

Color Codes | Guide

Markers

To draw Color Codes, you'll need black, red, green, and blue markers (included with your Ozobot).



Dry erase



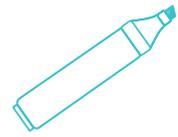
Colored pencil



Crayons



Highlighter



✓ Ozobot Markers

Alternatives: Crayola Classic / Crayola Pastels / Sharpie Chisel Tips

Lines, Corners, & Curves



Too thin



Too thick



Inconsistent

✓ Draw a line Ozobot can follow

Line Thickness:
5mm / 0.2in / 14 pt

Tips:
The flat side of your Ozobot marker's chisel tip is the perfect thickness



5mm
(14pt)

Line Spacing

↔ Lines should be at least 1in (25mm) from another line



Too close



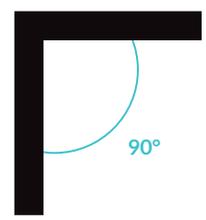
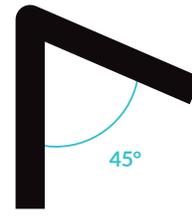
Angles



Ideal angle: 90°



Too sharp



Color Guide for Color Codes



RGB: 72/183/73
CMYK: 72/0/100/0
#48b749



RGB: 0/131/202
CMYK: 100/35/0/0
#0083ca



RGB: 237/28/36
CMYK: 0/100/100/0
#ed1c24

