# WELCOME TO THE OZOBLOCKLY BOT CAMP FOR EDUCATORS

Visual-based coding – like OzoBlockly – enables students to learn the creative and conceptual foundation of coding without being bogged down by the details of text-based coding. That's why block-based coding is how major universities, like Harvard and Berkeley, teach coding in the Intro to Computer Science classes.

Even if you have no experience with coding or robotics, this quick course will get you ready to teach and inspire your students with OzoBlockly's Infinite Learning Possibilities!

**SETUP**

1 Set Screen brightness

2 Go to OzoBlockly Editor

3 Clear your workspace

4 Select your bot

# SETUP
## YOU'LL NEED:

✓ **A tablet, laptop or desktop computer**

✓ **A fully charged Bit or Evo!**
(For Evo be sure to update using the Evo App or Edu Updater Utility and set to classroom mode.)

✓ **Internet access**

✓ **About 20 minutes of free time to complete the Bot Camp**

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**SETUP**

1 Set Screen brightness

2 Go to OzoBlockly Editor

3 Clear your workspace

4 Select your bot

**DO!** **Set screen brightness to 100%.**
(If your device has auto-dim, disable that.)

check box

☐

**TIP**
Screen brightness located in device setting, display.

**DO!** **Open your browser and go to ozoblockly.com/editor**

**DO!** **Close pop-up screen.**

check box

**SETUP**

1. Set Screen brightness
2. **Go to OzoBlockly Editor**
3. Clear your workspace
4. Select your bot
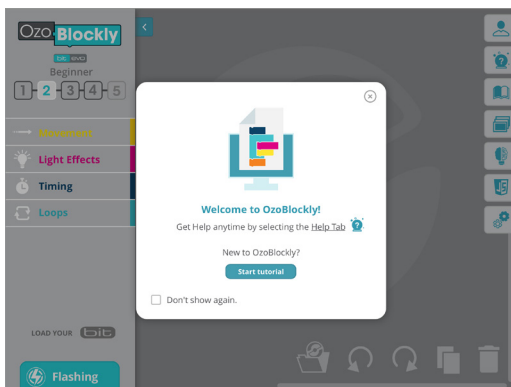


**TIPS** • If you land of ozoblockly.com instead of ozoblockly.com/editor, click "Get Started" button to get to Editor.
• Access help anytime by clicking the HELP button on the upper right on the OzoBlockly Editor.

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*If you are sharing a tablet or laptop with others using OzoBlockly, you may need to clear blocks from your workspace.*

**SETUP**

1. Set Screen brightness
2. Go to OzoBlockly Editor
3. **Clear your workspace**
4. Select your bot

**DO!** **Click on the trash icon at the bottom right of the page and select "yes" to delete blocks.**
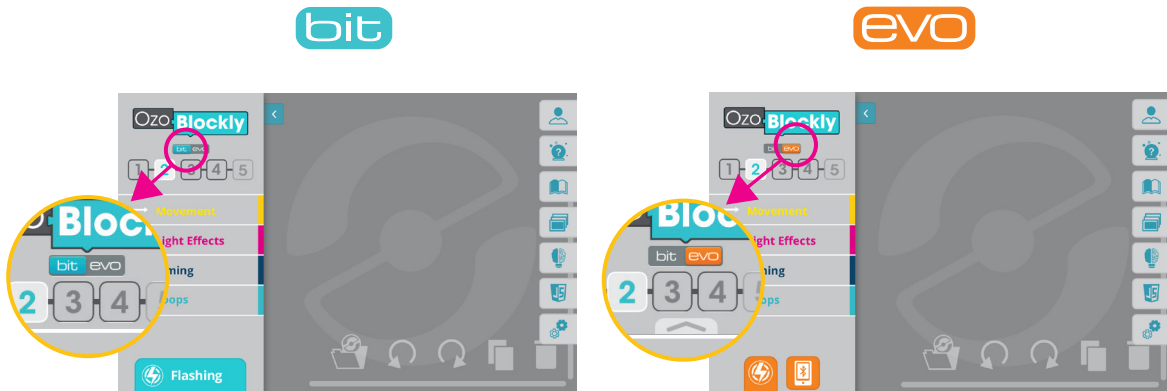
check box
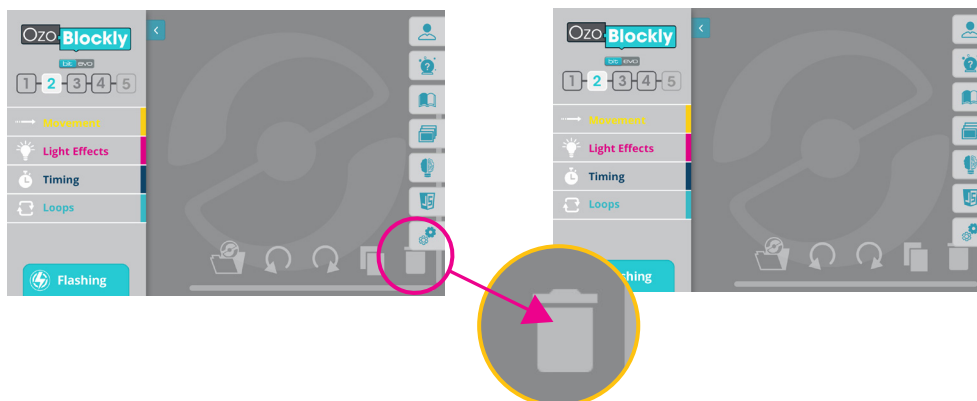




