

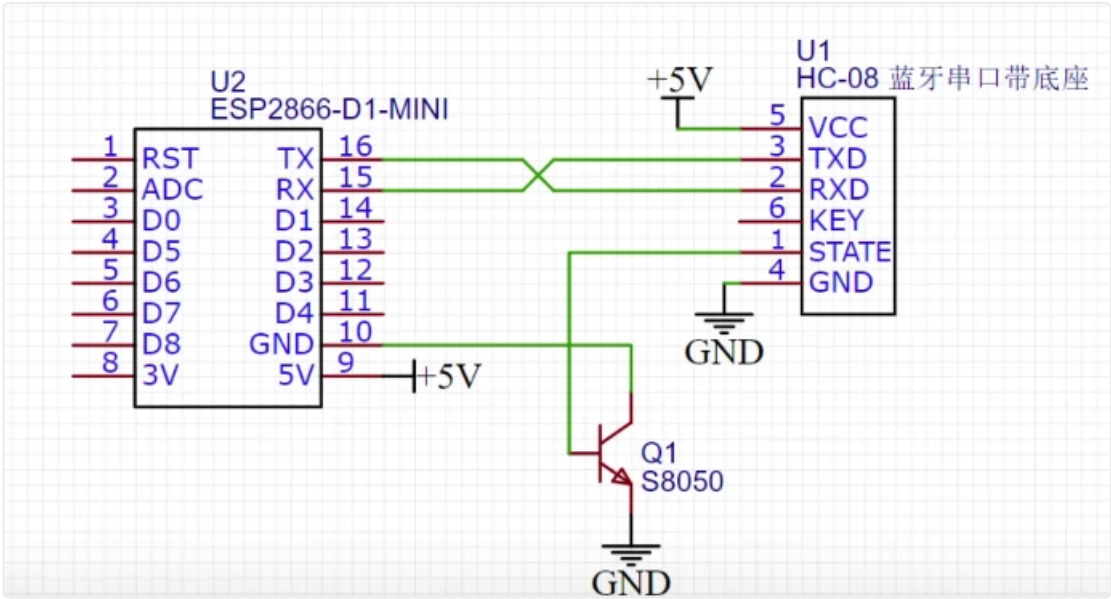


# 蓝牙版

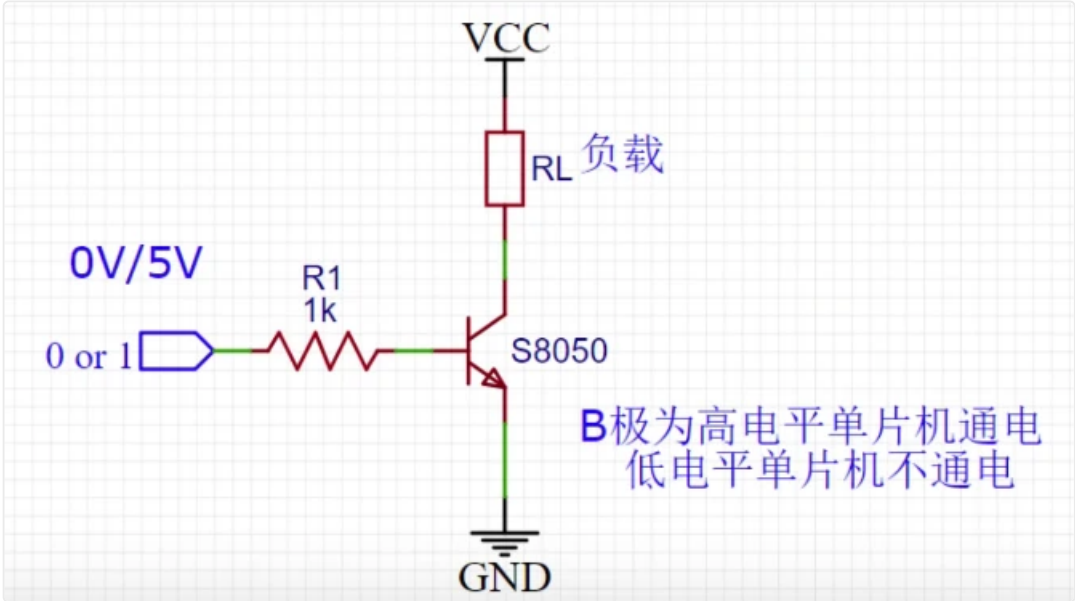
## 前言

十二月 17 我们做了网页版和手机版的之后，自然想到去做一个蓝牙版，蓝牙版的一个好处就是十分省电，在此我们用了三极管来控制蓝牙不工作的时候断开电源

### 1) 整体连接



十二月 17 三极管图示：



## 材料

- esp8266 nodeMCU 开发板
- 舵机
- 数据线
- HC-05
- 三极管
- 面包板-电源模块
- 充电宝

# 一句话原理

十二月

17

星期五

将 ESP8266 NodeMCU 看成一个可以联网的单片机，可以通过蓝牙（手机）来控制单片机。

## 蓝牙配置



[BluetoothSerial 蓝牙配置教程](#)

## 代码

十二月

17

星期五

由于蓝牙版没有繁琐的联网过程，代码很简答，直接给

### 总体代码

```
1  #include <ESP8266WiFi.h>
2  #include <WiFiClient.h>
3  #include <Servo.h>
4
5  Servo myservo;
6
7  void setup() {
8      Serial.begin(9600);
9      Serial.setTimeout(2000);
10     WiFi.disconnect();
11     WiFi.mode(WIFI_OFF);
12     WiFi.forceSleepBegin();
13     pinMode(2, OUTPUT);
14     digitalWrite(2, HIGH);
15     myservo.attach(2);
16     myservo.write(0);
17 }
18
19 void loop()
20 {
21     while(Serial.available())
22     {
23         char c = Serial.read();
24         if(c == 'on'){
25             digitalWrite(2, LOW);
26             myservo.write(170);
27             delay(1000);
28             myservo.write(0);
29             Serial.print("灯已开\n");
30         }
31
32         if(c == 'off'){
33             digitalWrite(2, HIGH);
34             myservo.write(0);
35             delay(1000);
36             myservo.write(170);
37             Serial.print("灯已关\n");
38         }
39     }
40 }
```

C ▾

## 效果展示

### 1) upload

```
Done uploading.

Executable segment sizes:
ICACHE : 32768      - flash instruction cache
