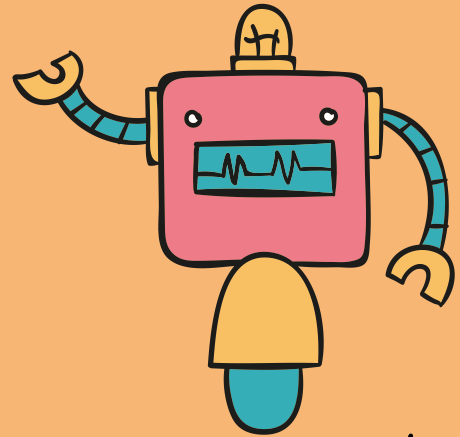
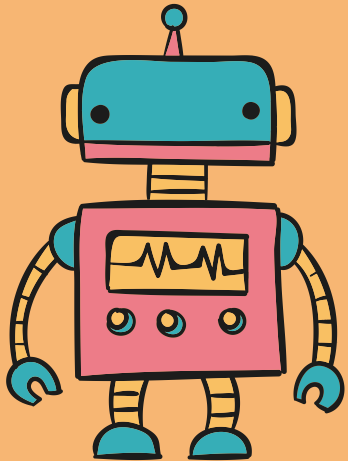


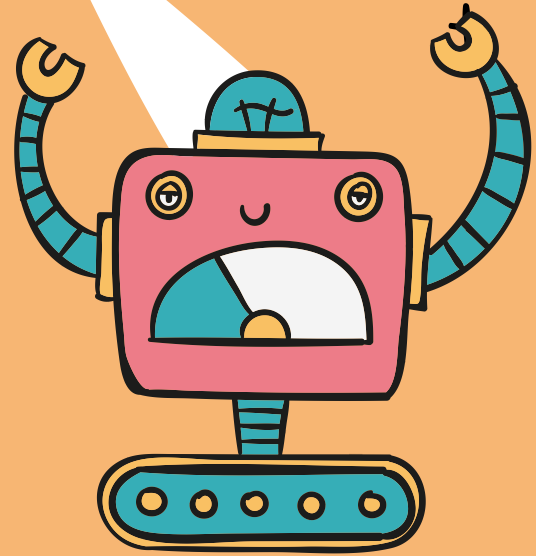
Edison Robots

Girls Code Club Session 4



01

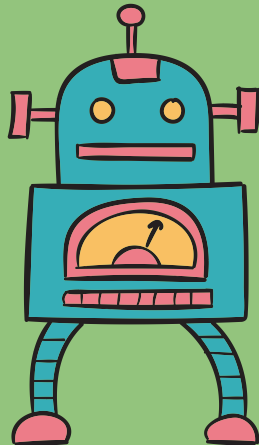
**What are Edison
robots?**



An Edison robot is...

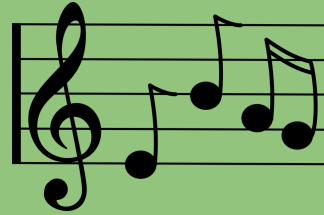
A robot is a machine that can be made to do a task on its own.

There are many types of robots.
Different robots can do different things



An Edison robot can⁺...

SING!



DANCE!



LISTEN!