✓ Your screen should look like this

DO! **Select your bot (Bit or Evo).**

check box

**SETUP**

1. Set Screen brightness
2. Go to OzoBlockly Editor
3. Clear your workspace
4. **Select your bot**

**TIP**
Bit logo turns Blue when selected and Evo logo turns Orange.

Good Job! You're all done with Setup.
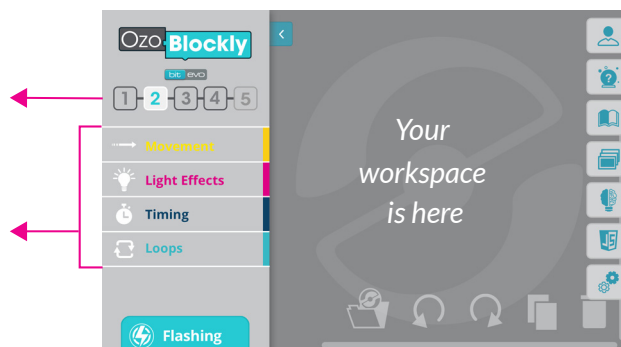You're now ready for a Fast Tour of OzoBlockly!

# FAST TOUR OF OZOBLOCKLY

DO! **Take a minute to explore. Feel free to click on OzoBlockly's different modes, categories and tools.**

check box

Modes
(Levels of OzoBlockly Experience)

Categories
(Coding Blocks)

*Your workspace is here*

Login

Help

Glossary

Examples

Challenges

Java Script preview

Settings

Once You've explored a little, you're ready to move on to an Example Program.
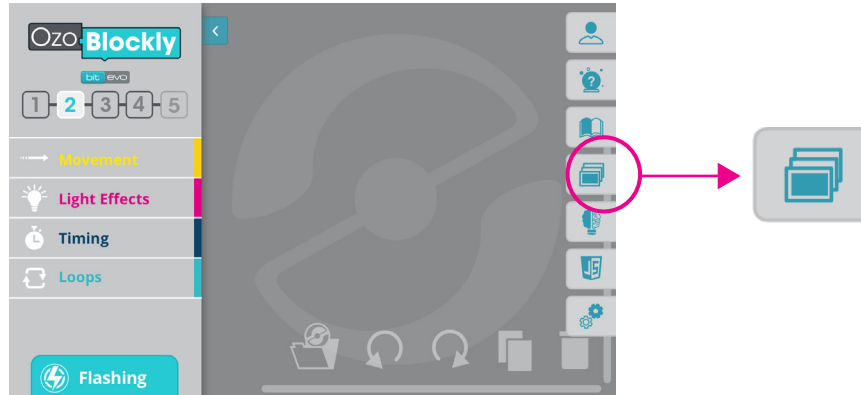
# EXAMPLE PROGRAMS

