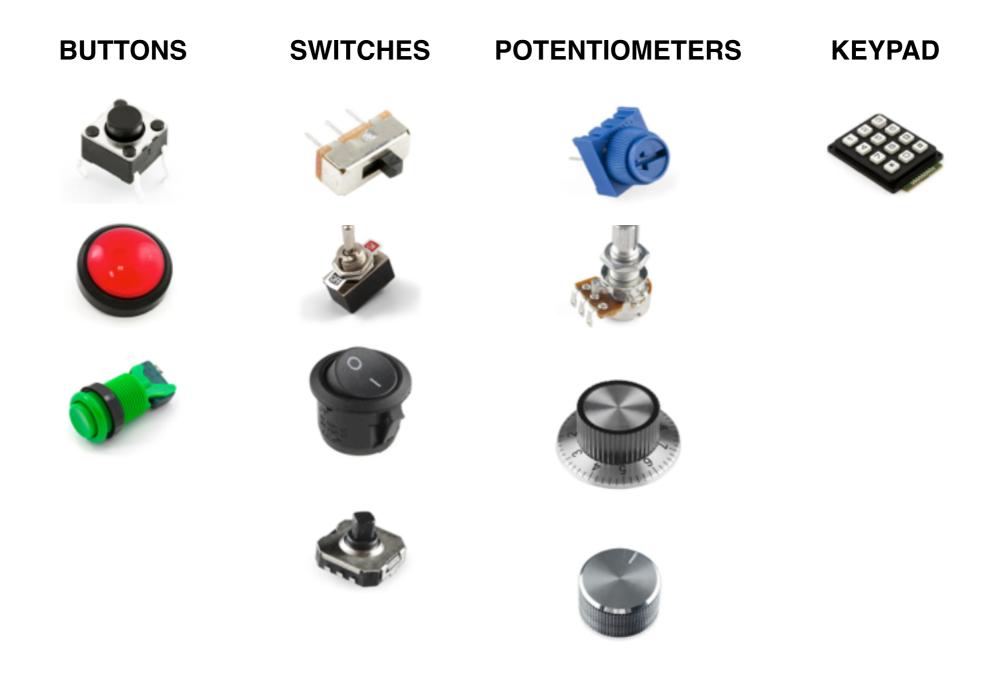
HECK YEA, IT'S CCLAB!

If you haven't added your repolink to the form I sent, please do it now.

How'd the homework go?

