

# 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

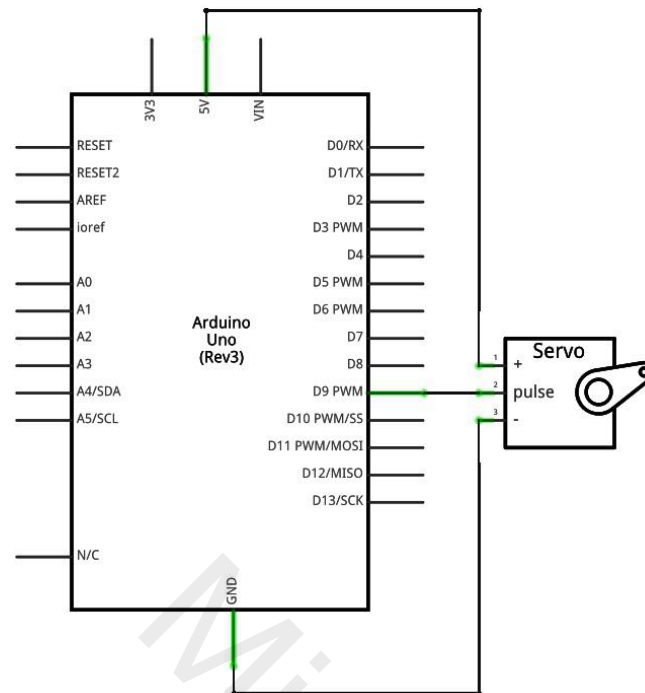


## ★ Hardware required

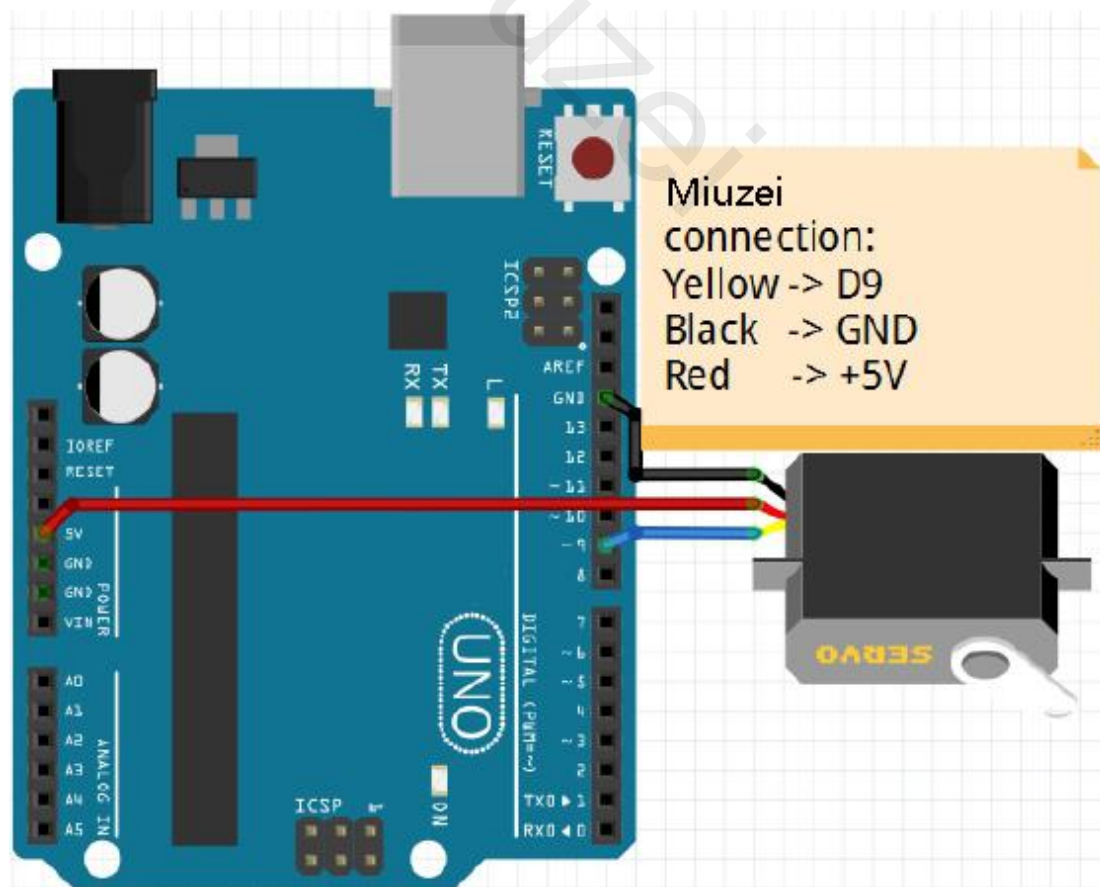
Material diagram	Material name	Number
	9g Servo	1
	USB Cable	1
	UNO R3	1
	Breadboard	1
	Jumper wires	Several