*Deconstructing and then rebuilding code is a great way to learn programming. That's why we've created some Example Programs to help you get started.*
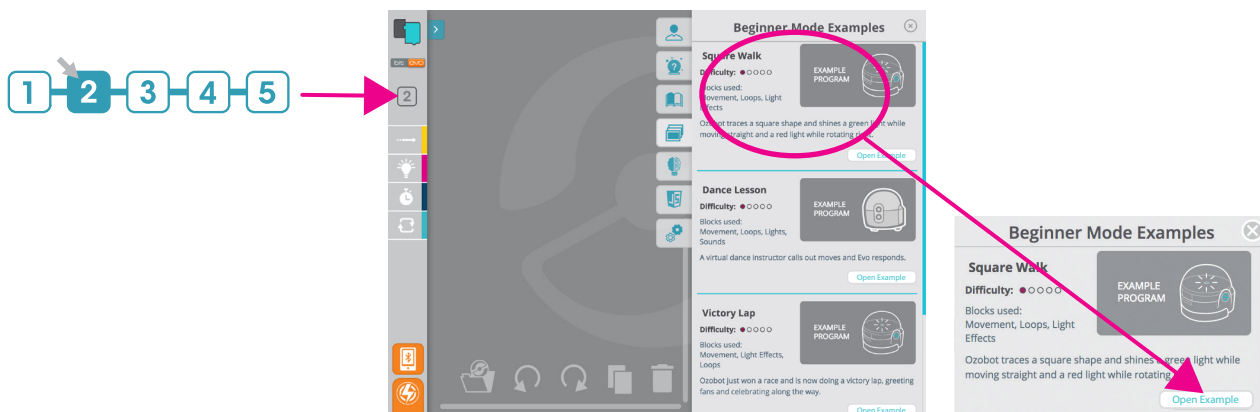
check box

☐

**DO!** Click on the "Examples" tab here.



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check box

**DO!** Make sure you are in Mode 2.    ☐

**DO!** Find "Square Walk" Example and click "Open Example" for square walk.    ☐

*The "Square Walk" example will now appear in your workspace.*

check box

**DO!** **Read the blocks and try to understand what the example does.**

☐

```
repeat  4 ▾  times
do      set top light color  🟩
        move  forward ▾  distance  4 steps ▾  speed  medium ▾
        set top light color  🟥
        rotate  right ▾
```
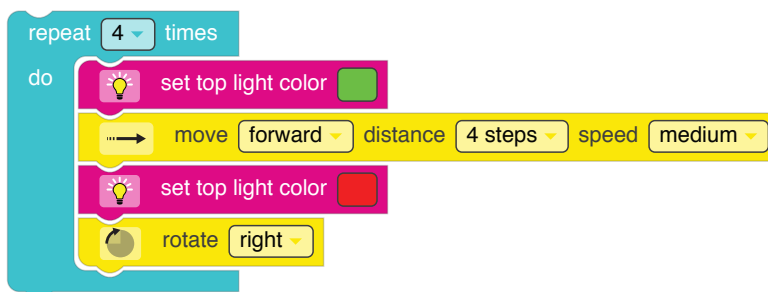
🙂 Understand why the program is called "Square Walk"? Well Done! You are now ready to start Flash Loading to your bot. The first step of Flash Loading is Calibrating to your screen.

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**CALIBRATE**

# ABOUT CALIBRATION

**1** About Calibration

**2** Prepare to Calibrate

**3** Calibrate Now

**4** Complete Calibration

**Calibration prepares your Evo and Bit for Flash Loading. During Flash Loading, your bot will read the program as a series of color flashes through its optical sensors. Calibration makes sure the bot sees the color flashes properly.**

**TIP**
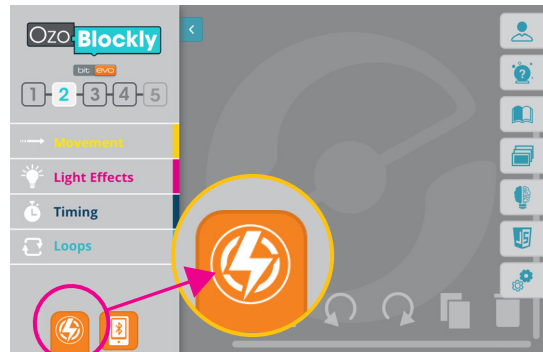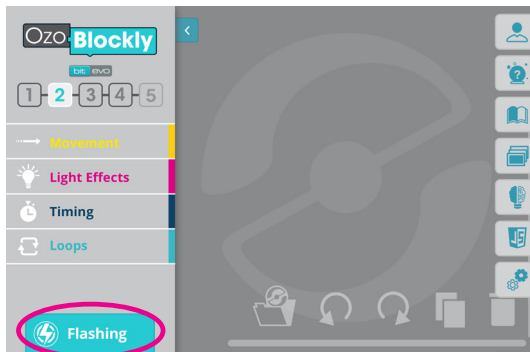**You only need to calibrate once per session before the first load.**

check box

□

**CALIBRATE**

1 About Calibration

2 **Prepare to Calibrate**

3 Calibrate Now

4 Complete Calibration

**DO!** **Open Flash Loading tool by clicking on the "Flashing" icon in the lower left of your screen.**

bit

evo

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check box

□

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**CALIBRATE**

1 About Calibration

2 Prepare to Calibrate

3 **Calibrate Now**

4 Complete Calibration

BIT EVO

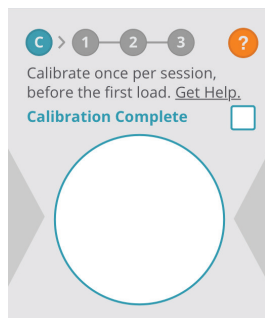**DO!** **Click on ? ? or "Get Help" for step-by-step instructions on how to calibrate.**

