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JavaScript Cheatsheet



Item	Syntax	Description	Example
		var - global access, value can chage	
Declaring Variables var, let, const	<pre>let < var_name > = < value ></pre>	let - access within block where it is declared, value can	<pre>let i = 5; var myStr = "John";</pre>
		change	const pi = 3.14
		const - access within block where it is declared, value cannot change	CONSC PI = 5.14
	Strin	_	
length	string_obj.length	length Returns the length of the string	<pre>let myStr = "Hello"; console.log(myStr.length); Output is 5</pre>
split	<pre>string_obj.split(separator)</pre>	split Splits the string based on the separator and	<pre>let myStr = "Hello! How are you?"; console.log(myStr.split(" "))</pre>
		returns an array.	Output is ['Hello!', 'How', 'are', 'you?']
charAt	string_obj.charAt(index)	charAt returns the character at a specified index in a string. Index starts at 0 ends at length-	<pre>let myStr = "Hello";< console.log(myStr.charAt(0)) Output is H</pre>
replace	string_obj.replace("SearchValue","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.replace("User","World")); Output is Hello World</pre>
substring	<pre>string_obj.substring(start, end)</pre>	substring is	<pre>let myStr="Hello"; console.log(myStr.substring(1,4));</pre>

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startswith	<pre>string_obj.startsWith(searchvalue)</pre>	with a specified	Output is ell let myStr="Hello from the other side"; console.log(myStr.startsWith("Hello")); Output is two.
endsWith	<pre>string_obj.endsWith(searchvalue))</pre>	string, otherwise false endsWith returns true if a string ends with a specified	Output is <i>true</i> let myStr="Hello from the other side"; console.log(myStr.startsWith("side"));
to Haman Casa		string, otherwise false toUpperCase converts a	<pre>Output is true let myStr="hello"; console.log(myStr.toUpperCase());</pre>
toOpperCase	<pre>string_obj.toUpperCase()</pre>	string to uppercase letters toLowerCase converts a	Output is HELLO let myStr="HELLO";
toLowerCase	<pre>string_obj.toLowerCase()</pre>	string to lowercase letters	<pre>console.log(myStr.toUpperCase()); Output is hello let myStr="Hello"; let str="World";</pre>
concat	<pre>string_obj.concat(string1, string2,,stringN)</pre>	concat joins two or more strings.	console.log(myStr.concat(str)); Output is HelloWorld
	ı III a	push adds	<pre>let myArr=["Hello"]; myArr.push("World");</pre>
push	arr_name.push(value)	new items to the end of an array.	console.log(myArr); Output is ["Hello","World"]
pop	<pre>arr_name.pop()</pre>	pop removes the last element of an array.	<pre>let myArr=["Hello","World"]; myArr.pop(); console.log(myArr); Output is ["Hello"]</pre>
length	arr_name.length	length sets or returns the number of elements in an array.	<pre>let myArr=["Hello","World"]; console.log(myArr.length); Output is 2</pre>
indexOf	<pre>arr_name.indexOf(item)</pre>	indexOf searches for a specified item and returns its position.	<pre>let myArr=["Hello","World"]; console.log(myArr.indexOf("World") Output is 1</pre>
lastIndexOf	<pre>arr_name.lastIndexOf(item)</pre>	lastIndexOf	<pre>let myArr=["Hello","World","Hello"]; console.log(myArr.lastIndexOf("Hello");</pre>
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                                                                     (position) of a
                                                                     specified
                                                                     value.
                                                                     entries
                                                                     Returns and
                                                                     Array Iterator
                                                                     that helps you
                                                                     to iterate
                                                                     through the
                                                                     array and
                                                                     recieve each
                                                                                    const hello = ["h", "e", "l", "l", "o"];
                                                                     entry as an
                                                                                    console.log(hello.entries());
                                                                     array of two
  entries
               arr_name.entries()
                                                                     elements
                                                                                    Output is
                                                                     containing the Object [Array Iterator] {}
                                                                     key and the
                                                                     value, where
                                                                     in the key is
                                                                     the index
                                                                     position of the
                                                                     element and
                                                                     value is the
                                                                     element itself.
