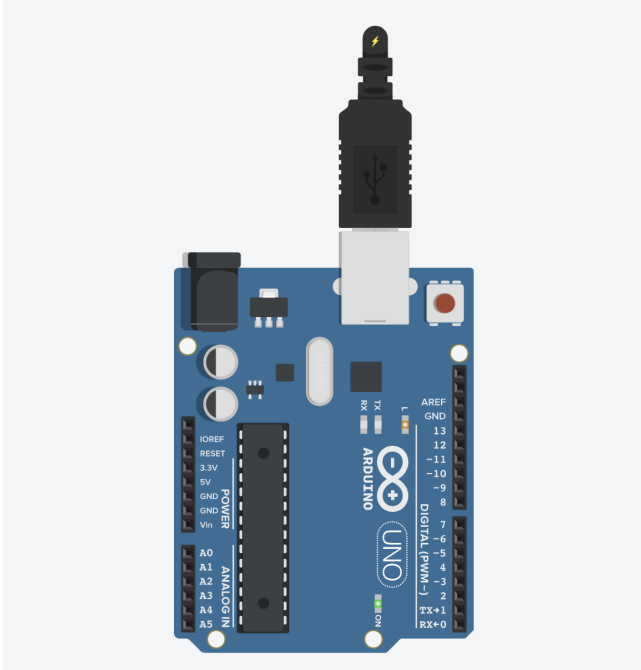


# 1. Blink Built-In LED

**The Circuit:** Just plug in your Arduino to your computer. No breadboard for this one.



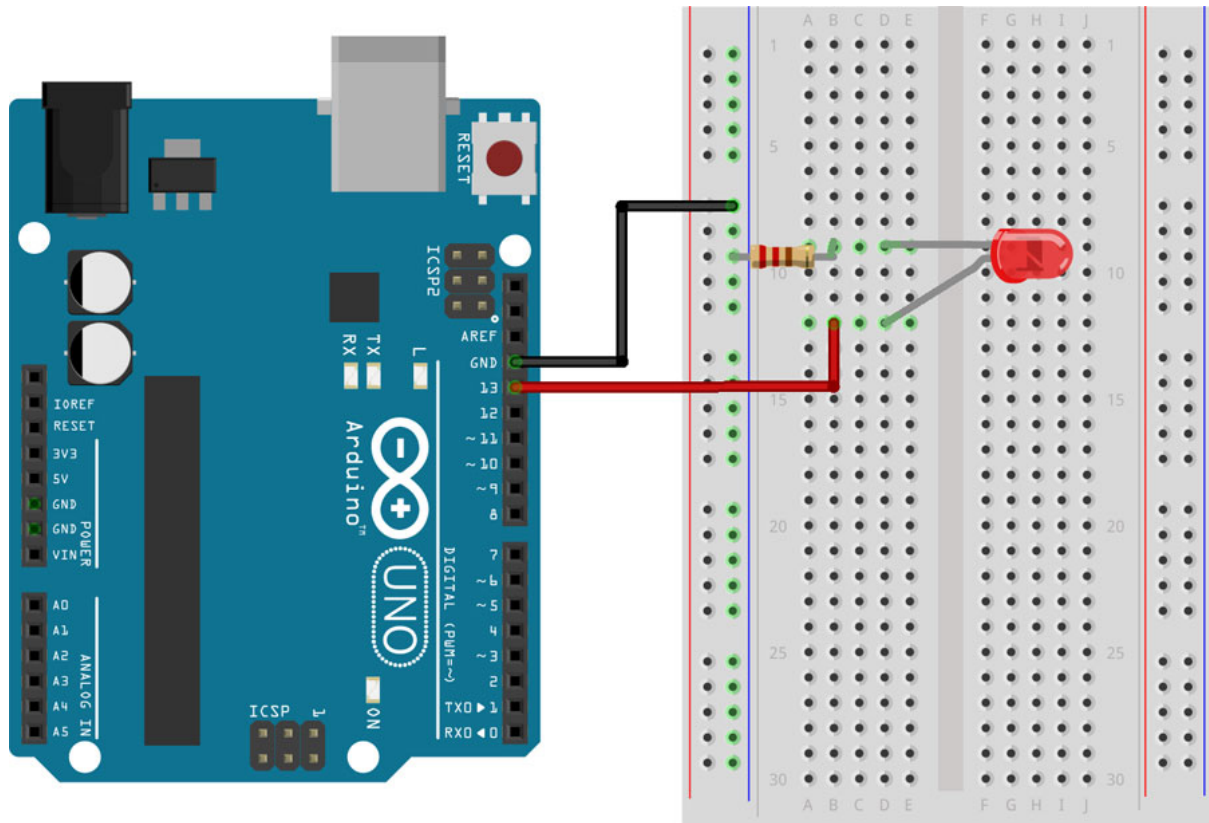
**The Code:** You can load this code by clicking:  
Select File → Examples → 01. Basics → Blink

```
// the setup function runs once when you press reset or power the board
void setup() {
  // initialize digital pin LED_BUILTIN as an output.
  pinMode(LED_BUILTIN, OUTPUT);
}

// the loop function runs over and over again forever
void loop() {
  digitalWrite(LED_BUILTIN, HIGH); // turn the LED on (HIGH is the voltage level)
  delay(1000); // wait for a second
  digitalWrite(LED_BUILTIN, LOW); // turn the LED off by making the voltage LOW
  delay(1000); // wait for a second
}
```

