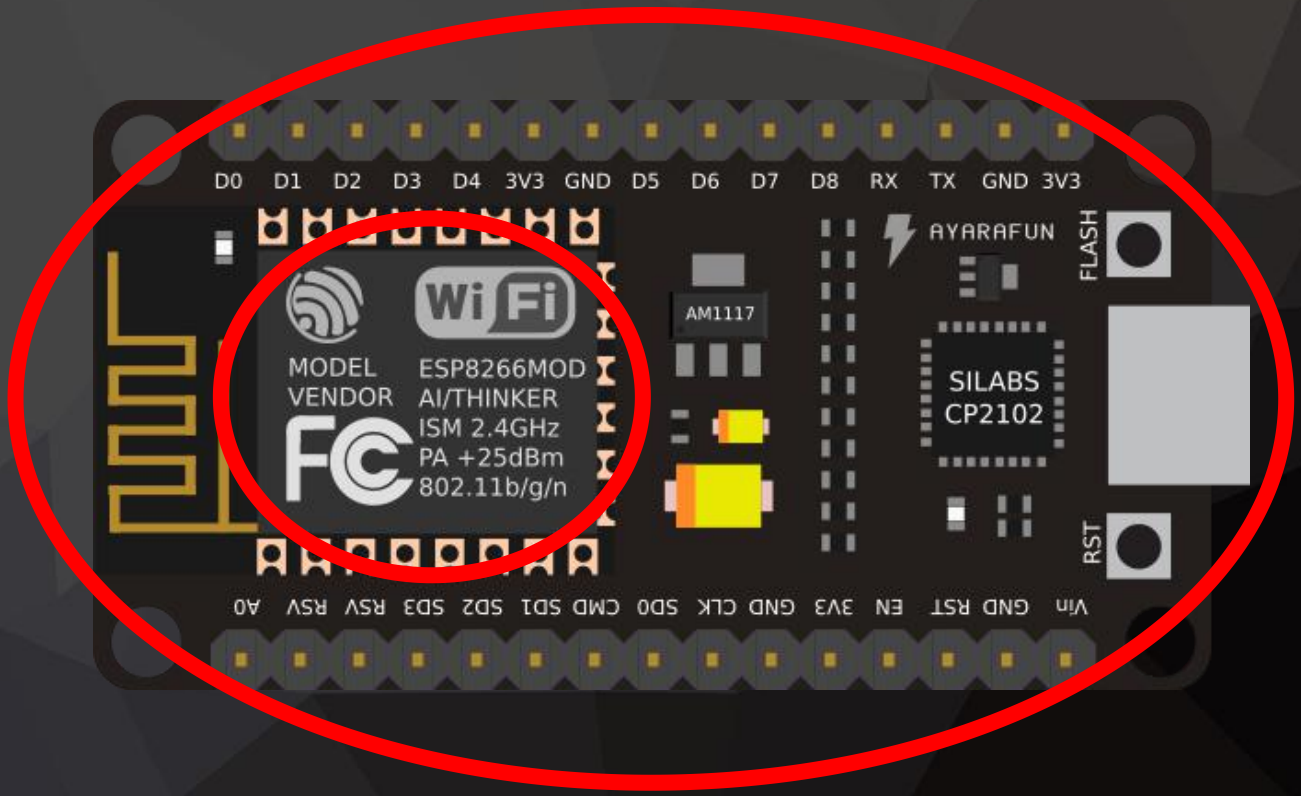
# NodeMCU

และคณะ

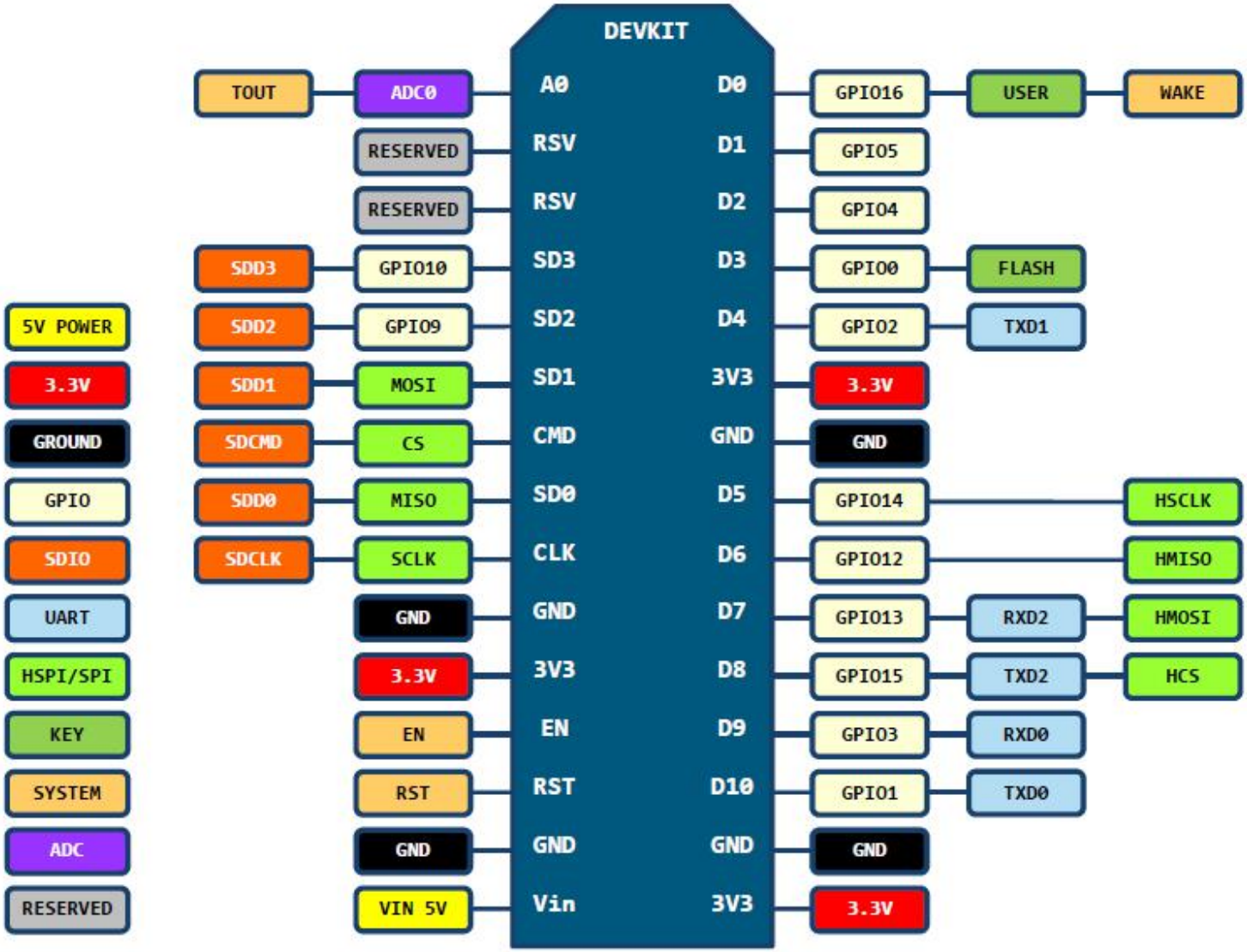
# What?


D0 D1 D2 D3 D4 3V3 GND D5 D6 D7 D8 RX TX GND 3V3
AYARAFUN
FLASH
AM1117
MODEL ESP8266MOD
VENDOR AI/THINKER
ISM 2.4GHz
PA +25dBm
802.11b/g/n
SILABS
CP2102
RST
A0 RSV RSV SD3 SD2 SD1 CMD SD0 CLK GND 3V3 EN RST GND Vin