Arduino INPUTS



























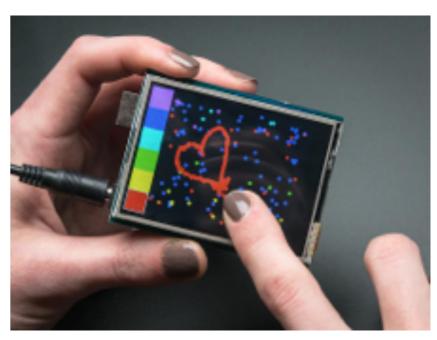
GAME CONTROLLERS



TOUCHSCREEN

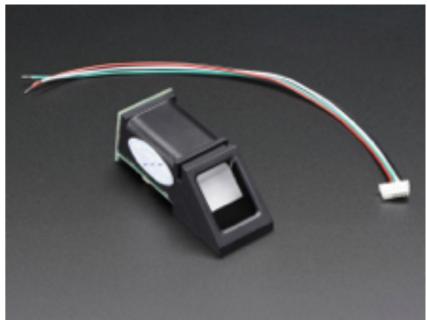












LIQUID LEVELS

LIQUID FLOW METERS

FINGERPRINT

DIGITAL





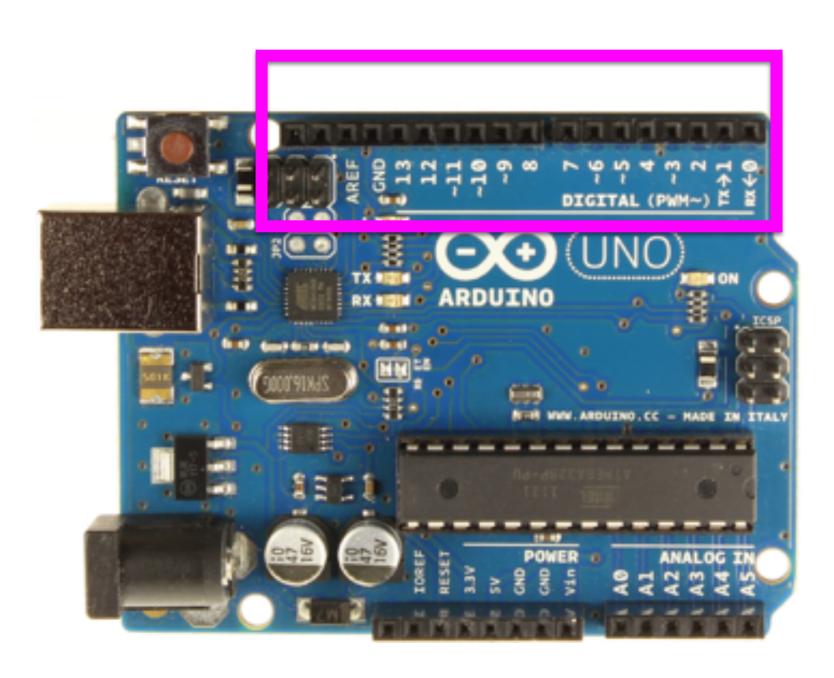


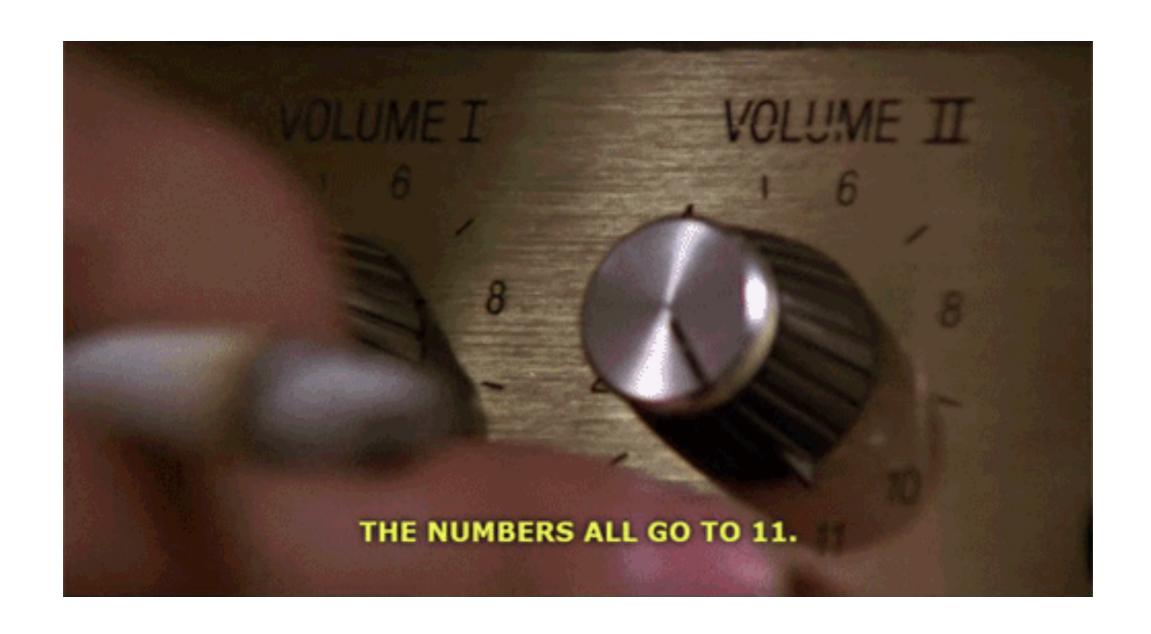






