

Knob

★ Overview



Control the position of a RC (hobby) servo motor with your Arduino and a potentiometer.

This example makes use of the Arduino servo library.

★ Specification

9G servo: please view SG90Servo-datasheet.pdf.

Path: \Public_materials\Datasheet\ SG90Servo-datasheet.pdf

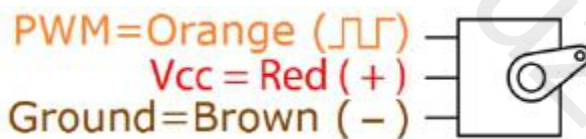
Potentiometer:

Resistance Value: 10K ohm;

Adjustment Type: Top Adjustment

★ Pin definition

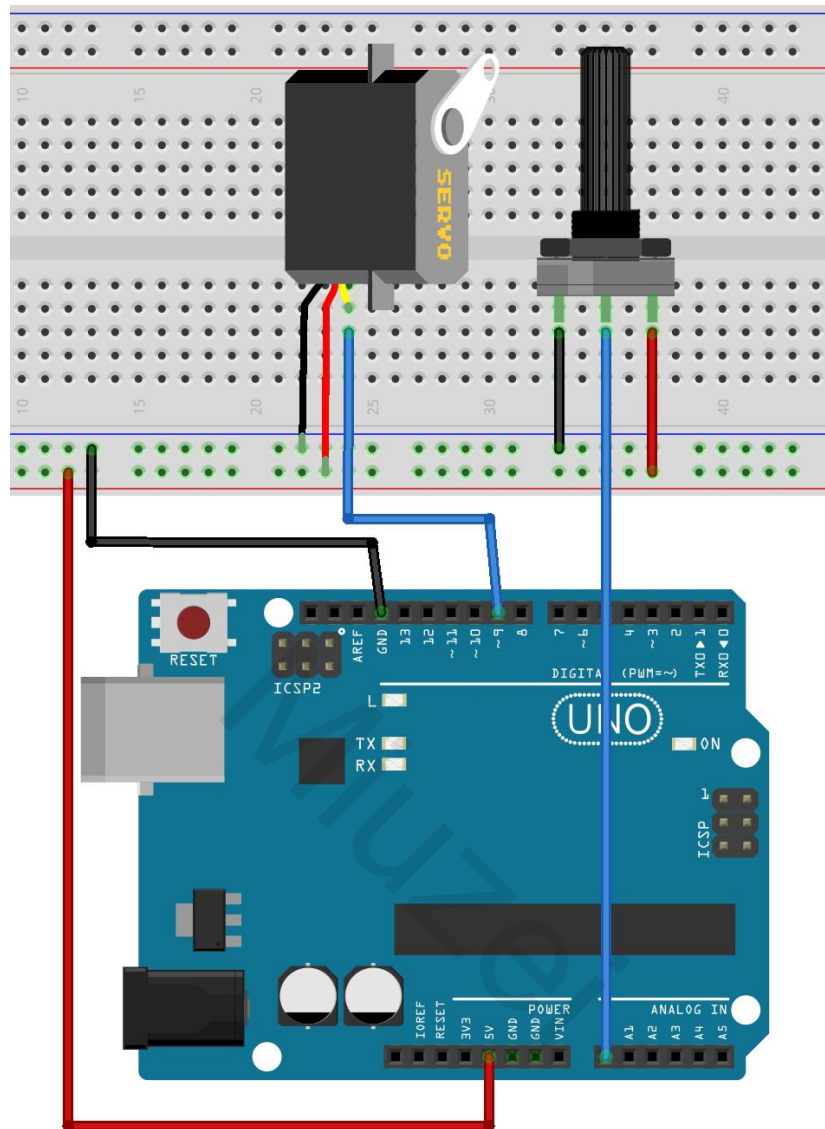
9G servo:



★ Hardware required

Material diagram	Material name	Number
	9g Servo	1
	10KΩ potentiometer	1
	USB Cable	1
	UNO R3	1
	Breadboard	1
	Jumper wires	Several

★ Connection diagram



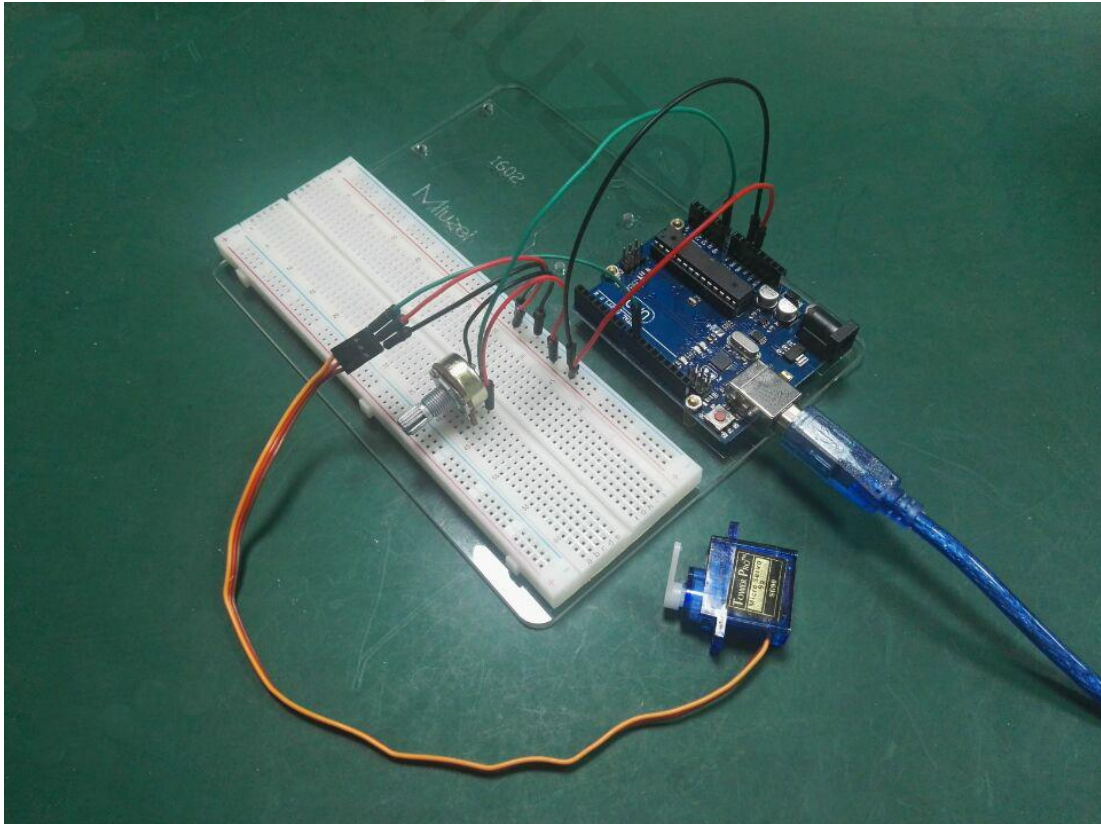
Note: The middle pin of the potentiometer is connected to the analog port 0(A0).

★ Sample code

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

```
#include <Servo.h>
Servo myservo; // create servo object to control a servo
int potpin = 0; // analog pin used to connect the potentiometer
int val;
void setup() {
    myservo.attach(9); // attaches the servo on pin 9 to the servo object
}
void loop() {
    val = analogRead(potpin);
    val = map(val, 0, 1023, 0, 180);
    myservo.write(val);
    delay(15);
}
```

★ 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.

[Map\(\)](#)

★ Application effect

When the rotary potentiometer, the servo motor also with the rotation.

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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.

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