# What?

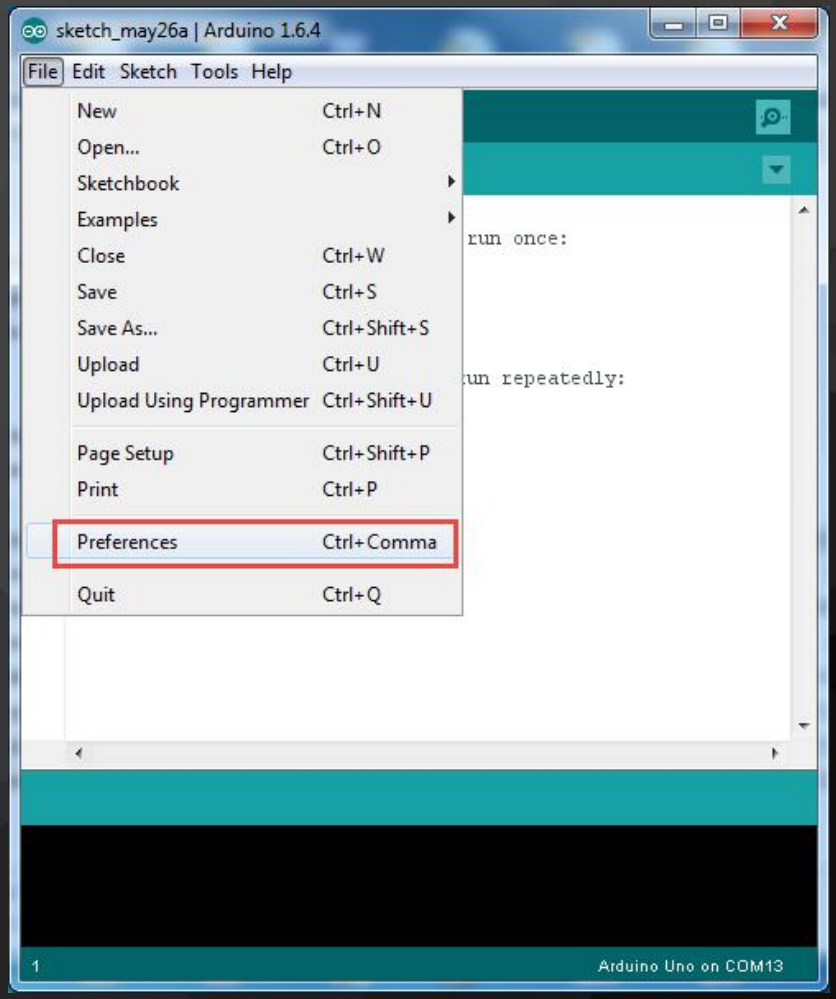

NodeMCU Development Kit V1.0
รหัสสินค้า: EFDV435
คะแนนโหวต: ยังไม่มีการโหวตให้คะแนน
490.00 บาท
1
In stock 65
หยิบใส่ตะกร้า

