

## Servo Sweep 1 16/6/17

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//The pot changes the sweep speed.
// include the servo library

#include <Servo.h>

Servo myServo; // create a servo object
int potinp = A0;
int servoOut = 8;
int pos = 0;
int sweepSpeed;

void setup() {
  myServo.attach(servoOut); // attaches the pin 8 servo to the servo object
  Serial.begin(9600); // open a serial connection to your computer
}

void loop() {

  for (pos = 0; pos <= 180; pos += 2) {
    myServo.write(pos);
    sweepSpeed = analogRead(potinp);
    sweepSpeed = sweepSpeed/16;
    delay(sweepSpeed);
    Serial.print("pos: ");
    Serial.println(pos);
  }

  for (pos = 180; pos >= 0; pos -= 2) {
    myServo.write(pos);
    sweepSpeed = analogRead(potinp);
    sweepSpeed = sweepSpeed/16;
    delay(sweepSpeed);
    Serial.print("pos: ");
    Serial.println(pos);
  }
}
```

