Sweep

★ Overview

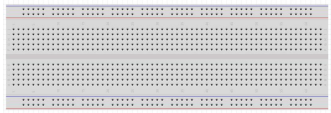
Sweeps the shaft of a RC servo motor back and forth across 180 degrees.
This example makes use of the Arduino servo library.

★ Specification

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

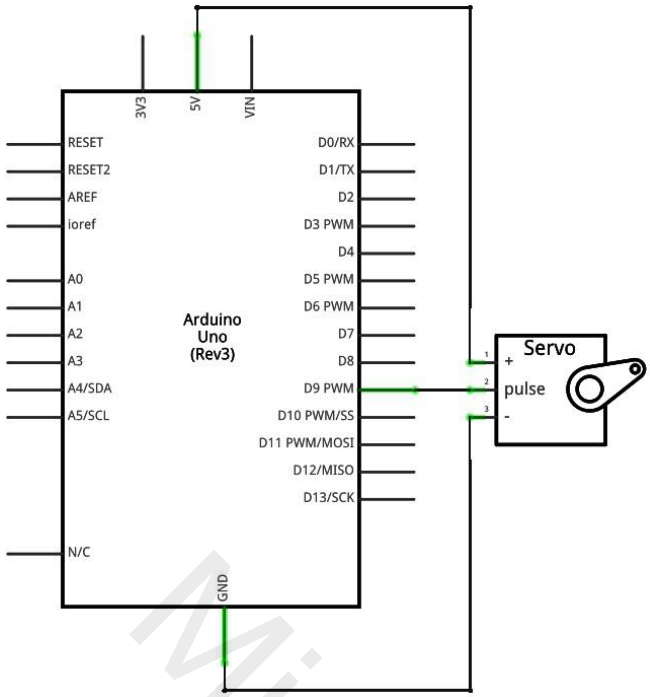
★ Pin definition

★ Hardware required

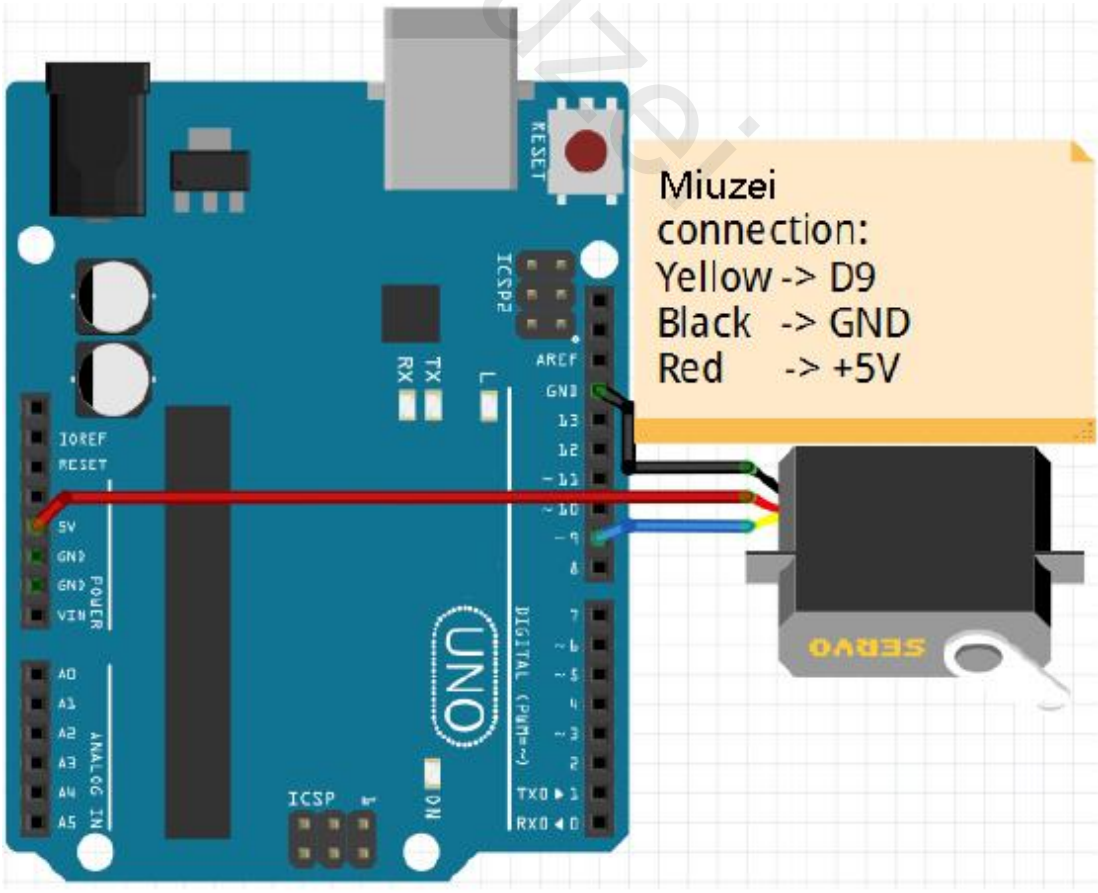
Material diagram	Material name	Number
	9g Servo	1
	USB Cable	1
	UNO R3	1
	Breadboard	1
	Jumper wires	Several

