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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 change	let i = 5;		
			var myStr = "John";		
			const pi = 3.14		
		const - access within block where it is declared, value cannot change			
Strings					
length	<pre>string_obj.length</pre>	length Returns the length of the	<pre>let myStr = "Hello"; console.log(myStr.length);</pre>		
		string split Splits the	Output is 5		
split	string_obj.split(separator)	string based on the	let myStr = "Hello! How are you?"; console.log(myStr.split(" "))		
•		separator and returns an array.	Output is ['Hello!', 'How', 'are', 'you?']		
		charAt returns the character at a specified	<pre>let myStr = "Hello";< console.log(myStr.charAt(0))</pre>		
charAt	<pre>string_obj.charAt(index)</pre>	index in a string. Index starts at 0 ends at length-	Output is H		
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	<pre>let myStr = "Hello User"; console.log(myStr.replace("User","World")); Output is Hello World</pre>		
substring	<pre>string_obj.substring(start, end)</pre>	specified values are replaced. substring is used to extract characters, between to indices from the given string, and	<pre>let myStr="Hello"; console.log(myStr.substring(1,4)); Output is ell</pre>		
startswith	<pre>string_obj.startsWith(searchvalue)</pre>	returns the substring. It excludes the last index startsWith returns true if	<pre>let myStr="Hello from the other side"; console.log(myStr.startsWith("Hello"));</pre>		

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a string begins Output is true
                                                                     with a
                                                                     specified
                                                                    string,
                                                                    otherwise
                                                                     false
                                                                     endsWith
                                                                    returns true if
                                                                    a string ends
                                                                                  let myStr="Hello from the other side";
                                                                     with a
                                                                                   console.log(myStr.startsWith("side"));
endsWith
            string_obj.endsWith(searchvalue))
                                                                     specified
                                                                                   Output is true
                                                                     string,
                                                                    otherwise
                                                                     false
                                                                     toUpperCase
                                                                                   let myStr="hello";
                                                                    converts a
                                                                                   console.log(myStr.toUpperCase());
toUpperCase string_obj.toUpperCase()
                                                                     string to
                                                                     uppercase
                                                                                   Output is HELLO
                                                                     letters
                                                                     toLowerCase
                                                                                   let myStr="HELL0";
                                                                     converts a
                                                                                   console.log(myStr.toUpperCase());
toLowerCase string_obj.toLowerCase()
                                                                     string to
                                                                     lowercase
                                                                                   Output is hello
                                                                     letters
                                                                                   let myStr="Hello"; let str="World";
                                                                     concat joins
                                                                                   console.log(myStr.concat(str));
                                                                     two or more
             string_obj.concat(string1, string2,..,stringN)
concat
                                                                     strings.
                                                                                   Output is HelloWorld
                                                              Arrays
                                                                     push adds
                                                                                   let myArr=["Hello"]; myArr.push("World");
                                                                     new items to
                                                                                  console.log(myArr);
push
            arr_name.push(value)
                                                                     the end of an
                                                                                   Output is ["Hello", "World"]
                                                                     array.
                                                                     pop removes
                                                                                  let myArr=["Hello","World"]; myArr.pop();
                                                                     the last
                                                                                   console.log(myArr);
             arr_name.pop()
pop
                                                                    element of an
                                                                                   Output is ["Hello"]
                                                                     array.
                                                                    length sets or
                                                                                   let myArr=["Hello","World"];
                                                                    returns the
                                                                                   console.log(myArr.length);
length
            arr_name.length
                                                                    number of
                                                                    elements in an Output is 2
                                                                    array.
                                                                     indexOf
                                                                    searches for a let myArr=["Hello","World"];
                                                                                  console.log(myArr.indexOf("World")
indexOf
                                                                    specified item
            arr_name.indexOf(item)
                                                                    and returns its Output is 1
                                                                    position.
                                                                    lastIndexOf
                                                                     returns the last let myArr=["Hello","World","Hello"];
                                                                                   console.log(myArr.lastIndexOf("Hello");
                                                                     index
lastIndexOf arr_name.lastIndexOf(item)
                                                                     (position) of a
                                                                                   Output is 2
                                                                     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.
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find	<pre>Array.find(<arrelemet>=>{ //return boolean based on a condition }</arrelemet></pre>	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","Earth","Mars"]; let found = myarr.find(val=>{ return val.includes("s"); }) console.log(found);</pre> Output Venus
filter	<pre>Array.filter(<arrelemet>=>{ //return boolean based on a condition }</arrelemet></pre>	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","Earth","Mars"]; let found = myarr.filter(val=>{ return val.includes("s"); }) console.log(found); Output [Venus,Mars]</pre>
map	<pre>Array.map(<arrelemet>=>{ //return processed value} }</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(arrl.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>
	Maj)	
set	<pre>mapName.set(key,value);</pre>	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	<pre>mapName.get(key);</pre>	get helps you	<pre>var newMap = new Map(); newMap.get("h"); console.log(newMap); Output is Map(0) {size: 0}</pre>
keys	<pre>mapName.keys();</pre>	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.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); JSO</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>
Create JSON	JSON let varname={name1:value1,name2:values2,}	JSON is a dictionary Object with	<pre>let myjson1={}; let myjson2 = {"name":"Jennifer","age":"32"}</pre>

