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File: serv01.ino
Started: 11/11/13
Program Description: Control a servo position using a potentiomet
  Program Source:http://arduino.cc/en/Tutorial/Knob
For servo signal waveforms, see:
http://cornerstonerobotics.org/arduino/Servo%20Signals.pdf
*/
//-----Initializations-----

// The servo library allows an Arduino board to control RC (hobby)
#include <Servo.h>
// Create servo object to control a servo:
Servo  myservo;

int potpin = 0; // Analog pin used to connect the potentiometer
int      val; // Variable to read the value from the analog pin

void setup()
{
  myservo.attach(9); // Attaches the servo on pin 9 to the servo
}
// -----Main Code-----

void loop()
{
  // Reads the value of the potentiometer (value between 0 and 10
  val =analogRead(potpin);
  // Scale it to use it with the servo (value between 0 and 180)
  val =map(val, 0, 1023, 0, 179);
  // Sets the servo position according to the scaled value
  myservo.write(val);
  // Waits for the servo to get there
  delay(15);
}
```