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J-essicaax

3D Designs

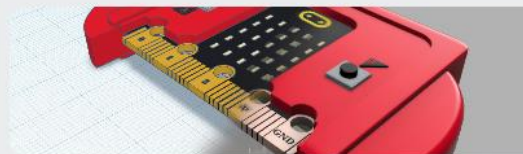
Circuits

Codeblocks

Lessons

Your Classes

Collections



Educators: If you've ever heard "This is cool! What's next?" while teaching with Tinkercad, here's how to guide your students to the next step when they're ready for professional - grade tools. [Learn more](#)



## Circuits

Create new Circuit

☒ Select



Code



Start Simulation

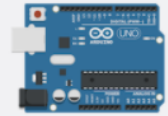
Send To



Components  
Basic



arduino



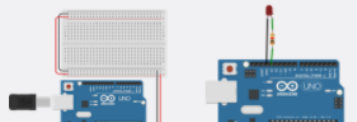
Arduino Uno R3

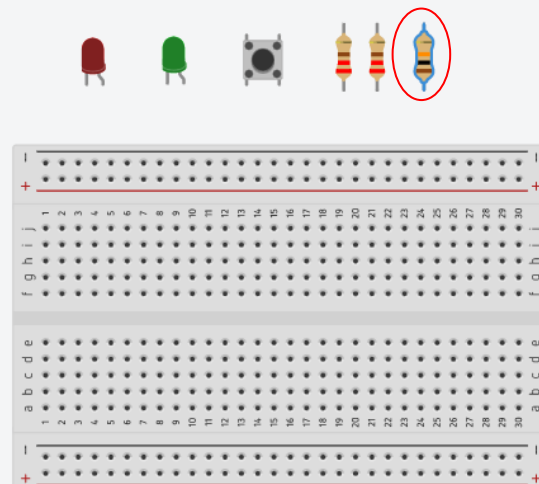
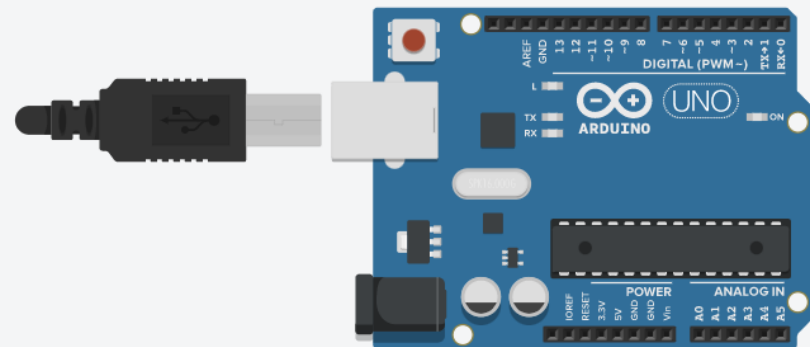
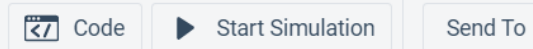
Other Components