Connection

★ Schematic



★ Connection diagram



★ Sample code

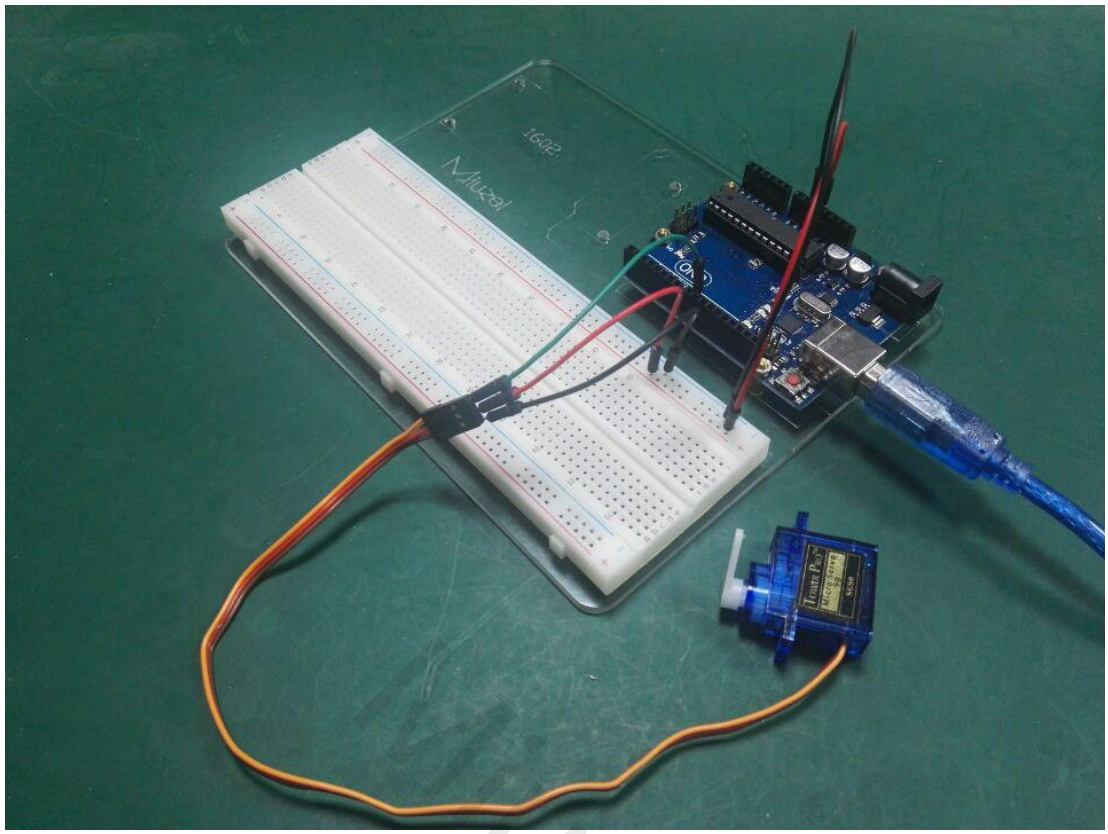
Note: sample code under the **Sample code** folder

```
#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.

Miuzei committed to make more creative open source products and provide richer knowledge for enthusiasts worldwide. No matter what your ideas are, we provide various mechanical parts and electronic modules to turn your ideas into success.

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