Java Script cheat sheet

This is a short list of some important Java Script concepts that I used in my code.

This info was acquired from the sites referenced in my bibliography.

This is some of the info that I thought was very useful but this is not an exhaustive list.

For better explanations and more info check out

JavaScript tutorial. (n.d.). Retrieved April 15, 2021, from <https://www.w3schools.com/js/DEFAULT.asp>

And

Haverbeke, M. (2018). Eloquent JavaScript3rd EDITION (2018). Retrieved April 15, 2021, from <https://eloquentjavascript.net/index.html>

These 2 resources were the most helpful and give great in-depth explanations on the nature of Java Script.

What follows is some info extracted from the site.

I tried to extract the info necessary to accomplish the programs that I made.

This reference guide serves mostly as a check on common and basic concepts of the language used while coding.

Statements in Java Script

var x, y, z;   
x = 5;   
y = 6;   
z = x + y;

The semicolons are optional

Common Types of Values

* Numbers which are things like 1 and 2.5
* Strings which are things like “apple”
* Booleans which can only be true or false

Comments

// is used for single line comments

/\*

\*/

Is used for multiline comments

Variable types

These are optional types you can add to a variable

* Var which is the most common way.
* Let allows you to reassign a variable but not redeclare and set scope.
* Const which prevents you from changing the variable

Creating variables

You can create variables in Java Script without specifying the type for example

Val1 = 99

Is legal

Operators

* + which is arithmetic addition or string concatenation
* - which is arithmetic subtraction
* \* which is arithmetic multiplication
* / which is arithmetic division
* % which returns the remainder of arithmetic division
* < which checks if the value on the left is smaller and returns a Boolean
* <= which checks for less than or equal tp
* > which checks for grater
* >= which checks for greater or equal to
* == which checks for equivalence of value
* === which checks for equivalence of value and type
* != checks that values are not equivalent
* && which checks if both are true
* || which checks if one is true
* ++ increments value by 1

Arrays

* Declaration

NumArray = []

Or

NumArray = [1, 2, 3]

* Methods

NumArray.push(9)

Adds 9 to the end of the array

Functions

Function functionName(parameter1, parameter2) {

// lines of code

// possible return

}

Example

Function greet(name){

Console.log(“Hello ” + name)

}

Printing to screen

Console.log(“Message”)

Loops

For loop

For(initilization; condition; incrementation or decrementation ){

// lines of code

}

Example

For(I = 0 ; I < 10, I++){

Console.log(I)

}

While loop

While(condition) {

// lines of code

// change in condition

}

Example

I = 1

While (I < 5){

Console.log(I)

I++

}

If Else statements

If (condition) {

// lines of code

} else if (condition) {

// lines of code

} else {

// lines of code

}

Example

If(I ==1){

Console.log(“one”)

} else if (I == 2){

Console.log(“two”)

}} else {

Console.log(“not one or two”)

}

String methods

.toLowecase

Makes all characters in the string lowercase

Dictionary

Initilization

Dict = {}

Access

Dict[key]

Set value

Dict[key] = value

Bibliography

* JavaScript tutorial. (n.d.). Retrieved April 15, 2021, from <https://www.w3schools.com/js/DEFAULT.asp>

This site has a lot of great in-depth content on the different aspects of JavaScript. It has different pages for many different important concepts.

* Haverbeke, M. (2018). Eloquent JavaScript3rd EDITION (2018). Retrieved April 15, 2021, from <https://eloquentjavascript.net/index.html>

This is a great free online book about Java Script. It is extensive and has coding problems as well. Also, it has actual code and solutions to the coding problems.

* Schäferhoff, N. (2020, September 3). JavaScript cheat sheet for 2021 (.PDF Version Included). Retrieved April 15, 2021, from <https://websitesetup.org/javascript-cheat-sheet/>

This is a great cheat sheet of some important Java Script concepts. While it does not have everything, It is great for a starting to work on Java Script.

* Web technology for developers. (n.d.). Retrieved April 15, 2021, from <https://developer.mozilla.org/en-US/docs/Web/JavaScript>

This is a great resource for finding information about the different methods and data structures Java Script has.