## 2. Blink External Light

The Circuit:



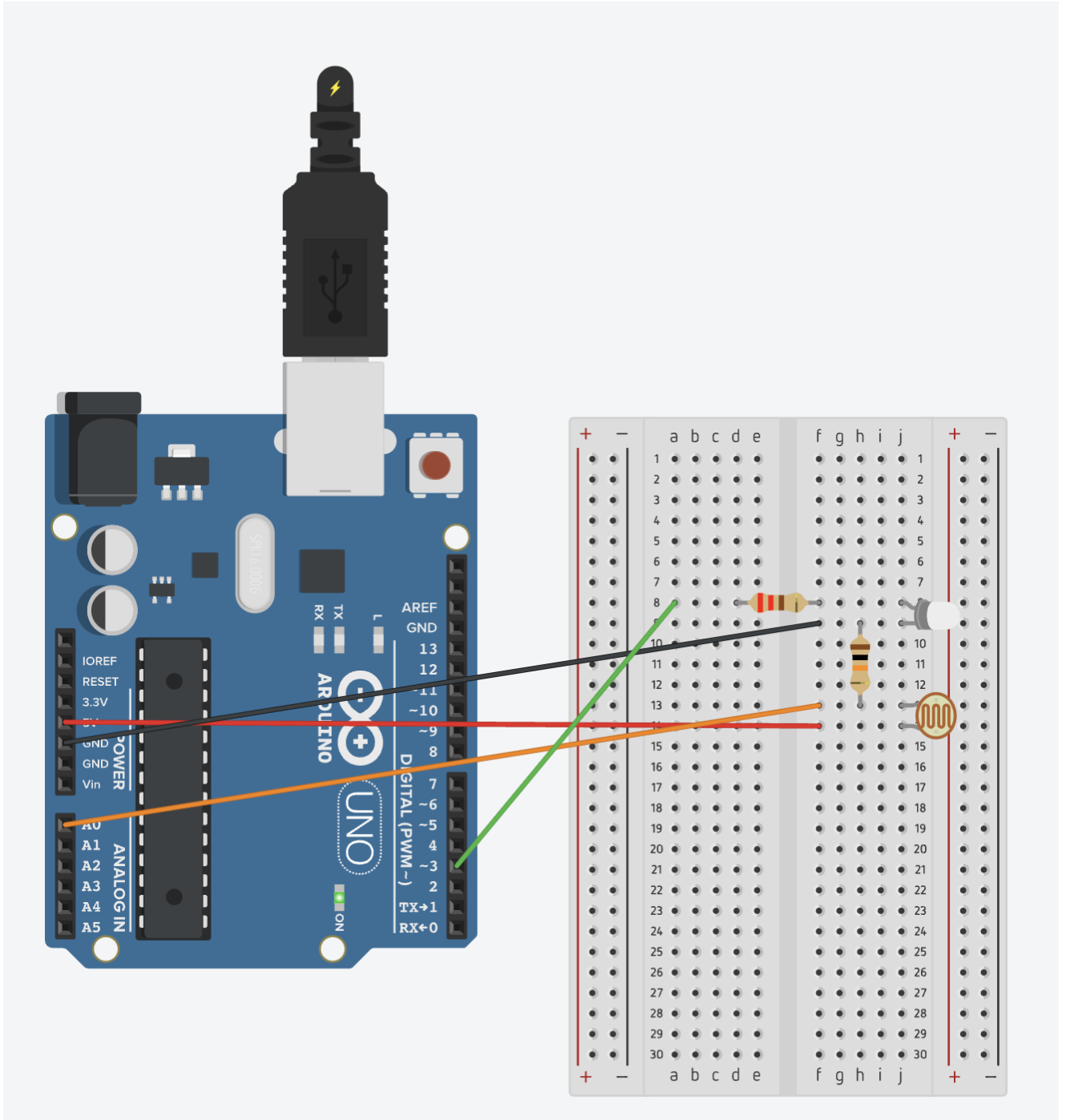
The Code: (Same As Before)

```
// the setup function runs once when you press reset or power the board
void setup() {
  // initialize digital pin LED_BUILTIN as an output.
  pinMode(LED_BUILTIN, OUTPUT);
}

// the loop function runs over and over again forever
void loop() {
  digitalWrite(LED_BUILTIN, HIGH); // turn the LED on (HIGH is the voltage level)
  delay(1000); // wait for a second
  digitalWrite(LED_BUILTIN, LOW); // turn the LED off by making the voltage LOW
  delay(1000); // wait for a second
}
```

# 3.Night Light

## The Circuit



**The Code:** (You will have to copy and paste this into your IDE)

```
void setup() {
  Serial.begin(9600);
  pinMode(3, OUTPUT);
}

void loop() {
  int sensorValue = analogRead(A0);
  if (sensorValue < 50) { // To change the point at which the light turns on change
this value.
    digitalWrite(3, HIGH);
  }
  else {
    digitalWrite(3,LOW);
  }
  // print out the state of the light sensor:
  Serial.println(sensorValue);
  delay(1);      // delay in between reads for stability
}
}
```