

Driving Servo Motors - Kit Version

```
servo.ino
1  /*
2  Exploring Arduino, Second Edition
3  Code Listing 5-1: Servo Potentiometer Control
4  https://www.exploringarduino.com/content2/ch5
5
6  Copyright 2019 Jeremy Blum ( https://www.jeremyblum.com )
7  Licensed under MIT ( https://github.com/sciguy14/Exploring-Arduino-2nd-Edition/blob/master/LICENSE.md )
8 */
9
10 //Servo Potentiometer Control
11 #include <Servo.h>
12
13 const int SERVO = 9; //Servo on Pin 9
14 const int POT   = 0; //POT on Analog Pin 0
15
16 Servo myServo;
17 int val = 0; //For storing the reading from the POT
18
19 void setup()
20 {
21     //Attach the Servo Object
22     myServo.attach(SERVO);
23     Serial.begin(9600);
24 }
25
26 void loop()
27 {
28     val = analogRead(POT);           //Read Pot
29     Serial.print("Potentiometer: ");
30     Serial.print(val);
31     Serial.print(" ") <=> Servo: ";
32     val = map(val, 0, 1023, 0, 179); //scale it to servo range
33     Serial.print(val);
34     Serial.println(")");
35     myServo.write(val);            //sets the servo
36     delay(15);                   //waits for the servo
37 }
```

