Documentation for Installing ESP8266 Arduino Core

Prerequisites

- Arduino 1.6.5 or higher, get it from Arduino website.
- Internet connection

Instructions

1. Start Arduino and open Preferences window.
2. Enter http://arduino.esp8266.com/stable/package_esp8266com_index.json into Additional Board Manager URLs field. You can add multiple URLs, separating them with commas.
3. Open Boards Manager from Tools > Board menu and find esp8266 platform.
4. Select the version you need from a drop-down box.
5. Click install button.
6. Don't forget to select your ESP8266 board from Tools > Board menu after installation.

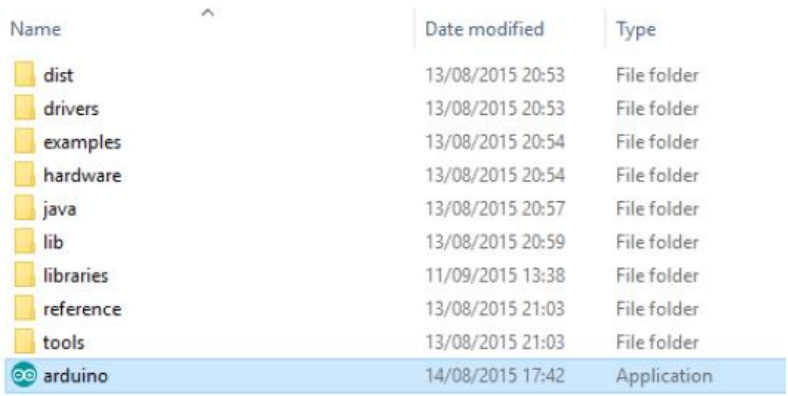
Downloading & Installing the Arduino IDE

URL: https://www.arduino.cc/en/Main/Software.
Then select your operating system and download the latest software release of the Arduino IDE. Use the .exe file to install the IDE on your system.

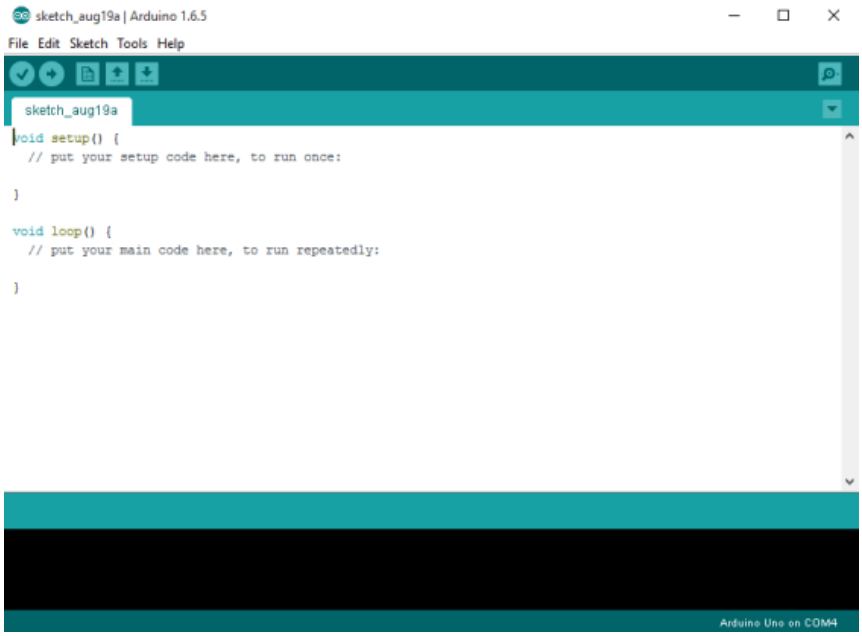
For Non-Admin systems, download the .zip file.

Opening the Arduino IDE

Open the installed software or the extracted .zip file. Double click on “arduino”.



