

# SIMPLE SONAR EXAMPLE USING ARDUINO

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## Project Aim

Detecting object nearby using Ultrasound

## Project description:

1. Ability: To detect objects nearby and show it in a radar monitor
2. Hardwares to be used
  - (a) Servo
  - (b) HC-SR04 Ultrasonic sensor
  - (c) Arduino board
  - (d) Monitor to display the live radar
  - (e) Obviously Batteries
3. Approach
  - (a) The HC-SR04 sensor is attached along the axis of the servo so that it can rotate in a range of 180 degrees
  - (b) And the information retrieved using the sensor is sent to serial Port
  - (c) This is then sent to a processing IDE, and the data is processed to display the radar (animation)
  - (d) Whenever object is detected, it can be seen in the radar

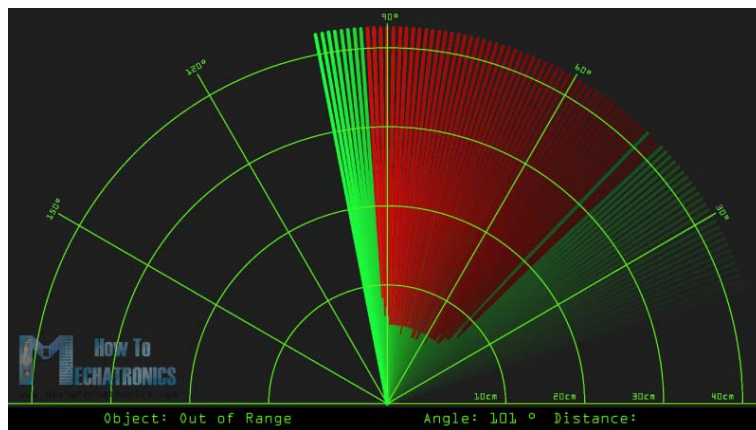


Figure 1: Radar on detecting

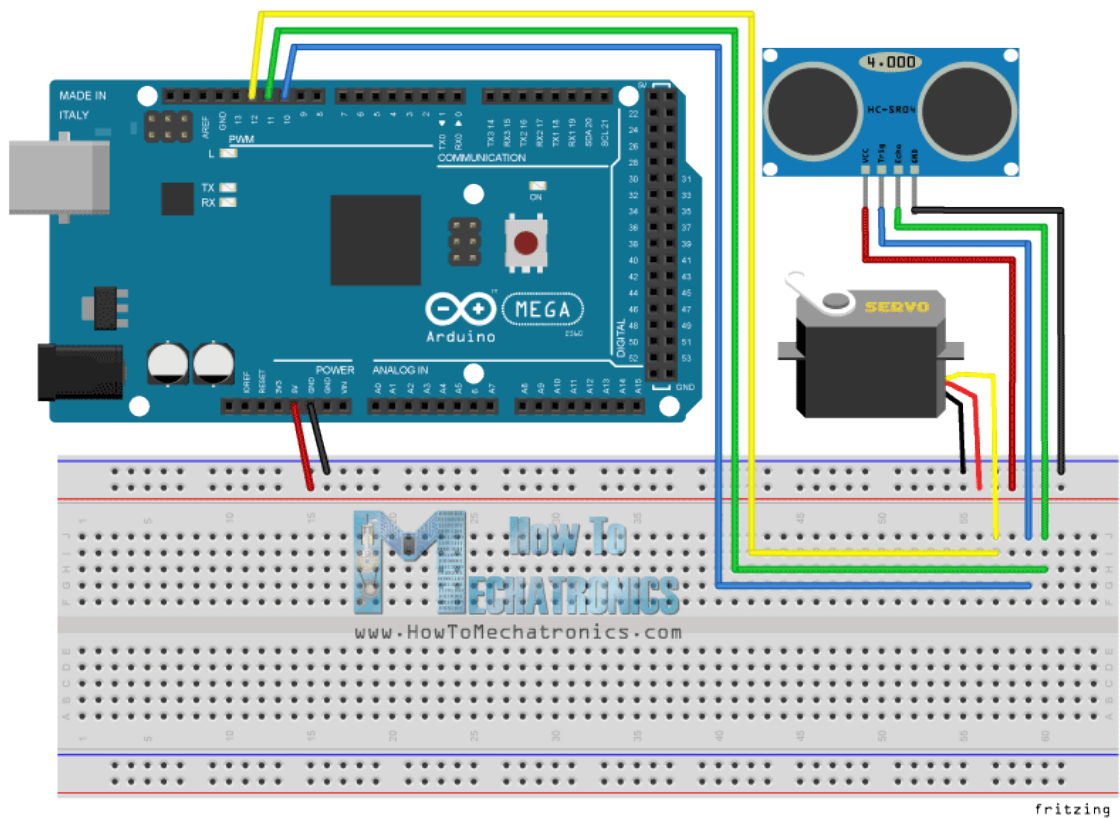


Figure 2: Schematic Diagram

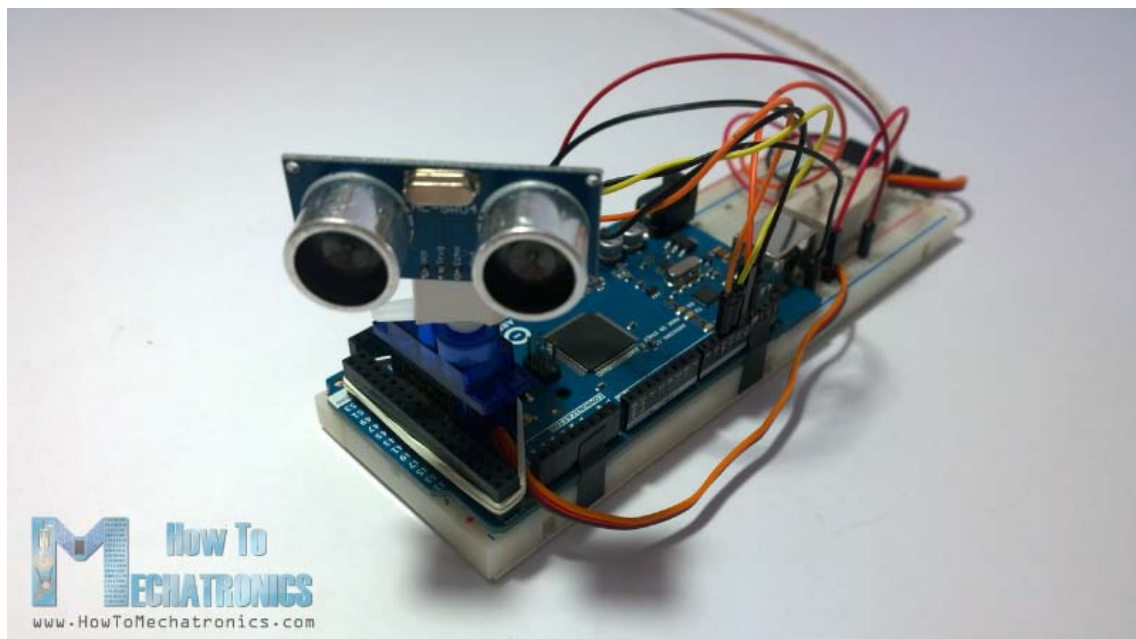


Figure 3: The circuit