# PIN DEFINITION

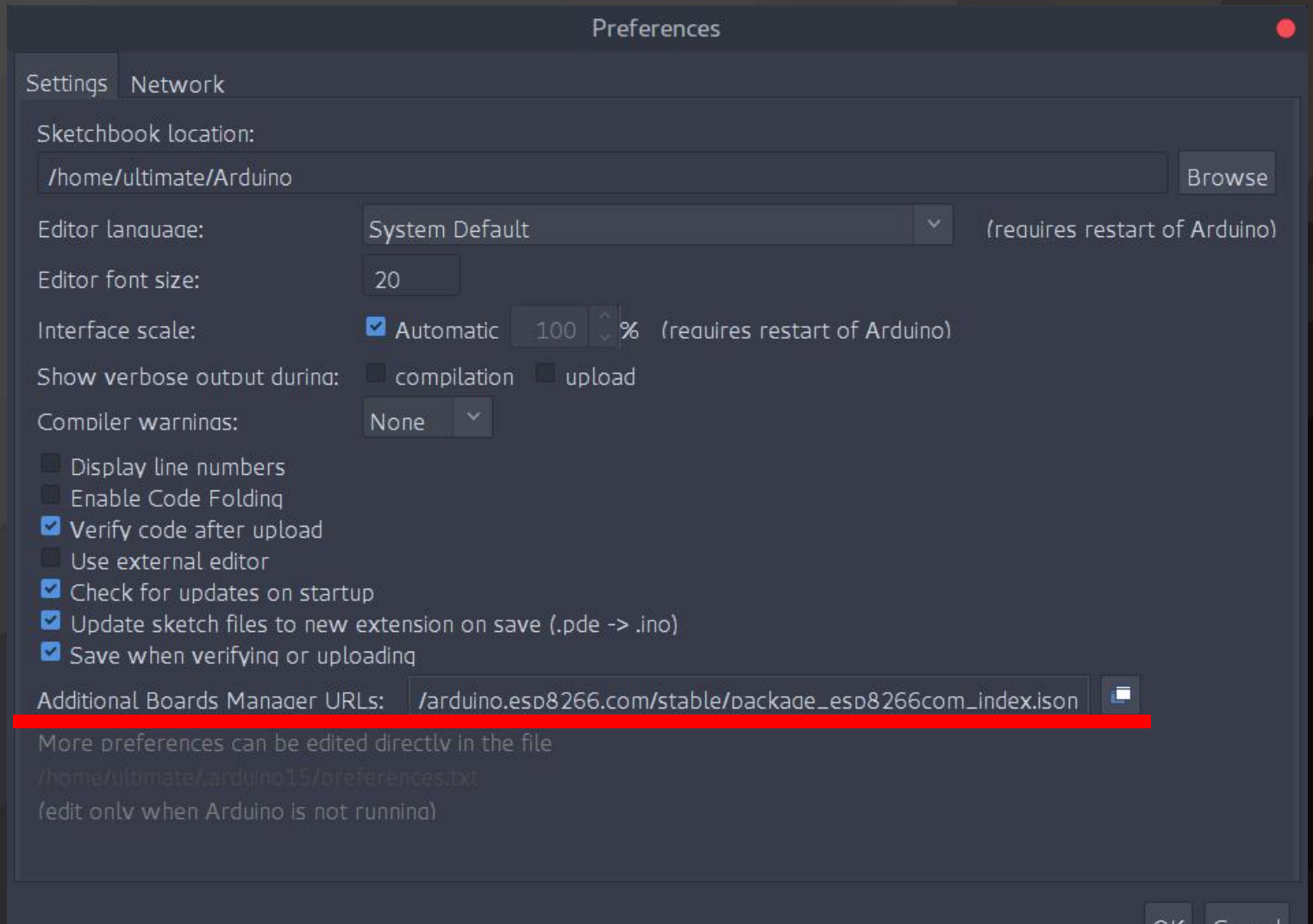



*D0(GPIO16) can only be used as gpio read/write, no interrupt supported, no pwm/i2c/ow supported.*

# Setup


sketch_may26a | Arduino 1.6.4
File Edit Sketch Tools Help
New Ctrl+N
Open... Ctrl+O
Sketchbook
Examples
Close Ctrl+W
Save Ctrl+S
Save As... Ctrl+Shift+S
Upload Ctrl+U
Upload Using Programmer Ctrl+Shift+U
Page Setup Ctrl+Shift+P
Print Ctrl+P
Preferences Ctrl+Comma
Quit Ctrl+Q
run once:
un repeatedly:
1
Arduino Uno on COM13