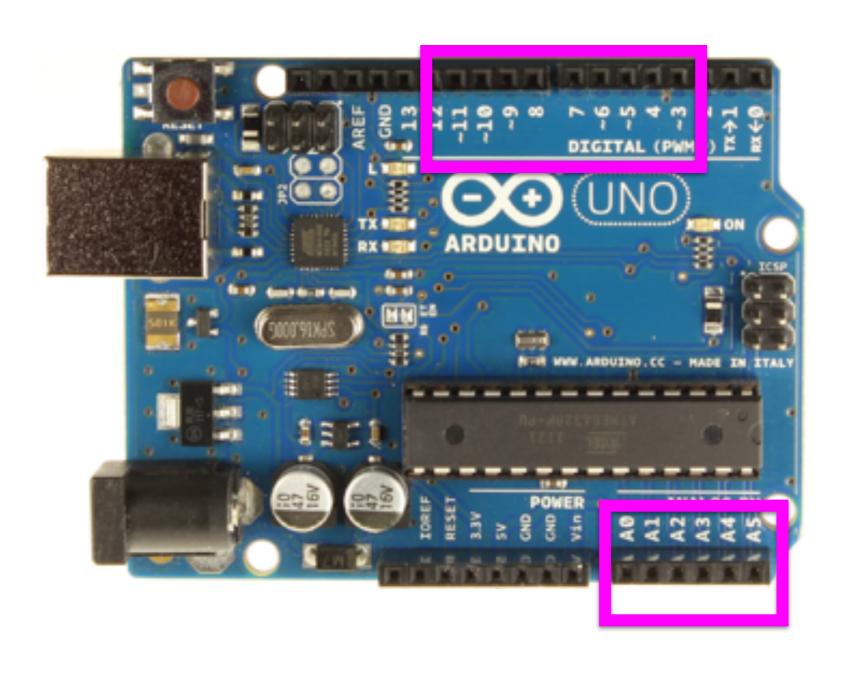
INPUTS: DIGITAL





ANALOG

INPUTS: ANALOG



MOD LIGHTING

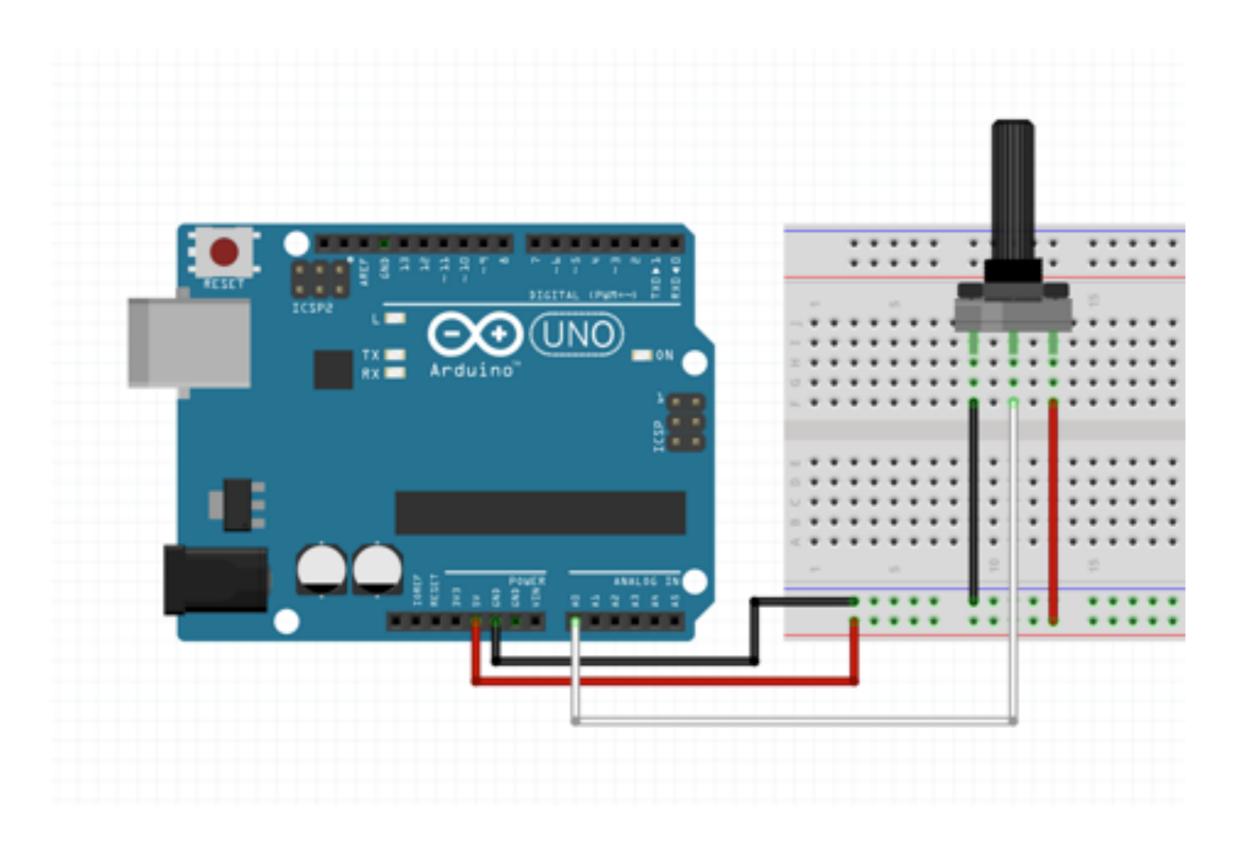


Open up the Analog Read Serial sketch.

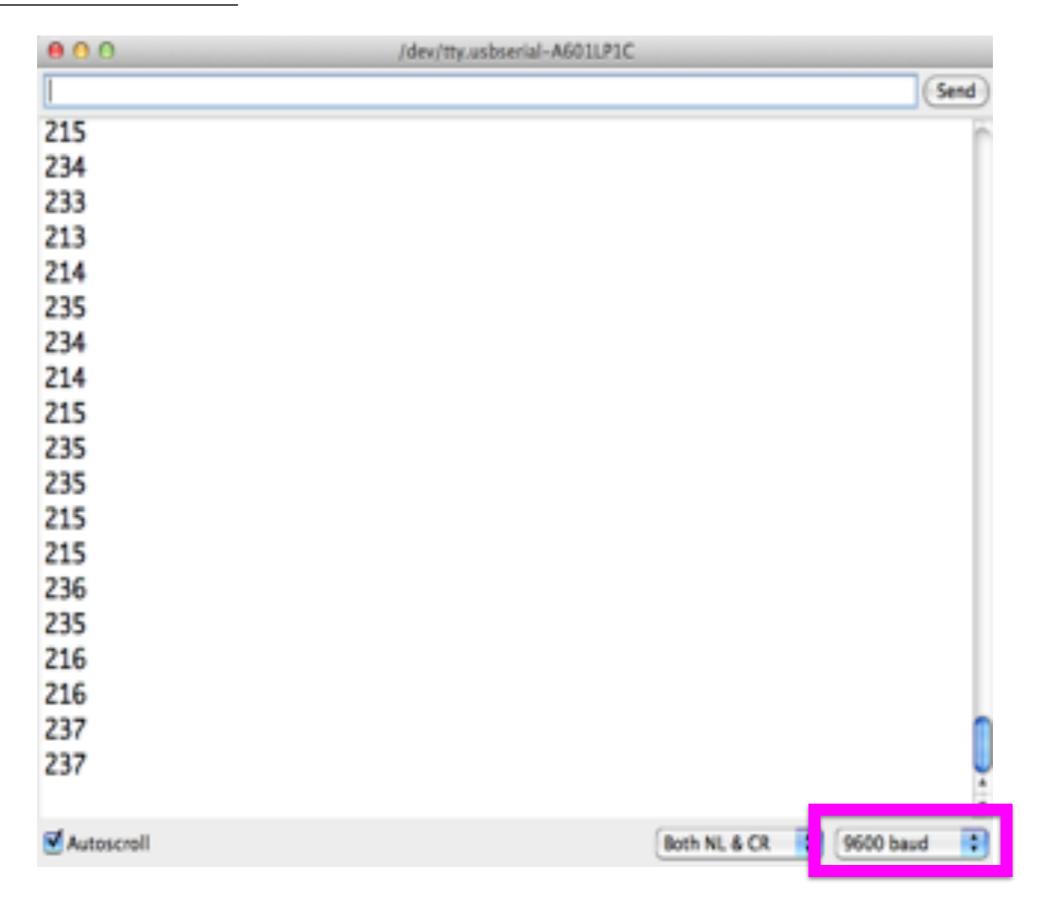
(FILE > EXAMPLES > BASICS > Analog Read Serial)

