

JAVASCRIPT

Mastering Javascript



github: 2Kronos

# Console

* Display important messages like erros[1]
* If we want to see the a specific line of code that is running in the background we can print or log to our console.
* We use the .log() method to print whats inside the parenthesis on to the console.

# Data types

The first 7 are the primitive data types.

1. Number: Any number, including numbers with decimals: 4, 8, 1516, 23.42.
2. BigInt: Any number, greater than 253-1 or less than -(253-1), with n appended to the number: 1234567890123456n.
3. String: Any grouping of characters on your keyboard (letters, numbers, spaces, symbols, etc.) surrounded by single quotes: ' ... ' or double quotes " ... ", though we prefer single quotes. Some people like to think of string as a fancy word for text.
4. Boolean: This data type only has two possible values— either true or false (without quotes). It’s helpful to think of booleans as on and off switches or as the answers to a “yes” or “no” question.
5. Null: This data type represents the intentional absence of a value, and is represented by the keyword null (without quotes).
6. Undefined: This data type is denoted by the keyword undefined (without quotes). It also represents the absence of a value though it has a different use than null. undefined means that a given value does not exist.
7. Symbol: A newer feature to the language, symbols are unique identifiers, useful in more complex coding. No need to worry about these for now.
8. Object: Collections of related data.

# MATHS

Can be done in the console

* There is an order that must be adhered to when maths in JavaScript.
* The order can be controlled by using brackets .
* Best practiced when calculating money is to calculate in cents instead of dollars because calculation with floats are sometime inaccurate.
* Math.round() [use to round off numbers]

# STRINGS

Can be done in the console as well

1. ‘…….’
2. “…….”
3. `……..` (template strings)

* Use single quotes ‘’ by default  
  Double quotes can when you use single notes in your string for word like it’s

" I'm learning Javascript"

* Can also use an escape character \’

This combo act as one character the comma is the text   
' I\'m learning javascript' (same out come)

It does not start or end the sting

* \” creates a double quote as text
* \n new line character
* Use alert(); to make a pop up on your window
* Can add string together using + (concatenation)
* string + number = string
* Strings follow order of operation left to write  
    
  '$' + 20.95 + 7.99

'$20.957.99' (here it just put the 7.99 with the rest of the word because it is a string)

'$' + (20.95 +7.99) (order of operation)

'$28.939999999999998'

'$' + (2095 +799)/ 100 (float number inaccuracy)

'$28.94'

## Template strings

`……`

* Can do interpolation = insert value directly into a string

`Item (${ 1 + 1}): $${(2095 + 799)/100}` dollar

'Item (2): $28.94'

${} = insert value directly into string

* Multi line strings

## Auto type conversion

* Can check whtat type a value is using typeof (automatic type conversion) can be used to add signs to number in my example I was adding dolar signs to numbers

# HTML

* Nesting element inside of a element

<p> paragraph of the text <button>Hi</button></p>

* Multiple spaces are combined into 1 space on webpage
* New lines count as spaces

## HTML Attributes

* Attributes change the behavior of an element

<button title=" tooltip"> hello</button>

* In this line of code if you hover over the button element you will a small pop that displays the words in the double quotes
* Always out on the opening tag
* The title is the attribute name tells what we changing of the element.

<button title =  " good job" class=" red-button"> hello</button>

* class attribute = adds a lable to an element
* html tag contains the entire webpage.
* Head tag contains information about the page and everything that is not visible on the webpage.

onclick=""

* This code will run Javascript code when ever it is clicked

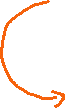
# CSS

* Uses a style tag to write CSS inside

  button{

        background-color: blueviolet;

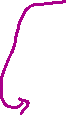
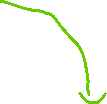
        color: aliceblue;



        border: none;



    }



* This a HTML element which we want to change.
* Left side is called the CSS property
* This is called a css value it tells the computer what we are changing the property too



# Variables

* The keyword let creates a new variable.
* Can’t use special words for naming like let
* Can’t start variable name with a number
* Can’t use special characters. But you can use $ and \_

## Re-assigning variables

* Don’t use the let

# REFERENCE LIST

[1] ‘Learn JavaScript | Codecademy’. Accessed: Jun. 25, 2024. [Online]. Available: https://www.codecademy.com/enrolled/courses/introduction-to-javascript