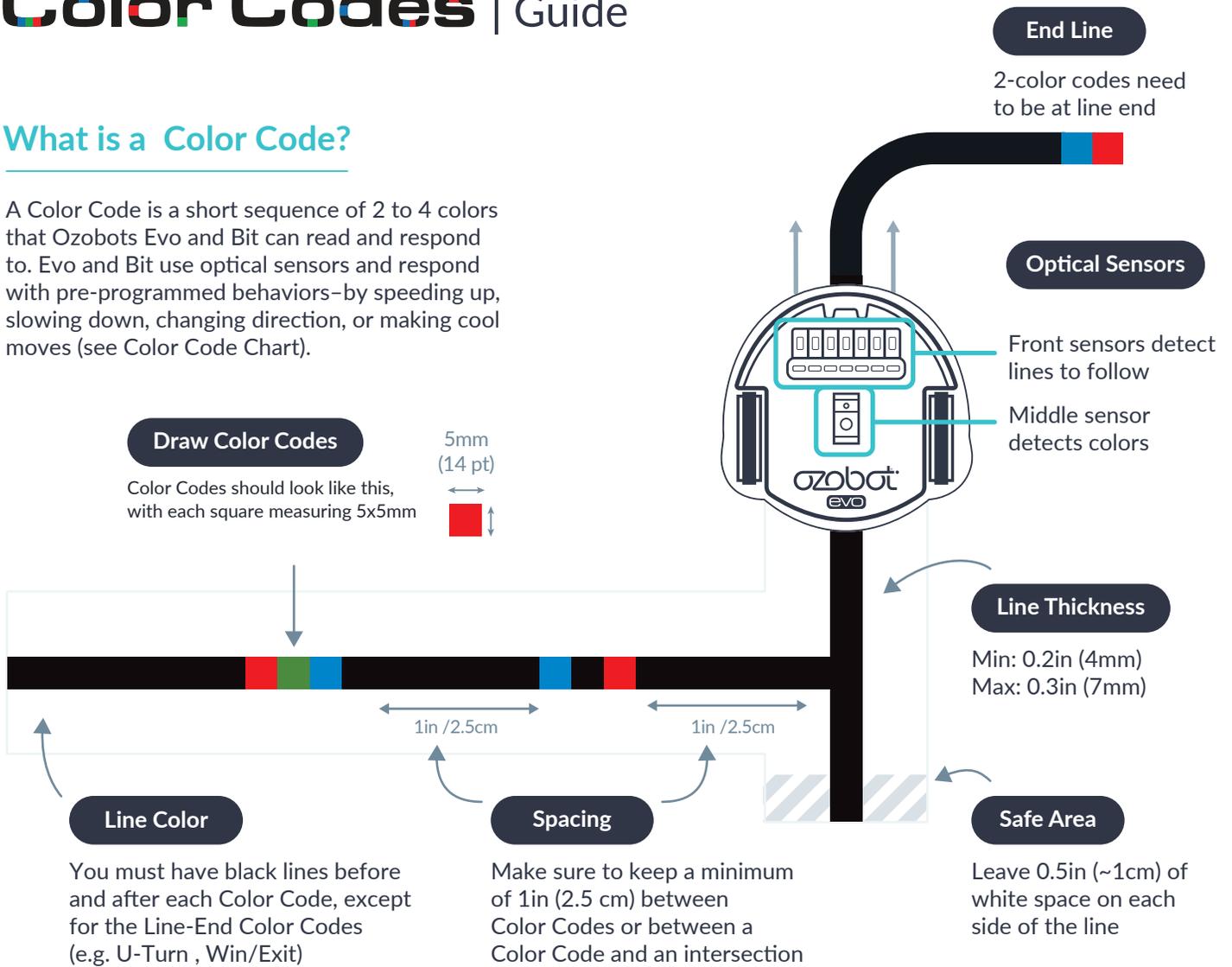


RGB: 0/0/0
CMYK: 20/20/20/100
#130c0e

Color Codes | Guide

What is a Color Code?

A Color Code is a short sequence of 2 to 4 colors that Ozobots Evo and Bit can read and respond to. Evo and Bit use optical sensors and respond with pre-programmed behaviors—by speeding up, slowing down, changing direction, or making cool moves (see Color Code Chart).



✘ What Not to Do



Codes on black lines only



Squares should not have space in between them



Squares should not overlap



Codes should be the same height as the line



Too dark



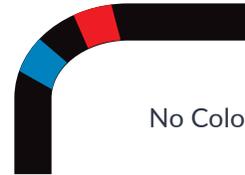
Squares should be the same size



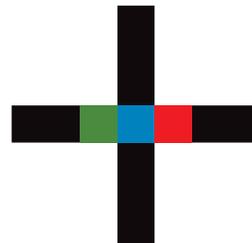
Squares should be 5x5mm max



Codes should be at least 1in apart

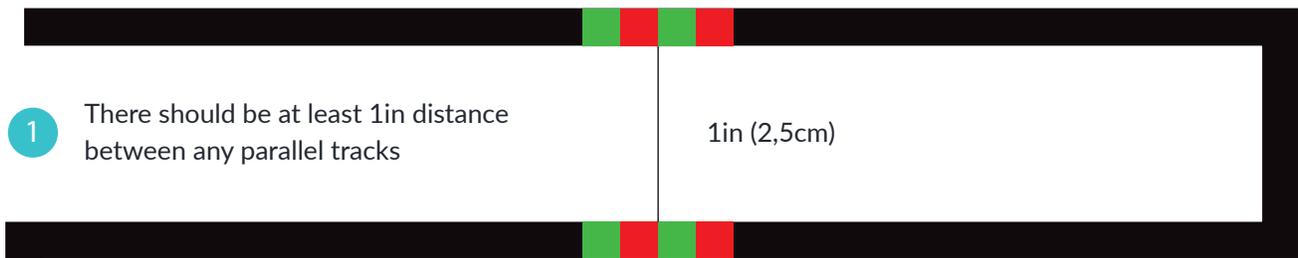


No Color Codes on corners



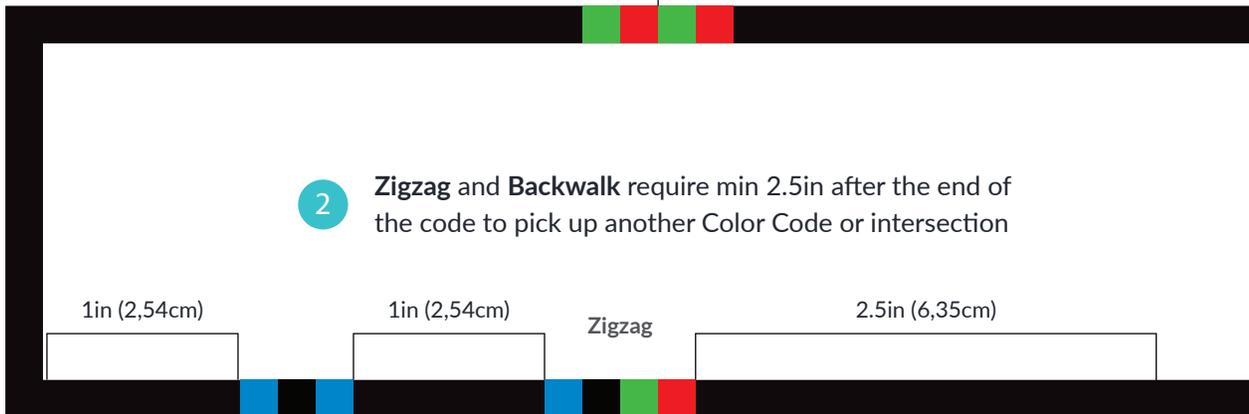
Color Codes should be at least 1in from intersections