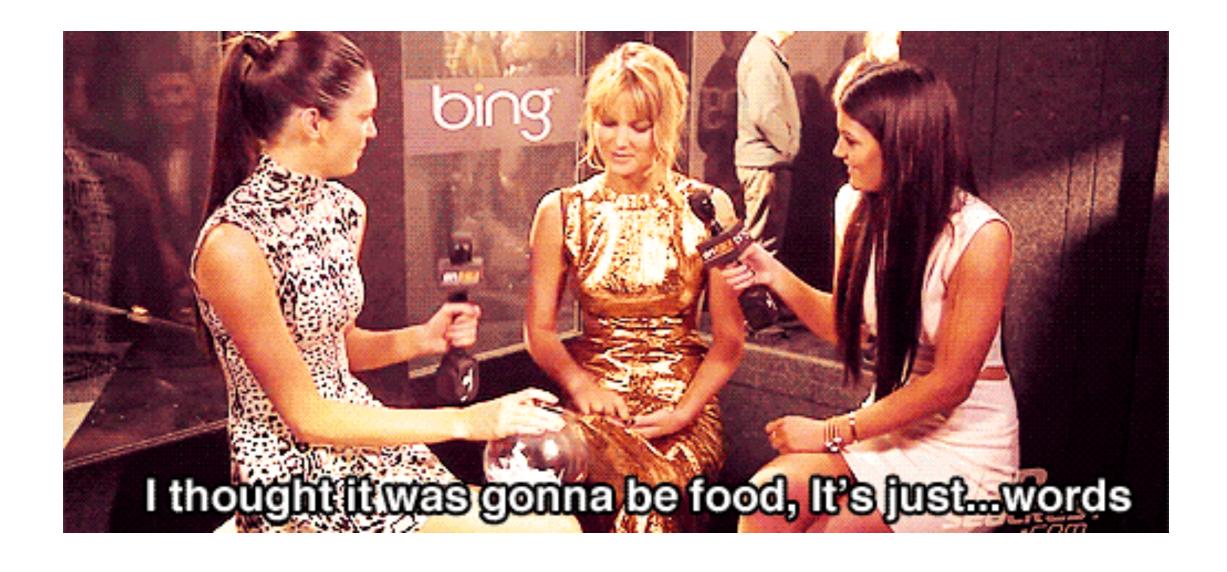
```
void setup() {
  // initialize serial communication at 9600 bits per second:
  Serial.begin(9600);
// the loop routine runs over and over again forever:
void loop() {
 // read the input on analog pin 0:
 int sensorValue = analogRead(A0);
  // print out the value you read:
  Serial.println(sensorValue);
  delay(1);  // delay in between reads for stability
```