When the Arduino IDE first opens, this is what you should see:

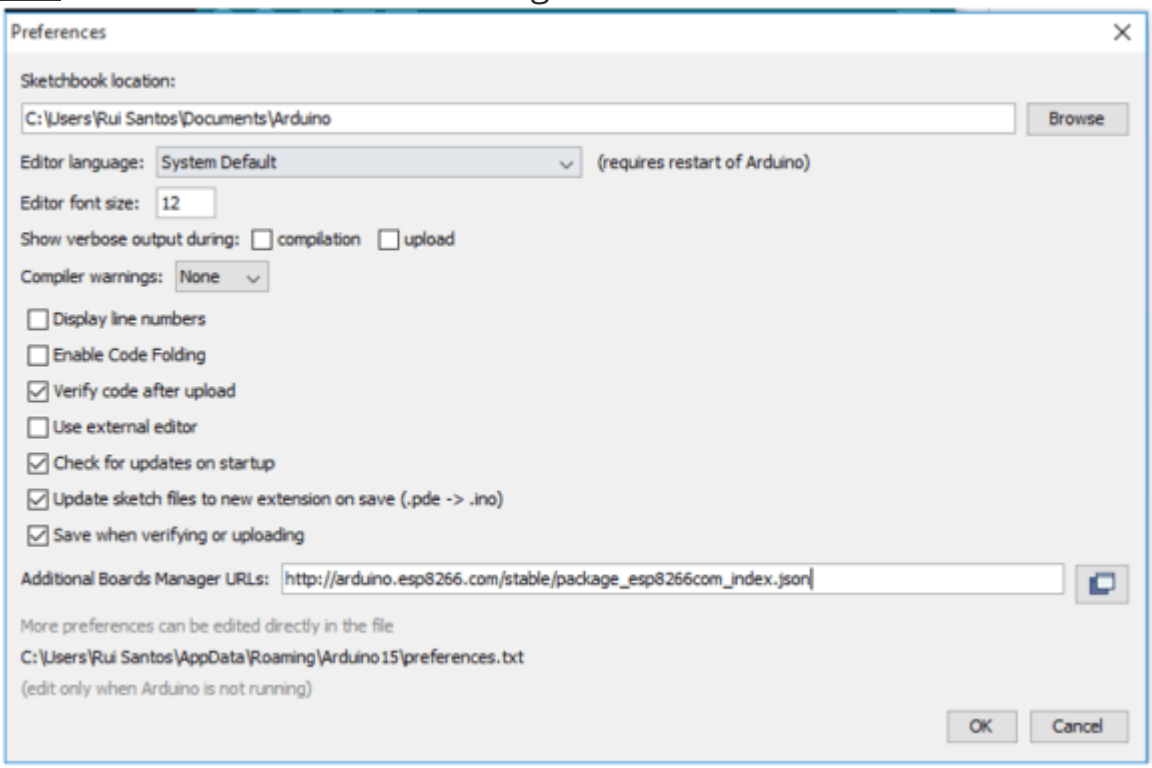


Installing the ESP8266 Board

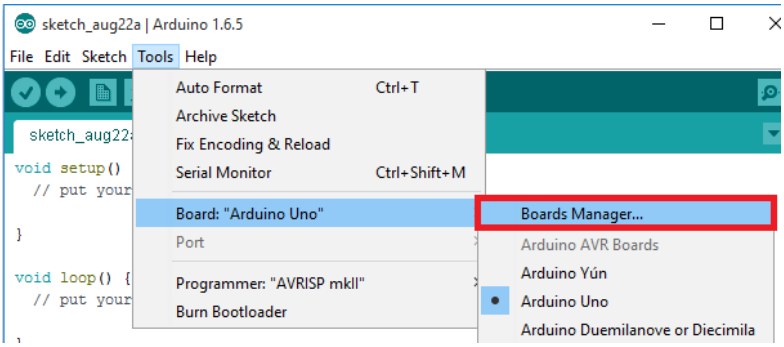
To install the ESP8266 board in your Arduino IDE, follow these next instructions:

