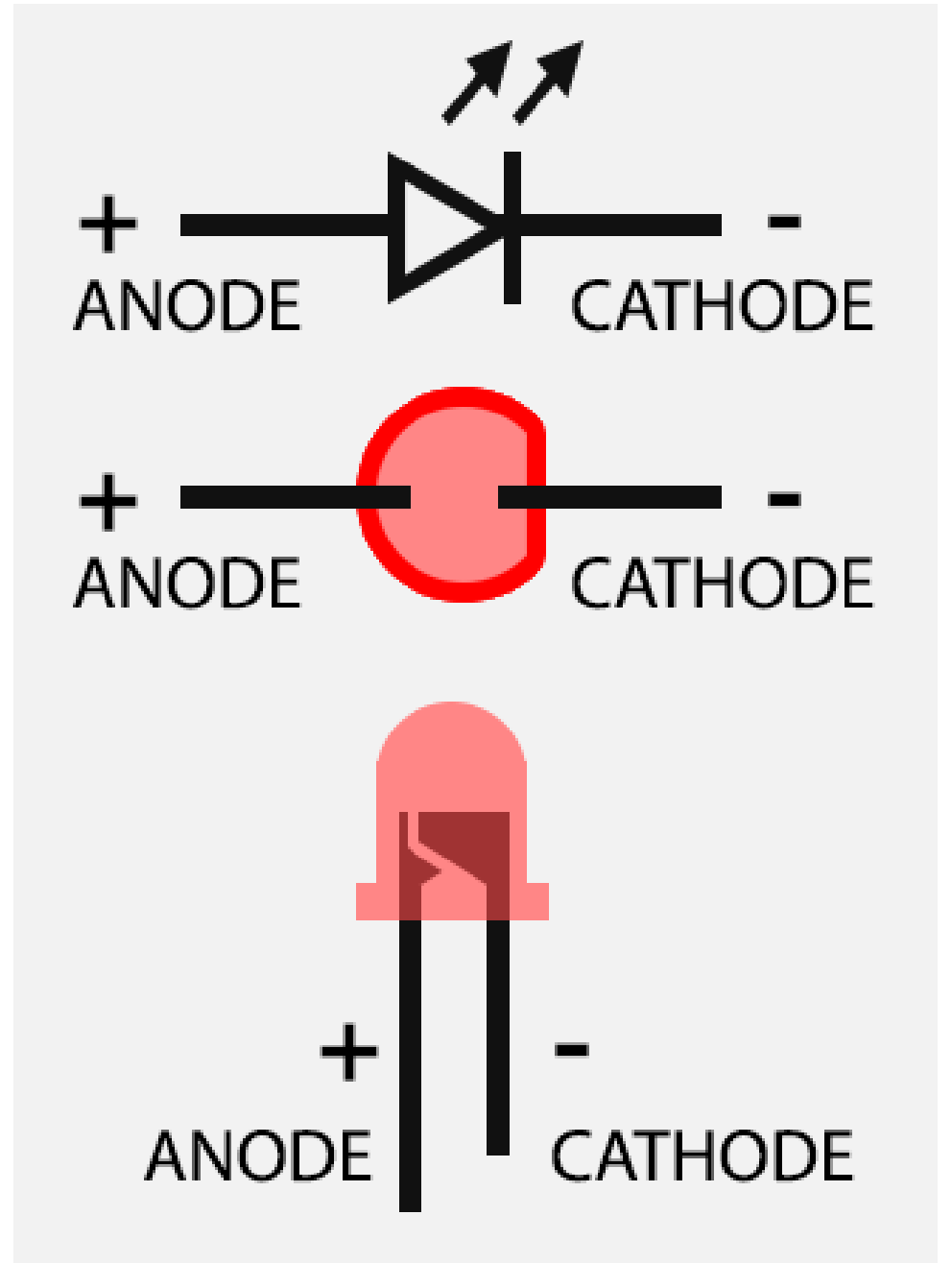