Arduino Bootcamp : Learning Through Projects

Piezo Buzzer Sound Recall Game

Project Objectives
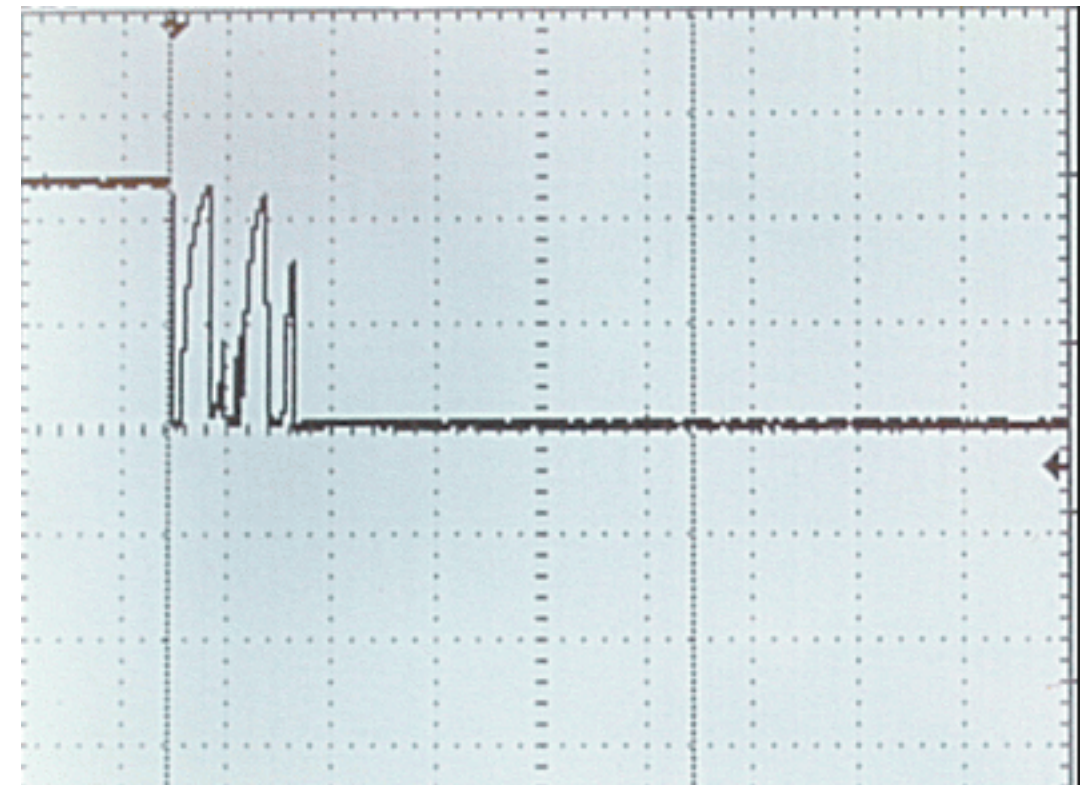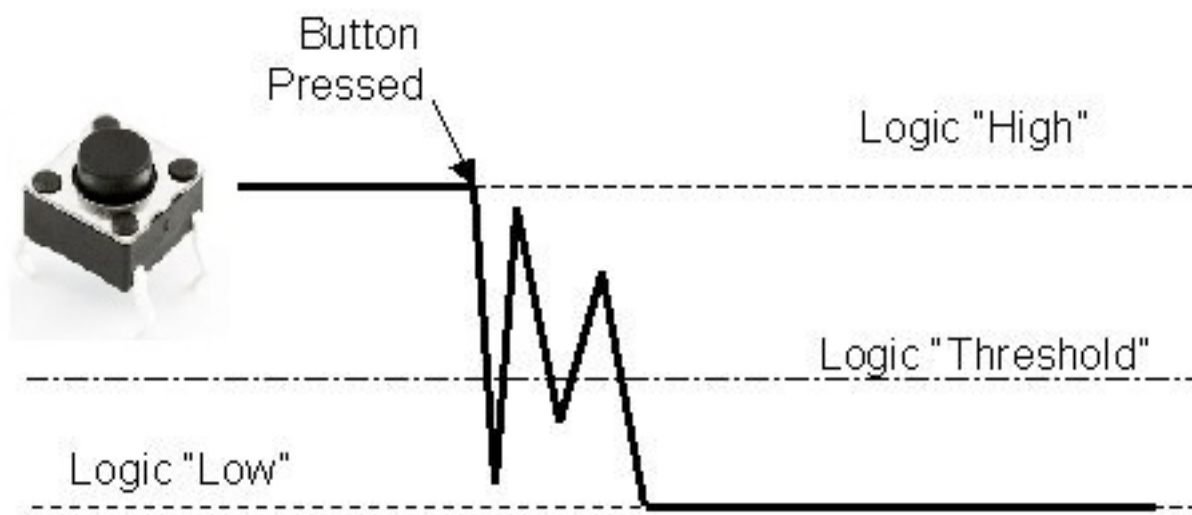
- In this project you will learn:

  - How to incorporate several components in a circuit

    - LEDs

    - Push Button Switches

    - Piezo Buzzers

  - What is debouncing and how it can be handled in your electronic projects

  - How to install and use a third party library which handles debouncing for switches
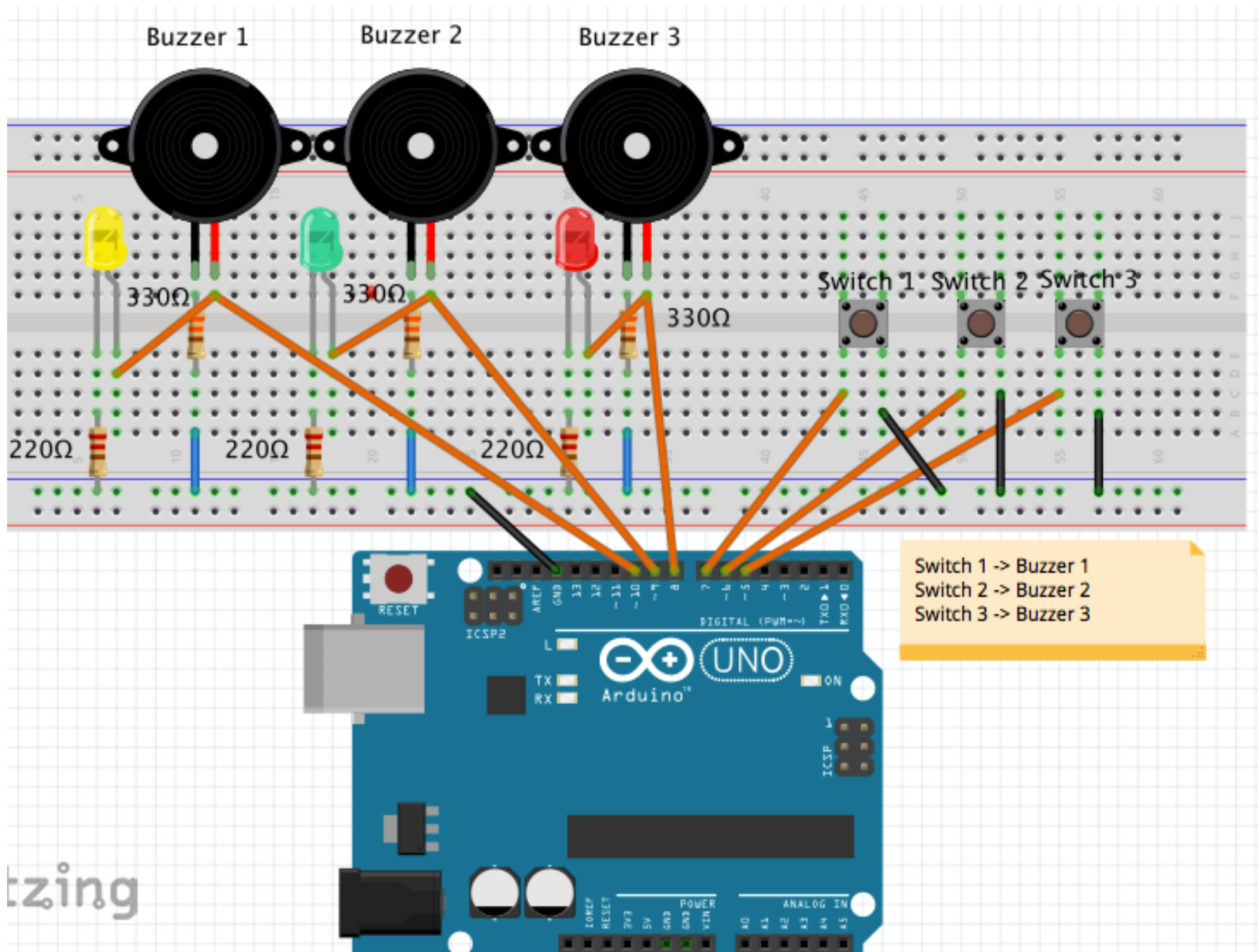
Parts

- Arduino Uno

- USB A-B cable

- Breadboard

- 3 × 220 Ω resistors

- 3 × 330 Ω resistors

- 3 LEDs (red, green and yellow) or any three different colors

- 3 Piezo Buzzers

- 3 Push button switches

- Connecting wires

Debouncing

Button "Bounce"

Circuit Diagram

Summary

- In this project you learnt:

  - How to incorporate many different components in a project

  - How to install and use a third party library in your project