

```
/* Sweep
```

```
by BARRAGAN <http://barraganstudio.com>
```

```
This example code is in the public domain.
```

```
modified 8 Nov 2013
```

```
by Scott Fitzgerald
```

```
http://www.arduino.cc/en/Tutorial/Sweep
```

```
*/
```

```
Servo myservo; // create servo object to control a servo
```

```
// twelve servo objects can be created on most boards
```

```
int pos = 0; // variable to store the servo position
```

```
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); // tell servo to go to position in variable 'pos'
```

```
    delay(15); // waits 15ms for the servo to reach the position
```

```
  }
```

```
  for (pos = 180; pos >= 0; pos -= 1) { // goes from 180 degrees to 0 degrees
```

```
    myservo.write(pos); // tell servo to go to position in variable 'pos'
```

```
    delay(15); // waits 15ms for the servo to reach the position
```

```
  }
```

```
}
```