Color Codes | Lesson Maps Guide



1 There should be at least 1in distance between any parallel tracks

1in (2,5cm)



2 Zigzag and Backwalk require min 2.5in after the end of the code to pick up another Color Code or intersection

1in (2,54cm)

1in (2,54cm)

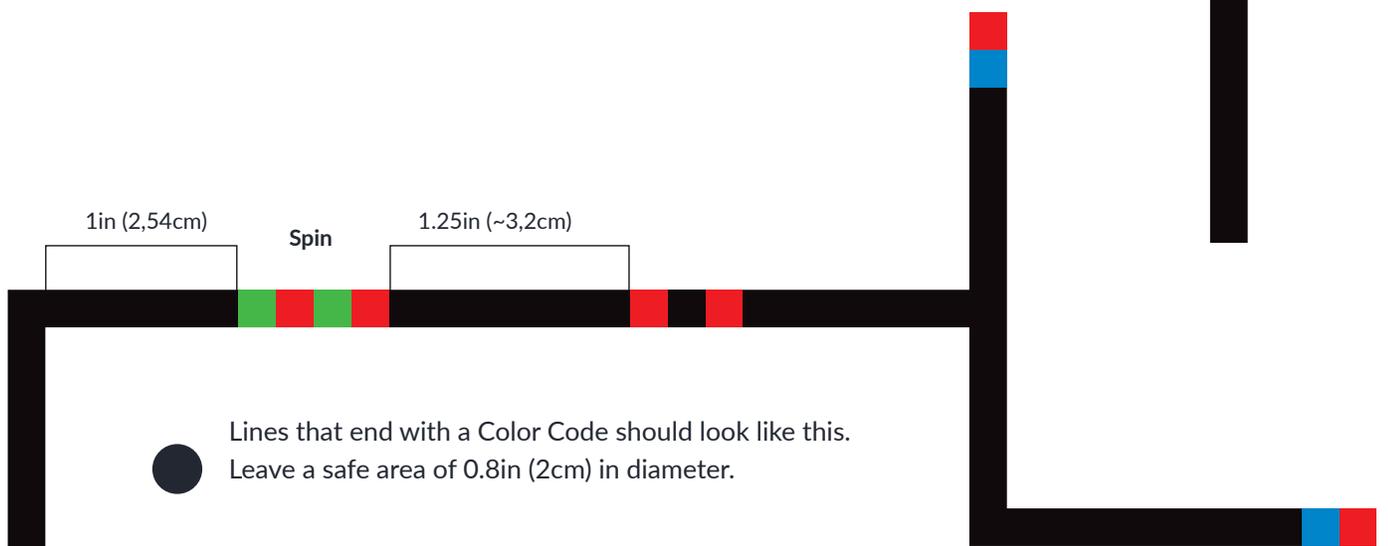
Zigzag

2.5in (6,35cm)

3 Spin and Tornado require min 1.25in after the end of the code to pick up another Color Code or intersection

4 Line Switch Right and Line Switch Left require a parallel black line beside it. Line Switch Straight requires a perpendicular line.

Line Switch Right



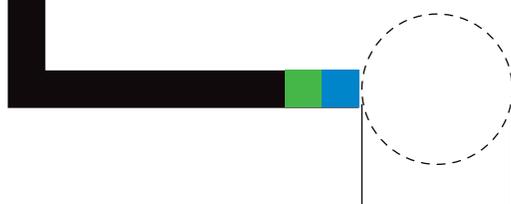
1in (2,54cm)

Spin

1.25in (~3,2cm)

● Lines that end with a Color Code should look like this. Leave a safe area of 0.8in (2cm) in diameter.

