

Sweep

Overview




Sweeps the shaft of a RC servo motor back and forth across 180 degrees. This example makes use of the Arduino servo library.

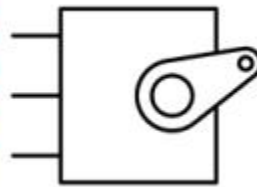
Specification

Please view SG90Servo-datasheet.pdf.




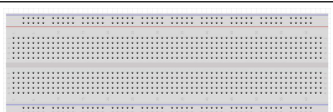

Path: \Public_materials\Datasheet\ SG90Servo-datasheet.pdf

Pin definition

PWM=Orange ()
Vcc = Red (+)
Ground=Brown (-)

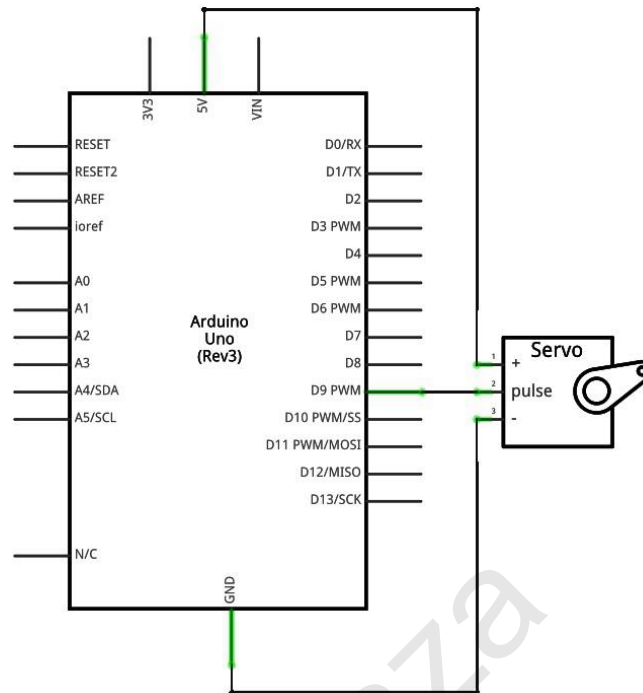


Hardware required

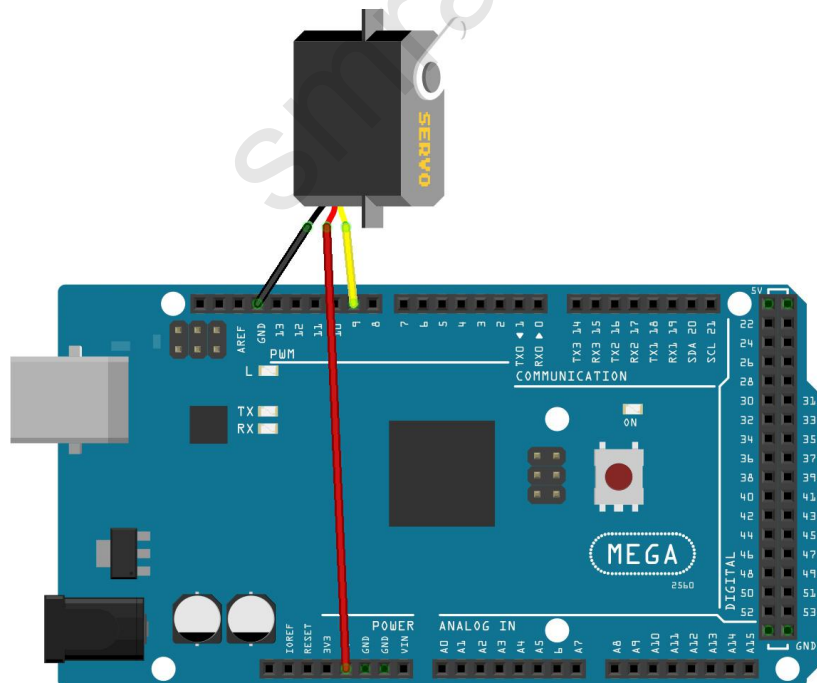
Material diagram	Material name	Number
	9g Servo	1
	USB Cable	1
	MEGA 2560	1
	Breadboard	1
	Jumper wires	Several

