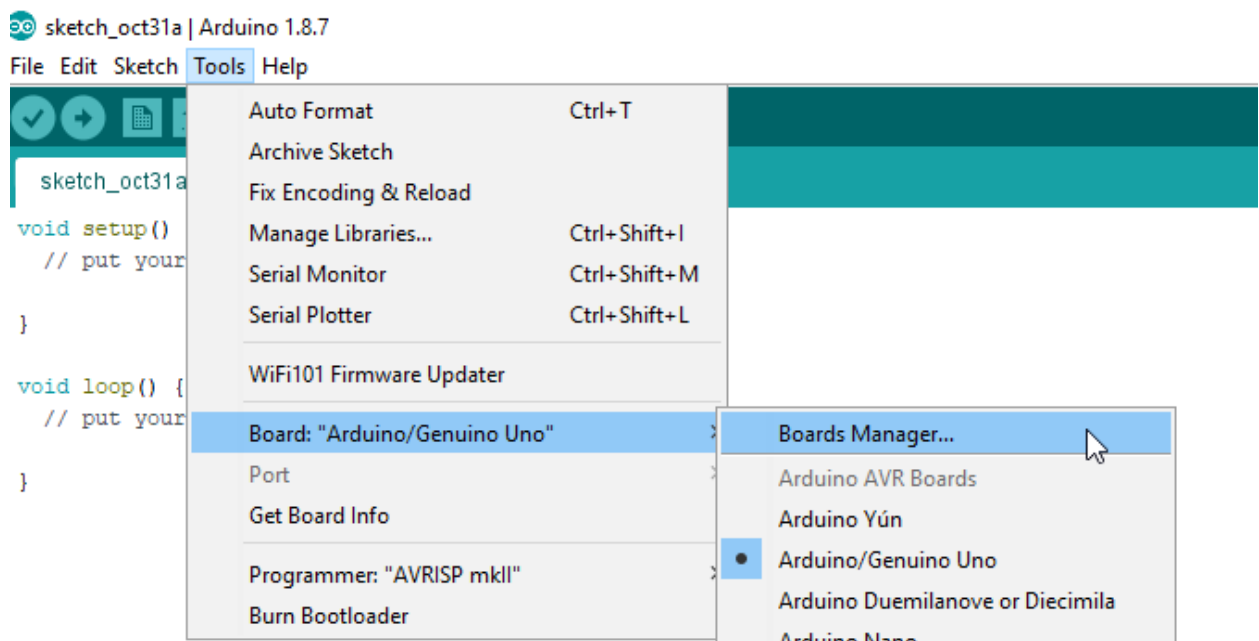


Figure 6

- Type **esp32** into the filter at the top of the Boards Manager dialog, and you should see an “esp32 by Espressif Systems” option appear. Click on its “Install” button, and let the process run to completion. This will take several minutes to finish. Click the "Close" button once the install is completed. [Figure 7]

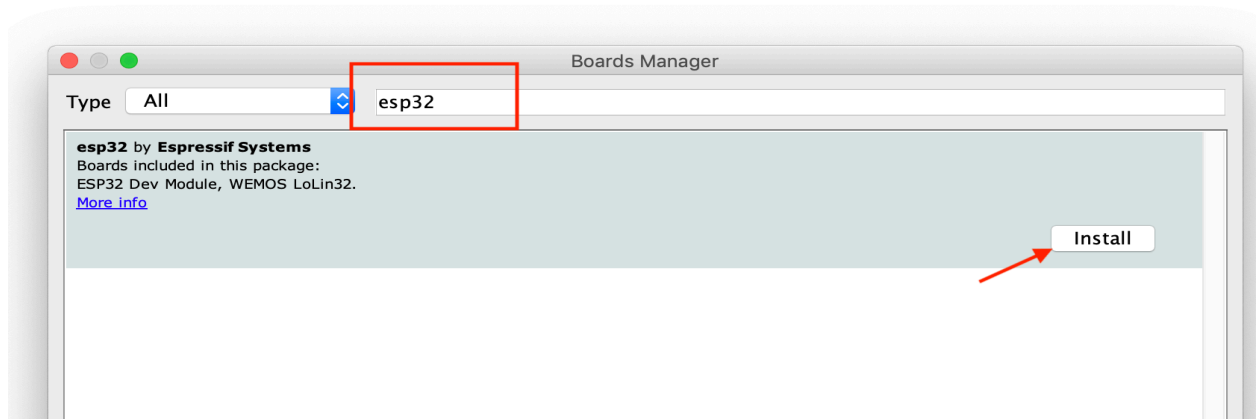


Figure 7

- To add support for the various components we will be using, click on Tools -> Manage Libraries... [Figure 8 (step 1)]

