apport.

The Future is Bright With Our Color Code Guide

April 29th, 2024

Introductions

and

Housekeeping



What we'll cover today

Newest Color Code Guidelines

Calibrating

Drawing Color Codes

Q&A

Survey



Our Purpose

Help you:

*Anticipate student misconceptions

*Feel prepared

*Be empowered in your understanding

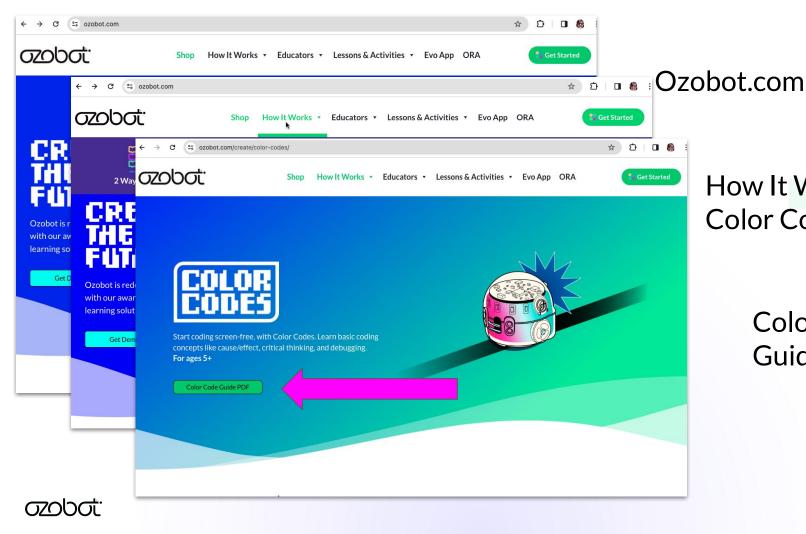
*Know where to go for further help



Color Codes Guidelines

Be sure to follow the guidelines when using Color Codes.





How It Works > Color Codes

> Color Code **Guide PDF**

What is a Color Code?

And how does Evo "see" the colors?



Color Codes and Evo's Optical Sensors



ozobot

What is a Color Code?

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



RGB: 73/183/73 CMYK: 72/0/100/0 HEX #49B749



RGB: 17/131/198 CMYK: 82/40/0/0 HEX #1183C6



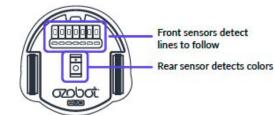
RGB: 236/32/39 CMYK: 0/99/97/0 HEX #EC2027



RGB: 0/0/0 CMYK: 30/30/30/100 HEX #000000

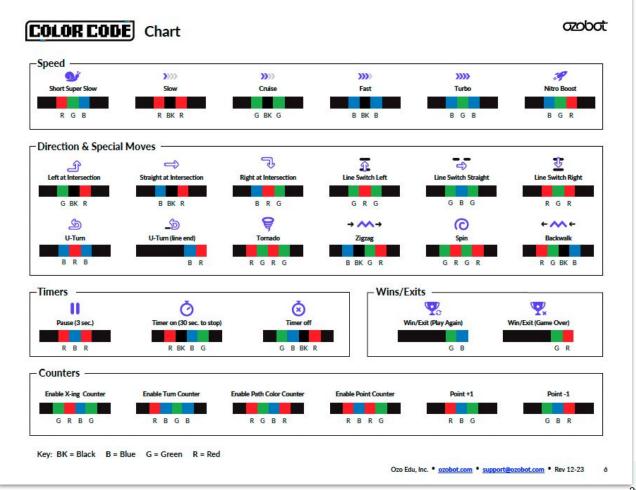
Ozobot Evo's Optical Sensors

Evo's optical sensors can read colors and line widths, enabling the bot to perform different movements.



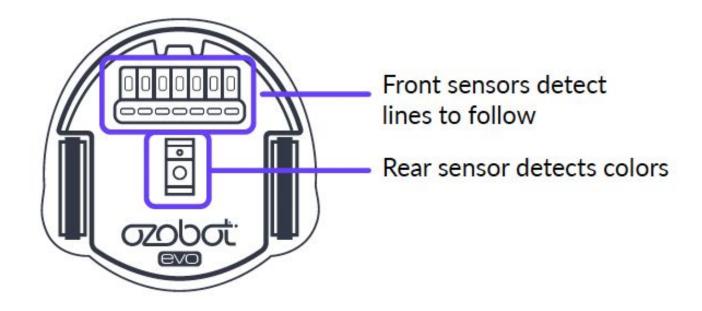


Color Code Chart





Line-following and Color Sensors



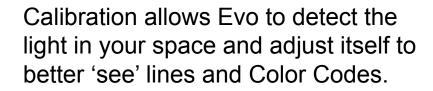


Calibration

Best practices for the initial steps of beginning a Color Code lesson.



What is calibration?





When should I calibrate?

Calibration should be done at the beginning of each session where you are using Evo.

Calibration is also the first troubleshooting step when the bot is not behaving as expected.

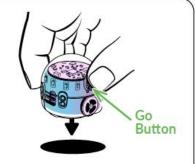


How to Calibrate



Step 1:

Draw a black circle, slightly bigger than your bot. Place Evo on it.



Step 2:

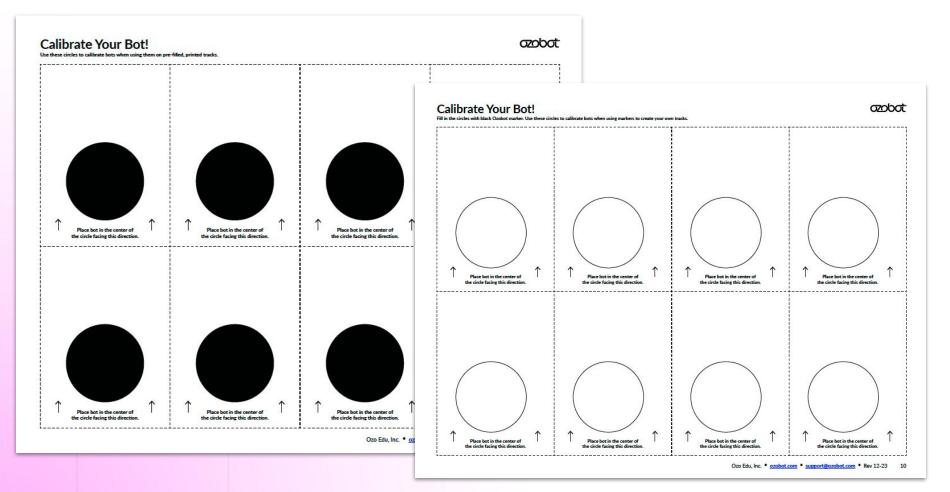
Press and hold Evo's Go Button for 2 seconds (or until its top LED flashes white), then release.



Step 3:

Evo will rotate left, right move outside the circle, and blink green when calibrated. If Evo blinks red, start over from Step 2 then release.







Specifics about drawing lines

Let's use best practices!

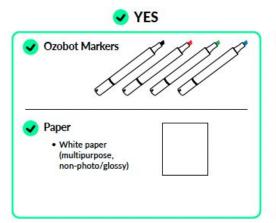


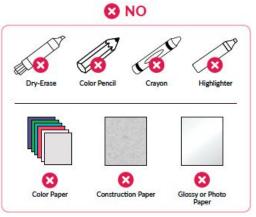
COLOR CODE Guide



Markers & Paper

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

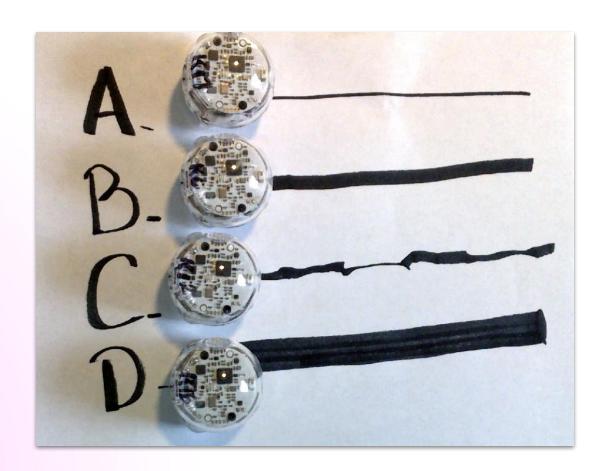






On which line will Ozobot be most successful?

