JavaScript Cheatsheet



Item	Syntax	Description	Example
Declaring Variables var, let, const	<pre>let < var_name > = < value ></pre>	 var - global access, value can chage let - access within block where it is declared, value can change const - access within block where it is declared, value cannot change 	<pre>let i = 5; var myStr = "John"; const pi = 3.14</pre>
Strings			
length	string_obj.length	length Returns the length of the string	<pre>let myStr = "Hello"; console.log(myStr.leng th); Output is 5</pre>
split	<pre>string_obj.split(separ ator)</pre>	split Splits the string based on the separator and returns an array.	<pre>let myStr = "Hello! How are you?"; console.log(myStr.spli t(" ")) Output is ['Hello!', 'How', 'are', 'you?']</pre>
charAt	<pre>string_obj.charAt(inde x)</pre>	charAt returns the character at a specified index in a string. Index starts at 0 ends at length-1	<pre>let myStr = "Hello";< console.log(myStr.char At(0)) Output is H</pre>
replace	string_obj.replace("Se archValue","NewValue")	replace searches a string for a specified value, or a regular expression, and returns a new string where the specified values are replaced.	<pre>let myStr = "Hello User"; console.log(myStr.repl ace("User","World")); Output is Hello World</pre>
substring	<pre>string_obj.substring(s tart, end)</pre>	substring is used to extract characters, between to indices from the given string, and returns the substring. It excludes the last index	<pre>let myStr="Hello"; console.log(myStr.subs tring(1,4)); Output is ell</pre>
startswith	<pre>string_obj.startsWith(searchvalue)</pre>	startsWith returns true if a string begins with a specified string, otherwise false	<pre>let myStr="Hello from the other side"; console.log(myStr.star tsWith("Hello")); Output is true</pre>

find	Array.find(<arrelemet> =>{ //return boolean based on a condition }</arrelemet>	find Finds the first occurance of an element in the array which returns true on checking the condition	<pre>//Find the first string with s let myarr = ["Mercury", "Venus", "Ea rth", "Mars"]; let found = myarr.find(val=>{ return val.includes("s"); }) console.log(found); Output Venus</pre>
filter	Array.filter(<arreleme t="">=>{ //return boolean based on a condition }</arreleme>	filter Finds the all occurances of elements in the array which returns true on checking the condition	<pre>//Find the all strings with s let myarr = ["Mercury","Venus","Ea rth","Mars"]; let found = myarr.filter(val=>{ return val.includes("s"); }) console.log(found); Output [Venus,Mars]</pre>
map	<pre>Array.map(<arrelemet>=</arrelemet></pre>	map Processes the all elements of the array which returns a new processed array of same size	<pre>let myarr = ["name","place","thing ","animal"]; let found = myarr.map(val=>{ return val+"s"; }) console.log(found); Output ['names', 'places', 'things', 'animals']</pre>
concat	<pre>arr_nameconcat(arr1. name);</pre>	concat concatenates (joins) two or more arrays.	<pre>let hello = ["hello", "world"]; let lorem = ["along", "lorem"] let h = hello.concat(lorem); console.log(h); Output is ["hello", "world", "along", "lorem"]</pre>
Мар			
set	mapName.set(key,value);	set helps you define a new element with akey and its value	<pre>var newMap = new Map(); newMap.set("h", 1); console.log(newMap); Output is {"h" => 1}</pre>
get	mapName.get(key);	get helps you return a value of key you are searching for	<pre>var newMap = new Map(); newMap.get("h"); console.log(newMap); Output is Map(0) {size: 0}</pre>