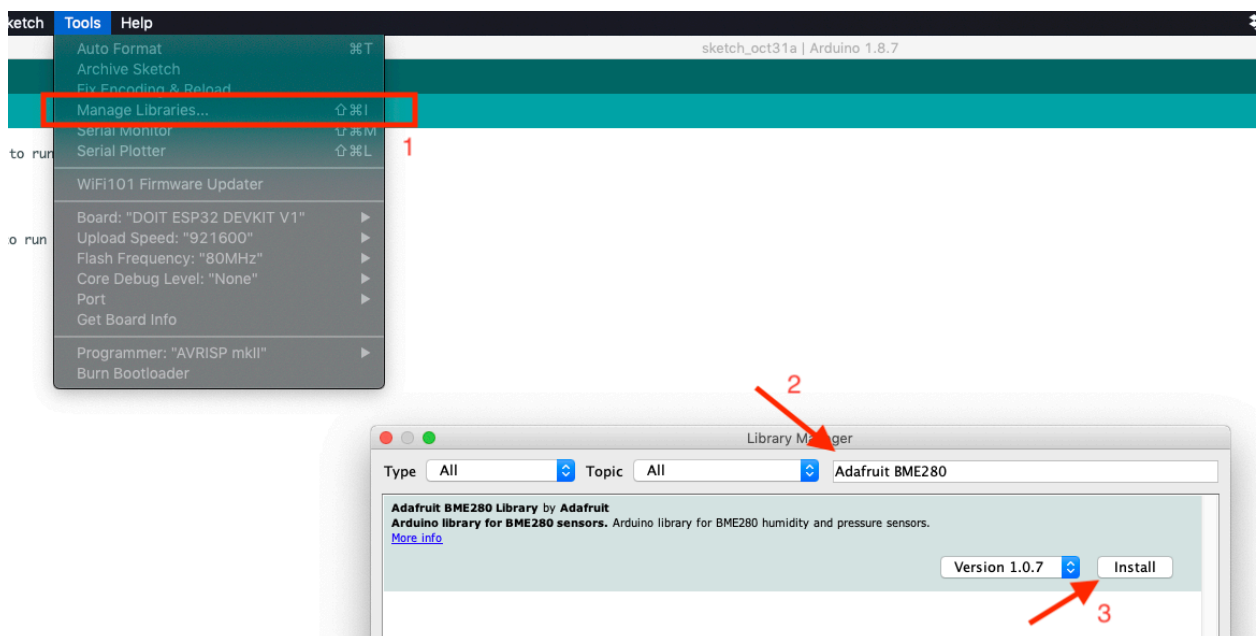


Figure 8

- Type **Adafruit BME280** into the filter at the top of the Library Manager dialog, click on the only (or first) item in the list [Figure 8 (Step 2,3)].
- On the same Library Manager window, Install **Adafruit SSD1306 by Adafruit** [Figure 9].

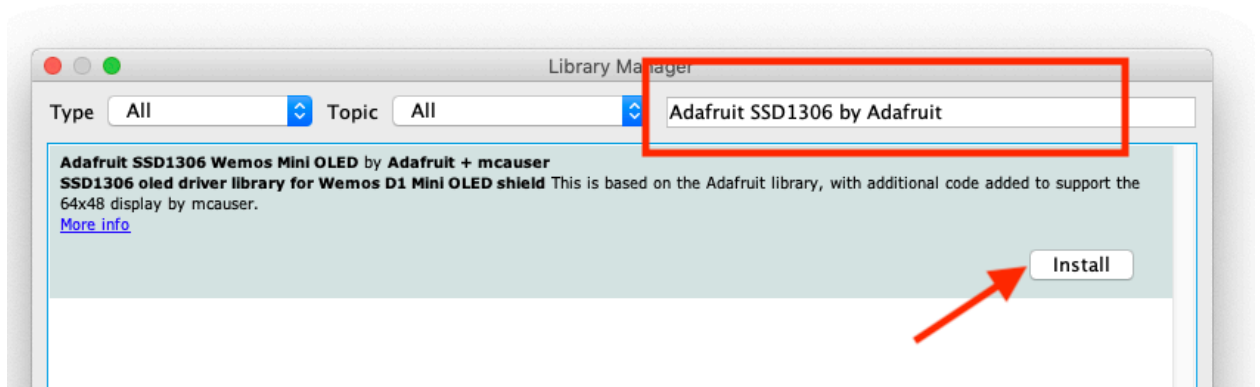


Figure 9

- Same thing, install **Adafruit Unified Sensor by Adafruit** library [Figure 10].

