

1



ROBOTICS *COMPETITION*

PRACTICE PROJECT 1

Avoid collisions without sensors

WATCH THE VIDEO BELOW ABOUT SMART CARS TO GET STARTED

CLICK
HERE

SCENARIO

Navigate your smart car along the roads of a smart city. During your training we will provide you with the details you need in order to turn your FlipRobot into a smart car.

MISSION

Code without sensors to navigate and turn along the streets of a smart city, avoiding oncoming traffic.

LEARNING OUTCOMES

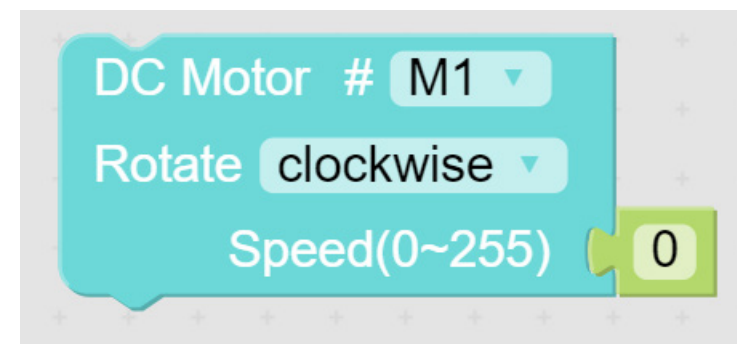
- Learn to use FlipCode to control DC motors' movements.
- Learn to program your FlipRobot without sensors to move and avoid collisions.

EQUIPMENT

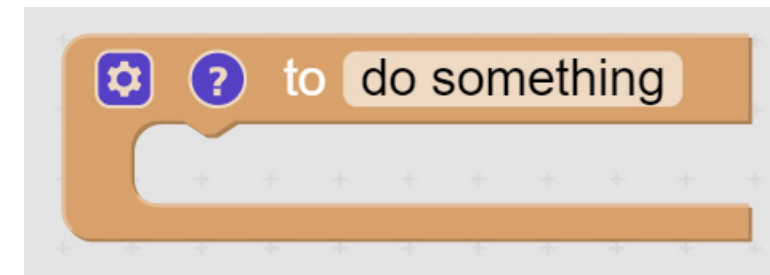
- FlipRobot E310+
- Laptop
- Charging/Connection cable
- White Cardboard Sheets
- Black Electrician's Tape

