

Project 8: Buzzer control

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pi@raspberrypi: ~/树莓派基础套件程序资料 $ cd 第八课\ \ 蜂鸣器/
树莓派pi@raspberrypi ~/树莓派基础套件程序资料/第八课 蜂鸣器 $ ls
buzzer.c
树莓派pi@raspberrypi ~/树莓派基础套件程序资料/第八课 蜂鸣器 $ nano buzzer.c
树莓派pi@raspberrypi ~/树莓派基础套件程序资料/第八课 蜂鸣器 $ gpio readall
+-----+-----+-----+-----+-----+-----+-----+-----+-----+-----+
| BCM | wPi |   Name   | Mode | V | Physical | V | Mode |   Name   | wPi | BCM |
+-----+-----+-----+-----+-----+-----+-----+-----+-----+-----+
|      |      | 3.3v     |      |   | 1 | 2 |      | 5v       |      |      | |
| 2 | 8 | SDA.1    | ALTO | 1 | 3 | 4 |      | 5V       |      |      |
| 3 | 9 | SCL.1    | ALTO | 1 | 5 | 6 |      | 0v       |      |      |
| 4 | 7 | GPIO. 7  | IN    | 1 | 7 | 8 | 1 | ALTO | TxD     | 15 | 14 |
|      |      | 0v       |      |   | 9 | 10 | 1 | ALTO | 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     | ALTO | 0 | 19 | 20 |   |      | 0v       |   |   |
| 9  | 13 | MISO     | ALTO | 0 | 21 | 22 | 0 | IN    | GPIO. 6 | 6  | 25 |
| 11 | 14 | SCLK     | ALTO | 0 | 23 | 24 | 1 | ALTO | CE0     | 10 | 8  |
|      |      | 0v       |      |   | 25 | 26 | 1 | ALTO | 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 |
+-----+-----+-----+-----+-----+-----+-----+-----+-----+-----+
+-----+-----+-----+-----+-----+-----+-----+-----+-----+-----+
树莓派pi@raspberrypi ~/树莓派基础套件程序资料/第八课 蜂鸣器 $ gcc -Wall -o buzzer buzzer.c -lwiringPi
树莓派pi@raspberrypi ~/树莓派基础套件程序资料/第八课 蜂鸣器 $ ls
buzzer buzzer.c
树莓派pi@raspberrypi ~/树莓派基础套件程序资料/第八课 蜂鸣器 $ sudo ./buzzer
^C树莓派pi@raspberrypi ~/树莓派基础套件程序资料/第八课 蜂鸣器 $

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Pic.1

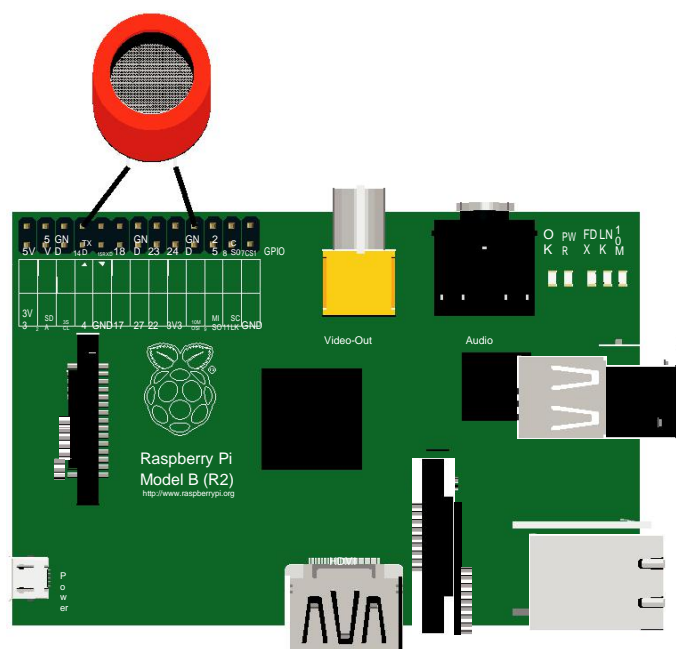
```
pi@raspberrypi: ~/...$ nano buzzer.c
GNU nano 2.2.6 File: buzzer.c

#include <wiringPi.h>

int main()
{
    wiringPiSetup();
    int i=0;
    pinMode(15,OUTPUT);
    for(;;)
    {
        for(i=0;i<100;i++)
        {
            digitalWrite(15,HIGH);
            delay(1);
            digitalWrite(15,LOW);
            delay(1);
        }
        for(i=0;i<100;i++)
        {
            digitalWrite(15,HIGH);
            delay(2);
            digitalWrite(15,LOW);
            delay(2);
        }
    }
}
```

^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

Pic.2



pic. 3