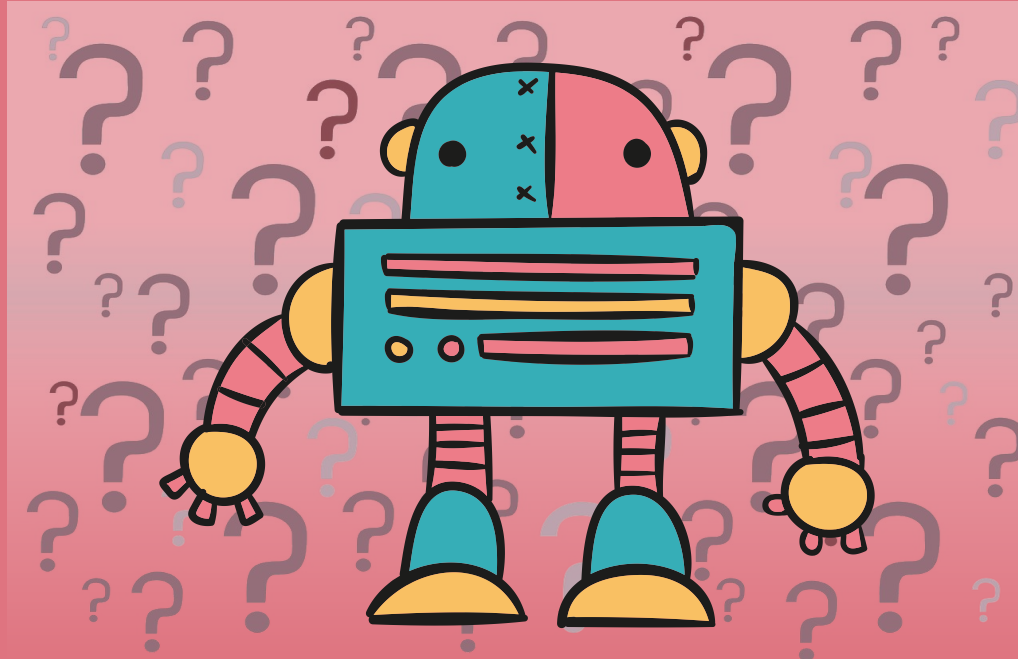


SEE!



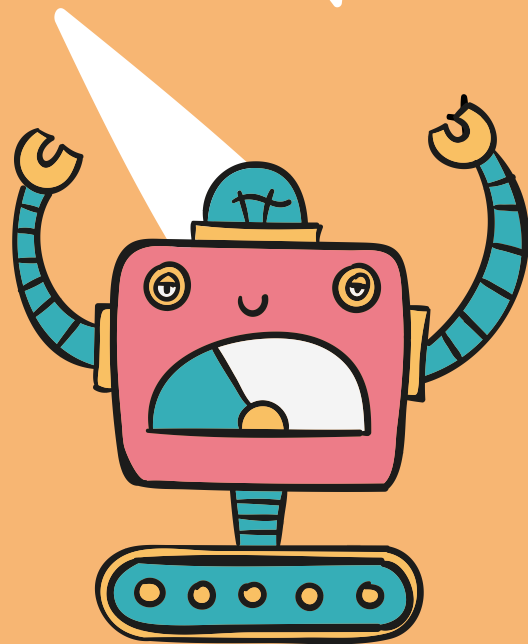
An Edison robot can NOT...

Think by itself!!