**DO!** **Check to make sure your bot blinked GREEN after calibrating. (See calibration video and troubleshooting tips if bot blinked RED instead).**

**DO!** If your bot blinks GREEN, select "Calibration Complete" in lower left window. This lets OzoBlockly know you are ready to Flash Load your bot and you don't need to calibrate again this session.

check box

☐

## CALIBRATE

1 About Calibration

2 Prepare to Calibrate

3 Calibrate Now

4 Complete Calibration



C ⟩ 1 — 2 — 3    ?

Calibrate once per session, before the first load. Get Help.

**Calibration Complete**  ✔

☺ **Fantastic work calibrating to your screen! Now you are ready to Flash Load.**

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## LOAD PROGRAMS

1 About Loading

2 Place Bot on Loading Spot

3 Activate Loading

# LOAD PROGRAMS

*Now, you're ready to Flash Load your program. How is loading different than calibrating?*

- **Calibration** adjusts the sensors to your screen.
  *You initiate your calibration by PRESSING and HOLDING your bot's power button.*

- **Loading** transfers the program from the editor to your bot.
  *We will use Flash Loading to upload the program. That means a series of color flashes sends all necessary information via the color sensors underneath the bot.*

**DO!** Make sure your bot is powered on.
*(Look for a light on top of your bot. If you don't see a light, click the power button once).*

**LOAD PROGRAMS**

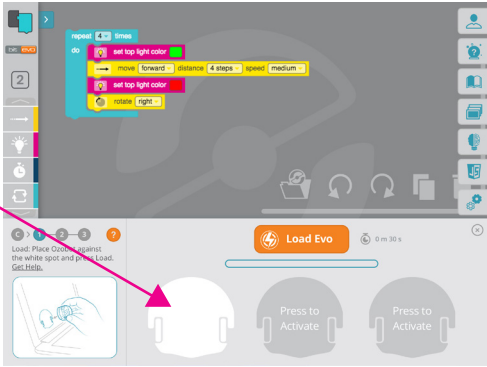1 About Loading

2 Place Bot on LoadingSpot

3 Activate Loading

check box

**DO!** Place the bottom of your bot on the loading spot directly on your screen.

Bot Loading spot

**TIP**
You'll want to make sure the loading spots (which are like bot footprints) are white before you use them. If a loading spot is grey, press to activate.
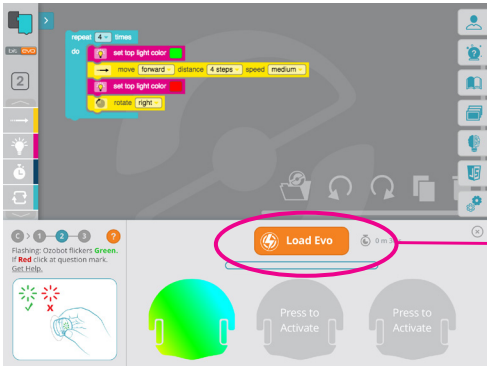
15

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**DO!** Click on "Load Bit" or "Load Evo". Make sure your bot blinks GREEN until the progress bar shows loading is complete. If your bot turns RED during loading, something went wrong. Open HELP.

**LOAD PROGRAMS**

1 About Loading

2 Place Bot on Loading Spot

3 Activate Loading

check box

**DO!** To get help loading, click BIT EVO ? ? or Get Help for step-by-step loading instructions *(Check out the How to Load video and troubleshooting tips if needed).*

Load Evo

or

Load Bit

**TIPS** • A green light on the bot during the loading process signals successful loading.
• The progress bar under the "Cancel" button tells you how much time is left in the loading process.

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*Did your bot blink green until loading was complete?*

**DO!** **If YES, move on to Run Programs. If NO, try again or check out the Troubleshooting Tips or How to Load Video in the HELP window.**

**Did Loading Fail?**

**TROUBLESHOOTING:**

- Make sure to hold your bot steady during the load process
- Make sure that the screen brightness is at 100%
- Turn off auto-dim feature
- Turn off any "blue-light filter"
- Minimize ambient light from windows and overhead lights
- Calibrate again
- Re-start your browser and close all other tabs
- Make sure your Ozobot is sufficiently charged

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# RUN PROGRAMS

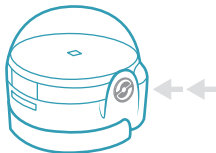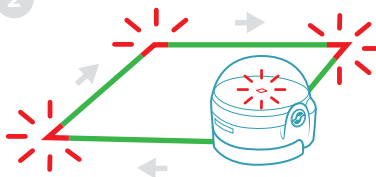**DO!** **Check to make sure your bot is still on!**

**DO!** **Place bot on a table or desk and double-click the power button. (as fast as saying 1-one-thousand, 2-one-thousand).**

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## Success?

**You should see bot go in a square.** *The **top LED should be green** while tracing the sides of the square and **red** while turning.*

**TIP:** If you double double click too slow, you might accidentally turn your bot off. If you double click too fast, bot might only sense 1 click. Timing is everything!

# CONGRATULATIONS!

**You completed Bot Camp for OzoBlockly.**
**You're ready to take on the Infinite Possibilities for Ozobot and your students!**

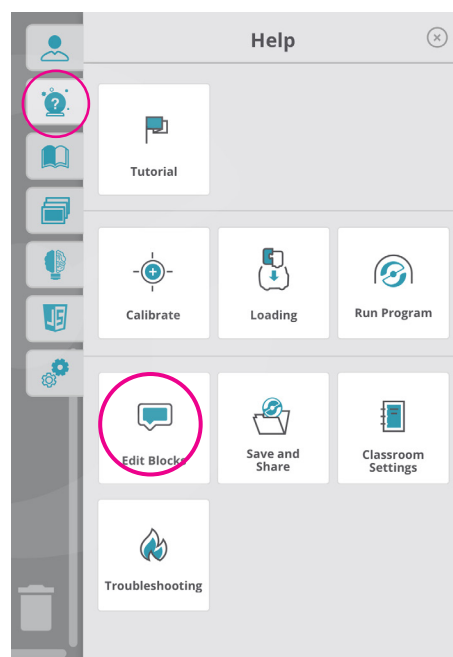*If you'd like to explore more now, check out the* **GOING FURTHER SUGGESTIONS.**

## GOING FURTHER
### EDIT BLOCKS

**DO!** **Open the Edit Blocks Tab in Help for instructions on how to Modify, Add or Delete Blocks to make your own program.**

*Remember, bot will store the last program you loaded. (Even if you turn it off). If you create a new program, you'll need to load it to your bot.*
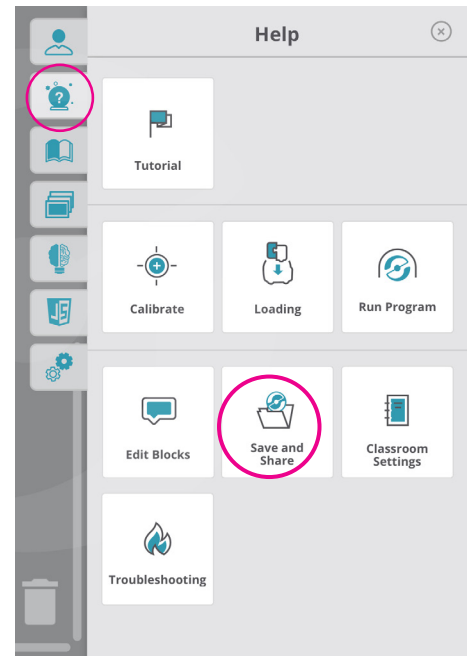
# GOING FURTHER
## SAVE AND SHARE

**DO!** **Open the save and share Tab in Help for instructions on how to save programs to work on later or share programs to collaborate.**

**Help**

Tutorial

Calibrate

Loading

Run Program

Edit Blocks

Save and Share

Classroom Settings

Troubleshooting

**Explore the OzoBlockly Example Programs and Challenges in other Modes.**

**Check out our Lesson Library at www.portal.Ozobot.com for hundreds of FREE lesson ideas including OzoBlockly Basic Training.**

**Games!** **Visit OzoBlockly.com/games for more activities including no-robot required challenges.**

**Share your classroom's projects on Facebook, Twitter, YouTube or Instagram. (or check out what other teachers are doing there for inspiration).**

**Contact us as ozoedu@ozobot.com anytime for a 1-1 consultation.**