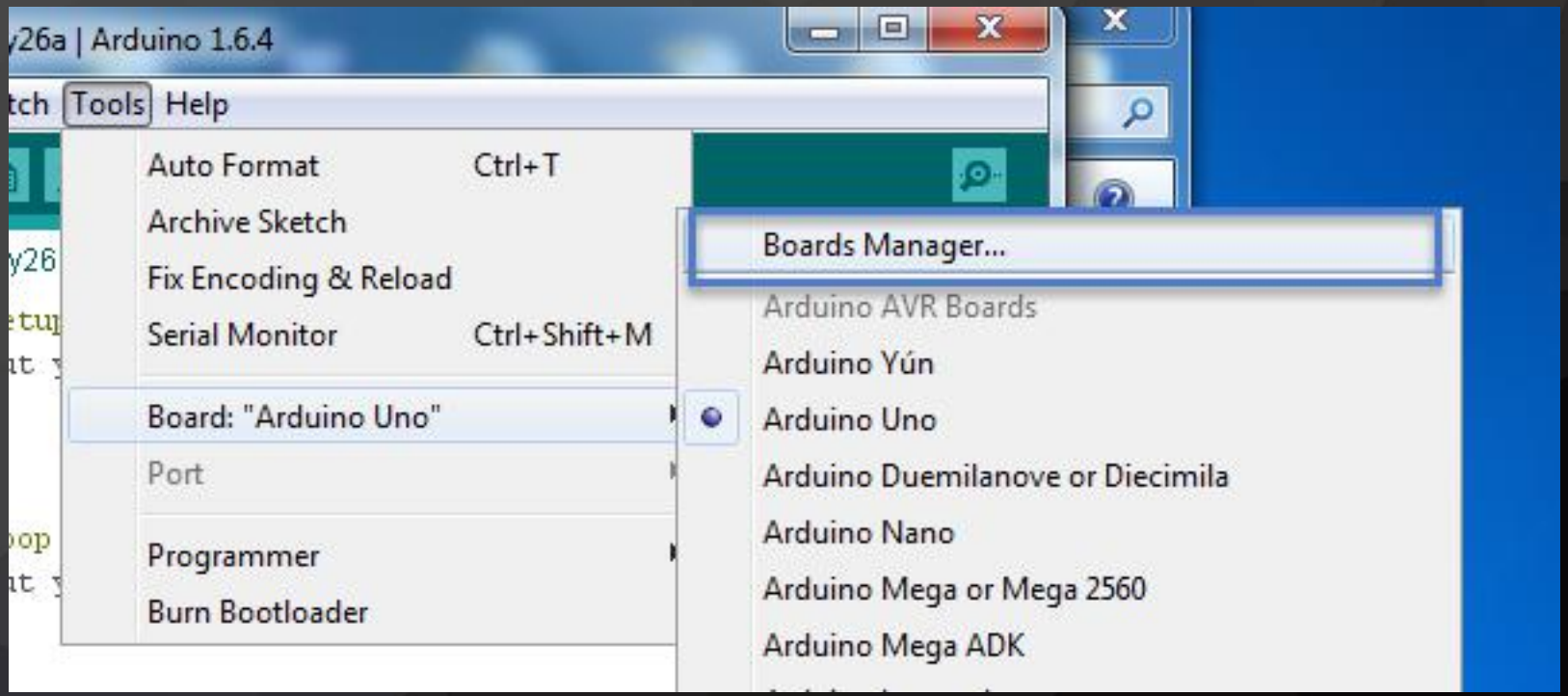
# Setup


Preferences
Settings
Network
Sketchbook location:
/home/ultimate/Arduino
Browse
Editor language:
System Default
(requires restart of Arduino)
Editor font size:
20
Interface scale:
Automatic
100
%
(requires restart of Arduino)
Show verbose output during:
compilation
upload
Compiler warnings:
None
Display line numbers
Enable Code Folding
Verify code after upload
Use external editor
Check for updates on startup
Update sketch files to new extension on save (.pde -> .ino)
Save when verifying or uploading
Additional Boards Manager URLs:
/arduino.esp8266.com/stable/package_esp8266com_index.json
More preferences can be edited directly in the file
/home/ultimate/.arduino15/preferences.txt
(edit only when Arduino is not running)

