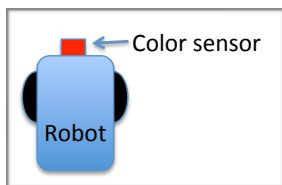


1 MINUTE LINE FOLLOWER

By Droids Robotics, 2015

Human vs. Robot Line Following:

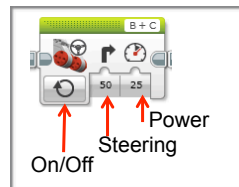
- A human can follow the middle of a line because we see both edges and further ahead
- A human knows which side of the line he/she veered off.
- But a robot can only follow the edge of a line
- A robot uses a color sensor to follow lines
- The robot makes a decision based on what color it sees.



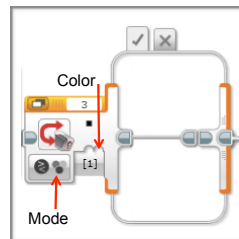
Color sensor sees white, turn right

Color sensor sees black, turn left

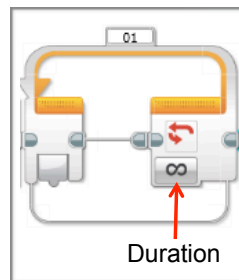
Blocks you need to know:



Move Steering block in "On" Mode



Switch block that uses the Color Sensor in "Compare Color" Mode



Loop block that repeats forever

Line Follow in Three Easy Steps:

STEP 1: Start with a Switch that makes a decision based on the color sensor in "Compare Color" Mode.

STEP 2: Inside the Switch, use a Move Steering Block in "Motor On" mode. Change the steering value and make the robot turn left if it sees black and right if it sees any other color.

STEP 3: Place all of the above in a Loop so it repeats forever (infinite)

SOLUTION:

