# **Obstacle Avoidance with Warning and Random Turns (Look Out!)**

Time required: 30 minutes

### **Tutorial Assignment**

- 1. Start mBlock. Save the program as **Obstacle Avoidance with Warning and Random Turns**.
- 2. Complete and test the program as pictured with the requirements listed.

## Requirements

- The robot randomly turns left or right to avoid an obstacle and gives a visual warning.
- Test the obstacle avoidance with your foot.

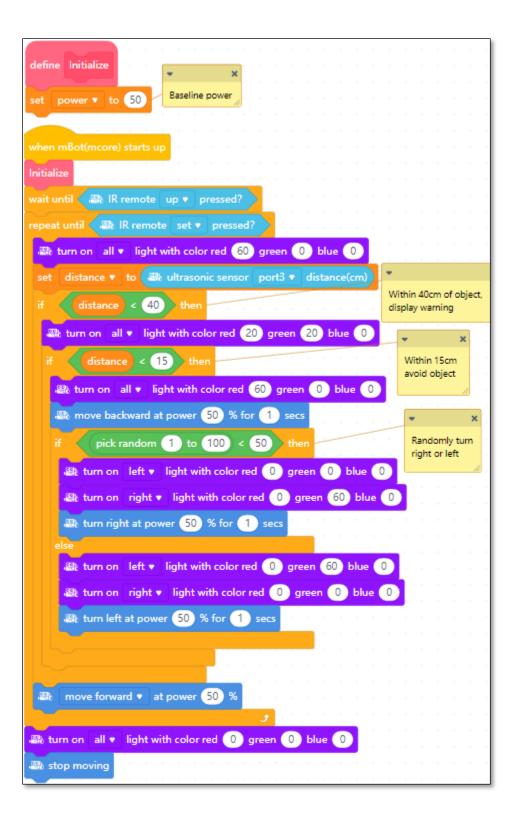
### **Challenges**

- Play a sound when an object is detected.
- Experiment with the detection distance.

#### **Assignment Submission**

- All students attach the finished program to the assignment in Blackboard.
- Each assignment can be demonstrated in class.
- For online students, a link to a YouTube video recording showing the assignment can be placed in the submission area in BlackBoard.

Page 1 of 2 Revised: 9/28/2020



Page 2 of 2 Revised: 9/28/2020