

Exemplo NodeMcu com Arduino IDE

Explicações no link

<http://randomnerdtutorials.com/how-to-install-esp8266-board-arduino-ide/>

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) Scroll down, select the ESP8266 board menu and install “esp8266 platform”

5) open the file editor and type

```
void setup() {  
  // initialize digital pin 2 as an output.  
  pinMode(2, OUTPUT);  
}  
// the loop function runs over and over again forever  
void loop() {  
  digitalWrite(2, HIGH); // turn the LED on (HIGH is the voltage level)  
  delay(1000);           // wait for a second  
  digitalWrite(2, LOW);  // turn the LED off by making the voltage LOW  
  delay(1000);           // wait for a second  
}
```

6) Select nodemcu 1.0 (12E module)

the onboard led will blink.

7) Another example is building a webserver to blink the led. This example was extracted from <http://www.arduinesp.com/wifiwebserver>

local file esp12_webserverblink. Connect to the local WiFi, the serial monitor will print the IP address. Connect to the IP address, for example 10.0.0.16 and switch the led on and off.