Stay Inside the Line

Time required: 30 minutes

The linefollowing sensor can be used for other tasks besides following a line. This sensor detects dark or light. This can be used to keep the mBot inside a circle or other shape that is outlined in black. You can use your line following track or some sort of black tape to outline a shape. Automotive cloth wiring harness tape works really well. You could also use a piece of paper or the back of the mBot paper track on a dark floor.

Tutorial Assignment

- 1. Start mBlock. Save the program as **Stay Inside the Line**.
- 2. Complete and test the program as pictured with the requirements listed.

Requirements

Stay inside the line.

Challenges

- Add a sound to indicate hitting the line.
- Backup after hitting the line.

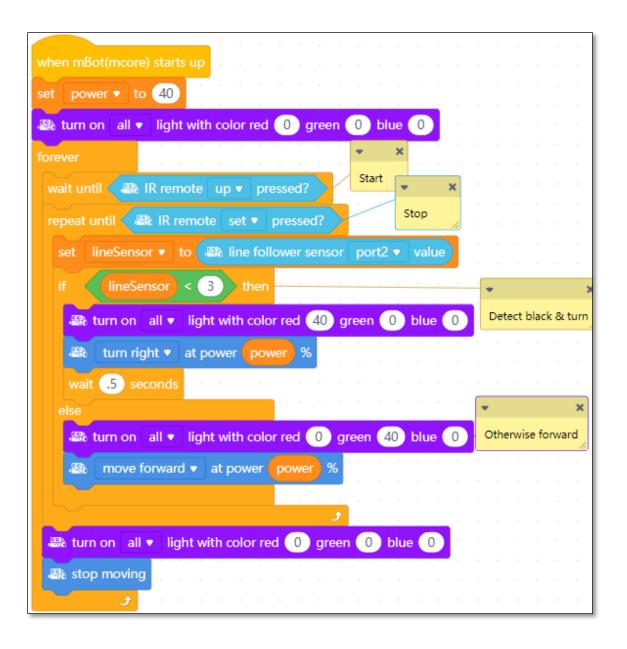
Extra Credit Challenge

Randomly turn left or right to avoid the line.

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: 9/14/2020



Page 2 of 2 Revised: 9/14/2020