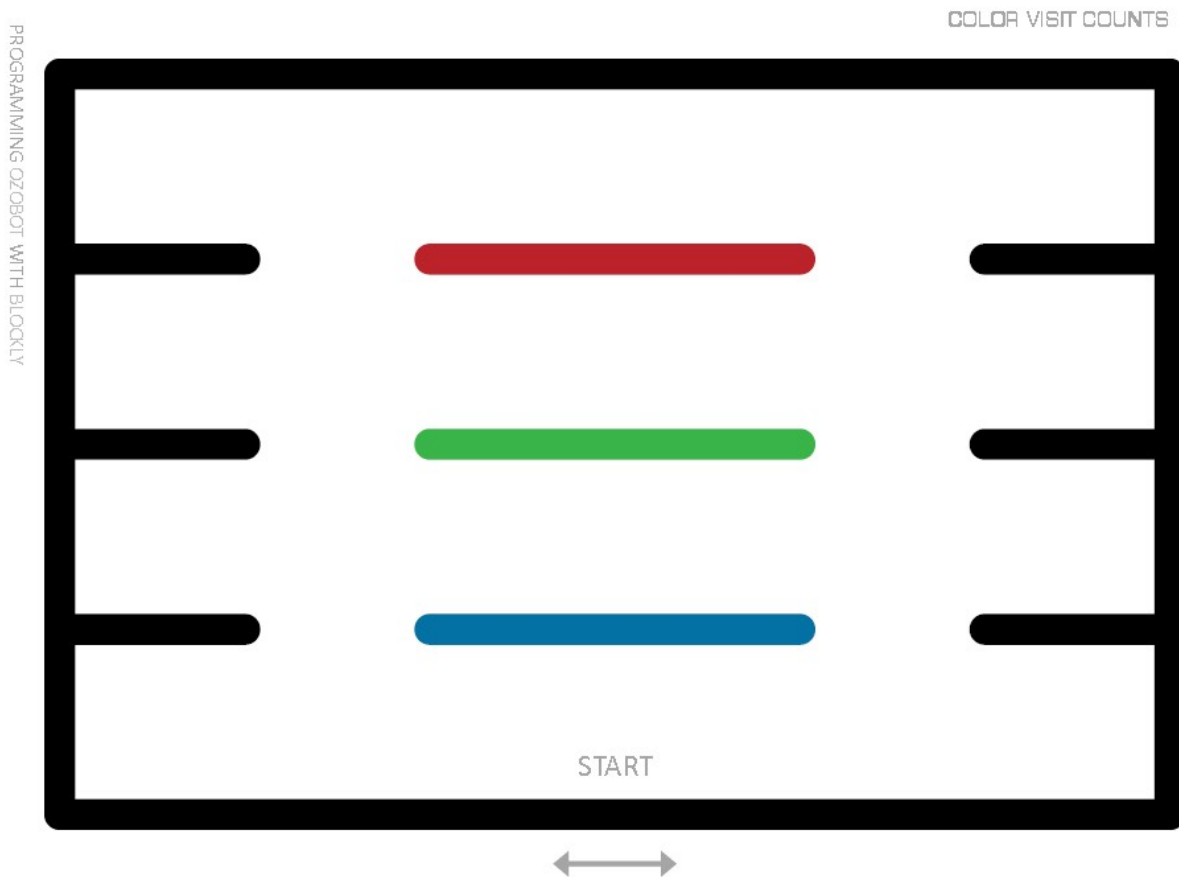


OzoBlockly Color Visit Counts Challenge

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Introduction

In this challenge you will be programming Ozobot to keep track of the number of times that it has traversed each of three paths—a red path, a green path, and a blue path. Use a printout of the attached *ColorVisitCounts.pdf* file when designing, testing, and running your program. A small version is shown in the figure below for ready reference while you study the program requirements.



Program Requirements

1. Use Mode 4 (Advanced) or higher for programming this challenge.
2. Line speed should be set to “very fast”.
3. Ozobot should make its innate random choices for direction at each of the black intersections.
4. LED light color should be set to WHITE while Ozobot moves around the black border maze.
5. As soon as Ozobot has traversed a colored (red, green, or blue) path, and jumped to the black border maze, the LED color should be red, green, or blue, respectively, dependent on the color of the path it just traversed. It should remain that color until Ozobot reaches the intersection on the black border maze, after which the LED color should return to WHITE.
6. Ozobot should traverse the colored segments, in total twelve times before stopping. For example, it may have traversed the RED 3 times, GREEN 5 times, and BLUE 4 times, for a total of twelve traversals.
7. After completing the twelve traversals, Ozobot should stop and flash RED for the number of times it traversed the red segment, flash GREEN for the number of times it traversed the green segment, and flash BLUE for the number of times it traversed the blue segment.
8. After finishing flashing the above three counts, Ozobot should turn itself off.
9. Start Ozobot at the location marked *Start* facing either direction, as indicated by the double-pointing arrow in the figure above.