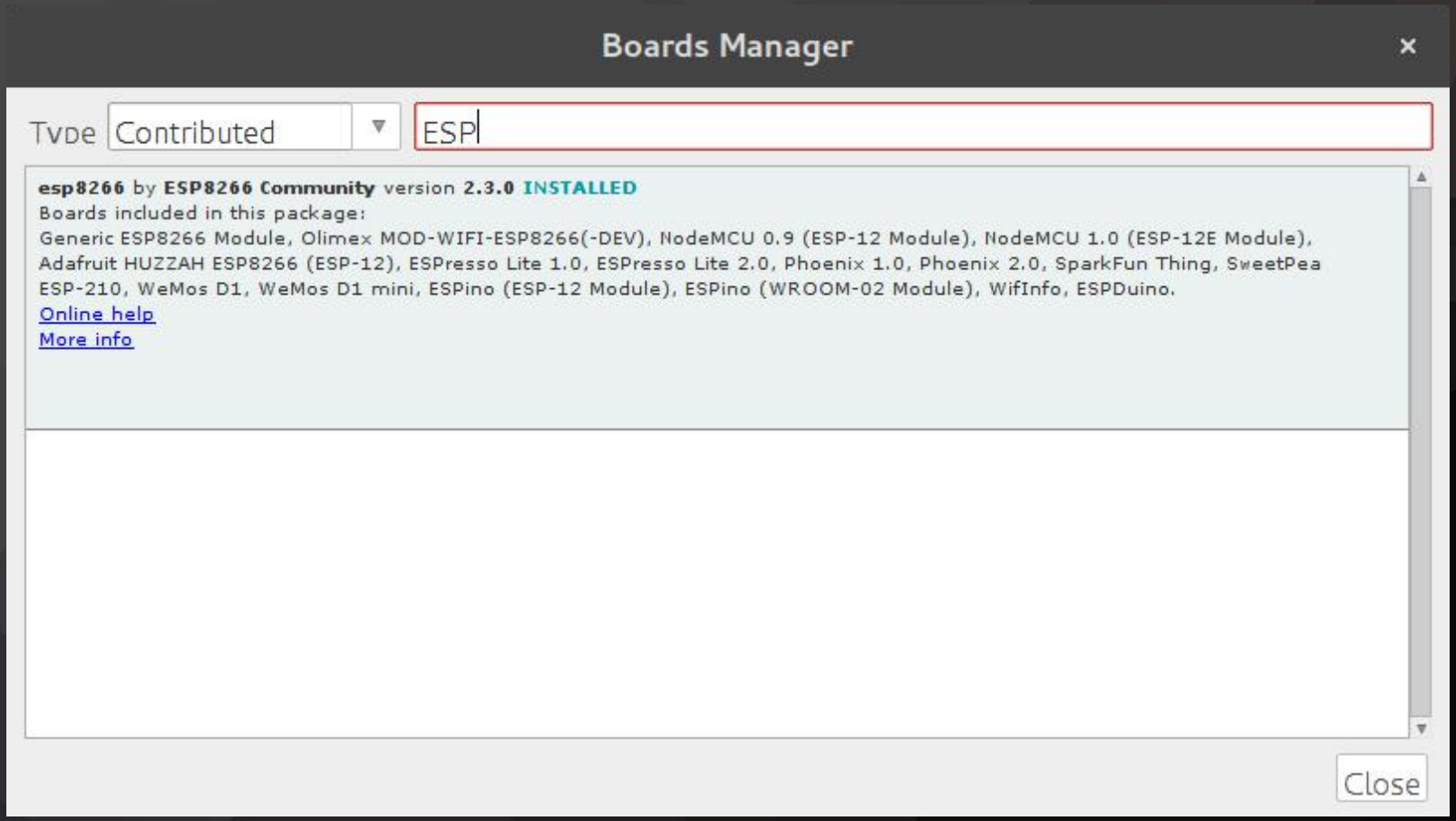
# Setup

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

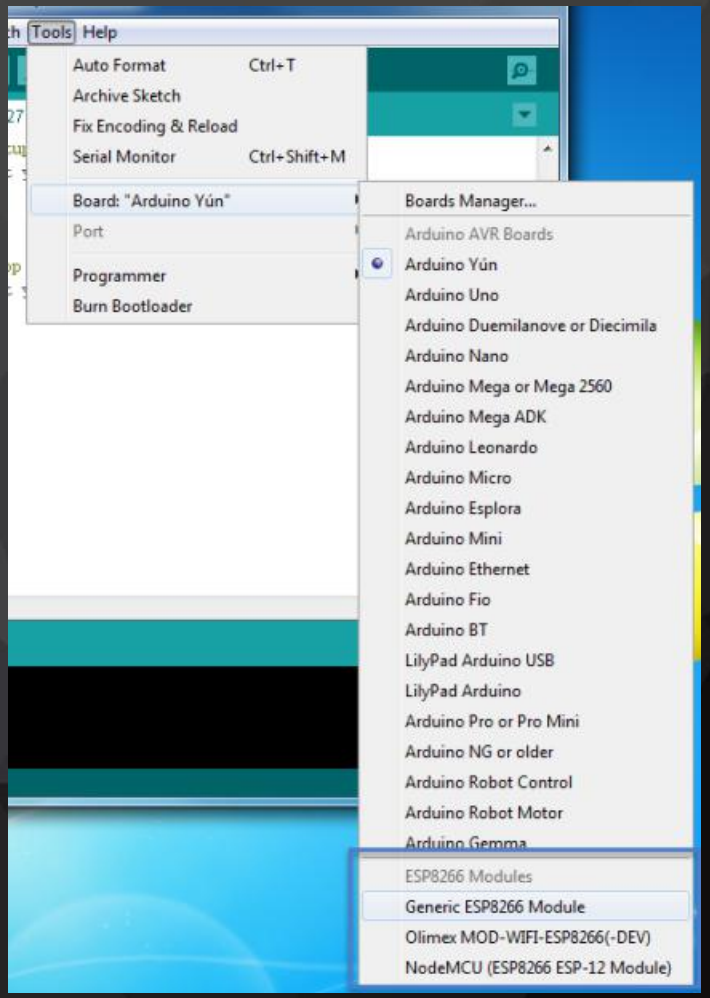
# Setup


y26a | Arduino 1.6.4
tch Tools Help
Auto Format Ctrl+T
Archive Sketch
Fix Encoding & Reload
Serial Monitor Ctrl+Shift+M
Board: "Arduino Uno"
Port
Programmer
Burn Bootloader
Boards Manager...
Arduino AVR Boards
Arduino Yún
Arduino Uno
Arduino Duemilanove or Diecimila
Arduino Nano
Arduino Mega or Mega 2560
Arduino Mega ADK

# Setup


Boards Manager
Type
Contributed
ESP
esp8266 by ESP8266 Community version 2.3.0 INSTALLED
Boards included in this package:
Generic ESP8266 Module, Olimex MOD-WIFI-ESP8266(-DEV), NodeMCU 0.9 (ESP-12 Module), NodeMCU 1.0 (ESP-12E Module), Adafruit HUZZAH ESP8266 (ESP-12), ESPresso Lite 1.0, ESPresso Lite 2.0, Phoenix 1.0, Phoenix 2.0, SparkFun Thing, SweetPea ESP-210, WeMos D1, WeMos D1 mini, ESPino (ESP-12 Module), ESPino (WROOM-02 Module), WifInfo, ESPDuino.
Online help
More info
Close

# Setup


Tools
Help
Auto Format Ctrl+T
Archive Sketch
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Arduino AVR Boards
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Arduino Duemilanove or Diecimila
Arduino Nano
Arduino Mega or Mega 2560
Arduino Mega ADK
Arduino Leonardo
Arduino Micro
Arduino Esplora
Arduino Mini
Arduino Ethernet
Arduino Fio
Arduino BT
LilyPad Arduino USB
LilyPad Arduino
Arduino Pro or Pro Mini
Arduino NG or older
Arduino Robot Control
Arduino Robot Motor
Arduino Gemma
ESP8266 Modules
Generic ESP8266 Module
Olimex MOD-WIFI-ESP8266(-DEV)
NodeMCU (ESP8266 ESP-12 Module)

# Connect

```
WiFi.begin(const char* ssid, const char* passphrase)
```

Parameters:

ssid: WiFi name

passphrase: Wifi password

# Connect

```
WiFi.begin(const char* ssid, const char* passphrase)
```

```
WiFi.begin("TestNaja", "123456789");
```

```
WiFi.begin("TestNaja");
```

# Functions

## WiFi.status()

Return the connection status. (WL_CONNECTED, WL_CONNECT_FAILED, WL_DISCONNECTED และ)