ATtiny

Starters





Resistor

Name

3

Resistance

10

kΩ

pΩ

nΩ

μΩ

mΩ

Ω

kΩ

MΩ

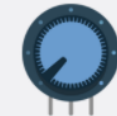
GΩ

Components  
Basic

resistor



Resistor

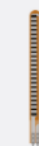


Potentiometer



Photoresistor

Other Components



Flex Sensor



Force Sensor



# Traffic Light System

All changes saved



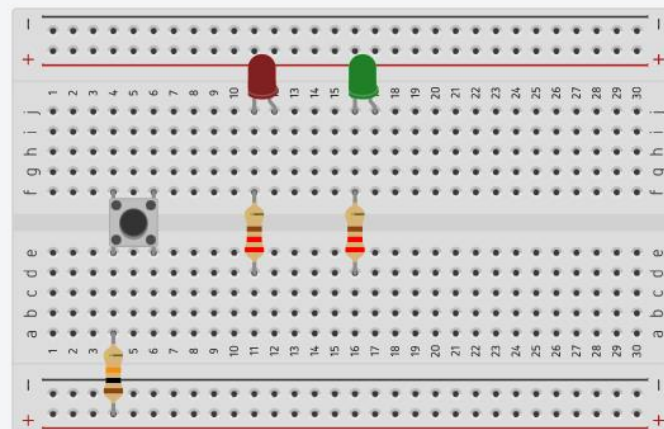
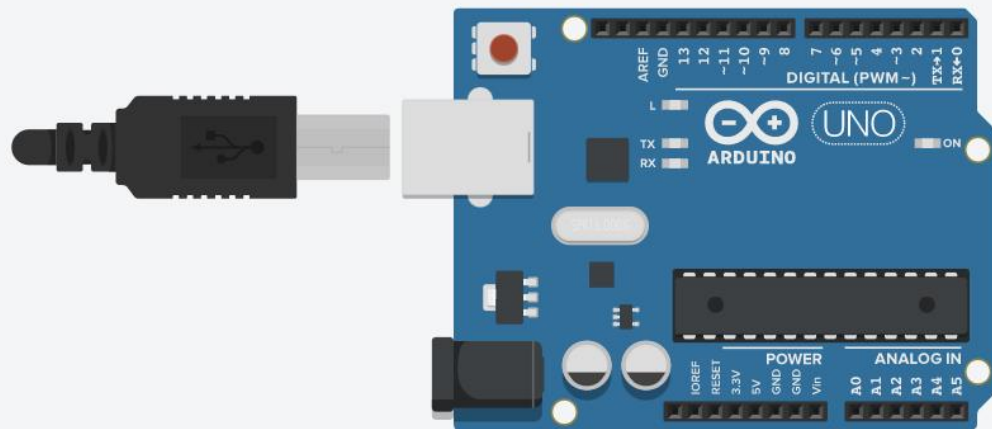
Code