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Key-Value
                                                                       pairs.
                                                                       Adds an entry
                                                                       to JSON
Add entry to let jsonObj[<key>]=<value>
                                                                                      let myjson1 = {}; myjson1["name"]="Jason";
                                                                       Object
JSON
                                                                                      console.log(myjson1);
                                                                       mapping the
                                                                       key to value
                                                              Operators
                                                                       + addition
                                                                       - subtration
                                                                       / division
                                                                                      let num1 = 2; let num2 = 2;
                                                                                      console.log(num1+num2); console.log(num1-
                                                                                     num2); console.log(num1/num2);
                                                                       multiplication
                                                                                      console.log(num1*num2);
console.log(num1%num2);
num1++;
Arithmetic
             <0perand1> <0perator> <0perand2>
                                                                       modulus(gives console.log(num1); num2--;
                                                                       remainder)
                                                                                      Output is 4 0 1 4 0 3 3
                                                                       ++ increment
                                                                       by 1
                                                                       - decrement
                                                                       by 1
                                                                       && (AND)is
                                                                       used to check
                                                                       if all the
                                                                       operand
                                                                       conditions are
                                                                       true
                                                                       || (OR) is used let num1 = 12, num2 = 2;
                                                                                      console.log(num1>10 && num2>10);
             condition1 && condition2 condition1 || condition2 to check if either of the
                                                                                      console.log(num1>10 || num2>10);
Logical
             ! condition1
                                                                                      console.log(!(num1==num2));
                                                                       operand
                                                                       condition are Output is false true true
                                                                       true
                                                                       ! (NOT) is
                                                                       used to check
                                                                       if the operand
                                                                       condition is
                                                                       not met
Assignment variable = value variable += incremental value
                                                                                      let num1 = 12, num2 = 2;
                                                                       a=b assigns
                                                                                     console.log(num1=num2);
console.log(num1+=num2); console.log(num1-
             variable -= decremental value %= modulus value /=
                                                                       the value of b
             divide value *= multiply value
                                                                                      =num2); console.log(num1/=num2);
                                                                                      console.log(num1*=num2);
                                                                       \mathbf{a} += \mathbf{b} adds the console.log(num1%num2);
                                                                       value of b to a console.log(num1=num2);
                                                                       and stores it in
                                                                                     Output is 2 14 10 6 24 0 2
                                                                       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*=b
                                                                       multiplies the
                                                                       value of a and
```

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b and stores the value in a

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Loops
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for loops
                                                                           throughout the
                                                                           block of code for(let num = \theta; 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
                                                                                          let num = 5; do { console.log(num); num--;
                                                                           do while
                                                                           loops
                                                                           throughout the while(num > 0)
do while
                                                                           block once
              do{ //code block } while(condition)
                                                                           before
                                                                           checking
                                                                                          Output is 5 4 3 2 1
                                                                           condition.
                                                                           for in is used
                                                                                          let arr = ["a","b","c"]; for(let i in arr)
                                                                           to itrate
                                                                                          { console.log(arr[i]); }
              for (var in object) { //code block
                                                                           through the
for in
                                                                           specific
              }
                                                                           property/type
                                                                                          Output is a b c
                                                                           of the object
                                                           Conditional statements
                                                                           if a specified
                                                                                          let num = 5; if(num = 5){
                                                                           condition is
                                                                                          console.log(true); }
if
                                                                           true, a block
              if(condition){ //code Block... }
                                                                           of code will
                                                                                          Output is true
                                                                           be executed
                                                                           if a specified
                                                                           condition is
                                                                           true, a block
                                                                                          let num = 5; if(num = 4){ console.log(true)
                                                                           of code will
                                                                                          } else { console.log(false) }
              if(condition){ //Code Block... } else { //Code
if-else
                                                                           be executed.
              Block... }
                                                                           in case of
                                                                                          Output is false
                                                                           false, else
                                                                           block is
                                                                           executed
                                                                           else if to
                                                                                          let num = 10; if(num < 10){
                                                                           specify a new
                                                                                          console.log("number is smaller"); } else
if(condition) \{ \ // Code \ Block... \} \ else \ if \\ if-else \ if-else \ (condition) \ \{ \ // Code \ Block... \} \ else \ \{ \ // Code \ Block... \} 
                                                                                          if(num = 10) { console.log("number is
                                                                           condition to
                                                                                          equal"); } else { console.log("number is greater"); }
                                                                           test, if the
              Block... }
                                                                           first/previous
                                                                           condition is
                                                                                          Output is number is equal
                                                                           false
                                                                           switch to
                                                                           select one of
                                                                           many blocks
                                                                                          let num = 2; switch(num) { case 1:
console.log("Hello world!"); break; case 2:
console.log("Hi"); break; default:
                                                                           of code to be
              switch(expression) { case <valuel>: //code break; executed And
switch
              case <value2>: //code break; . . . default:
                                                                           break is used
                                                                                          console.log("this is default"); }
              //default code block }
                                                                           to end the
                                                                           preocessing
                                                                                          Output is Hi
                                                                           within the
                                                                           switch
                                                                           statement.
                                                           Other useful operations
              typeof(operand)
                                                                           typeof
typeof
                                                                                          console.log(typeOf("Hello")) Output is
                                                                           operator
                                                                                          "string"
                                                                           returns a
                                                                           string
                                                                           indicating the
                                                                           type of the
```

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> unevaluated operand isNaN determines whether a value is anythying but console.log(isNaN("Hello")) Output is true a number or 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

parseInt parseInt(string, radix)

parseFloat(string)

isNaN(operand)

argument and console.log(parseInt("0011", 2));
returns an integer of the console.log(parseInt("54"));

specified radix.(radix is

Output is 3 54 a base)

parseFloat is

a function that parseFloat("3.14")

parses a string argument and Output is 3.14

returns an float

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

Changelog

parseFloat

isNaN

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

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