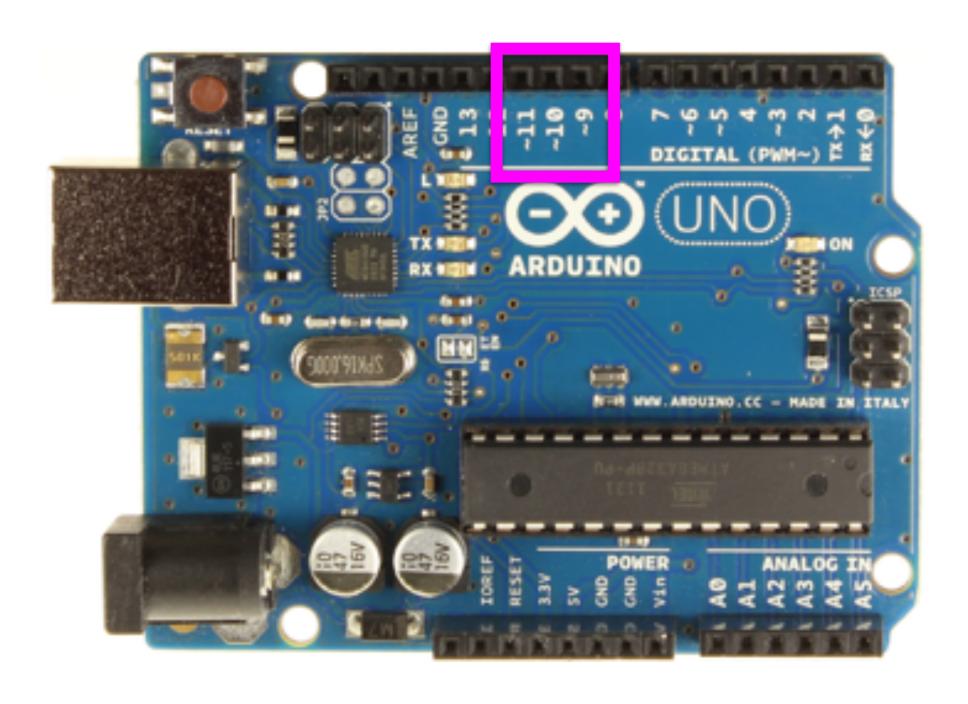
```
void setup() {
 // initialize serial communication at 9600 bits per second:
 Serial.begin(9600);
// the loop routine runs over and over again forever:
void loop() {
  // read the input on analog pin 0:
  int sensorValue = analogRead(A0);
  // print out the value you read:
 Serial.println(sensorValue);
  delay(1); // delay in between reads for stability
```