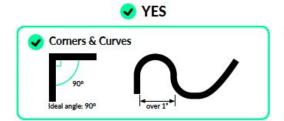
Line B

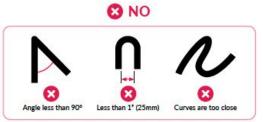


COLOR CODE Guide





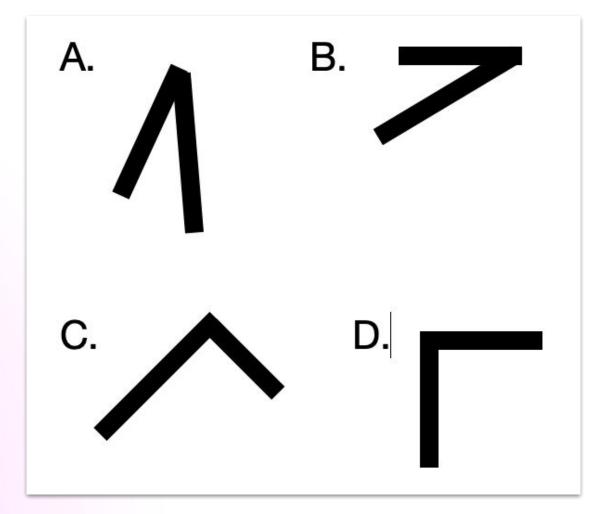






On which corner(s) will Ozobot be most successful?

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Specifics about drawing Color Codes

Let's use best practices!



COLOR CODE Guide

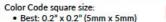


Draw Color Codes













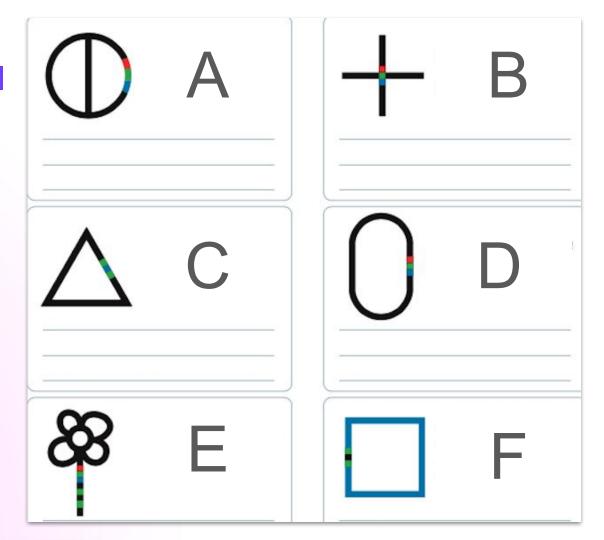






On which of these will Ozobot be most successful?

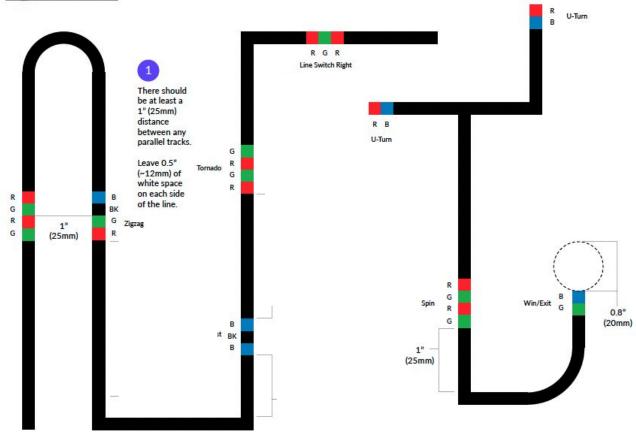
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COLOR CODE Lessons Map Guide



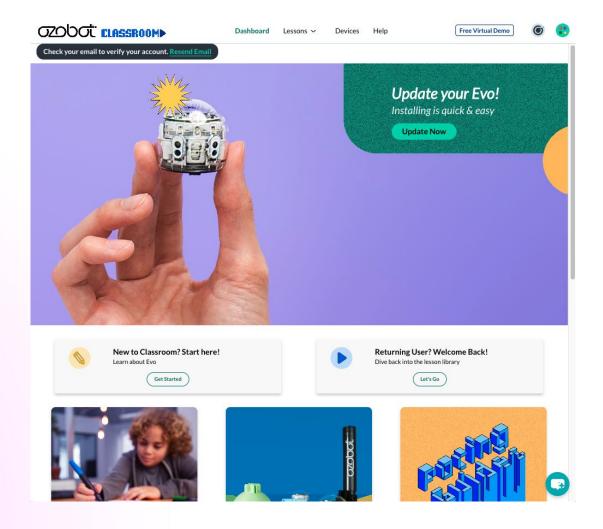






Ozobot Classroom

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Our support team's goal is to help you and your students be **successful** and feel **confident**.

Tell your friends!!

Q&A

Write your questions in the chat!





Thank you!

Please complete the 5-minute survey that will appear when the webinar is closed.

