



# JAVASCRIPT CONDITIONALS

Girls Code Club Lancaster

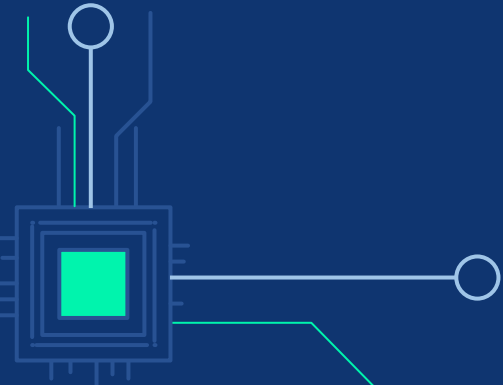




01



**SHERO OF THE MONTH**



# CAROL SHAW

- **First** female game designer
- Built tic tac toe for Atari
- **Paved the way** for future women in video game development
- [YouTube Video - Carol Shaw](#)





# CAROL SHAW QUESTIONS

1

What was Carol Shaw the first to do?

Female code a video game!

2

What is something that you like about Carol Shaw?

3

What is your favorite video game?

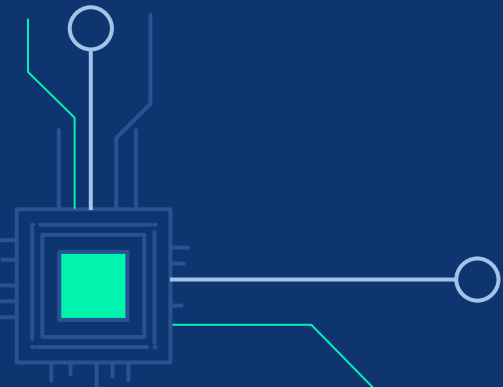
4

What is the oldest gaming system you've played on?



02

# LESSON REVIEW



# LESSON REVIEW

## QUESTIONS

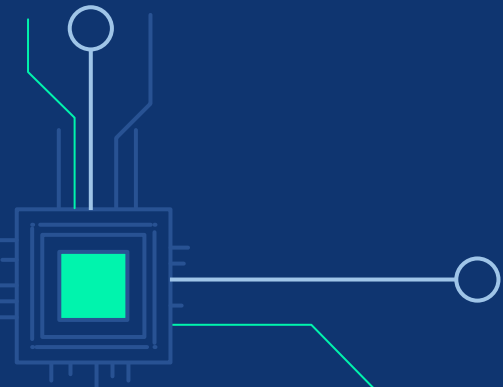
- What is an `<img></img>` tag used for? Images
- What is HTML? Tells the website what to show - structure of our house or bones in our body!
- What is CSS? The styling for our website - the clothes on your body or paint in the house.
- What is the `<p></p>` tag used for? Text / paragraphs
- When you open a tag, what must you **always** do? Close it!!!
- What is JavaScript? It adds action to the website.
- What does an Edison Robot use to “see” the path it’s supposed to follow? sensors





03

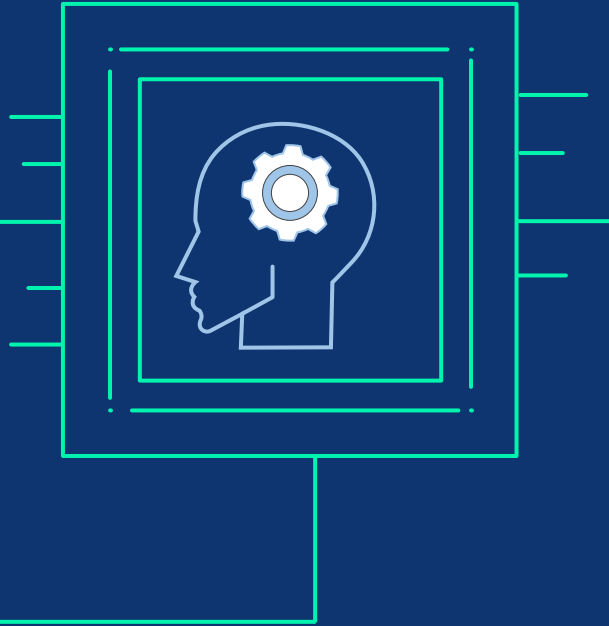
# CONDITIONALS



# DON'T FORGET WHAT'S IMPORTANT

- Conditional - "We want to do different things based on a given value"
- Computer reads code TOP DOWN
- "if" starts the conditional
- "if else" adds other conditions your code can check
- "else" is the last statement in your list of conditionals





## THAT WAS A LOT OF INFO!!!

*The next video will review everything we've talked about in a way that should make a lot of sense.*