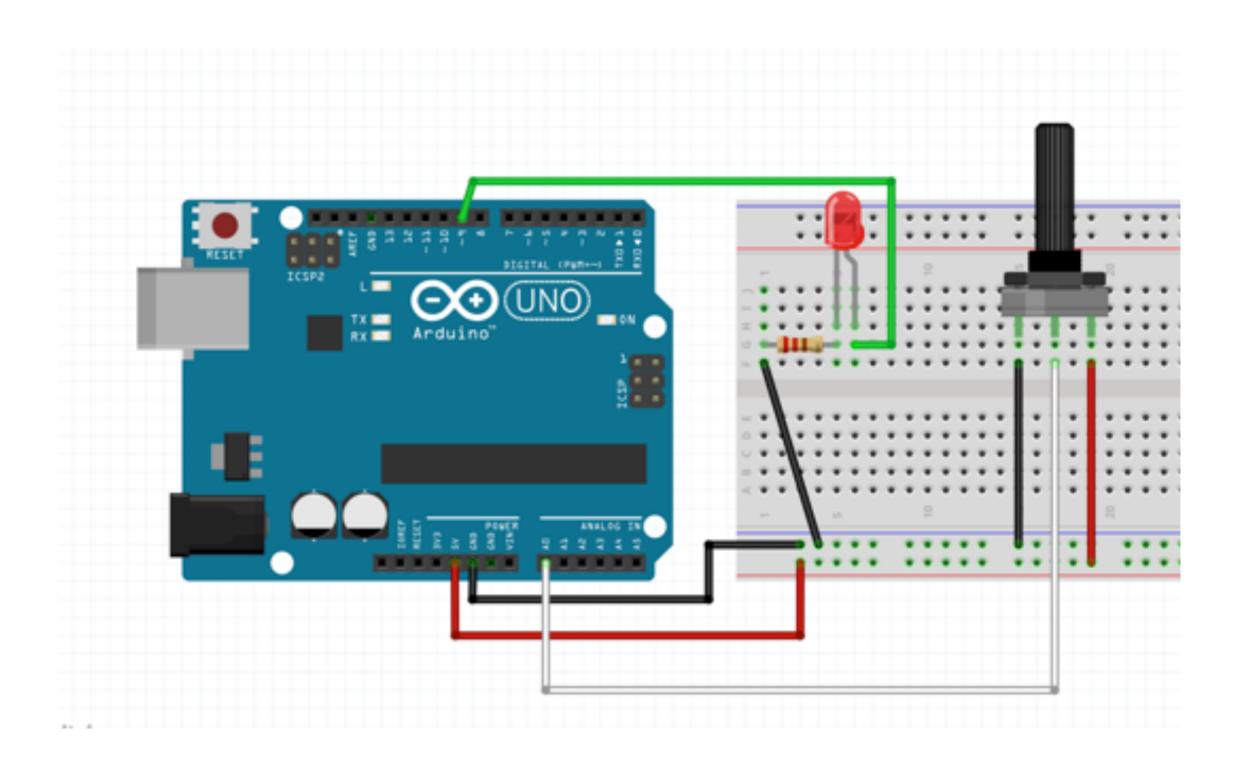




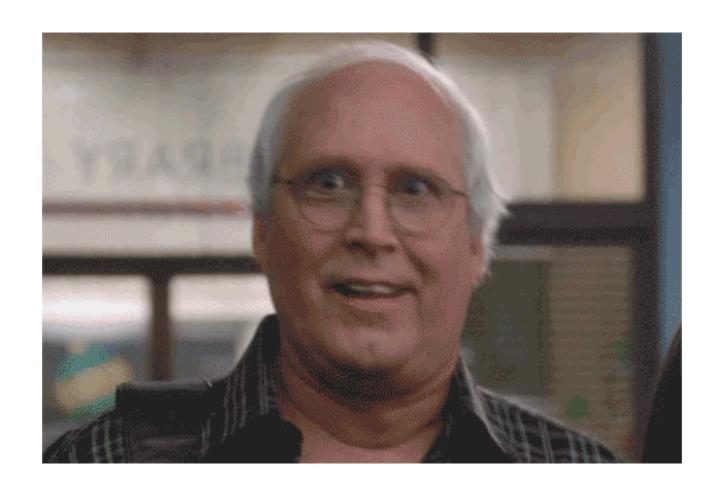




```
//use pin 9 because it can write analog values
int ledPin = 9;
void setup() {
  // initialize serial communication at 9600 bits per second:
 Serial heain(9600).
  //set up the pin as an output
  pinMode(ledPin, OUTPUT);
// the loop routine runs over and over again forever:
void loop() {
  // read the input on analog pin 0:
  int sensorValue = analogRead(A0);
  // print out the value you read:
  Sonial println/concomialuo);
 analogWrite(ledPin, 255);
             // detay in between reads for stability
  derdy(1);
```

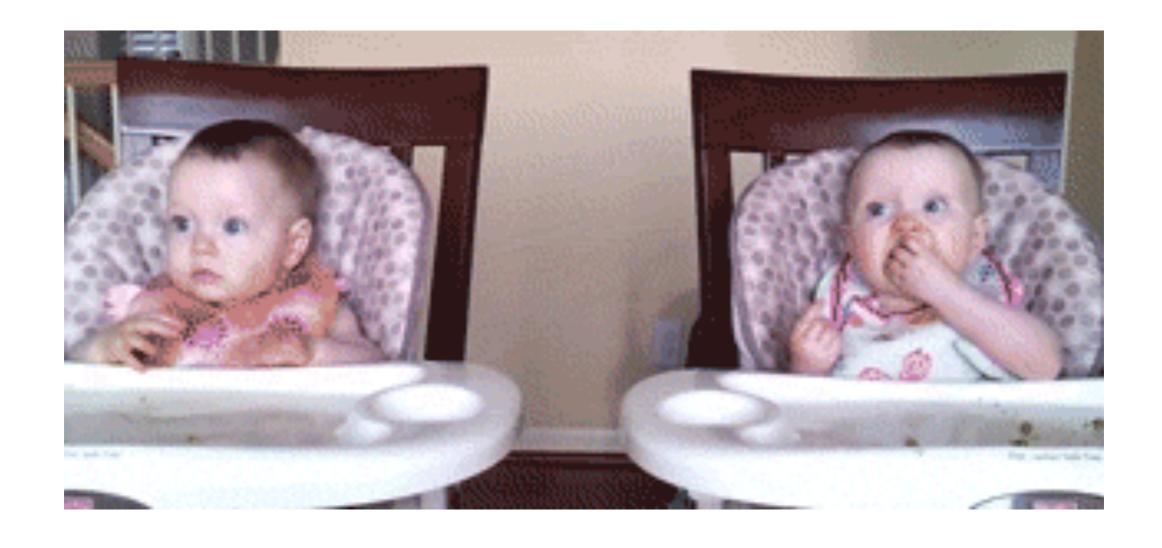


RUN IT!

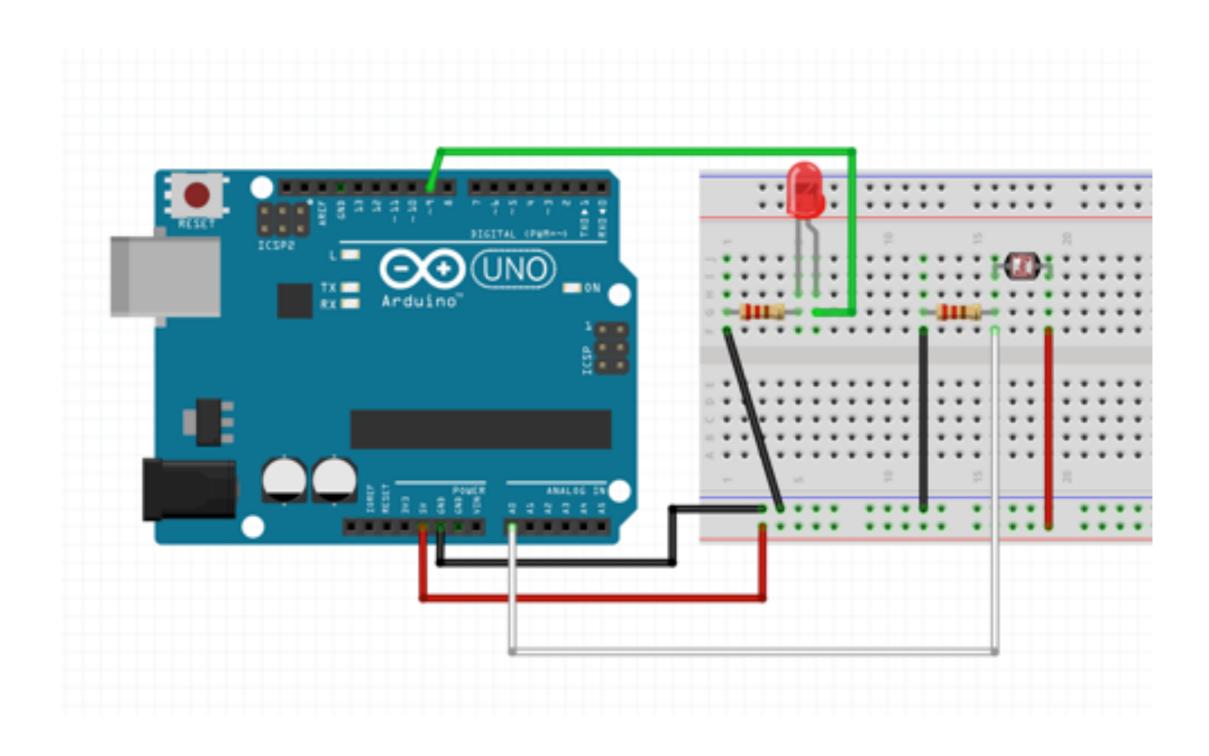


```
int ledPin = 9:
int brightness = 0;
void setup() {
  // initialize serial communication at 9600 bits per second:
  Serial.begin(9600);
  //set up the pin as an output
  pinMode(ledPin, OUTPUT);
// the loop routine runs over and over again forever:
void loop() {
  // read the input on analog pin 0:
  int sensorValue = analogRead(A0);
  // print out the value you read:
  Serial println(sensorValue)
  //make the value of the brightness be between 0 and 255
  brightness = map(sensorValue, 0, 1024, 0, 255);
  77Set your pin originals of the originaless value
  analogWrite(ledPin, brightness)
  delay(1);
                   // delay in between reads for stability
```

