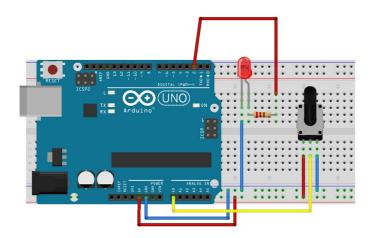
8a. Analog Sensors

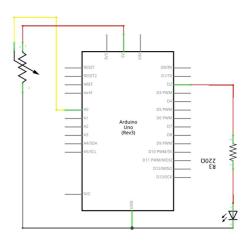
The next sketch & electronics diagram demonstrates analog input by reading an analog sensor as a potentiometer (or trimpot) on analog pin 0 and turning on and off a LED connected to digital pin 2. The amount of time the LED will be on and off depends on the value obtained by analogRead().

Circuit

- potentiometer: center pin of the potentiometer to the analog input 0, one side pin (either one) to ground, the other side pin to +5V
- LED: a 220Ω resister bridges digital output 2 to the anode (long leg) of the LED, the cathode (short leg) attached to ground.

Actually the resistor can also go in between the cathode and ground as in a series circuit the order of components does not matter as the current has to pass through all the parts!





Code

```
digitalWrite(ledPin, HIGH);
// stop the program for <sensorValue> milliseconds:
delay(sensorValue);
// turn the ledPin off:
digitalWrite(ledPin, LOW);
// stop the program for for <sensorValue> milliseconds:
delay(sensorValue);
}
```