FLIPCODE BLOCKS REQUIRED

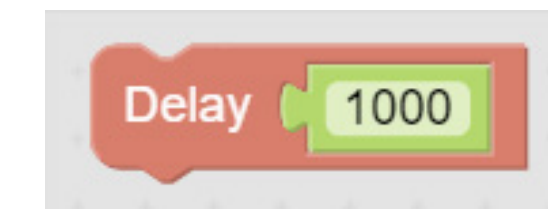
DC Motor
Motor block



To do something
Functions block



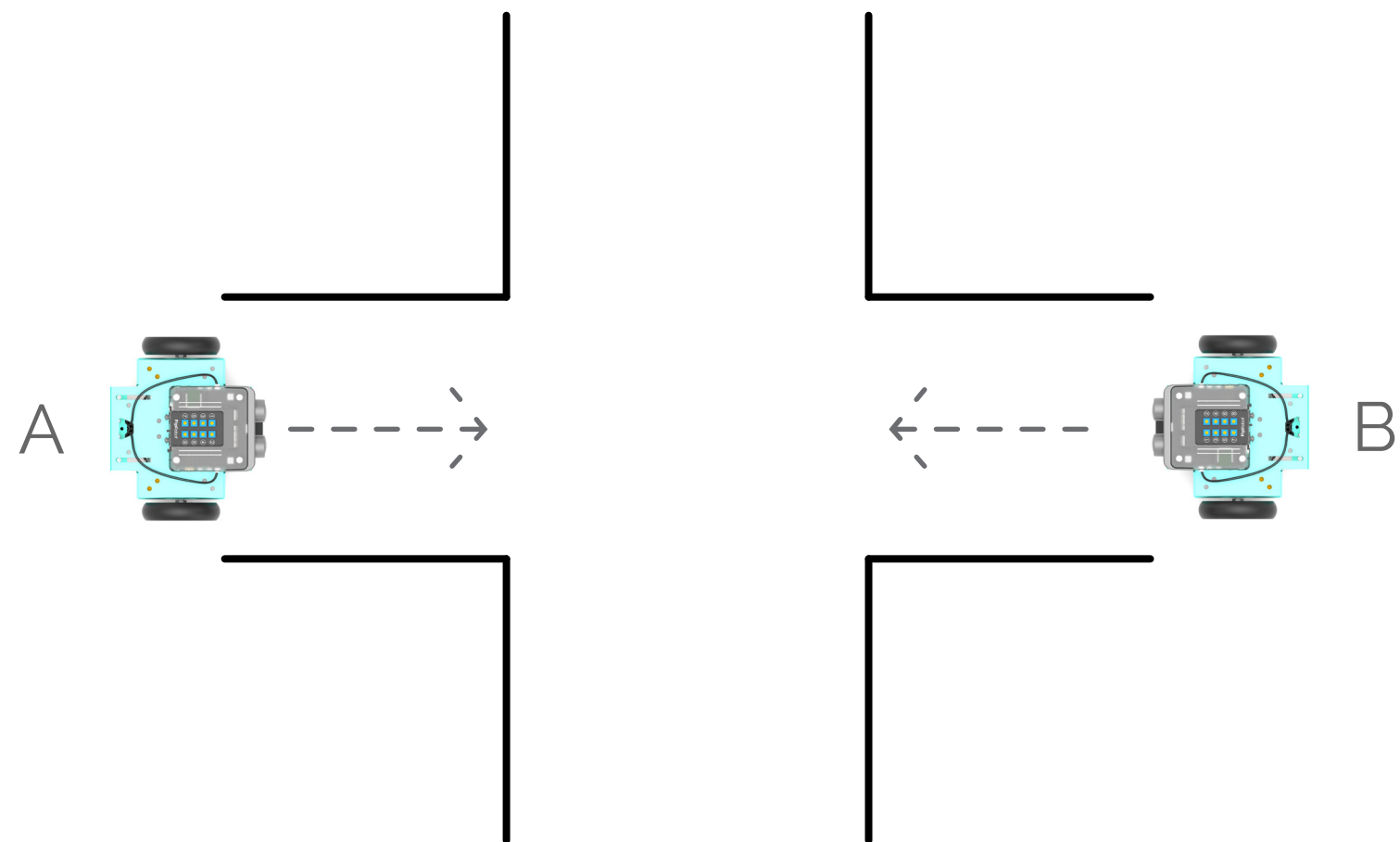
Delay
Control block



THE OUTCOME

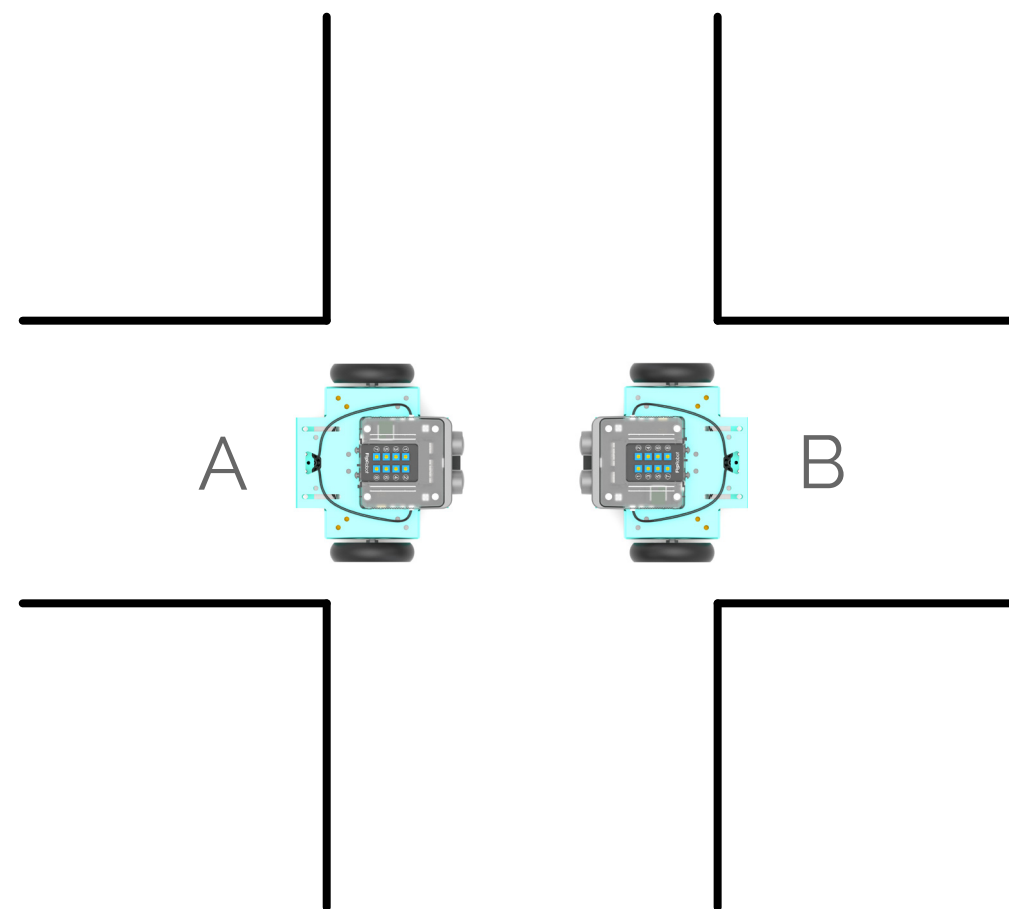
ONE

FlipRobots travel forward.



TWO

FlipRobots turn.



THREE

FlipRobots continue forward and then stop.

