

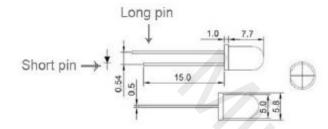
Traffic light

★ Overview



The experiment shows the effect of the simulation of traffic lights.

★ Specification



★ Hardware required

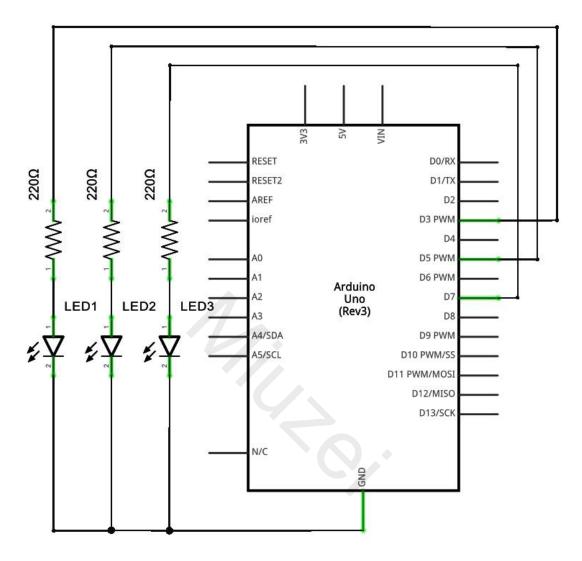
Material diagram	Material name	Number
-(111)	220/330Ω resistor	3
	Yellow LED	1
	Green LED	1
	Red LED	1
	USB Cable	1
	UNO R3	1
	Breadboard	1
	Jumper wires	Several

1



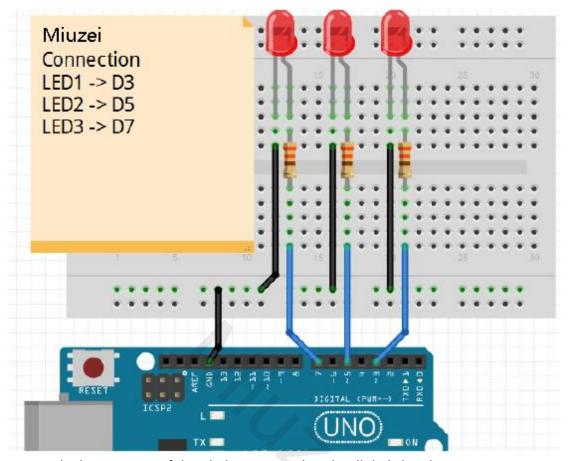
Connection

★ Schematic





★ Connection diagram



Note: The longest LED of the pin is connected to the digital signal port *(D*).



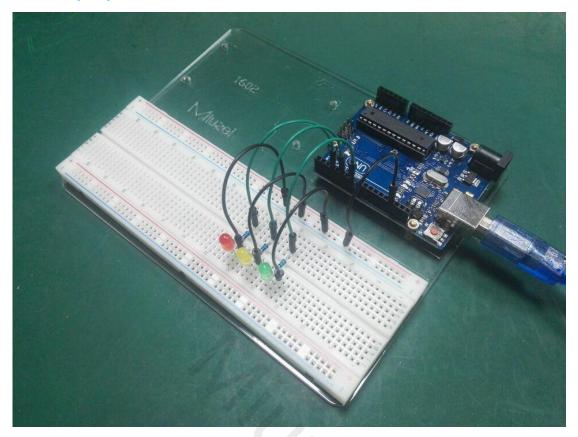
★ Sample code

Note: sample code under the **Sample code** folder

```
int redled =3;
int yellowled =5;
int greenled =7;
void setup()
{
    pinMode(redled, OUTPUT);
    pinMode(yellowled, OUTPUT);
    pinMode(greenled, OUTPUT);
void loop()
{
    digitalWrite(greenled, HIGH); // turn on green LED
    delay(5000);
    digitalWrite(greenled, LOW); // turn off green LED
    for(int i=0; i<3; i++)
    {
        delay(500);// wait 0.5 second
        digitalWrite(yellowled, HIGH); // turn on yellow LED
        delay(500);
        digitalWrite(yellowled, LOW); // turn off yellow LED
    }
    delay(500);
    digitalWrite(redled, HIGH);// turn on red LED
    delay(5000);
    digitalWrite(redled, LOW);// turn off red LED
}
```



★ Example picture





★ Language reference

Tips: click on the following name to jump to the web page.

If you fail to open, use the Adobe reader to open this document.

pinMode()

<u>OUTPUT</u>

INPUT

for()

HIGH

LOW

digitalWrite()

delay()

< (less than)

++ (increment)

★ Application effect

The green light flashes for 5 seconds, then the yellow light flashes 3 times, and then the red light 5 seconds, the formation of a cycle. And then repeat the cycle. This experiment shows the effect of the simulation of traffic lights.

About Miuzei:

Miuzei found in 2011, which is a professional manufacturer and exporter that concerned with open-source hardware research & product development, We have more than hundred engineers devote to developing open source hardware like Arduino, Raspberry pi,3d printers, robots.

Miuzei committed to make more creative open source products and provide richer knowledge for enthusiasts worldwide. No matter what your ideas are, we provide various mechanical parts and electronic modules to turn your ideas into success.

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