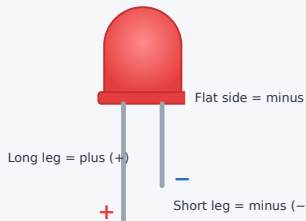


Part 3 of 15



LED (little light)

A small light in 5 colors

In your kit: 10x

What is it?

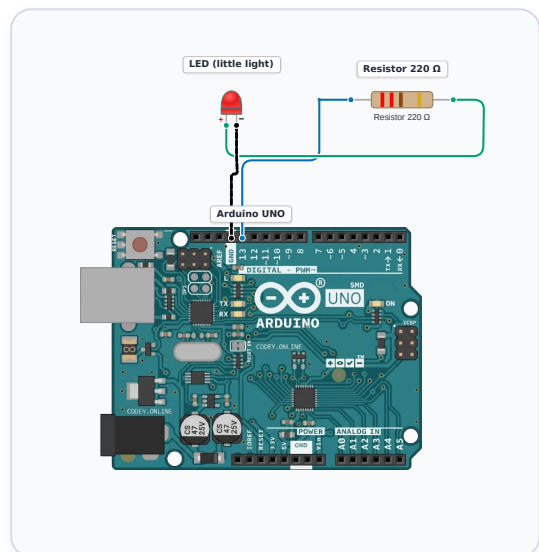
An LED is a small light that uses very little power. Your kit has 10 LEDs in 5 colors. An LED only works one way, so you must put it in the right way around.

This is how you connect it

- The **long leg** is the plus (+). It goes through a 220 Ω resistor to a pin on your Arduino.
- The **short leg** is the minus (-). It goes to GND. On that side, the edge of the light is also flat.

Always use a resistor! Without a resistor, the LED gets too much current and breaks.

Wiring diagram



- Arduino UNO · D13 → Resistor 220 Ω · 1
- Resistor 220 Ω · 2 → LED (little light) · ANODE
- LED (little light) · CATHODE → Arduino UNO · GND

What can you do with it?

- A blinking light
- A traffic light
- A light that shows if something is on or off

Tip

Does your LED do nothing? Turn it around. It only works one way.

Projects with this part

★ Your first breadboard circuit

★ Blinking Light

★ Traffic light

★ Light switch

★★ Motion alarm

★★ Reaction Game