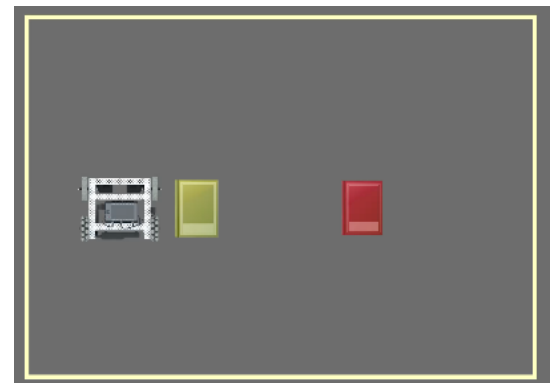# Figure Eight

Drive in a figure eight around two obstacles!

How to Play

1. **Check your Field Setup:**

   - Set up an open space approximately 5'x7' (or 150cm x 210cm) with two obstacles (like stacks of textbooks) to drive around.

   - The robot must start beside one of the obstacles, as shown here.

2. **Figure Eight Challenge rules:**

   - Choose the driver configuration you are most comfortable with and start the Drive program on the Brain.

   - Drive the robot in a figure eight pattern around the obstacles and back to the starting position. Start the timer as soon as the robot starts moving.

   - If the robot touches the obstacles or goes out of the challenge space, the robot must be placed back in the starting position. Reset any obstacles, as needed. Then continue driving. Do not stop the timer.

   - Stop the timer when the robot returns to the starting position, or 60 seconds have passed.

   - The person who drives the figure eight the fastest wins!

Pro Tip

Record information from each driver.

- Which controller configuration did they use?
- How fast was their time?

Can you find any patterns between the driver's speed in the Figure Eight Challenge and their controller configuration?