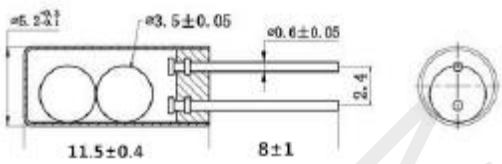
Tilt switch

★ Overview

This is a very simple switch experiment.

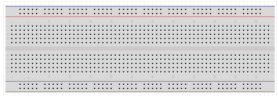
★ Specification



★ Pin definition

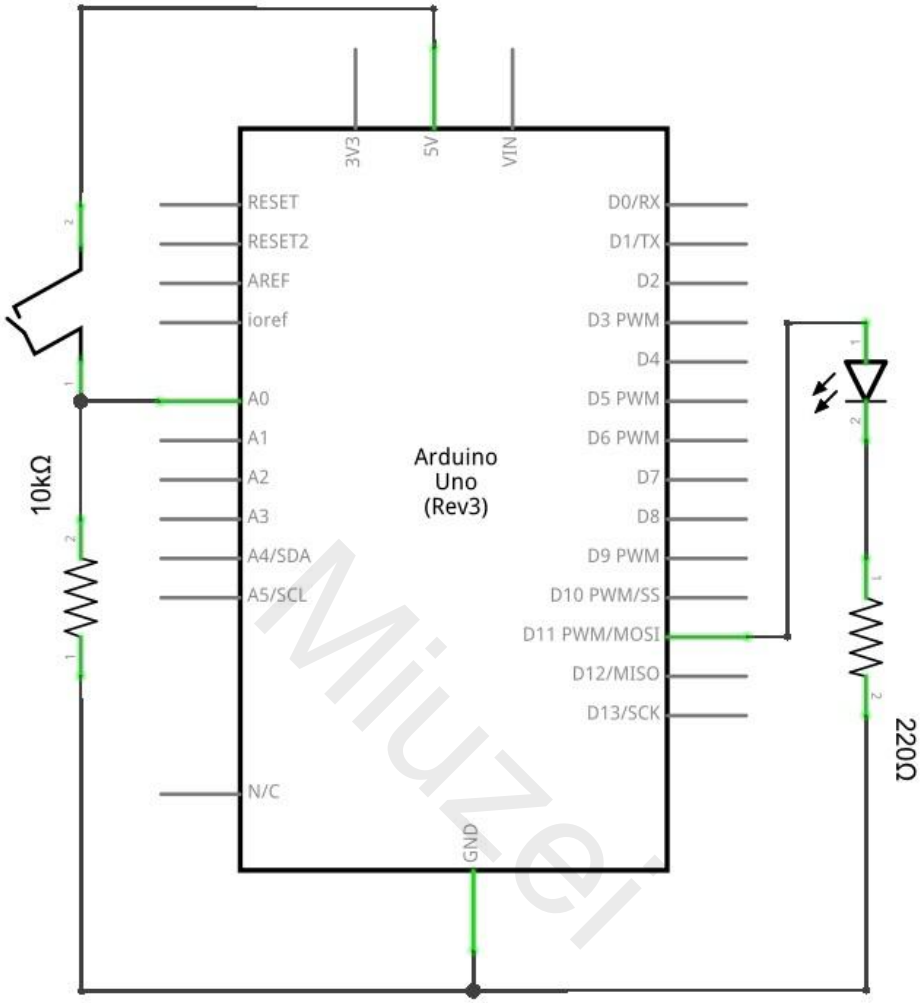
Pin non polarity.

★ Hardware required

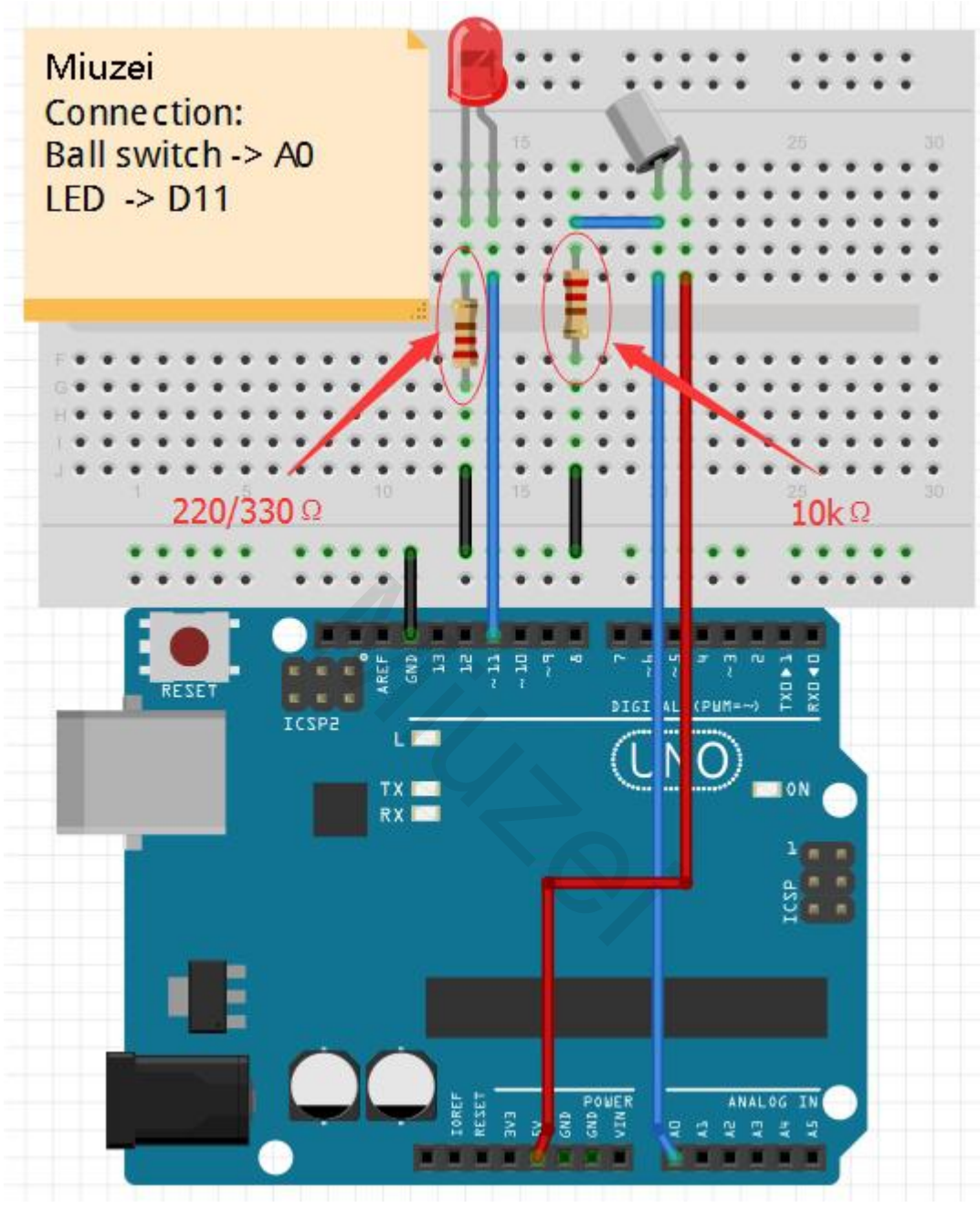
Material diagram	Material name	Number
	Ball switch	1
	LED	1
	220/330Ω resistor	1
	10KΩ resistor	1
	USB Cable	1
	UNO R3	1
	Breadboard	1
	Jumper wires	Several

