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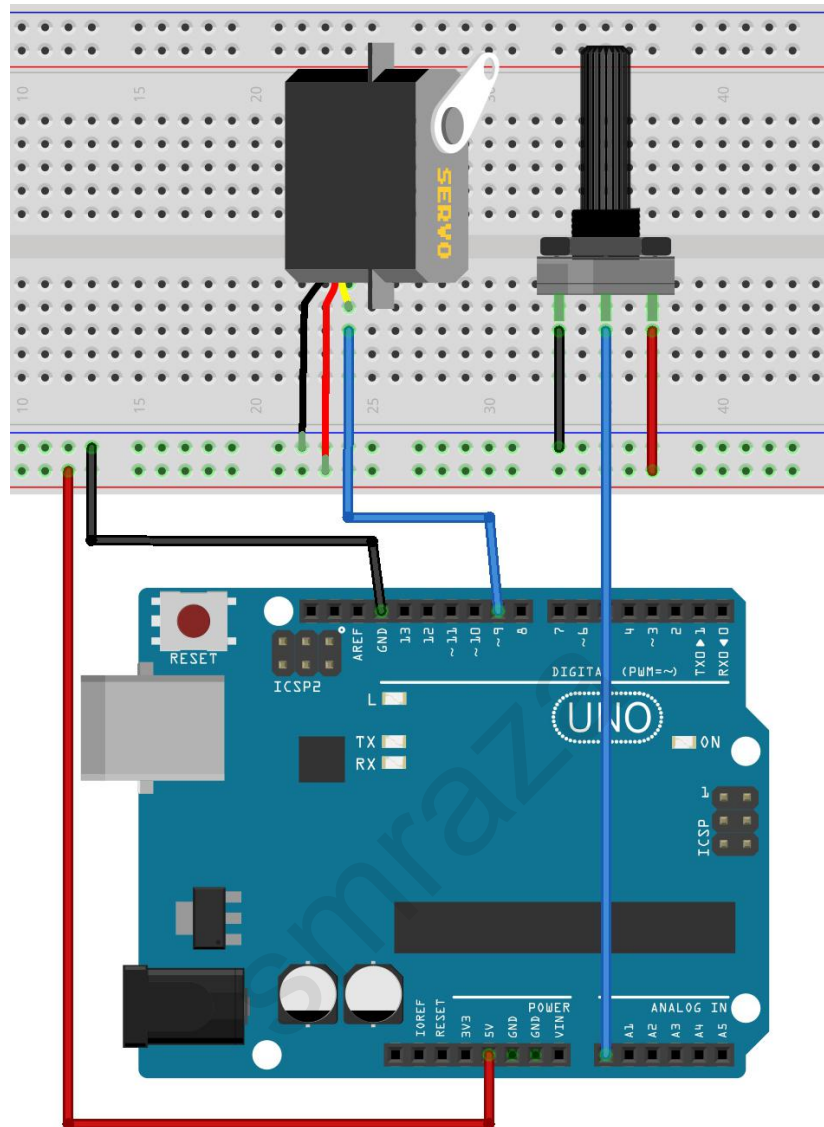
Material diagram	Material name	Number
	9g Servo	1
	10KΩ potentiometer	1
	USB Cable	1
	UNO R3	1
	Breadboard	1
	Jumper wires	Several

