

Introduction to Ozobot Blockly 07: Debugging

Activity Sheet

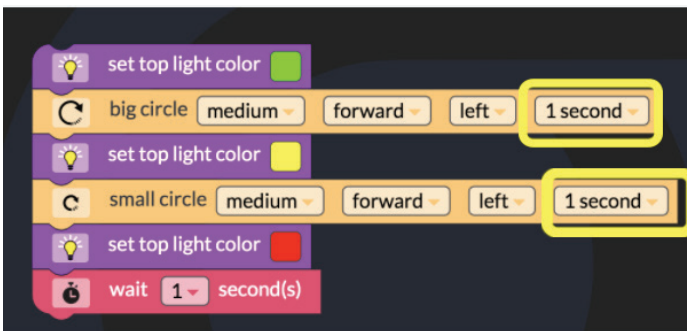
1 Define debugging:

Debugging is the process of finding and correcting errors or bugs in programs.

2 A bug in a program can happen when

a block is in the wrong place in a sequence, a block is missing completely, or a setting on a block needs to change.

3 What was the first bug in the program? How did you fix it?



The first bug was my bot did not move to complete two full circles. I had to increase the number of seconds it would run for on both circle blocks.

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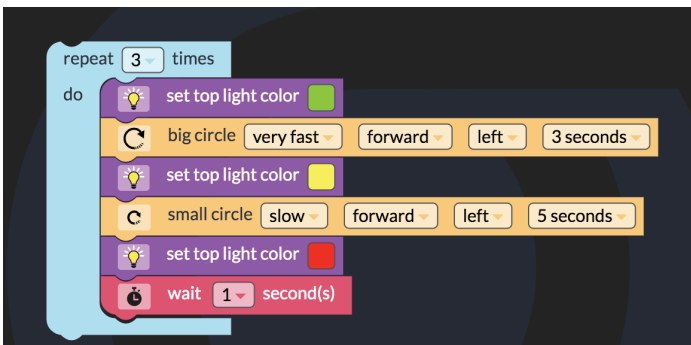
Activity Sheet

4 What was the second bug in the program? How did you fix it?



The second bug was my bot did not move in a big circle quickly, then move in a small circle slowly. I had to increase the speed on the big circle block and decrease the speed on the small circle block.

5 What was the third bug in the program? How did you fix it?



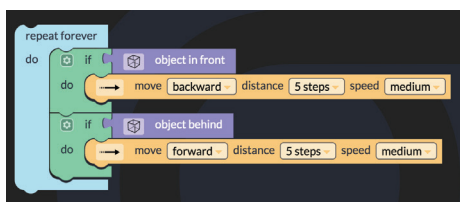
The third bug was my bot did not complete the color changes and actions three times. I had to add a count-controlled loop block around the sequence and set it to 3.

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Bugged Program Activity Cards

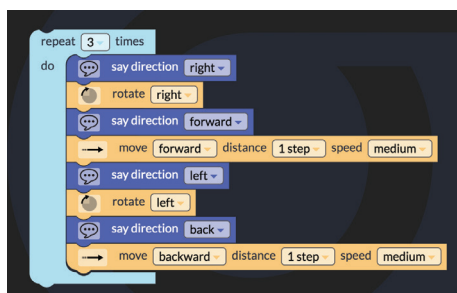
Instructions

Build the code on your card in OzoBlockly and read the description about what your bot should be programmed to do. Next, run the bugged program to see your bot in action. Debug the code to make the program run correctly.



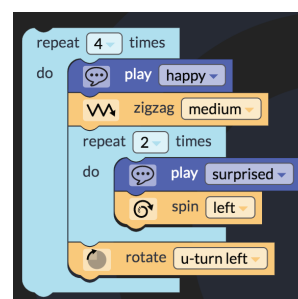
1

The bot should move backward when it senses an object in front of it and the bot should move forward when it senses an object behind it.



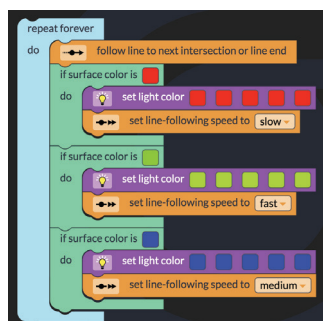
2

The bot should say direction right, turn right, say direction forward, move forward, say direction left, turn left, say direction back, and move backward. It should complete the entire sequence three times.



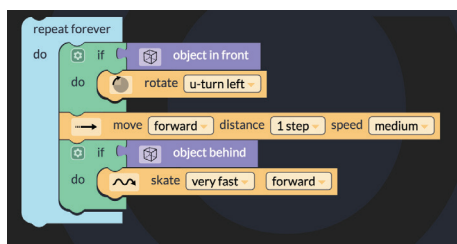
3

The bot should play a happy sound, move in a zigzag motion, play a surprised sound and spin twice, then make a u-turn. It should complete the entire sequence four times.



4

The bot should follow any red lines slowly and display red lights. The bot should follow any green lines quickly and display green lights. The bot should follow any blue lines at a medium speed and display blue lights.



5

The bot should make a u-turn if an object is in front of it. The bot should skate quickly forward if an object is behind it. When the bot does not sense an object, it should move forward.