

Tutorial 2 NodeMCU V2: The Basic

1. Diagram and Pin Outs

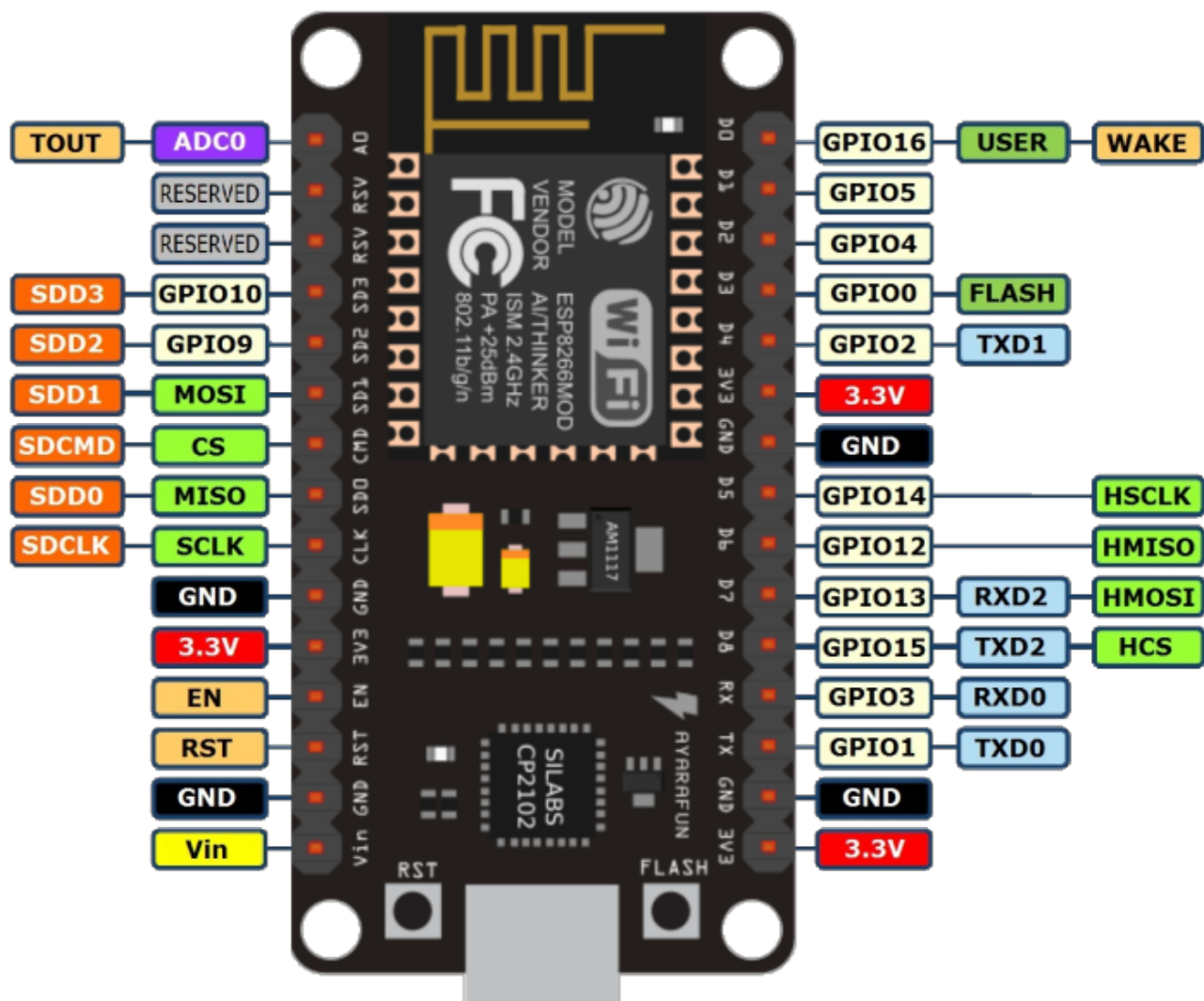


Figure 1.1: NodeMCU

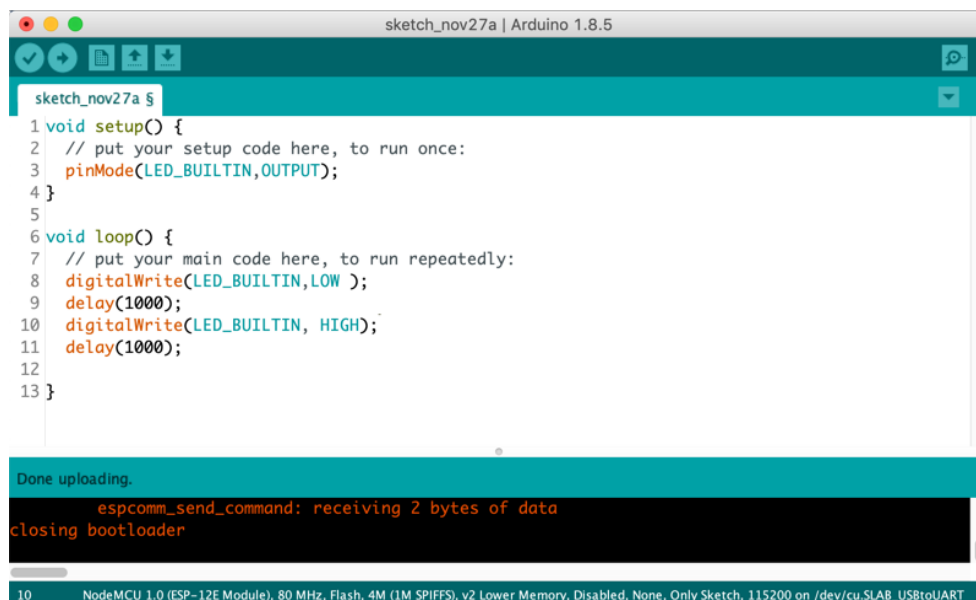
2. Pin Mapping

Table 1.1: Pin Mapping NodeMCU vs ESP8266

NodeMCU	ESP8266
D0	GPIO16
D1	GPIO5
D2	GPIO4
D3	GPIO0
D4	GPIO2
D5	GPIO14
D6	GPIO12
D7	GPIO13
D8	GPIO15
D9	GPIO3
D10	GPIO1
***LED_BUILTIN = GPIO16	

3. Blink The LED

1.3.1 Blink The LED– Method 1



```
sketch_nov27a $
1 void setup() {
2   // put your setup code here, to run once:
3   pinMode(LED_BUILTIN, OUTPUT);
4 }
5
6 void loop() {
7   // put your main code here, to run repeatedly:
8   digitalWrite(LED_BUILTIN, LOW);