RUN IT!

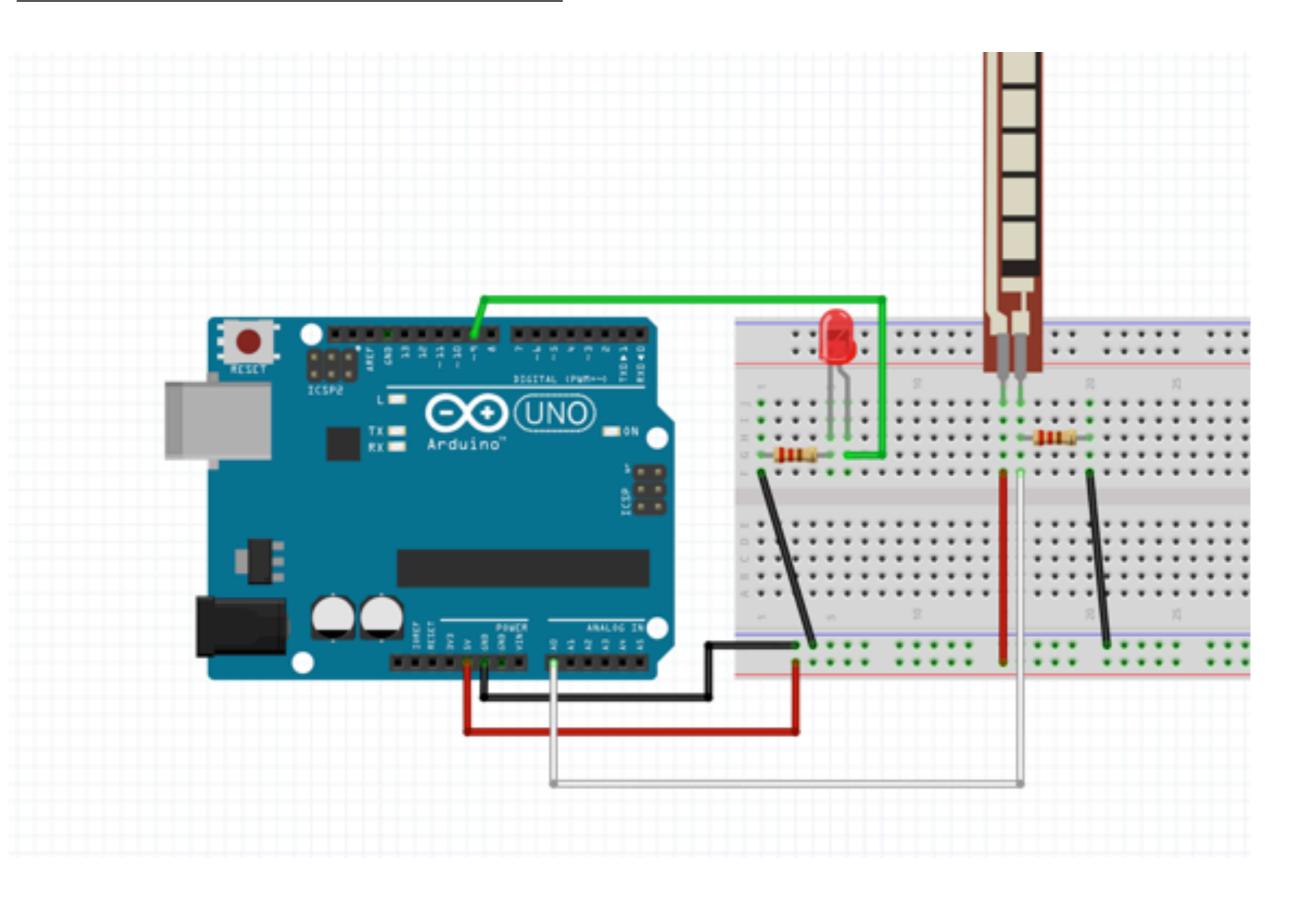


LEDS + PHOTOCELL

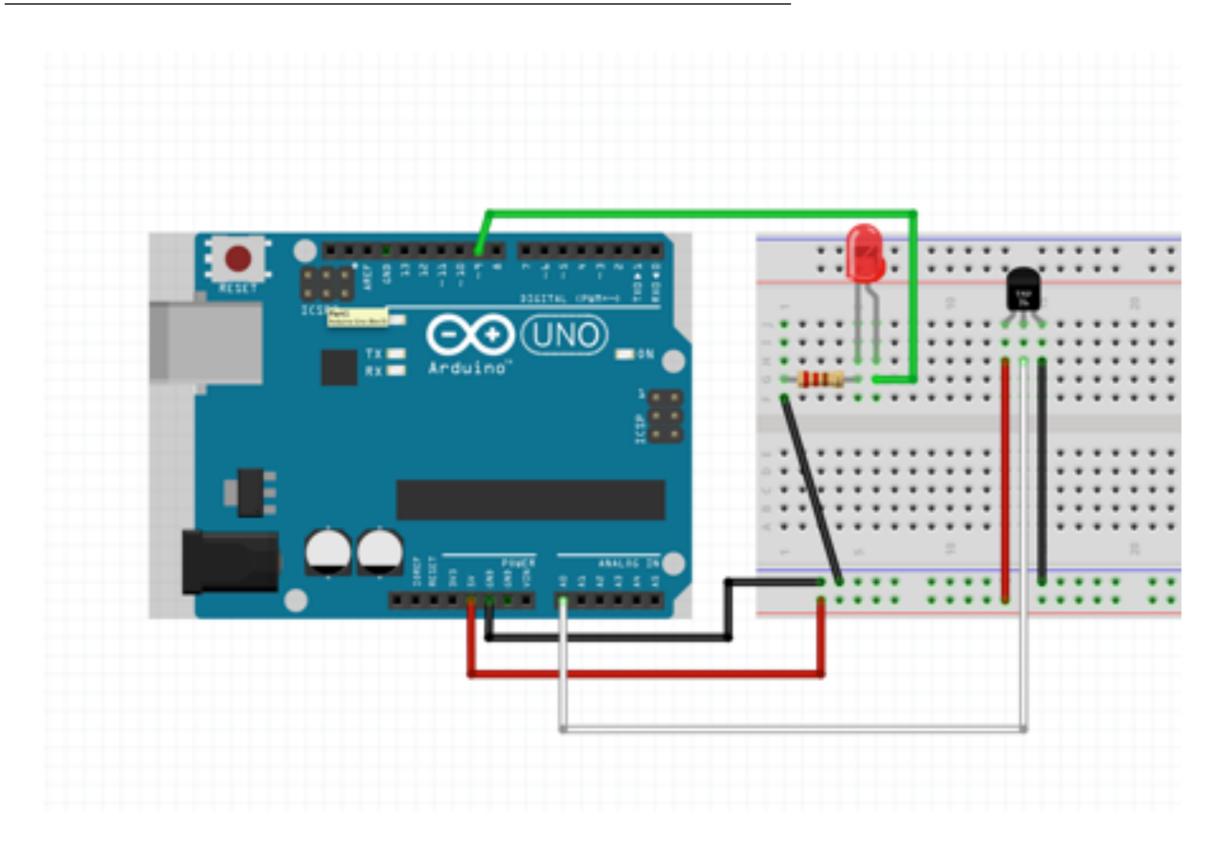


```
int ledPin = 9;
int brightness - 0:
int sensorLow = 0;
int sensorHigh = 15;
void setup() {
  // initialize serial communication at 9600 bits per second:
  Serial.begin(9600);
  //set up the pin as an output
  pinMode(ledPin, OUTPUT);
// the loop routine runs over and over again forever:
void loop() {
  // read the input on analog pin 0:
  int sensorValue = analogRead(A0);
  // print out the value you read:
  Serial.println(sensorValue);
  //make the value of the brightness be between a and
  brightness = map(sensorValue, sensorLow, sensorHigh, 0, 255);
  //set your pin brightness to
  analogWrite(ledPin, brightness);
  delay(300);
                     // delay in between reads for stability
}
```

LEDS + FLEX SENSOR



LEDS + TEMPERATURE SENSOR



SOLDERING



Here's your Homework

Get the class code up and running. Then, try it with a sensor we didn't cover in class. Take a five second video and push it to your git.

Homework

Take the project we did in class today and solder it.

NOTE: You can use any analog sensor you want.

Connecting an LED

Bring it to class. (I want to see a demo!)