## WiFi.localIP()

Gets the NodeMCU WiFi's IP address

## WiFi.disconnect()

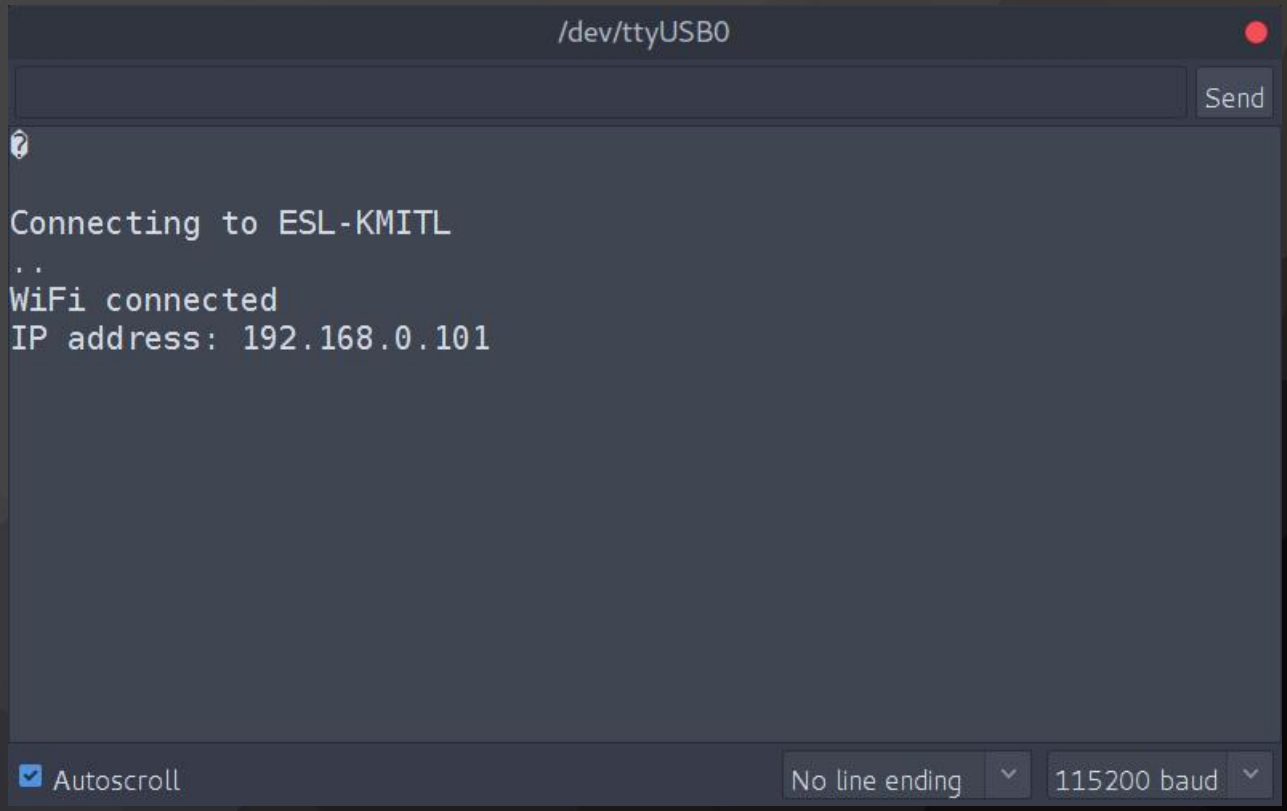
Disconnects the NodeMCU from the current network

# Test

```
#include <ESP8266WiFi.h>
const char* ssid = "your-ssid";         //อย่าลืมแก้เป็นชื่อ SSID
const char* password = "your-password"; //อย่าลืมแก้เป็น password
void setup() {
    Serial.begin(115200);   //ตั้งค่าใช้งาน serial ที่ baudrate 115200
    delay(10);
    Serial.println();
    Serial.println();
    Serial.print("Connecting to "); //แสดงข้อความ  “Connecting to”
    Serial.println(ssid);       //แสดงชื่อ SSID
    WiFi.begin(ssid, password); //เชื่อมต่อไปยัง AP

    while (WiFi.status() != WL_CONNECTED){   //รอจนกว่าจะเชื่อมต่อสำเร็จ
          delay(500);
          Serial.print(".");    // ไม่มีไรทำ รอครึ่งวิแล้วปริ้นท์จุดเล่น
    }
    Serial.println("");
    Serial.println("WiFi connected");   //แสดงข้อความเชื่อมต่อสำเร็จ
    Serial.print("IP address: ");
    Serial.println(WiFi.localIP());   //แสดงหมายเลข IP ของ ESP8266(DHCP)
}
```

# Test


/dev/ttyUSB0
Send
Connecting to ESL-KMITL
..
WiFi connected
IP address: 192.168.0.101
Autoscroll
No line ending
115200 baud

# ปล. นี่เริ่มเรื่อง Internet of Things แล้วนะรู้ยัง?