

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

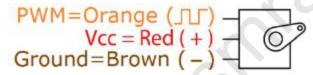
Potentiometer:

Resistance Value: 10K ohm;

Adjustment Type: Top Adjustment

Pin definition

9G servo:



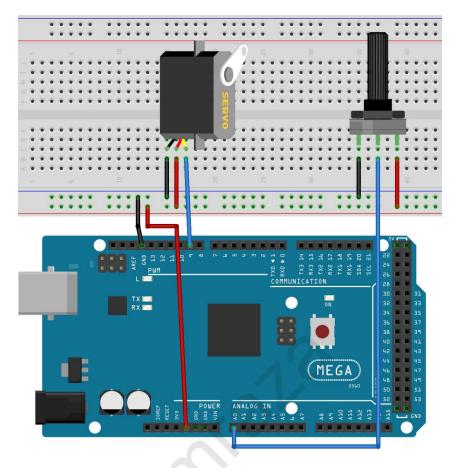
Hardware required

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Material diagram	Material name	Number
	9g Servo	1
. (90)===	10KΩ potentiometer	1
	USB Cable	1
	MEGA 2560	1
	Breadboard	1
	Jumper wires	Several

1



Connection diagram



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

2

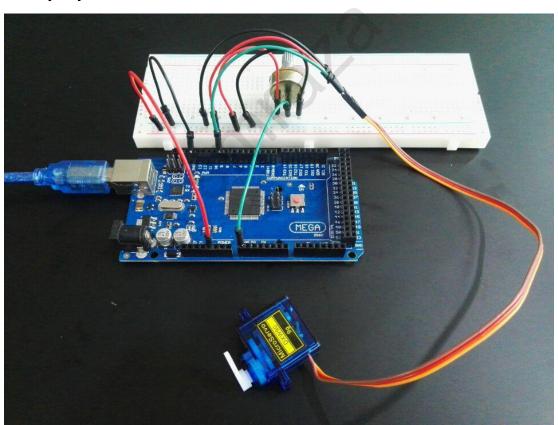


Sample code

```
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.

- * About Smraza:
- * We are a leading manufacturer of electronic components for Arduino and Raspberry Pi.
- * Official website: http://www.smraza.com/
- * We have a professional engineering team dedicated to providing tutorials and support to help you get started.
- * If you have any technical questions, please feel free to contact our support staff via email at support@smraza.com
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