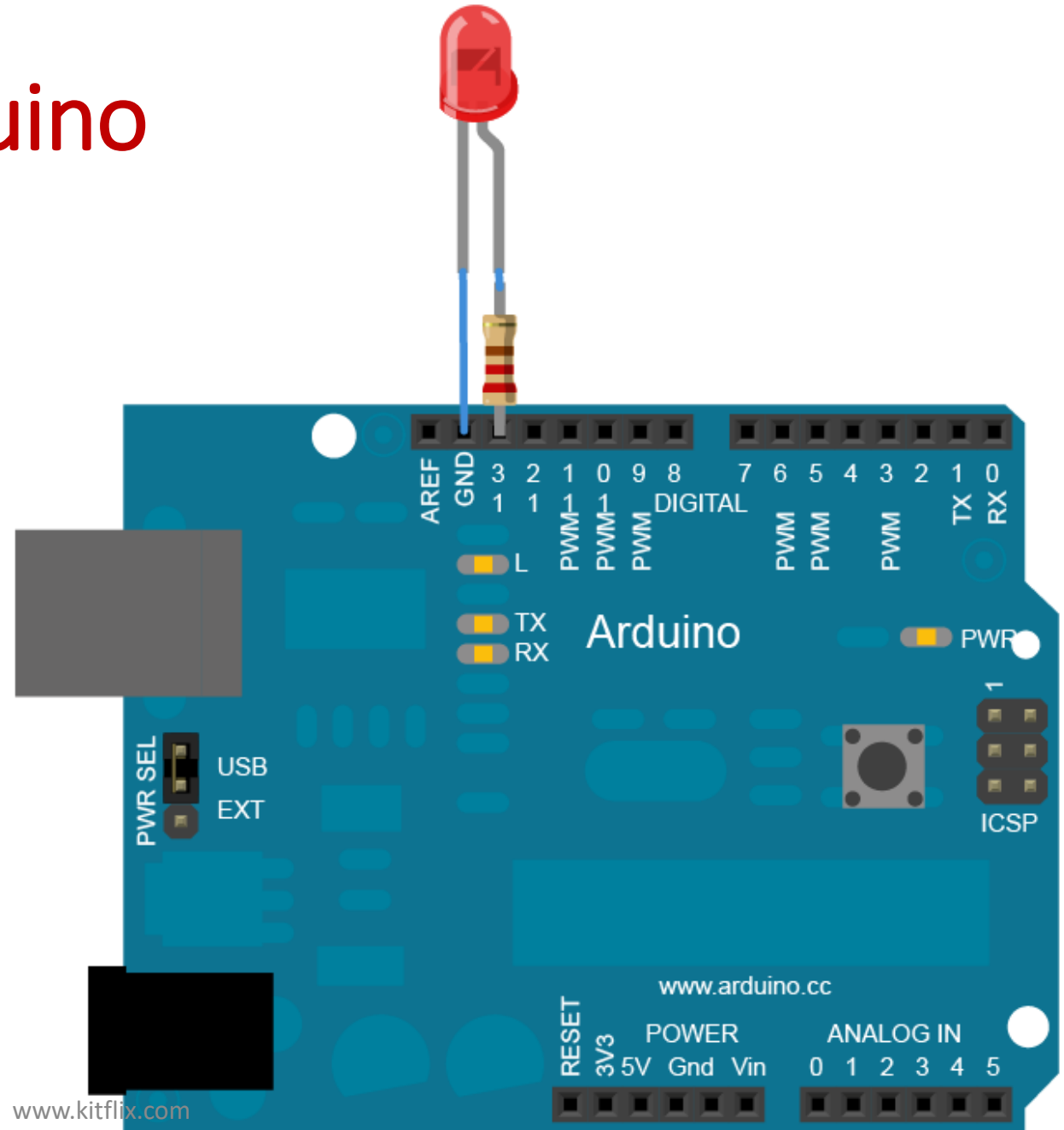# Light Emitting Diode