Start Simulation



Send To



Components  
Basic

resistor



Resistor

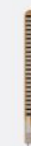


Potentiometer



Photoresistor

Other Components



Flex Sensor



Force Sensor



Code

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Components  
Basic

Search



Resistor



LED



Pushbutton



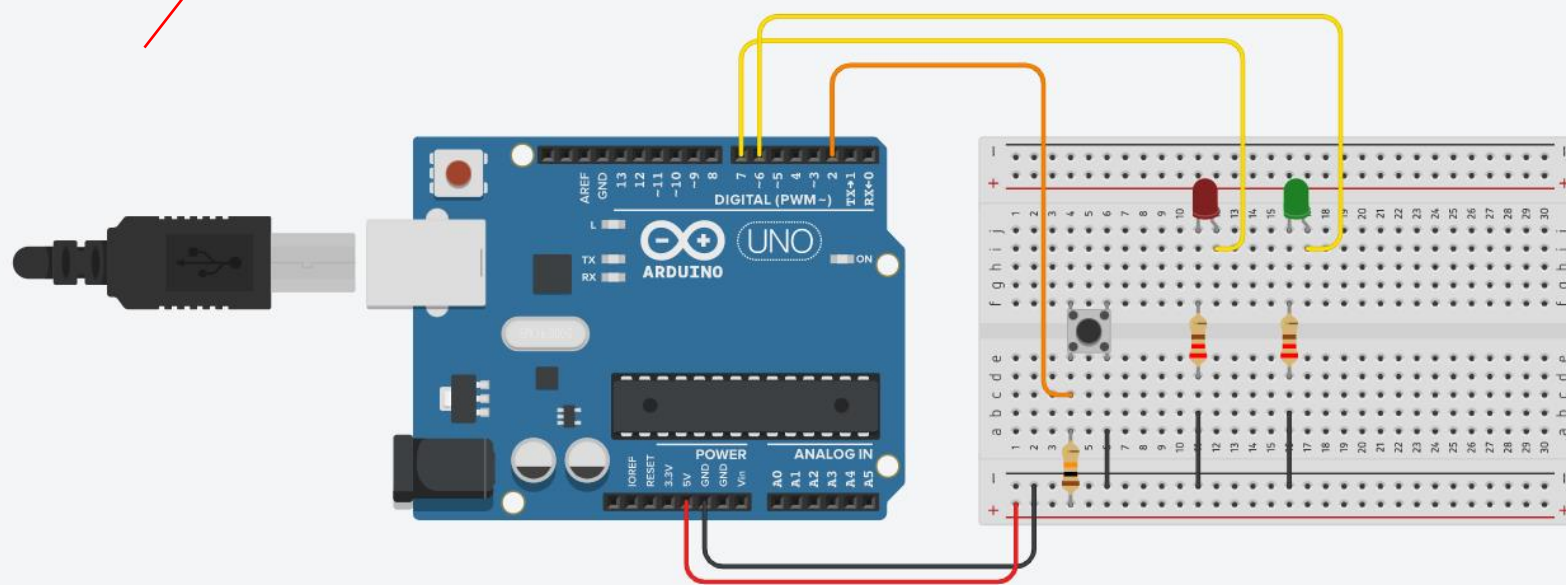
Potentiometer

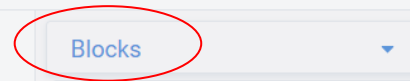
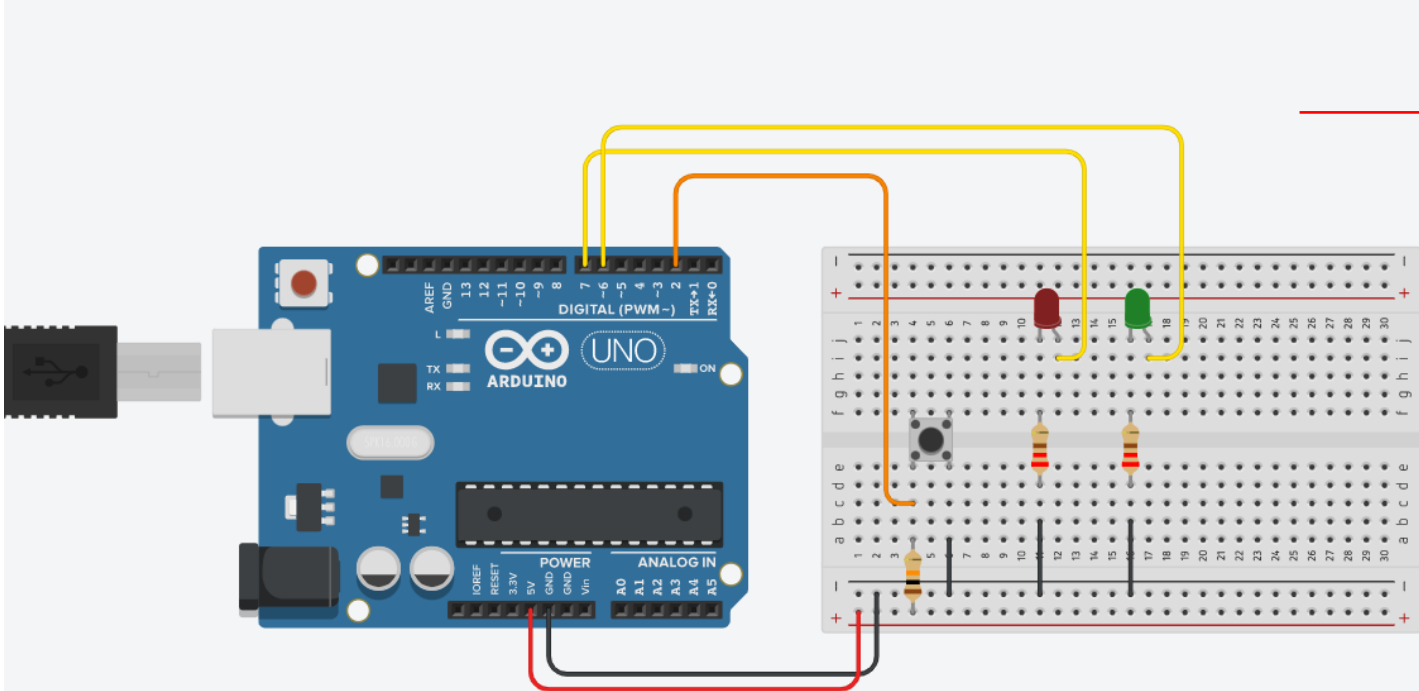
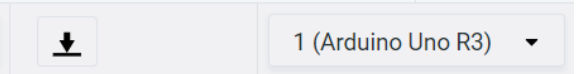
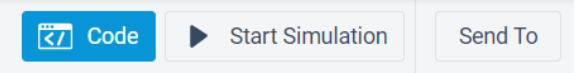


Capacitor

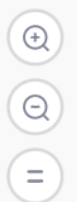
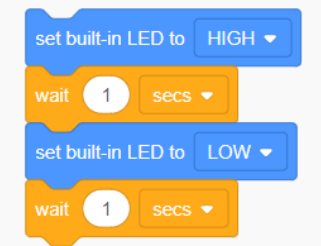


