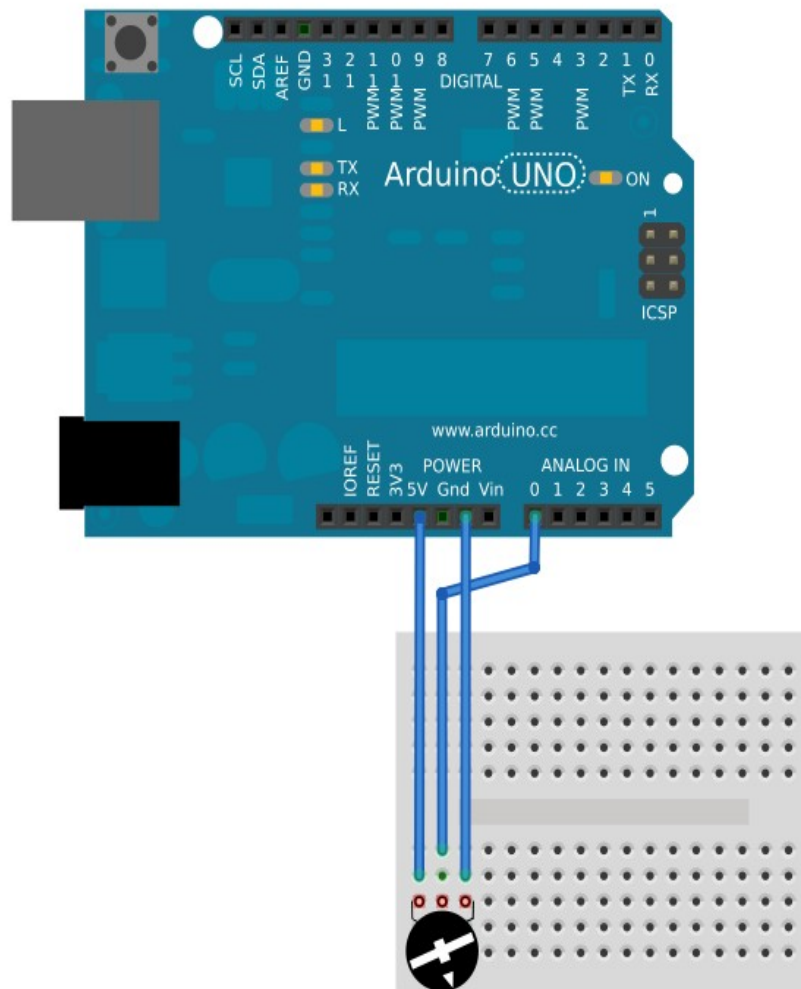


# Knob (Potentiometer)

- use a breadboard for connecting it to your Arduino
- use the *Arduino Serial Monitor* to see the analog input value change when you turn the knob:



## **Sample Code: use with Serial Monitor**

```
/*
  AnalogReadSerial
  Reads an analog input on pin 0, prints the result to the serial monitor.
  Attach the center pin of a potentiometer to pin A0, and the outside pins to +5V and ground.

  This example code is in the public domain.
  */

void setup() {
    // the setup routine runs once when you press reset:
    // initialize serial communication at 9600 bits per second:
    Serial.begin(9600);
}

void loop() {
    // the loop routine runs over and over again forever:
    // read the input on analog pin 0:
    int sensorValue = analogRead(A0);
    // print out the value you read:
    Serial.println(sensorValue);
    delay(1);
    // delay in between reads for stability
}
```

### **Source:**

Arduino IDE – File – Examples – Basics - “Analog Read Serial”

## **Sample Code: LED 13 flashes at speed determined by knob position**

Created by David Cuartielles  
modified 30 Aug 2011  
By Tom Igoe

This example code is in the public domain.

```
*/  
  
int sensorPin = A0;           // select the input pin for the potentiometer  
int ledPin = 13;             // select the pin for the LED  
int sensorValue = 0;         // variable to store the value coming from the sensor  
  
void setup() {  
    pinMode(ledPin, OUTPUT); // declare the ledPin as an OUTPUT:  
}  
  
void loop() {  
    sensorValue = analogRead(sensorPin); // read the value from the sensor:  
    digitalWrite(ledPin, HIGH);         // turn the ledPin on  
    delay(sensorValue);                 // stop the program for <sensorValue> milliseconds:  
    digitalWrite(ledPin, LOW);          // turn the ledPin off:  
    delay(sensorValue);                 // stop the program for for <sensorValue> milliseconds:  
}
```

### **Source:**

<http://arduino.cc/en/Tutorial/AnalogInput>