keys	mapName.keys();	get is used to get all of the keys associated with the mapName	<pre>var newMap = new Map(); newMap.set("h",1); newMap.set("i",2); console.log(newMap.key s()); Output is {"h", "i"}</pre>
values	mapName.values();	values is used to get all of the values to the keys associated with the mapName	<pre>var newMap = new Map(); newMap.set("h",1); newMap.set("i",2); console.log(newMap.val ues()); Output is {1,2}</pre>
has	mapName.has(key_name);	has is used to check if the key passed resides in the map or not, and returns true or false	<pre>var newMap = new Map(); newMap.set("h",1); newMap.set("i",2); console.log(newMap.has (i)); Output is true</pre>
delete	<pre>mapName.delete(key_nam e);</pre>	delete is used to delete the key and the value from the map	<pre>var newMap = new Map(); newMap.set("h",1); newMap.set("i",2); newMap.delete("h"); console.log(newMap); Output is {"i" => 2}</pre>
JSON			
Create JSON	<pre>let varname= {name1:value1,name2:va lues2,}</pre>	JSON is a dictionary Object with Key-Value pairs.	<pre>let myjson1={}; let myjson2 = {"name":"Jennifer","ag e":"32"}</pre>
Add entry to JSON	<pre>let jsonObj[<key>]= <value></value></key></pre>	Adds an entry to JSON Object mapping the key to value	<pre>let myjson1 = {}; myjson1["name"]="Jason "; console.log(myjson1);</pre>
Operators			
Arithmetic	<operand1> <operator> <operand2></operand2></operator></operand1>	 + addition - subtration / division * multiplication % modulus(gives remainder) ++ increment by 1 decrement by 1 	<pre>let num1 = 2; let num2 = 2; console.log(num1+num2) ; console.log(num1- num2); console.log(num1/num2) ; console.log(num1*num2) ; console.log(num1%num2) ; num1++; console.log(num1); num2; console.log(num1);</pre>

Logical	<pre>condition1 && condition2 condition1 condition2 ! condition1</pre>	&& (AND)is used to check if all the operand conditions are true [] (OR)is used to check if either of the operand condition are true ! (NOT) is used to check if the operand condition is not met	<pre>let num1 = 12, num2 = 2; console.log(num1>1 && num2>10); console.log(num1>10 num2>10); console.log(! (num1==num2)); Output is false true true</pre>
Assignment	<pre>variable = value variable += incremental value variable -= decremental value %= modulus value /= divide value *= multiply value</pre>	 a=b assigns the value of b to a a+=b adds the value of b to a and stores it in a a-=b subtracts the value of b from a and stores it in a a%=b divides the value of a by b and stores the remainder in a a/=b divides the value of a to b and stores the quotient in a a*=b multiplies the value of a and b and stores the value in a 	<pre>let num1 = 12, num2 = 2; console.log(num1=num2); console.log(num1+=num); console.log(num1- =num2); console.log(num1/=num); console.log(num1*=num); console.log(num1*num2 ; console.log(num1=num2 ; Output is 2 14 10 6 24 2</pre>
Loops			
For Loop	<pre>for(initialization;con dition;increment/decre ment){ //code block }</pre>	for loops throughout the block of code a number of times making sure the condition is satisfied	<pre>for(let num = 0; num <=5; num++){ console.log(num) } Output is 0 1 2 3 4 5</pre>
while	<pre>while(condition){ //code block }</pre>	while itrates through the block of code while a specified condition is true	<pre>let num1 = 0; let num = 5; while(num1 < num2){ console.log(num1) num1++; }</pre>
do while	<pre>do{ //code block } while(condition)</pre>	do while loops throughout the block once before checking condition.	<pre>let num = 5; do { console.log(num); num -; } while(num > 0)</pre>
			Output is 5 4 3 2 1
for in	<pre>for (var in object) { //code block }</pre>	for in is used to itrate through the specific property/type of the object	<pre>let arr = ["a","b","c"]; for(le i in arr) { console.log(arr[i]);</pre>
			Output is a b c

This cheatsheet covers the JS you will mostly use. To learn more commands you can go to this link.

Changelog

Date	Version	Changed by	Change Description
25-09-2021	1.0	Lavanya T S	Initial version created

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