                                                                     find Finds the
                                                                     first
                                                                                   //Find the first string with s let myarr =
                                                                     occurance of
                                                                                    ["Mercury", "Venus", "Earth", "Mars"]; let
                                                                     an element in
                                                                                    found = myarr.find(val=>{ return
               Array.find(<arrElemet>=>{ //return boolean based
  find
                                                                     the array
                                                                                    val.includes("s"); }) console.log(found);
               on a condition }
                                                                     which returns
                                                                     true on
                                                                                    Output Venus
                                                                     checking the
                                                                     condition
                                                                     filter Finds
                                                                     the all
                                                                     occurances of //Find the all strings with s let myarr =
                                                                                    ["Mercury","Venus","Earth","Mars"]; let
                                                                     elements in
               Array.filter(<arrElemet>=>{ //return boolean
                                                                                    found = myarr.filter(val=>{ return
  filter
                                                                     the array
                                                                                    val.includes("s"); }) console.log(found);
               based on a condition }
                                                                     which returns
                                                                     true on
                                                                                    Output [Venus, Mars]
                                                                     checking the
                                                                     condition
                                                                     map
                                                                     Processes the
                                                                     all elements of let myarr =
                                                                                    ["name", "place", "thing", "animal"]; let
                                                                     the array
               Array.map(<arrElemet>=>{ //return processed value which returns
                                                                                    found = myarr.map(val=>{ return val+"s"; })
  map
                                                                                   console.log(found);
                                                                     a new
                                                                                    Output [ 'names', 'places', 'things',
                                                                     processed
                                                                                    'animals' ]
                                                                     array of same
                                                                     size
                                                                                    let hello = ["hello", "world" ]; let lorem
                                                                                    = ["along","lorem"] let h =
                                                                     concat
                                                                                   hello.concat(lorem); console.log(h);
                                                                     concatenates
               arr_name..concat(arr1.name);
  concat
                                                                     (joins) two or
                                                                                    Output is
                                                                     more arrays.
                                                                                    ["hello", "world", "along", "lorem"]
                                                               Map
                                                                     set helps you
                                                                                    var newMap = new Map(); newMap.set("h", 1);
                                                                     define a new
                                                                                   console.log(newMap);
                                                                     element with
  set
               mapName.set(key,value);
                                                                     akey and its
                                                                                    Output is \{\text{"h"} => 1\}
                                                                     value
```

get	<pre>mapName.get(key);</pre>	get helps you return a value of key you are searching for get is used to	<pre>var newMap = new Map(); newMap.get("h"); console.log(newMap); Output is Map(0) {size: 0}</pre>
keys	<pre>mapName.keys();</pre>	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.keys()); Output is {"h", "i"}</pre>
values	<pre>mapName.values();</pre>	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.values()); Output is {1,2}</pre>
has	<pre>mapName.has(key_name);</pre>	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_name);</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>
	JSO	•	
Create JSON	N let varname={name1:value1,name2:values2,}	JSON is a dictionary Object with Key-Value pairs.	<pre>let myjson1={}; let myjson2 = {"name":"Jennifer","age":"32"}</pre>
Add entry to JSON) let jsonObj[<key>]=<value></value></key>	Adds an entry to JSON Object mapping the key to value	<pre>let myjson1 = {}; myjson1["name"]="Jason"; console.log(myjson1);</pre>
	Opera		
		+ addition	
Arithmetic	<operand1> <operator> <operand2></operand2></operator></operand1>	remainder) ++ increment 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> Output is 4 0 1 4 0 3 3
Logical	<pre>condition1 && condition2 condition1 condition ! condition1</pre>	- decrement by 1 2 && (AND)is used to check if all the	<pre>let num1 = 12, num2 = 2; console.log(num1>10 && num2>10);</pre>

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operand
                                                                                   console.log(num1>10 || num2>10);
                                                                                   console.log(!(num1==num2));
                                                                    conditions are
                                                                    true