Connection

Schematic



Connection diagram



Sample code

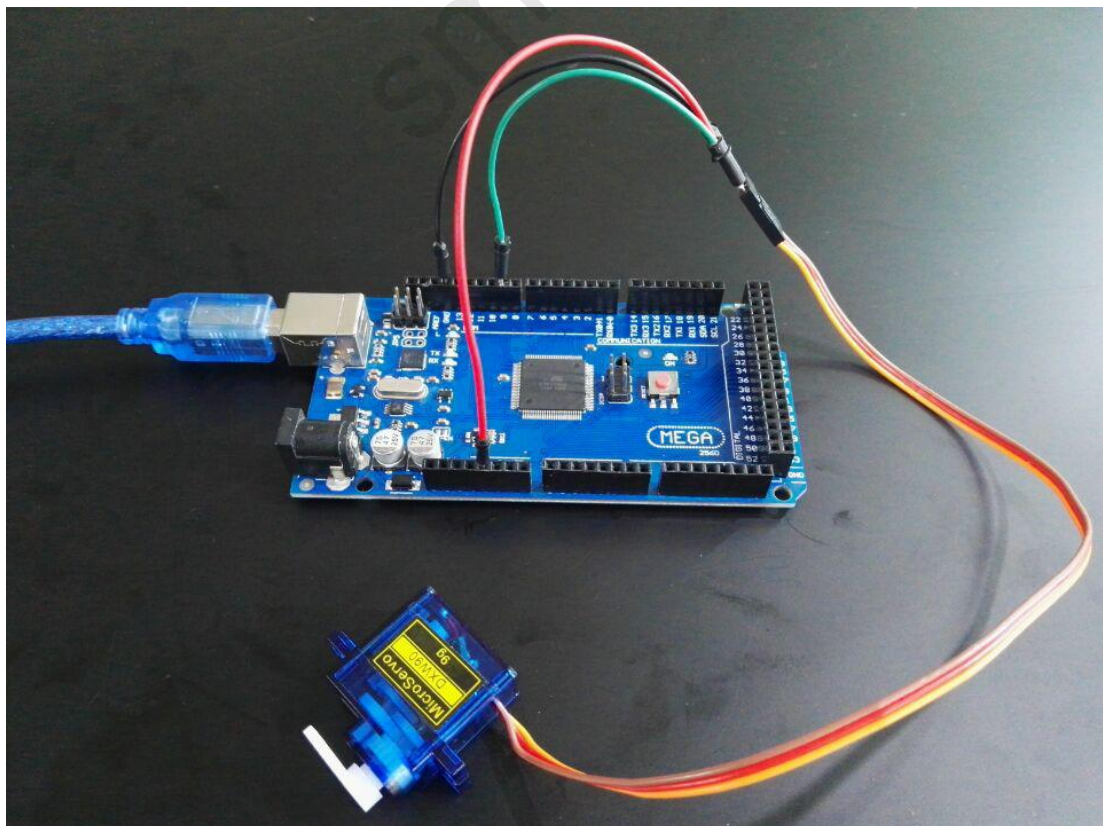
Note: sample code under the **Sample code** folder

```
#include <Servo.h>
Servo myservo; // create servo object to control a servo
// twelve servo objects can be created on most boards
int pos = 0;

void setup() {
    myservo.attach(9); // attaches the servo on pin 9 to the servo object
}

void loop() {
    for (pos = 0; pos <= 180; pos += 1) { // goes from 0 degrees to 180 degrees
        // in steps of 1 degree
        myservo.write(pos);
        delay(15);
    }
    for (pos = 180; pos >= 0; pos -= 1) { // goes from 180 degrees to 0 degrees
        myservo.write(pos);
        delay(15);
    }
}
```

Example picture



Language reference

null

Application effect

You will see the servo motor turning 180 degrees back and forth.

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