

## 树莓派第六课 交通灯控制

```

pi@raspberrypi: ~/树莓派基础套件程序资料/第六课/交通灯/
pi@raspberrypi: ~/树莓派基础套件程序资料/第六课/交通灯 $ ls
jiaotongdeng.c
pi@raspberrypi: ~/树莓派基础套件程序资料/第六课/交通灯 $ nano jiaotongdeng.c
pi@raspberrypi: ~/树莓派基础套件程序资料/第六课/交通灯 $ gpio readall
+-----+-----+-----+-----+-----+-----+-----+-----+-----+-----+
| BCM | wPi |   Name   | Mode | V | Physical | V | Mode |   Name   | wPi | BCM |
+-----+-----+-----+-----+-----+-----+-----+-----+-----+-----+
|      |      |   3.3v   |      |   |    1    | 2 |      |   5v     |      |      | |
|  2   |  8   |  SDA.1   | ALT0 | 1 |    3    | 4 |      |   5V     |      |      |
|  3   |  9   |  SCL.1   | ALT0 | 1 |    5    | 6 |      |   0v     |      |      |
|  4   |  7   | GPIO. 7  |  IN  | 1 |    7    | 8 |  1   |  ALT0    | TxD   | 15   | 14   |
|      |      |   0v     |      |   |    9    |10 |  1   |  ALT0    | RxD   | 16   | 15   |
| 17   |  0   | GPIO. 0  |  IN  | 0 |   11   |12 |  1   |  OUT     | GPIO. 1 | 1   | 18   |
| 27   |  2   | GPIO. 2  |  OUT | 0 |   13   |14 |      |   0v     |      |      |
| 22   |  3   | GPIO. 3  |  OUT | 0 |   15   |16 |  0   |  OUT     | GPIO. 4 | 4    | 23   |
|      |      |   3.3v   |      |   |   17   |18 |  0   |  OUT     | GPIO. 5 | 5    | 24   |
| 10   | 12   |  MOSI    | ALT0 | 0 |   19   |20 |      |   0v     |      |      |
|  9   | 13   |  MISO    | ALT0 | 0 |   21   |22 |  0   |  OUT     | GPIO. 6 | 6    | 25   |
| 11   | 14   |  SCLK    | ALT0 | 0 |   23   |24 |  1   |  ALT0    | CE0    | 10   |  8    |
|      |      |   0v     |      |   |   25   |26 |  1   |  ALT0    | CE1    | 11   |  7    |
+-----+-----+-----+-----+-----+-----+-----+-----+-----+-----+
| 28   | 17   | GPIO.17  |  IN  | 0 |   51   |52 |  0   |  IN      | GPIO.18 | 18   | 29   |
| 30   | 19   | GPIO.19  |  IN  | 0 |   53   |54 |  0   |  IN      | GPIO.20 | 20   | 31   |
+-----+-----+-----+-----+-----+-----+-----+-----+-----+-----+
| BCM | wPi |   Name   | Mode | V | Physical | V | Mode |   Name   | wPi | BCM |
+-----+-----+-----+-----+-----+-----+-----+-----+-----+-----+
+-----+-----+-----+-----+-----+-----+-----+-----+-----+-----+
pi@raspberrypi: ~/树莓派基础套件程序资料/第六课/交通灯 $ gcc -Wall -o jiaotongdeng jiaotongde
ng.c -lwiringPi
pi@raspberrypi: ~/树莓派基础套件程序资料/第六课/交通灯 $ ls
jiaotongdeng jiaotongdeng.c
pi@raspberrypi: ~/树莓派基础套件程序资料/第六课/交通灯 $ sudo ./jiaotongdeng
^Cpi@raspberrypi: ~/树莓派基础套件程序资料/第六课/交通灯 $

```

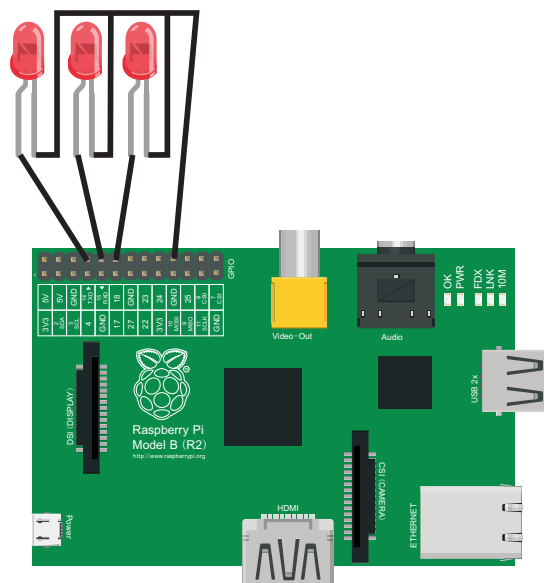
图一

```
pi@raspberrypi: ~/...  
GNU nano 2.2.6 File: jiaotongdeng.c  
#include <wiringPi.h>  
  
int main()  
{  
    wiringPiSetup();  
    int i=0;  
    int greenled=15;  
    int yellowled=16;  
    int redled=1;  
    pinMode(greenled,OUTPUT);  
    pinMode(yellowled,OUTPUT);  
    pinMode(redled,OUTPUT);  
  
    for(;;)  
    {  
        digitalWrite(greenled,HIGH);  
        delay(5000);  
        digitalWrite(greenled,LOW);  
        for( i=0;i<3;i++)  
        {  
            digitalWrite(yellowled,HIGH);  
            delay(500);  
            digitalWrite(yellowled,LOW);  
            delay(500);  
        }  
        digitalWrite(redled,HIGH);  
        delay(5000);  
        digitalWrite(redled,LOW);  
        //delay(500);  
    }  
}
```

[ Read 38 lines ]

^G Get Help	^O WriteOut	^R Read File	^Y Prev Page	^K Cut Text	^C Cur Pos
^X Exit	^J Justify	^W Where Is	^V Next Page	^U UnCut Text	^T To Spell

图二



图三