Light **E**mitting **D**iode

Interfacing With Arduino

- Every Arduino has an LED on Pin no 13

- While connecting LED, ensure to use at least 100 ohm or more value resistor with LED

- Small LED's require 5mA to 50mA of current

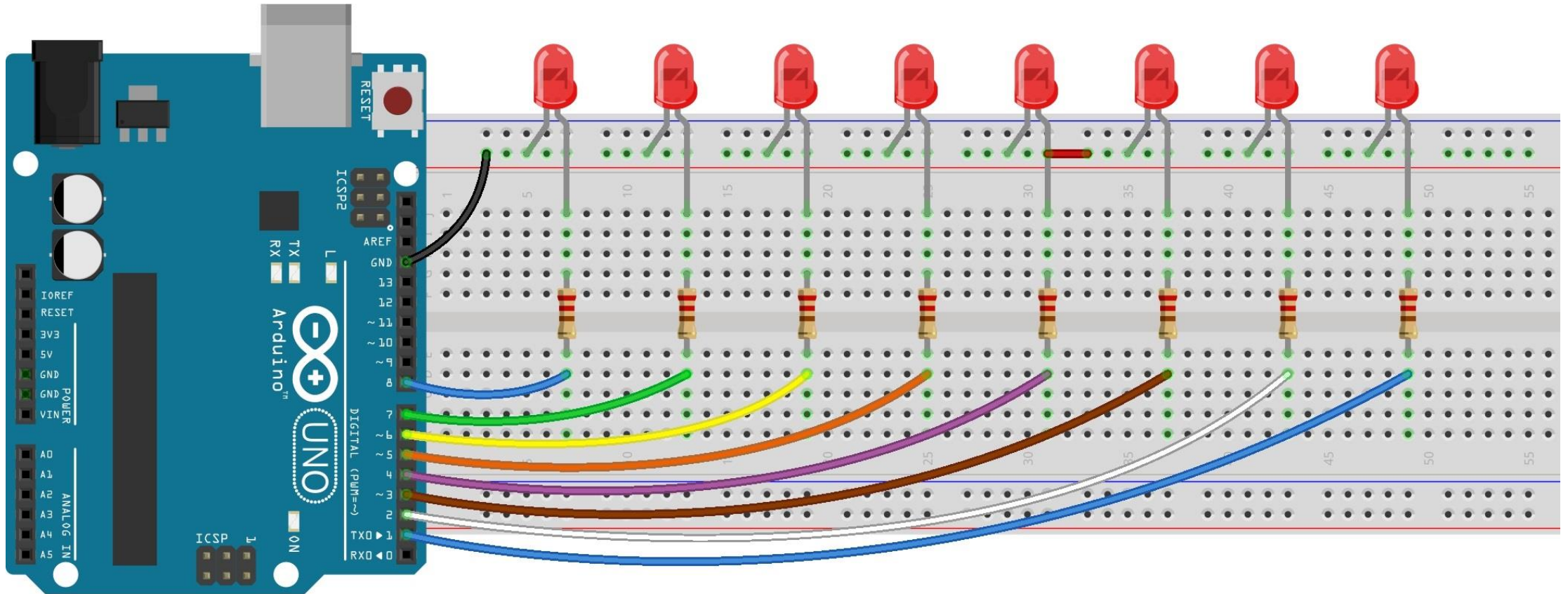- Job is just indication not lighting ☺00

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Digital Output

```
digitalWrite(13, HIGH);


digitalWrite(13, LOW);
```