Connection

★ Schematic



★ Connection diagram



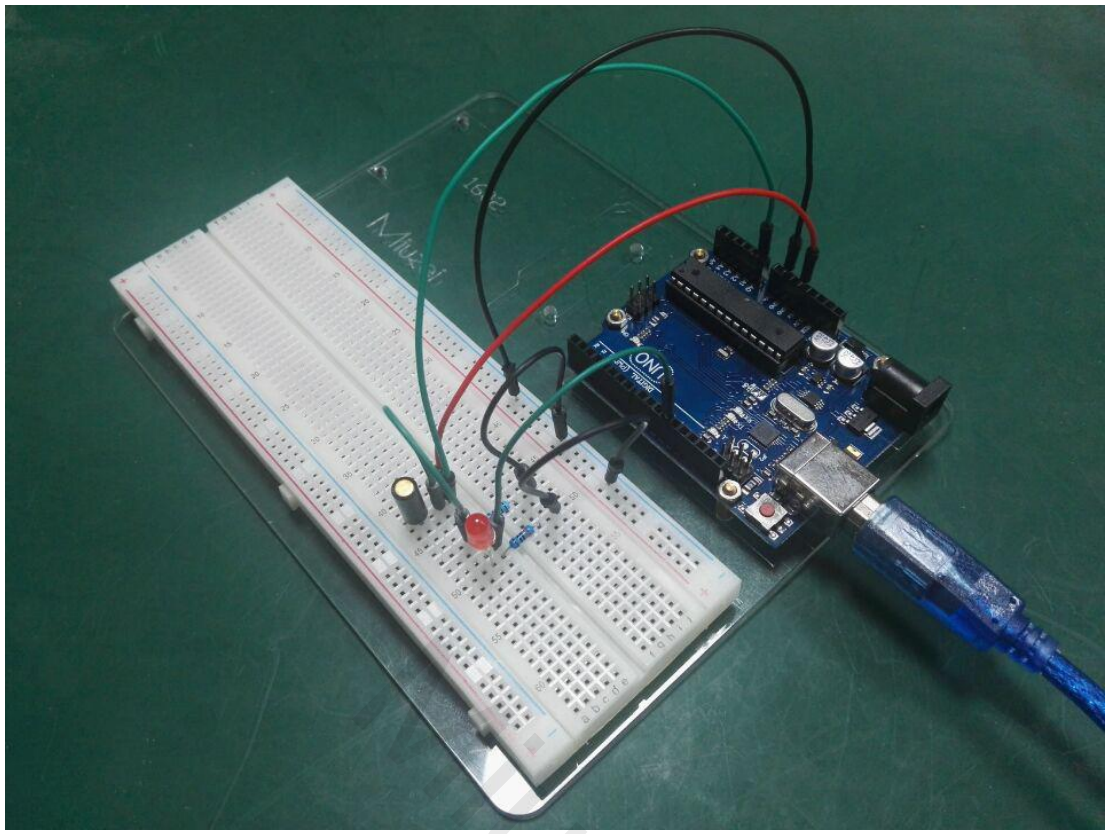
Note： The longest LED of the pin is connected to the digital signal port 11 (D11).
Ball switch`s pin is not divided into positive and negative polarity.

★ Sample code

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

```
int led = 11;
int val;
void setup()
{
      pinMode(led,OUTPUT);
}
void loop()
{
      val=analogRead(0);
      if(val<512)
      {
            digitalWrite(led,HIGH);
      }
      else
            digitalWrite(led,LOW);
}
```

★ 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.
If()
else

★ Application effect

LED light up when you lean or knock on ball switch.

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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