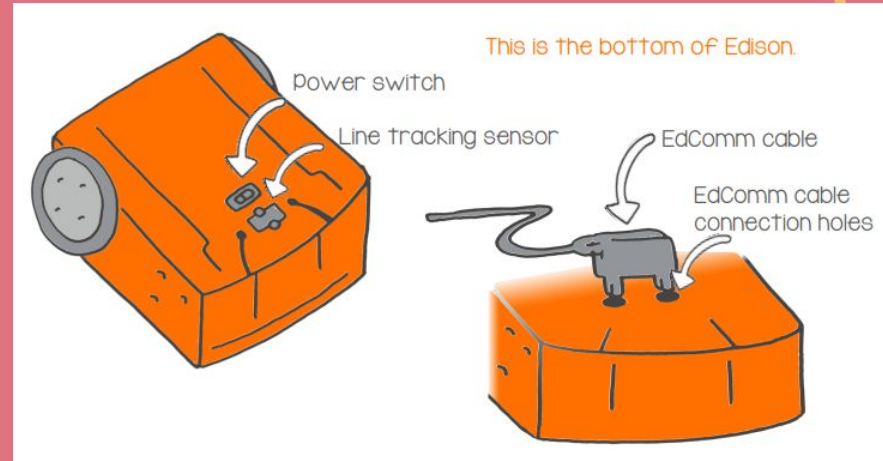
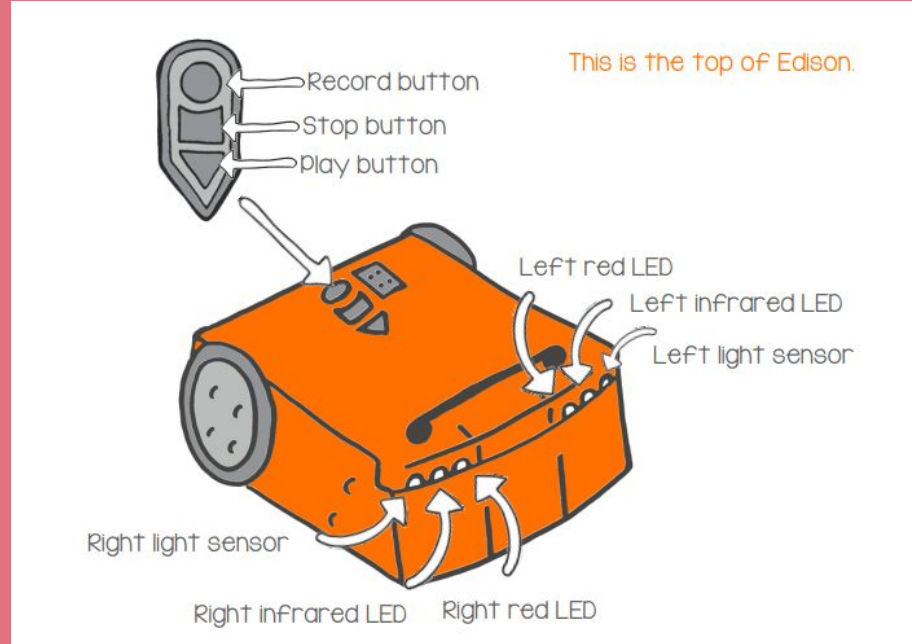