Connection

Schematic
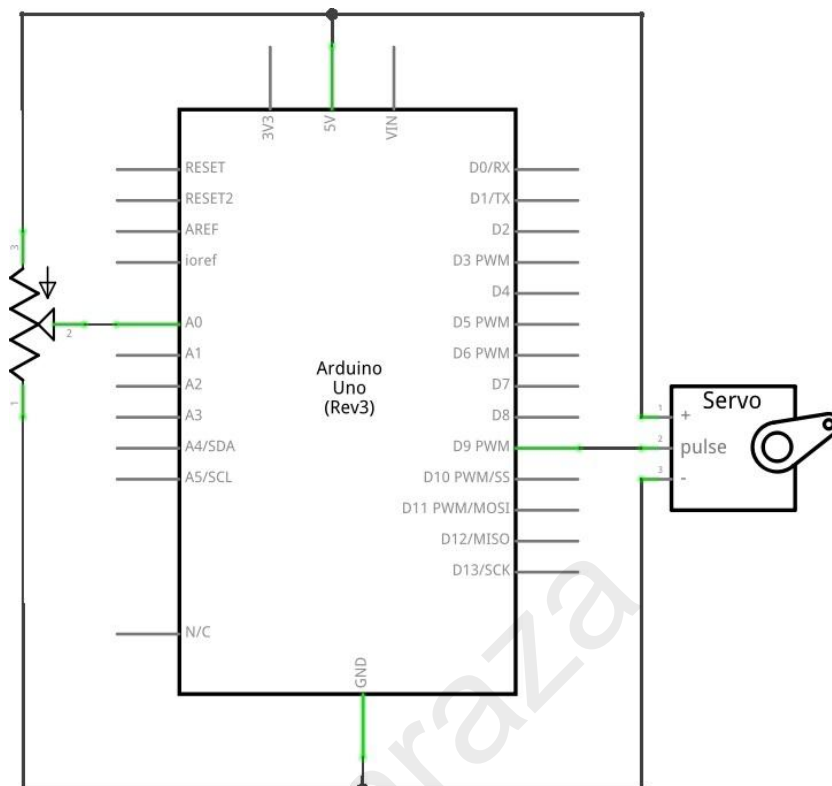
Connection diagram

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);
}
```
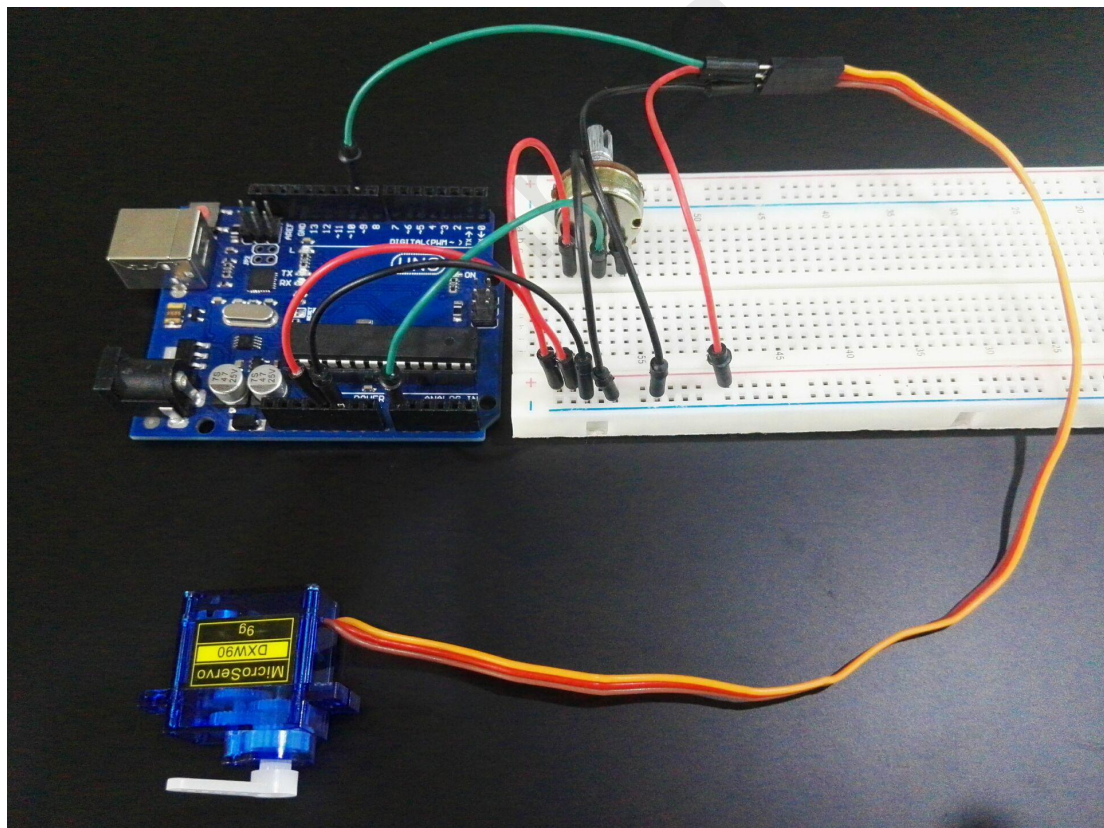
Example picture

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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