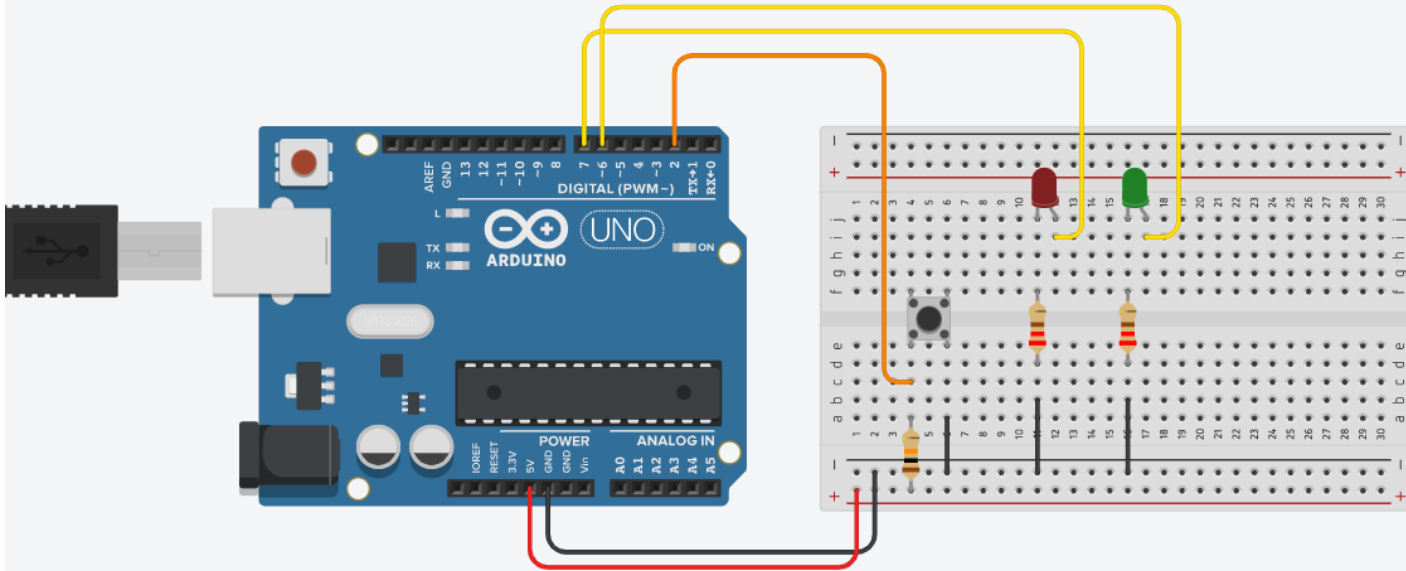
Slideswitch





- Blocks
  - Blocks + Text
  - Text
- set built-in LED to HIGH  
 set pin 0 to HIGH  
 set pin 3 to 0  
 rotate servo on pin 0 to 0 degree  
 play speaker on pin 0 with tone 60  
 turn off speaker on pin 0  
 print to serial monitor hello world with  
 set RGB LED in pins 3 3 3





Text



1 (Arduino Uno R3)

```
1 // Pedestrian Crossing Simulation
2 // RedLED - D7 (1: ON, 0: OFF)
3 // GreenLED - D6 (1: ON, 0: OFF)
4 // PB - D2 (OPEN: 1, CLOSED: 0)
5 //
6 // Steven Chew
7 // Date: 2022-01-21
8 //
9
10 // Declare LED, PB pins
11 #define rled 7
12 #define gled 6
13 #define pb 2
14
15 // Declare variables
16 const int rDelay = 5000; // 5s delay after PB pressed
17 const int gDelay = 6000; // Green man for 6s
18
19 void setup()
20 {
21   pinMode(rled, OUTPUT); // configure led pins as output
22   pinMode(gled, OUTPUT);
23   pinMode(pb, INPUT); // configure switch pin as input
24   Serial.begin(9600); // serial baudrate
25
26   // Start condition: DONT WALK
27   digitalWrite(rled, HIGH);
28   digitalWrite(gled, LOW);
29   Serial.println("DON'T WALK");
30 }
31
32 void loop()
33 {
34   // wait for switch to be pressed
```

Serial Monitor