02

Parts of the Edison Robot

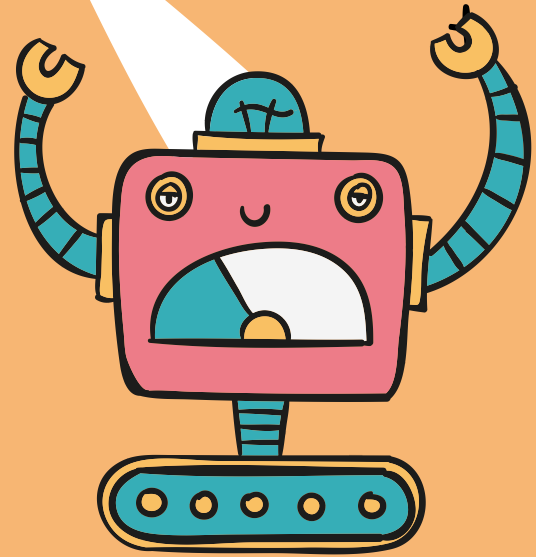


Buttons & Sensors



03

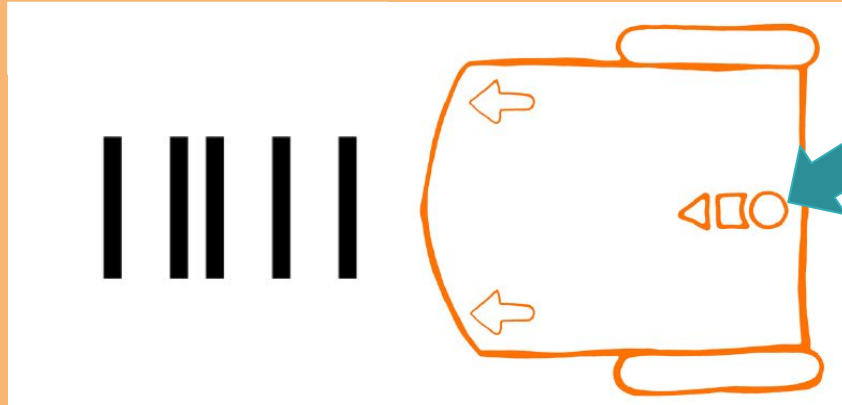
Let's help the
robot "Think"
with programming!



Line Tracking

Make the Edison robot follow a line!

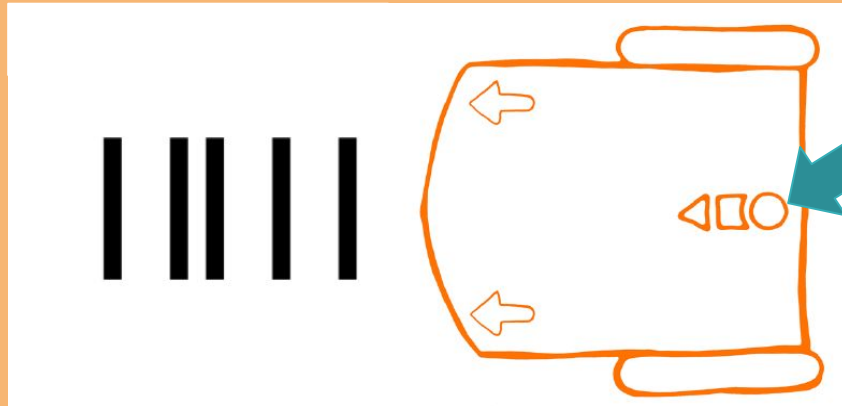
Find your workbook page with the title “Line Tracking.” Put the Edison robot right-side-up on the outline of the shape of the Edison robot. Now, press the record (round button) three times - this will make the robot drive over the barcode and read the program that tells it to stay on the line. Try it out on the next page of your workbook!



Bounce in Borders

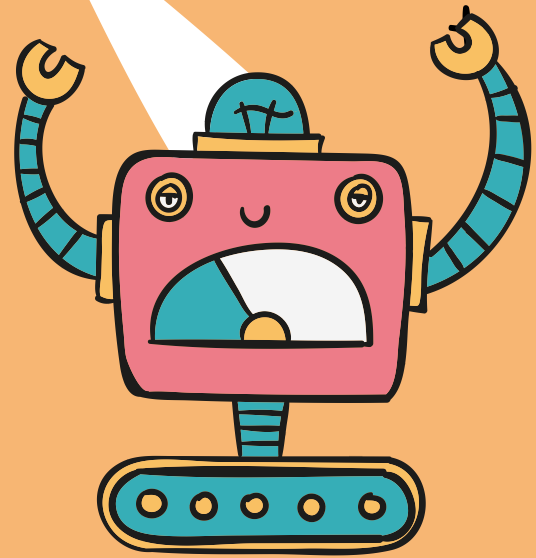
Make the Edison robot stay inside the lines!

Find your workbook page with the title “Bounce in Borders.” Put the Edison robot right-side-up on the outline of the shape of the Edison robot. Now, press the record (round button) three times - this will make the robot drive over the barcode and read the program that tells it to stay inside the circle. Try it out on the next page of your workbook!




04

Let's write our
OWN programs!

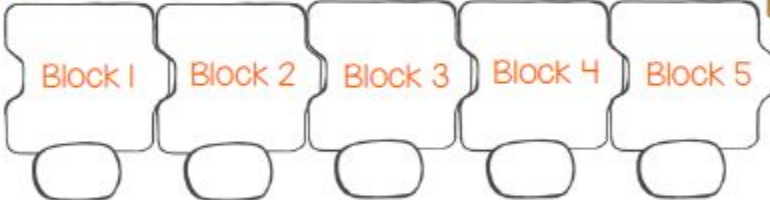


Programming an Edison Robot



You already know Edison.

