

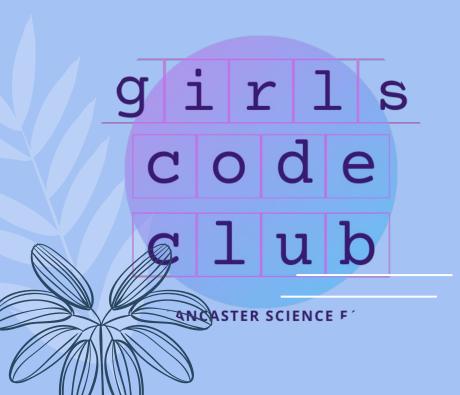
01

GROUND RULES

What to expect in Girls Code Club for the next year!



OUR RULES



In Girls Code Club, we:

- Show kindness to other coders.
- Try our best, and learn from our mistakes.
- Are active listeners, and ask questions.
- Encourage our peers, and help them learn.





02 ICE BREAKER



What's an Ice Breaker?





A way for each coder to get a little more comfortable around their peers.

Algorithms

In code, we sometimes have things called sorting algorithms.
Algorithms are a set of instructions. What does sorting mean?

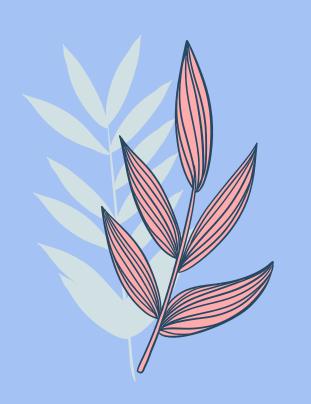


Sort Animals By Size (Silently)

The Game

- Each coder will get a piece of paper with an animal name on it.
- Goal: Sort yourselves from largest to smallest animal!
- Rules: You cannot say any words, or make any sounds. You cannot show anyone your piece of paper.





03
INTERNET SAFETY

Internet Safety

Once you put something online, it's there forever. You can take it down, but someone may have already seen it and saved it. Because of this, we shouldn't be putting anything personal online.

What is an example of personal information that should not go on the internet?



- Safety Video
- Quiz #1
- Quiz #2

https://cliqz.com/en/magazine/10-tips-better-internet-safety

Internet Safety (Exercise)

Come up with a username! This will be used on anything public-facing that we make in Girls Code Club. It can be anything you want it to be, but should **not include personal information.**

Do NOT Include Your:

- Name
- Nickname
- Age
- Birthday
- Address
- School or grade level

You COULD Include Your:

- Pet's name
- Favorite Animal
- Favorite # or color
- What you want to be when you grow up
- A username you already use





O4 SHERO OF THE MONTH

Radia Joy Perlman



Radia Joy Perlman, "Mother of the Internet"



- From New Jersey, and still alive today!
- Only girl in her college classes
- Created a kid-friendly coding language, and pioneered teaching young kids how to code!
- Spanning Tree Protocol created network/internet security





O5
SHEro Plaque



SHEro Plaque in Hall of Heroes

Each year, we have the opportunity to get a plaque created in the Lancaster Science Factory that will be dedicated to this years' Girls Code Club! Because a lot of you are returning coders, you get to vote on the plaque we make this year.

- Hedy Lamarr
- Carol Shaw
- Anita Borg
- ENIAC Women
- Gladys West (typo in the handout)
- Shaffi Goldwasser



Using Python!



Variables (Video)

```
ow).on('resize', function(){co
var width = $(window).width();
if(width < 750){
     cardssmallscreen();
 Jelse{
    cardsbigscreen();
```

A variable...

Stores information so you can use it later. The **value** of your variable can change, but the **type** must stay the same. Types:

- Number
- String (text)
- Boolean (true or false, yes or no)



Variables - Continued



Python

pples = 3

A variable...

 Is called a "var" (short for variable)

 "var" is used a lot in JavaScript, but we're learning Python!

Python doesn't need any of that (:





A variable...

Is also kind of like putting something in a box!

cats = 1;

How many cats do I have in my box?





What if...

cats = 5;

How many cats do I have in my box now?





A variable can also...

Be a string. Strings are just text wrapped in quote marks - " ".

Let's use **dogCostume** to describe what my dog is wearing!

dogCostume = "hot dog"





Another example...

dogCostume = "harness"

Question: Can I change the variable **dogCostume** to **false**, to show that she doesn't have clothes on anymore?

Answer: No! That would be changing the variable **type** from a string to a boolean. Now that **dogCostume** is a string, it must always be a string.



Variable Expressions

Variables can be written as an **expression**, just like in math! See if you can figure out what the values of these variables are:

apples =
$$5 + 3$$

cats = 4

dogs = 1

geckos = 1

pets = cats + dogs + geckos



Variable Expressions

Even though strings are text, you can add them too!

food = "bean"

word = color + food

That makes "greenbean", but what if I want to include a space between the words "green" and "bean"?



Try it Yourself!

Using the interactive editor on W3Schools, tell us how many pets you have.

Then, create the following sentences using Python!

- Emma has 5 pets.
- The year is 2022.
- There are 6 colors in the rainbow.
- Girls Code Club has 9 sessions.
- If my parents were going to adopt a cat tomorrow, I would name it
- My favorite thing I did this summer was ____.
- I want to learn ___ in Girls Code Club this year.
- My favorite food is ____.
- My favorite number is ____.
- I know the following coding languages ____, ____, ____.



THANKS!







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