

# PROJECT IDEA: DIY Traffic Light

ideaLAB



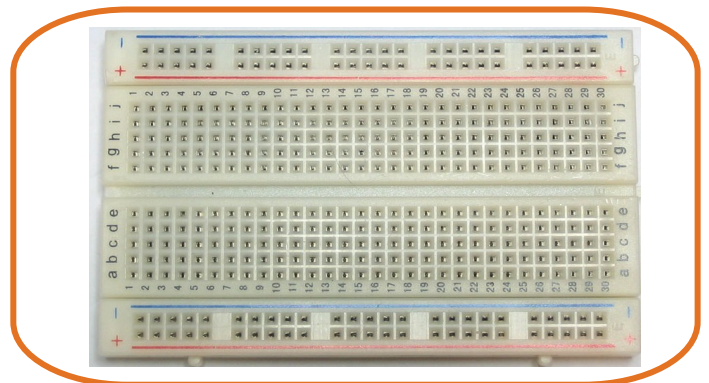
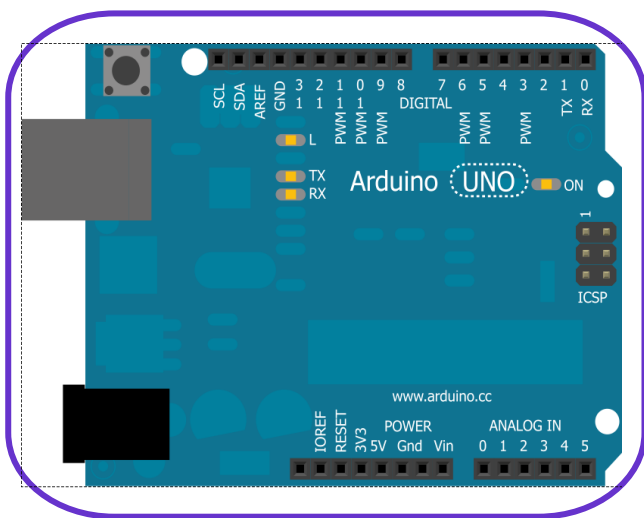
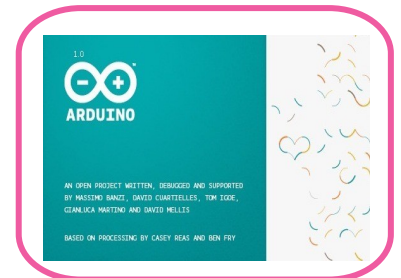
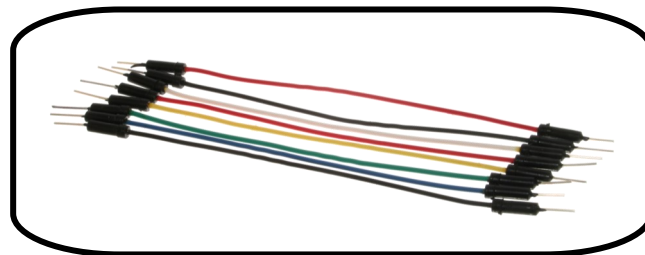
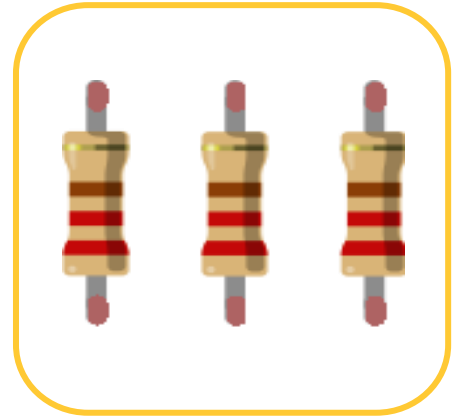
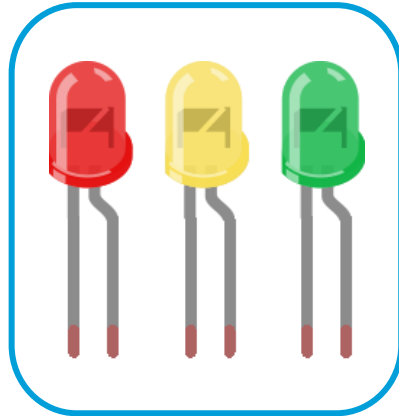
## What is Arduino