IROM   : 238816     - code in flash          (default or ICACHE_FLASH_ATTR)
IRAM   : 28193  / 32768 - code in IRAM          (IRAM_ATTR, ISRs...)
DATA   : 1496  )    - initialized variables (global, static) in RAM/HEAP
RODATA : 908   )    - constants             (global, static) in RAM/HEAP
BSS    : 25752  )    - zeroed variables      (global, static) in RAM/HEAP

Sketch uses 269413 bytes (25%) of program storage space. Maximum is 1044464 bytes.
Global variables use 28156 bytes (34%) of dynamic memory, leaving 53764 bytes for local variables. Maximum is 81920 bytes.
esptool.py v3.0
Serial port COM5
Connecting....
Chip is ESP8266EX
Features: WiFi
Crystal is 26MHz
MAC: 30:83:98:a2:cd:d6
Uploading stub...
Running stub...
Stub running...
Configuring flash size...
Auto-detected Flash size: 4MB
Compressed 273568 bytes to 200791...
Writing at 0x00000000... (7 %)
Writing at 0x00004000... (15 %)
Writing at 0x00008000... (23 %)
Writing at 0x0000c000... (30 %)
Writing at 0x00010000... (38 %)
Writing at 0x00014000... (46 %)
Writing at 0x00018000... (53 %)
Writing at 0x0001c000... (61 %)
Writing at 0x00020000... (69 %)
Writing at 0x00024000... (76 %)
Writing at 0x00028000... (84 %)
Writing at 0x0002c000... (92 %)
Writing at 0x00030000... (100 %)

33      NodeMCU 1.0 (ESP-12E Module), 80 MHz, Flash, Disabled (new aborts on oom), Disabled, All SSL ciphers (most compatible), 32KB cache + 32KB IRAM (balanced), Use pgm_read macros for IRAM/PRO
```

## 2) BluetoothSerial

# BluetoothSerial



开灯		关灯

Edit ☒



### 3) Servo

