

# Arduino Bootcamp : From Novice to Professional - Learning Through Projects

Controlling an LED with a Push Button Switch

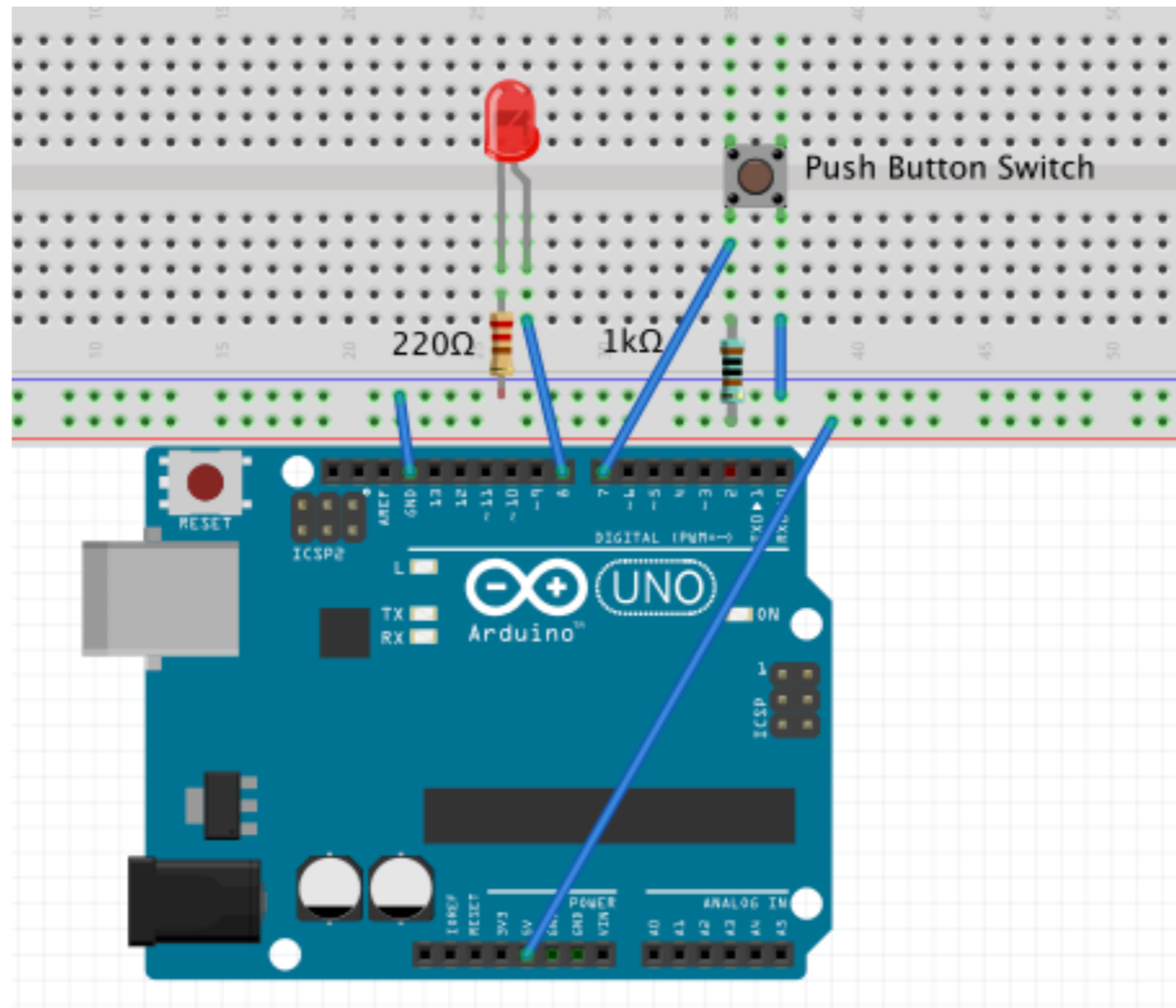
# Project Objectives

- In this project you will learn:
  - How an LED works
  - How to wire an LED in a circuit
  - How a push button switch works
  - How to connect a push button switch in a circuit
  - Using the `digitalRead()` function

# Parts

- Arduino Uno
- USB A-B cable
- Breadboard
- Red LED (or any color)
- 220  $\Omega$  and 1 k $\Omega$  resistor
- Push Button Switch
- Connecting wires

# Circuit Diagram



# Summary

- In this project you learnt:
  - How an LED works
  - How a push button switch works
  - How to connect them in a circuit
  - Using the `digitalRead()` function