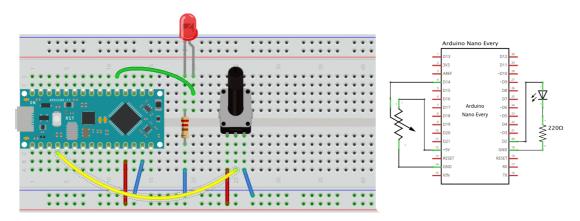
## 8a. Analog Sensors (for Nano Every)

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

```
int sensorPin = A0; // select the input pin for the potentiometer
void setup() {
  // declare the ledPin as an OUTPUT
 pinMode(ledPin, OUTPUT);
  // there is no need to set our analog in pin
void loop() {
 // read the value from the sensor:
 sensorValue = analogRead(sensorPin);
   / turn the ledPin on
 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);
}
```