8 x LEDs with Arduino

Projects

- Interface 8 LEDs to an Aduino and Blink All 8 LED's On and Off

- Write down a code to make 4 LED's On and other 4 Off, and then first 4 Off

  and the later 4 on

- Chaser, Only one LED on, rest off

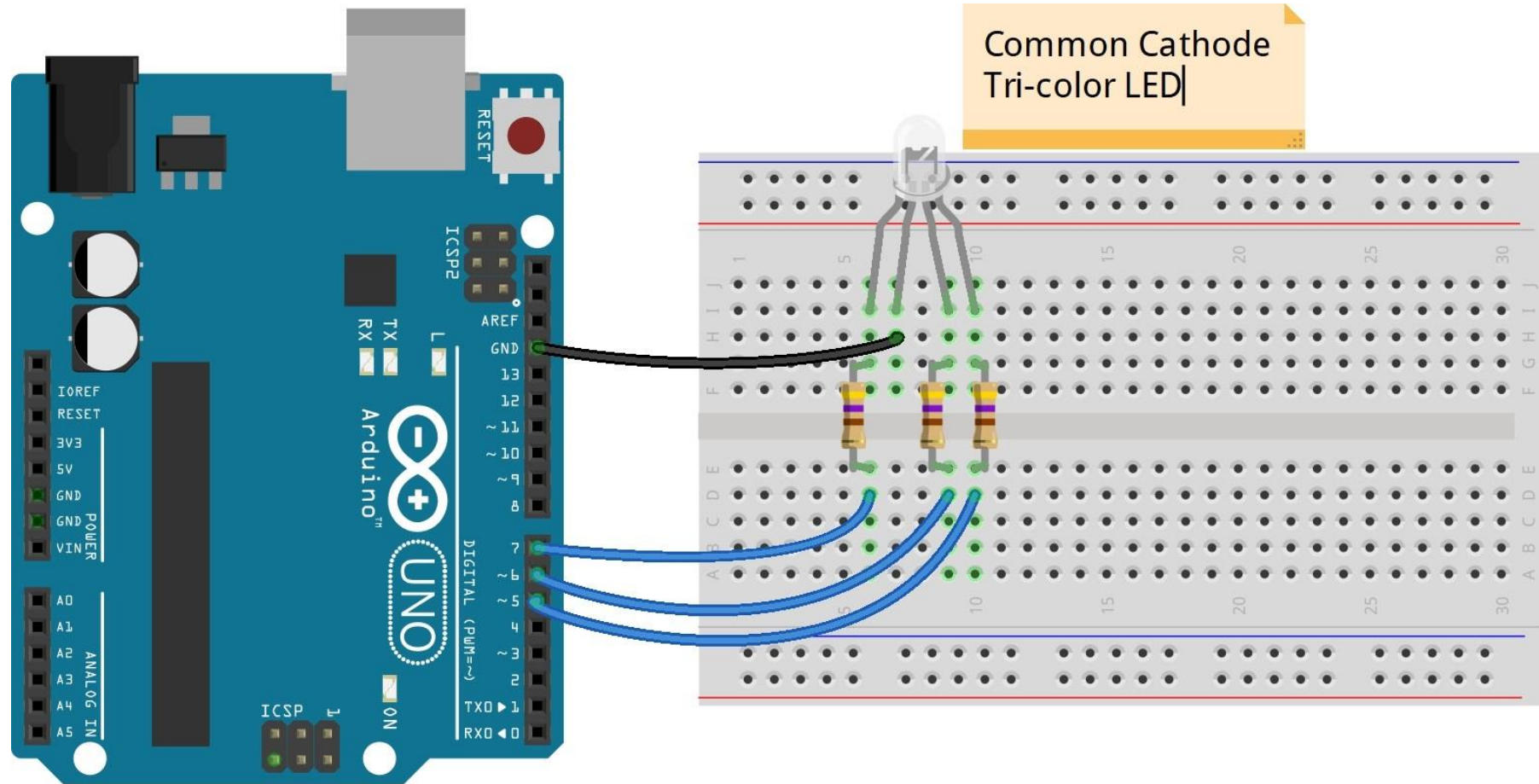- Write a program to make LEDs turn on / off only 10 time

Tri Color Led

1 - RED
2 - GROUND
3 - GREEN
4 - BLUE

1 - RED
2 - +5V
3 - GREEN
4 - BLUE

Interfacing With Arduino

Common Cathode Tri-color LED

Projects

- Automatic Traffic Signal with Tricolor LED

- 3 Switches and 3 LED's to generate red / green / blue when corresponding switch is pressed