

Arduino Bootcamp : Learning Through Projects

Ultrasonic Sensor Alarm

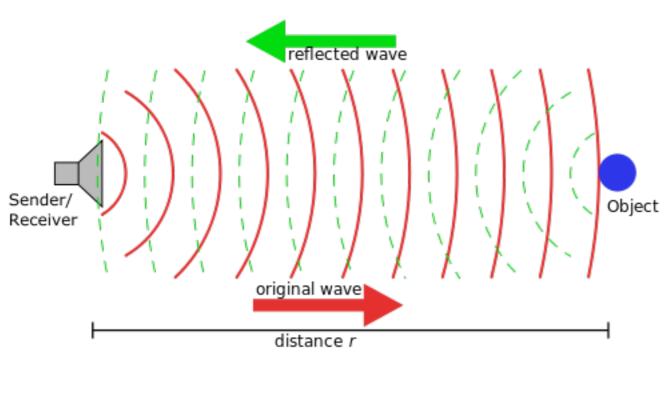
Project Objectives

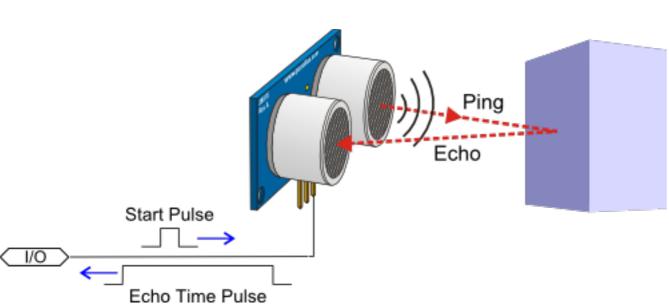
- In this project you will learn:
 - How an ultrasonic sensor (HC-SR04) works
 - The pinouts and how to connect an ultrasonic sensor in a circuit
 - How the pulseln() function works

Parts

- Arduino Uno
- USB A-B cable
- Breadboard
- $3 \times 330 \Omega$ resistors
- HC-SR04 ultrasonic sensor
- Red LED and green LED
- Piezo Buzzer
- Connecting wires

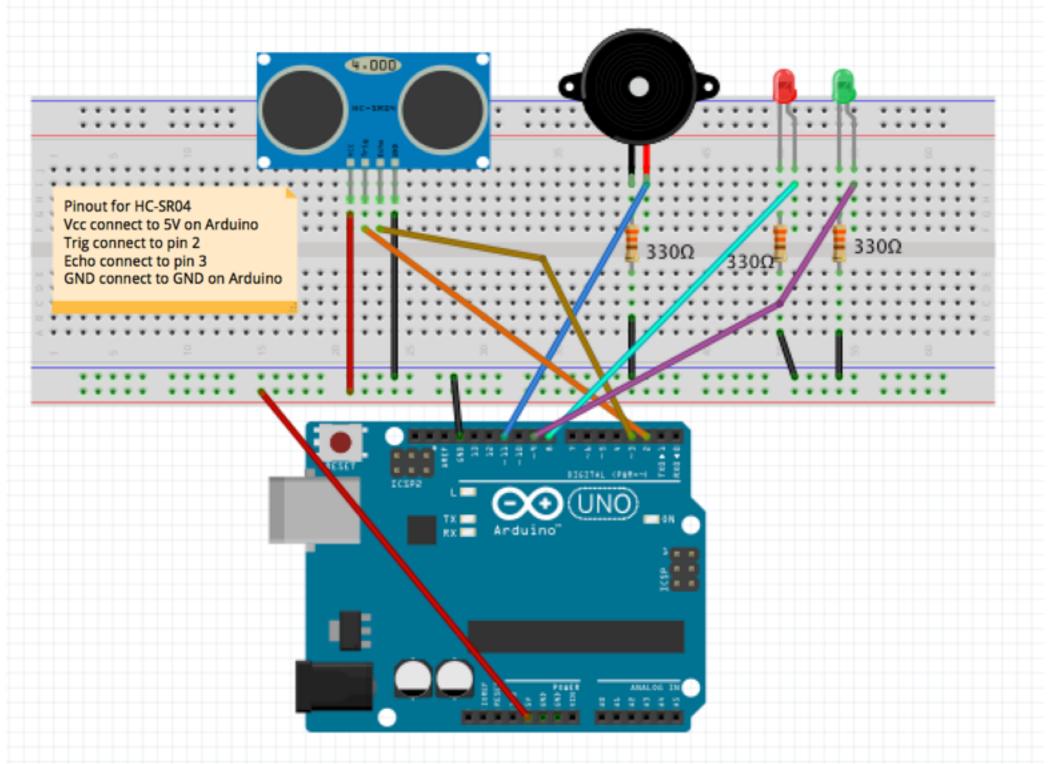
Ultrasonic Sensor Operation







Circuit Diagram



Summary

- In this project you learnt:
 - What an ultrasonic sensor is and the details of an HC-SR04 and how to connect it in a circuit
 - How the pulseln() function can be used
 - Incorporating alarms in your projects