An Arduino is a single-board microcontroller and a software suite for programming it. The hardware consists of a simple open hardware... For software visit <http://www.arduino.cc/>

## Traffic Lights

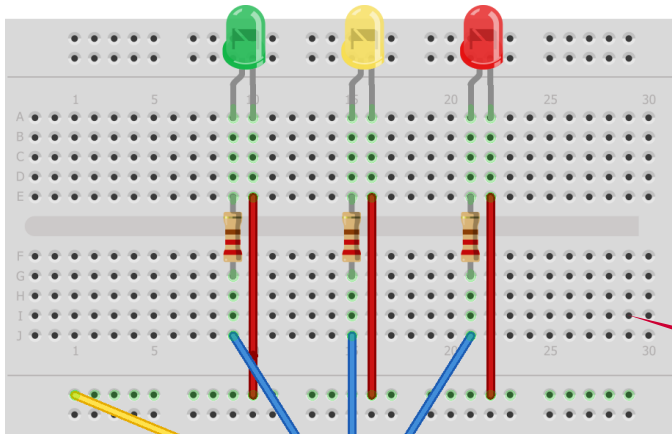
### Supply list

1. Arduino Software
2. Arduino UNO
3. BreadBoard
4. Seven Jumper Wires
5. Three 220ohm resistors
6. One red L.E.D.
7. One yellow L.E.D.
8. One green L.E.D.



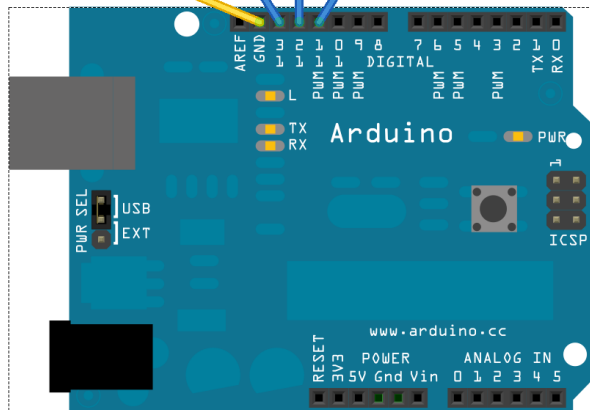


IF YOU DON'T ALREADY HAVE ARDUINO BADGE, SHOW YOUR PROJECT TO ONE OF THE IDEALAB STAFF MEMBERS AND THEY'LL GET YOU ONE!



Step 1

How to assemble



Step 2

```

Simple_Traffic_Light | Arduino 1.0.4
File Edit Sketch Tools Help

Simple_Traffic_Light$
int red = 13;
int yellow = 12;
int green = 11;

void setup(){
  pinMode(red,OUTPUT);
  pinMode(yellow,OUTPUT);
  pinMode(green,OUTPUT);
}

void loop(){
  changeLights();
  delay(90);
}

void changeLights(){
  //This set of code emulates Traffic lights
  digitalWrite(red,HIGH);
  delay(700);
  digitalWrite(red,LOW);
  delay(10);

  digitalWrite(yellow,HIGH);
  delay(500);
  digitalWrite(yellow,LOW);
  delay(10);

  digitalWrite(green,HIGH);
  delay(1000);
  digitalWrite(green,LOW);
  delay(10);
}
  
```

Done uploading.  
Binary sketch size: 1,214 bytes (of a 30,720 byte maximum)

1 Arduino Duemilanove w/ ATmega328 on COM3

This is the Arduino program that let you write the C code to bring to life the idea for your project. Edit the delay values to get the timing just right

## WHERE TO GET MORE HELP:

For more ideas and help visit: <http://www.arduino.cc/>