*YouTube: [Conditionals Video](#)*

# EXAMPLE CONDITIONAL

*What does Emma's dog wear on a walk outside?*

```
if (today is Halloween) {  
    Moira wears a hotdog costume!  
} else if (it's cold outside) {  
    // It's not Halloween and it's cold outside.  
    Moira wears a vest.  
} else if (Moira had a haircut) {  
    // It's not Halloween, not cold, and she just had a haircut.  
    Moira wears a robe.  
} else {  
    Moira wears her harness.  
}
```

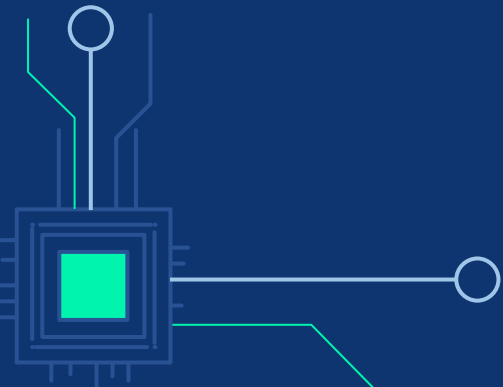




04



LET'S WRITE A CONDITIONAL



# WHAT ARE WE ACCOMPLISHING?

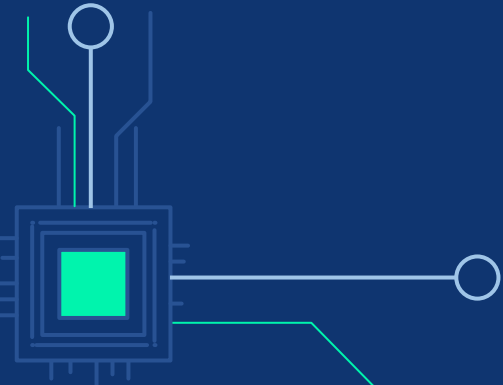
- Get the color we'll type into the form's input
- Set the background color of our website to this color
- Based on that color, we're going to change the font color for the rest of the website.
  - **Why?** If we change the background color to something dark, we won't be able to see our black text
- Next Steps: add more colors!



05



**BRING IT BACK TO THE SHE-ROES**



# CAROL SHAW ACTIVITY

Carol Shaw was the first female video game programmer, who built games like tic tac toe for the Atari.

## Critical Thinking

If you had to build your own tic tac toe game, what pieces would you have to program?

- The tic tac to board
- The “X” pieces
- The “O” pieces
- What else??? A conditional!



# CAROL SHAW ACTIVITY

We've met a lot of SHERos over the last few months!

- Ada Lovelace - She was the FIRST programmer! She was a Countess, mathematician, and writer.
- Grace Hopper - She was a computer scientist for the United States navy and became a rear admiral. She invented the world's first **computer compiler**, which translates code language into something that humans can understand.
- Margaret Hamilton - She worked for NASA and wrote critical code that aided in the first landing on the moon. She is still alive today!
- Hedy Lamarr - She was an actress that laid the groundwork for WiFi and GPS.
- Carol Shaw - She was the first female video game developer and is also still alive today.





# WHO IS YOUR FAVORITE SHE-RO?

Why is she your favorite?

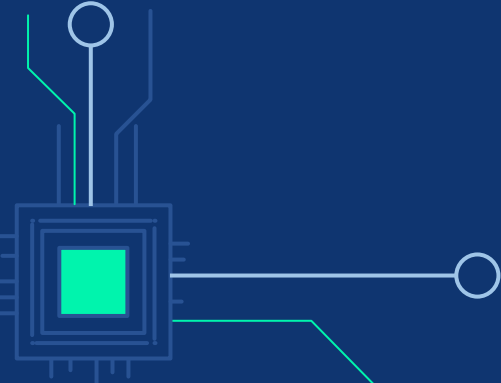






06

# INTRO TO FOR LOOPS



# INTRO TO FOR LOOPS

This is just an introduction - we will go over for loops more in future sessions!

YouTube - [For Loops Introduction](#)



# PRACTICE WITH CODECOMBAT

We're going to use CodeCombat to continue learning about syntax, methods, parameters, strings, and loops!!! Many of you expressed interest in video games, so we wanted to combine this interest with learning.

## How To - Code Combat

1. Go here: <https://codecombat.com/>
2. Click "I'm a Student".
3. Enter our class code: **SingSweetNorth**
4. You will be asked to create an account.
  - a. DO NOT use any personal information.
  - b. DO use your Girls Code Club username for BOTH the name and username fields.
  - c. Enter any letter for the "last name initial" field
  - d. If you think you will forget your password, write it on the inside of your name tag.