1) Open the preferences window from the Arduino IDE. Go to File > Preferences

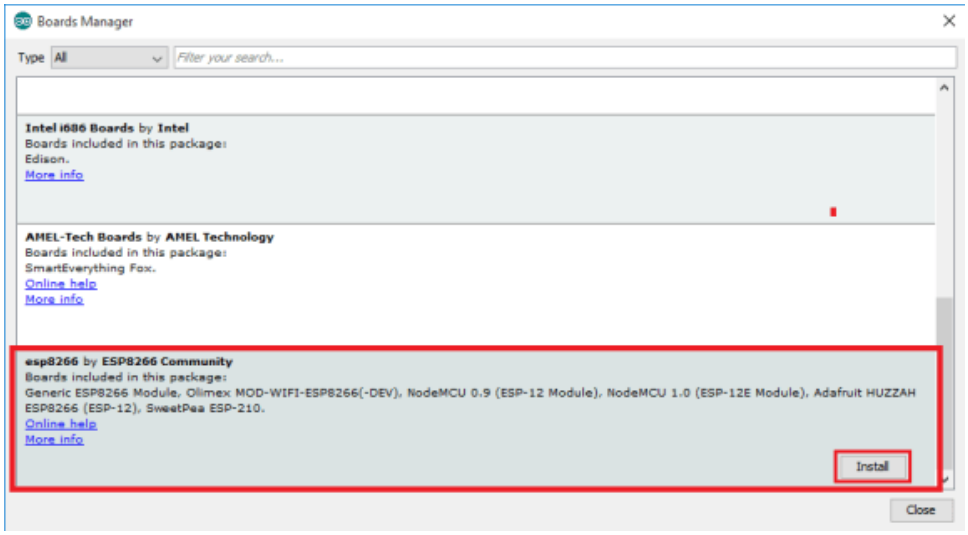
2)
Enter http://arduino.esp8266.com/stable/package_esp8266com_index.json into Additional Board Manager URLs field and click the “OK” button



3) Open boards manager. Go to Tools > Board > Boards Manager...

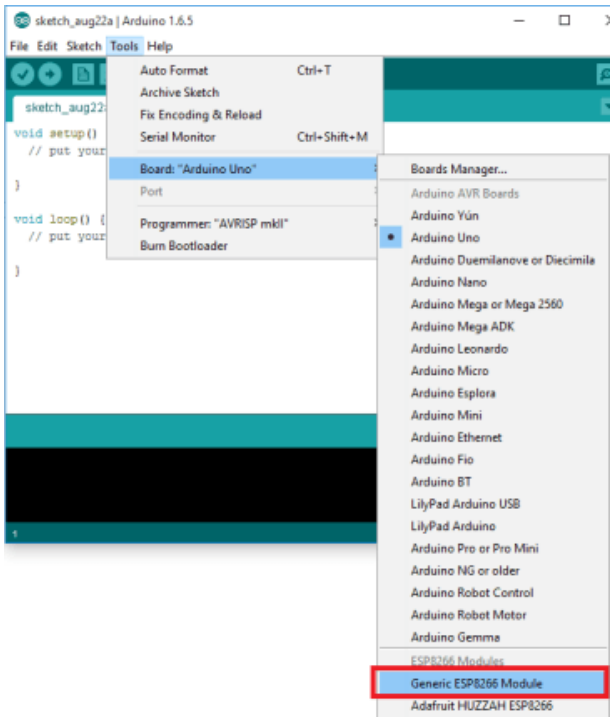


4) In the search bar, type ESP8266. Scroll down, select the ESP8266 board menu and install “esp8266 platform”



The files will be downloaded and installed automatically. This process will take some time. Once download is complete, close the window.

5) Choose your ESP8266 board from Tools > Board > NodeMCU V1.0



Testing the Installation

To test the ESP8266 add-on installation, let’s see if we can blink an LED with the ESP8266 using the Arduino programming language.