9   delay(1000);
10  digitalWrite(LED_BUILTIN, HIGH);
11  delay(1000);
12
13 }

Done uploading.
    espcomm_send_command: receiving 2 bytes of data
closing bootloader

10 NodeMCU 1.0 (ESP-12E Module), 80 MHz, Flash, 4M (1M SPIFFS), v2 Lower Memory, Disabled, None, Only Sketch, 115200 on /dev/cu.SLAB_USBtoUART
```

Figure 1.2: How to use LED_BUILTIN

1.3.1 Blink The LED – Method 2

Change LED_BUILTIN to 16

1.3.2 Blink The LED – Method 3

Change LED_BUILTIN to D0

4. How To Display and Monitor uC Activity?



Figure 1.3: Serial activity

5 Reading From Analog Port

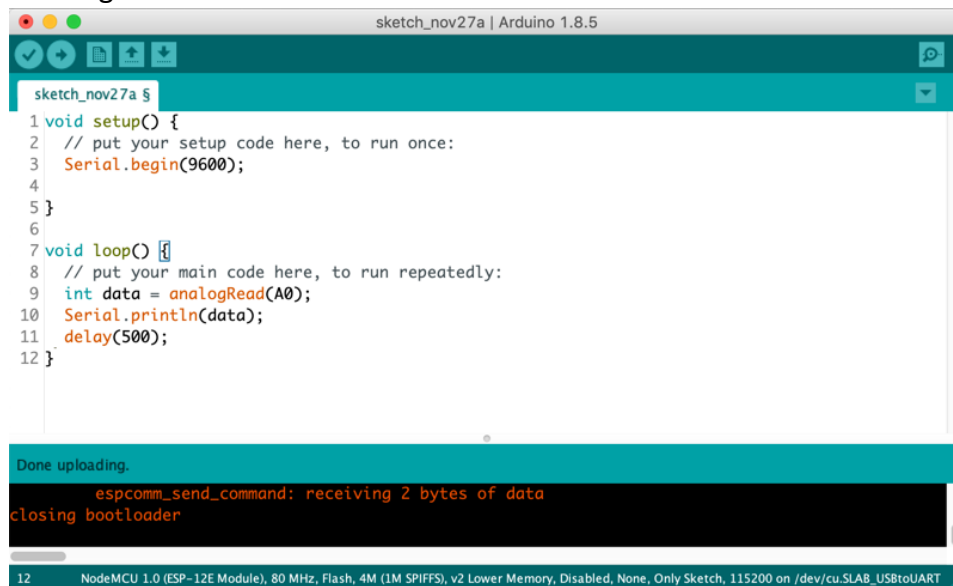


Figure 1.4: Serial activity with analog input