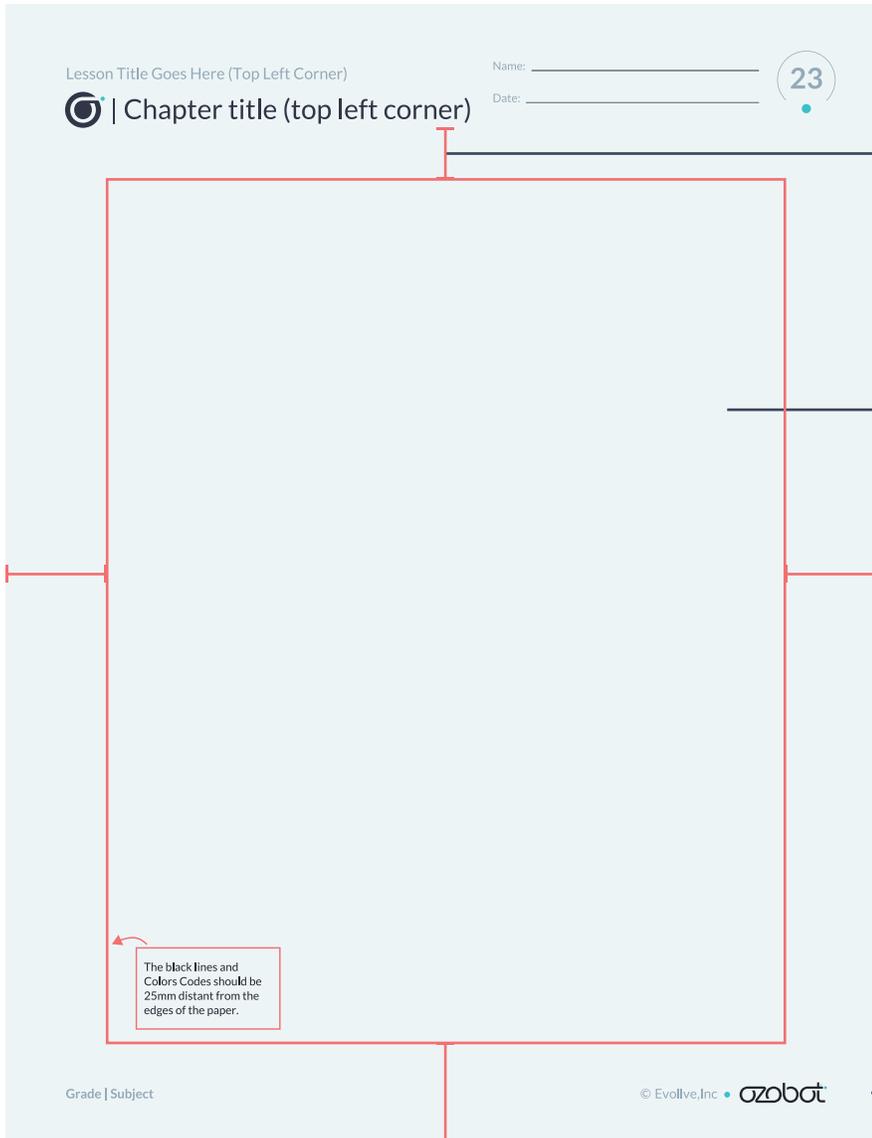
U-Turn



0.8in (2cm)

Color Codes | Lesson Maps Guide

When creating maps, print the next page and refer to the guides on this page for more information.



Any black lines and Color Codes should be placed at least 0.5in away from the titles and date/name

Any black lines and Color Codes should be placed within this red box.

Any black lines and Color Codes should be placed 1in away from left and right edge of the paper.

Any black lines and Color Codes should be placed within the red box and not touching footers.

Lesson Title Goes Here (Top Left Corner)

Name: _____

 | Chapter title (top left corner)

Date: _____

0.5in (~13 mm)



1in
(25 mm)

1in
(25 mm)

Lesson Title Goes Here (Top Left Corner)

Chapter title (top left corner)

Name: _____

Date: _____



0.5in (~13 mm)

1in
(25 mm)

1in
(25 mm)

Grade | Subject