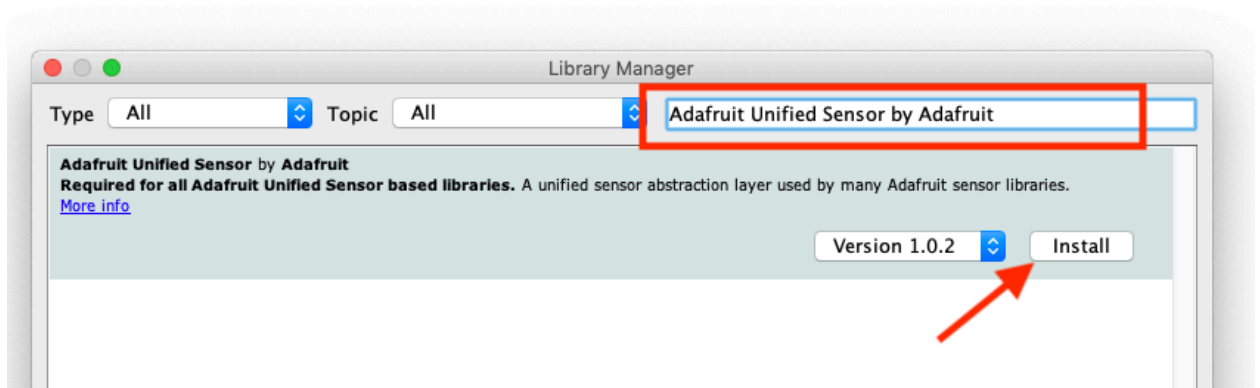


Figure 10

- Again, typing **rtclib** in the filter box, find & install **RTCLib by Adafruit** library [Figure 11].

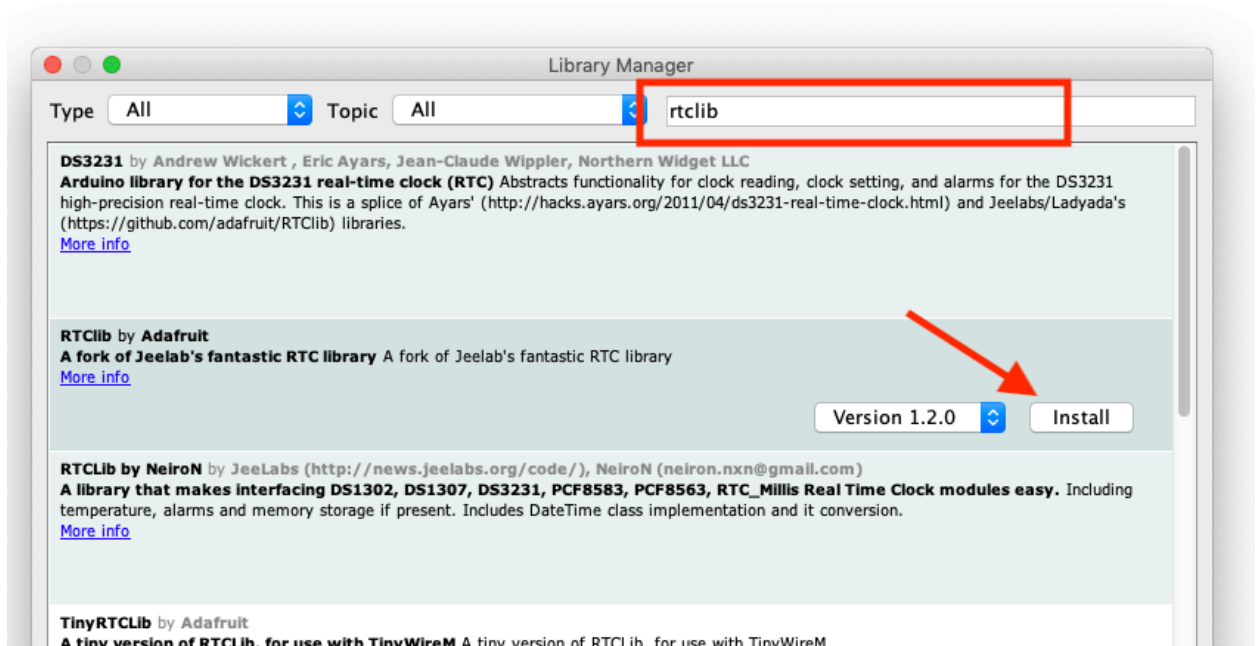


Figure 11

- Click the “Close” button to return to the main Arduino software window.

Congratulations!!!!

You just finished the most difficult part. Give yourself a cookie!!! 😊