The Basics

Ground rules, internet safety, variables
& Hedy Lamarr

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?

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

- Safety Video
- Quiz #1
- Quiz #2

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

Example Username: **blue_f0x_C0der**

04
SHERO OF THE MONTH

Hedy Lamarr

Hedy Lamarr

Hedy Lamarr is our SHEro of the month!

She was an actress that many of our parents or grandparents watched in movies, back in the day. But that's not all! Hedy also laid the groundwork for technology like WiFi, GPS, and bluetooth. In other words, her work allows different things in tech to talk to each other.

06

Variables

Using Python!

Variables (Video)

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

A variable...

Is also kind of like putting something in a box!

cats = 1;

How many cats do I have in my box?

Variables

What if...

cats = 5;

How many cats do I have in my box now?

VARIABLES

A variable can also...

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

Let’s use **catCostume** to describe what my cat is wearing!

```
catCostume = “Hawaiian shirt”
```

VARIABLES

Another example...

```
catCostume = "bow tie"
```

Question: Can I change the variable **catCostume** 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 **catCostume** 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:

pumpkins = 5 + 3

cats = 4

dogs = 0

geckos = 1

pets = cats + dogs + geckos

Variable Expressions

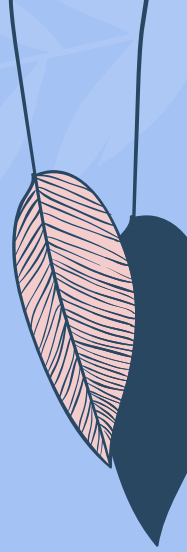
Even though strings are text, you can add them too!

color = “green”

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 ___, ___, ___.

Exercise #1

Then, **create the following sentences using Python!**

- Emma has 5 pets.

main.py +

```
1  stringStart = "Emma has "
2  pets = 5
3  stringEnd = " pets."
4
5  print(stringStart + str(pets) + stringEnd)
6
```