Now it is time to use EdBlocks.



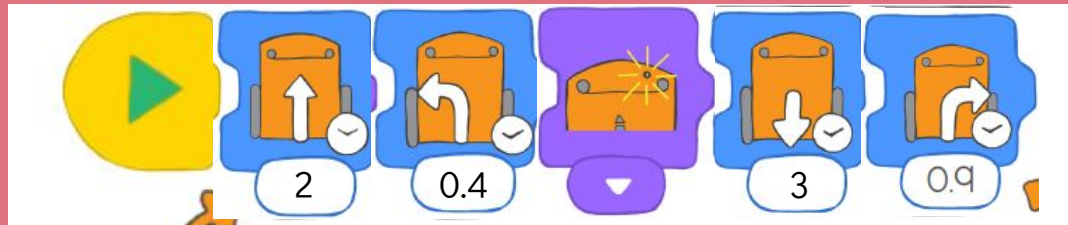
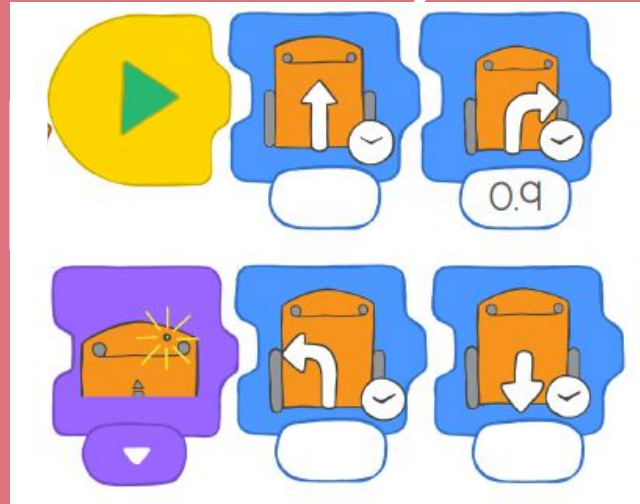
What is EdBlocks?

EdBlocks is a robot programming language we can use to program Edison.

You can program Edison to do different things using EdBlocks.

Solve the puzzle

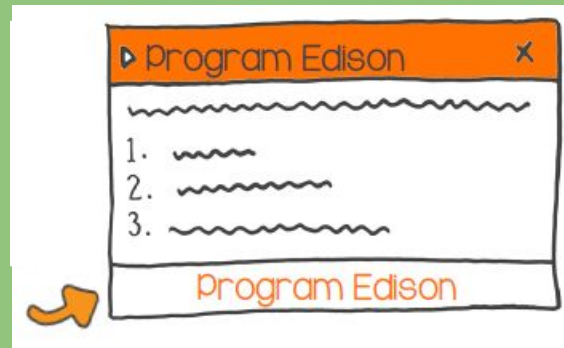
1. Drive forward for 2 seconds
2. Turn left for 0.4 seconds
3. Turn on the right LED light
4. Drive backwards for 3 seconds
5. Turn right for 0.9 seconds



Downloading Programs to Edison

edblocksapp.com

1. Make sure the volume is turned up all the way on the computer
2. Write your program!
3. Connect Edison to the computer with the EdComm cable
4. Push the record button (round button) on Edison one time
5. Look in the top right corner of the app. See where it says 'Program Edison'? Click on Program Edison



Let's Drive

Make the Edison robot cross the finish line!

Find your workbook page with the title “Let's Drive.”

Write a program that makes the robot drive forward for 10 seconds.

Program your edison robot and test out your program on the next page.

Does it cross the finish line?

Can you make it stop driving after it hits the finish line?

