

树莓派第九课 光控声音

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pi@raspberrypi: ~/树莓派基础套件程序资料/第九课/光控声音
pi@raspberrypi: ~/树莓派基础套件程序资料/第九课/光控声音 $ ls
guangsheng.c
pi@raspberrypi: ~/树莓派基础套件程序资料/第九课/光控声音 $ nano guangsheng.c
pi@raspberrypi: ~/树莓派基础套件程序资料/第九课/光控声音 $ 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   | OUT     | TxD  | 15   | 14   |
|      |      |   0v     |      |   |    9     |10 |  1   | ALT0    | RxD  | 16   | 15   |
| 17   |  0   | GPIO. 0  | IN   | 0 |   11     |12 |  0   | IN      | GPIO. 1 | 1   | 18   |
| 27   |  2   | GPIO. 2  | IN   | 0 |   13     |14 |      |   0v     |      |      |
| 22   |  3   | GPIO. 3  | IN   | 0 |   15     |16 |  0   | IN      | GPIO. 4 | 4   | 23   |
|      |      |   3.3v   |      |   |   17     |18 |  0   | IN      | GPIO. 5 | 5   | 24   |
| 10   | 12   | MOSI     | ALT0 | 0 |   19     |20 |      |   0v     |      |      |
|  9   | 13   | MISO     | ALT0 | 0 |   21     |22 |  0   | IN      | 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/第九课/光控声音 $ gcc -Wall -o guangsheng guangsheng.c -lwiringPi
pi@raspberrypi: ~/树莓派基础套件程序资料/第九课/光控声音 $ ls
guangsheng  guangsheng.c
pi@raspberrypi: ~/树莓派基础套件程序资料/第九课/光控声音 $ sudo ./guangsheng
pi@raspberrypi: ~/树莓派基础套件程序资料/第九课/光控声音 $

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图一

```
pi@raspberrypi: ~/锈戮被娼俱熯纭€濂榭欢娉纭纭壁勘枞/纭 節璇? 纭纭带滄伴堤
GNU nano 2.2.6                               File: guangsheng.c

#include <wiringPi.h>
#include <pcf8591.h>
#include <stdio.h>

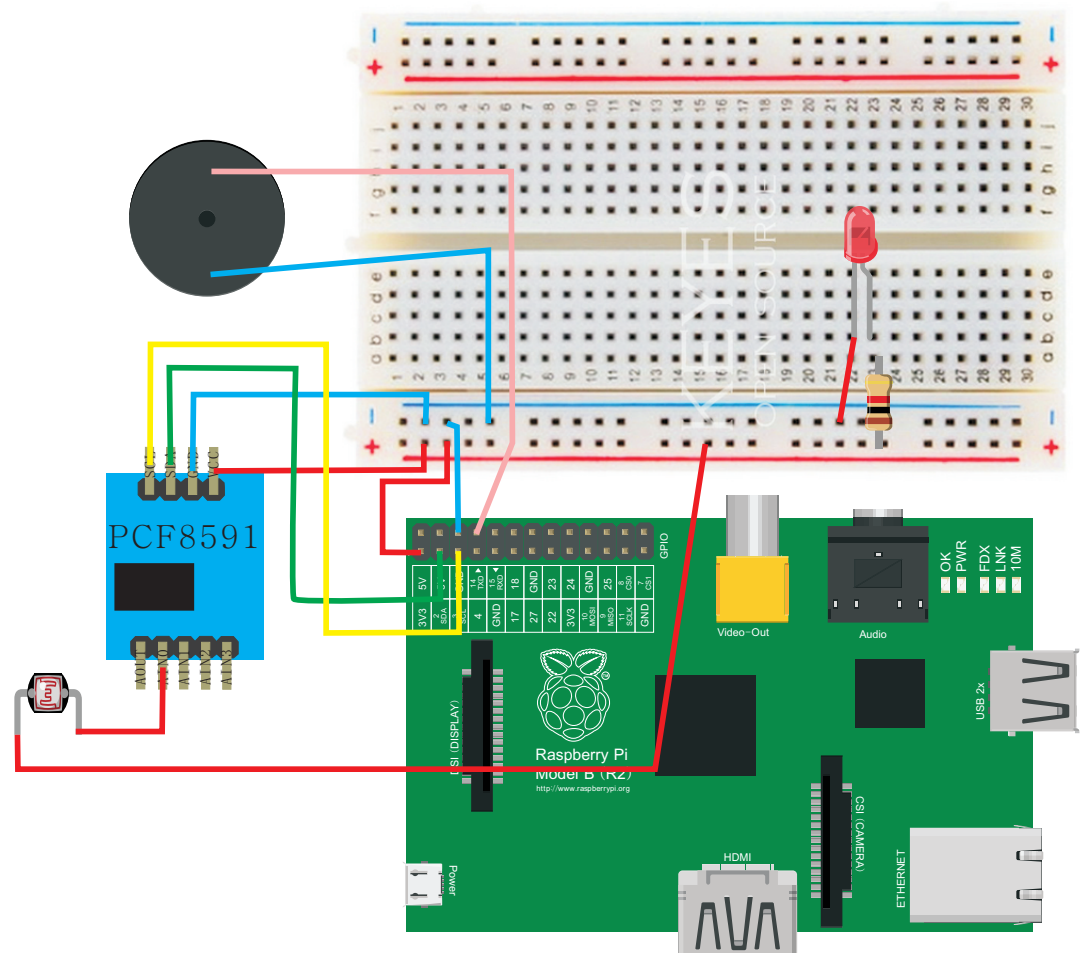
#define LED                15
#define Q2W_ABASE          120

void voice_freq (int del)
{
    digitalWrite(15,HIGH);
    delay(del);
    digitalWrite(15,LOW);
    delay(del);
}

int main()
{
    int value;
    //int del;
    //int val=100;
    wiringPiSetup();
    pcf8591Setup(Q2W_ABASE,0x48);
    pinMode(15,OUTPUT);
    digitalWrite(15,LOW);
}

[ Read 41 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