## Connection

### ★ Schematic



### ★ Connection diagram



★ **Sample code**

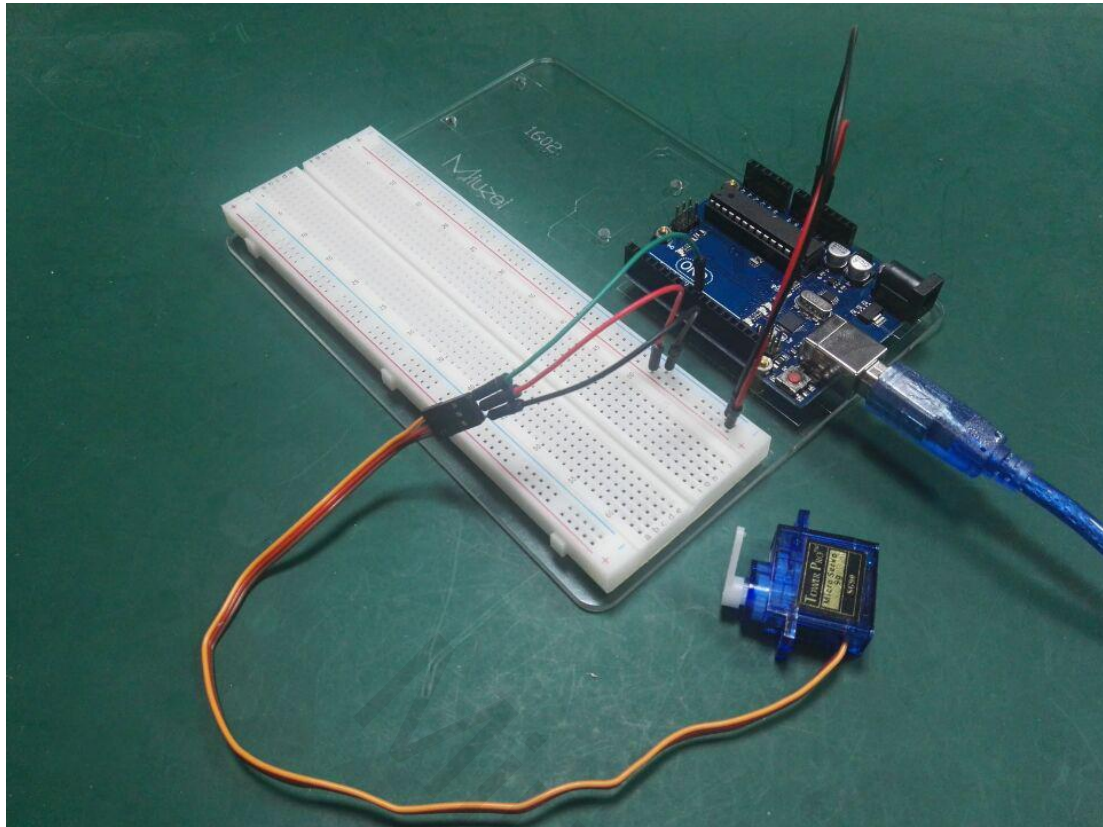
Note: sample code under the **Sample code** folder

```
#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 = 30; pos <= 150; pos += 1) { // goes from 30 degrees to 150 degrees
        // in steps of 1 degree
        myservo.write(pos);
        delay(15);
    }
    for (pos = 150; pos >= 30; pos -= 1) { // goes from 150 degrees to 30 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.

## 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.

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