                                                                                   Output is false true 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
                                                                    a=b assigns
                                                                    the value of b
                                                                    to a
                                                                    \mathbf{a}+=\mathbf{b} adds the
                                                                    value of b to a
                                                                    and stores it in
                                                                    a
                                                                    a-=b subtracts
                                                                    the value of b
                                                                    from a and
                                                                                   let num1 = 12, num2 = 2;
                                                                    stores it in a
                                                                                   console.log(num1=num2);
                                                                                   console.log(num1+=num2); console.log(num1-
                                                                    a\%=b \text{ divides =num2}; console.log(num1/=num2);
              variable = value variable += incremental value
Assignment variable -= decremental value %= modulus value /= the value of a console.log(num1*=num2);
                                                                                   console.log(num1%num2);
             divide value *= multiply value
                                                                    by b and
                                                                                   console.log(num1=num2);
                                                                    stores the
                                                                    remainder in a Output is 2 14 10 6 24 0 2
                                                                    a/=b divides
                                                                    the value of a
                                                                    to b and stores
                                                                    the quotient in
                                                                    a*=b
                                                                    multiplies the
                                                                    value of a and
                                                                    b and stores
                                                                    the value in a
                                                              Loops
                                                                    for loops
                                                                    throughout the
                                                                    block of code for(let num = 0 ; num <=5 ; num++){
              for
(initialization; condition; increment/decrement) a number of
                                                                                   console.log(num) }
For Loop
              { //code block }
                                                                    times making
                                                                                   Output is 0 1 2 3 4 5
                                                                    sure the
                                                                    condition is
                                                                    satisfied
                                                                    while itrates
                                                                                   let num1 = 0; let num2 = 5; while(num1 <</pre>
                                                                    through the
                                                                                   num2){ console.log(num1) num1++; }
                                                                    block of code
while
             while(condition){ //code block }
                                                                    while a
                                                                    specified
                                                                    condition is
                                                                                   Output is 0 1 2 3 4
                                                                    true
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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) Output is 5 4 3 2 1</pre>
for in	<pre>for (var in object) { //code block }</pre>	for in is used to itrate through the specific property/type	<pre>let arr = ["a","b","c"]; for(let i in arr) { console.log(arr[i]); }</pre> Output is a b c
	Conditional s	of the object	Output is a o c
	Conditional S	if a specified	
if	<pre>if(condition){ //code Block }</pre>	condition is true, a block of code will be executed	<pre>let num = 5; if(num = 5){ console.log(true); } Output is true</pre>
if-else	<pre>if(condition){ //Code Block } else { //Code Block }</pre>	if a specified condition is true, a block of code will be executed. in case of false, else block is executed	<pre>let num = 5; if(num = 4){ console.log(true) } else { console.log(false) } Output is false</pre>
if-else if-else	<pre>if(condition){ //Code Block } else if (condition) { //Code Block } else { //Code Block }</pre>	else if to specify a new condition to test, if the first/previous condition is false	<pre>let num = 10; if(num < 10){ console.log("number is smaller"); } else if(num = 10) { console.log("number is equal"); } else { console.log("number is greater"); } Output is number is equal</pre>
switch	<pre>switch(expression) { case <value1>: //code break; case <value2>: //code break; default: //default code block }</value2></value1></pre>	switch to select one of many blocks of code to be executed. And break is used to end the preocessing within the switch statement.	<pre>let num = 2; switch(num) { case 1: console.log("Hello world!"); break; case 2: console.log("Hi"); break; default: console.log("this is default"); } Output is Hi</pre>
	Other useful of	perations	
typeof	typeof(operand)	typeof operator returns a string indicating the type of the unevaluated operand	<pre>console.log(typeOf("Hello")) Output is "string"</pre>
isNaN	isNaN(operand)	isNaN determines whether a value is anythying but a number or	console.log(isNaN("Hello")) Output is true

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> not. It returns false for a number

parseInt is a //0011 is 3 for binary, since binary only has 2 function that numbers 0, 1 the radix is 2

parses a string

argument and console.log(parseInt("0011", 2)); returns an //Default parseInt takes decimal system

integer of the console.log(parseInt("54"));

specified radix.(radix is

Output is 3 54 a base)

parseFloat is

parses a string parseFloat("3.14") a function that

argument and returns an

Output is 3.14

float

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

Changelog

parseInt

parseFloat

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

parseInt(string, radix)

parseFloat(string)

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