

Variable types			
	var	let	const
block scoped*	✗	✓	✓
tdz**	✗	✓	✓
creates global property*	✓	✗	✗
reassignable*	✓	✓	✗
redeclarable*	✓	✗	✗

https://developer.mozilla.org/en-US/docs/Web/JavaScript/Reference/Strict_mode
* <https://medium.com/@allansendagi/block-scope-in-javascript-8fd2f909e848>
** <https://discuss.codecademy.com/t/what-is-the-difference-between-let-and-var-when-declaring-and-what-about-reassigning/492581/2>

<https://www.valentinog.com/blog/var/>
<https://www.freecodecamp.org/news/var-let-and-const-whats-the-difference/>
<https://fontawesome.com/v3/icons/>

Data types			
var age = 18;	// number		
var name = "Jane";	// string		
var truth = false;	// boolean		
var sheets = ["HTML", "-CSS", "JS"];	// array		
var a; typeof a;	// undefined		
var a = null;	// value null		

Objects:

```
var student = {
  firstName:"Jane",
  lastName:"Doe",
  age:18,
  height:170,
  fullName : function() {
    return this.firstName + " " +
    this.lastName;
  }
};
```



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Data types (cont)	
// list of properties and values	
// object function	
// object end	
student.age = 19;	// setting value
student[age]++;	// incrementing
name = student.full-Name();	// call object function

Operators	
Comparison Operators	
Comparison operators compare two values and return a boolean value, either true or false.	
== Equal to	5==5; //true
!= Not equal to	5!=5; //false
> Greater than	3>2; //true
>= Greater than or equal to	3>=3; //true
< Less than	3<2; //false
<= Less than or equal to	2<=2; //true
=== Strict equal to	5==='5'; //false
!== Strict not equal to	5!==='5'; //true

Logical Operators

Logical operators perform logical operations and return a boolean value, either true or false.

&& Logical AND	true && false; // false
Logical OR	true false; // true
!	!true; // false

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Operators (cont)	
? :	Ternary operator
Returns value based on the condition	(5 > 3) ? 'success' : 'error'; //
condition ? expres sio nIfTrue : e	False
Assignment operators	
Assignment operators are used to assign value	
= Assignment operator	a = 7;
+= Addition assignment	a += 5;
*= Multiplication Assignment	a *= 3;
-= Subtraction Assignment	a -= 2;
/= Division Assignment	a /= 2;
%= Remainder Assignment	a %= 2;
**= Exponentiation Assignment	a = 2;
Arithmetic Operators	
Arithmetic operators are used to perform arithmetic	
+	Addition x + y
-	Subtraction x - y
*	Multiplication x * y
/	Division x / y
%	Remainder x % y

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Operators (cont)

++ Increment (increments by 1) `++x or x++`

- Decrement (decrements by 1) `--x or x--`

****** Exponentiation `x ** y` (Power)

Bitwise Operators

Bitwise operators perform operations on binary representations of numbers.

& Bitwise AND

| Bitwise OR

^ Bitwise XOR

~ Bitwise NOT

<< Left shift

>> Sign-propagating right shift

>>> Zero-fill right shift

String Operators

In JavaScript, you can also use the **+** operator to concatenate (join) two or more strings.

+ Concatenation operator

Other Operators

Operators (cont)

, `let x = 1;
evaluates
each of its
operands
(from left to
right) and
returns the
value of the
last
operand.`

delete `delete x`

deletes an
object's
property, or
an element
of an array

typeof `typeof 3; // "num be
returns a
string
indicating
the data
type`

void `void(x)`
discards the
expression's
return value

in `prop in object`
returns true
if the
specified
property is
in the object

Operators (cont)

instanceof `object instanceof object`
returns
true if the
specified
object is
of the
specified
object
type

Loopz

https://www.w3schools.com/js/js_loops_for.asp <https://www.programmiz.com/javascript/for-loop>

https://www.w3schools.com/jsref/jsref_foreach.asp <https://www.programmiz.com/javascript/foreach>

https://www.w3schools.com/js/js_loops_forof.asp <https://www.programmiz.com/javascript/for-of>

https://www.w3schools.com/js/js_loops_forin.asp <https://www.programmiz.com/javascript/for-in>

https://www.w3schools.com/js/js_loops_while.asp <https://www.programmiz.com/javascript/while-loop>

https://www.w3schools.com/js/jss_break.asp <https://www.programmiz.com/javascript/break-statement>

https://www.w3schools.com/js/js_continue.asp <https://www.programmiz.com/javascript/continue-statement>

https://www.w3schools.com/js/js_iterables.asp

https://www.w3schools.com/js/js_switch.asp <https://www.programmiz.com/javascript/switch-statement>



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Cheatography

Javascript Cheat Sheet

by krabat1 (krabat1) via cheatography.com/2778/cs/31328/

Global Methods		Math functions II. - Angle functions	String functions (cont)
Math functions III. - Number Methods			
isFinite()	a value is a finite number?	sin(x) // sine of x (x is in rad.) asin(x) // arcsine of x, in rad. asinh(x) // hyperb. arcsine of x sinh(x) // hyperb. sine of x	similar to slice(), but the second parameter the extracted part.
isInteger()	a value is an integer?	cos(x) // cosine of x (x is in rad.) acos(x) // arccosine of x, in rad. acosh(x) // hyperb. arccosine of x cosh(x) // hyperb. cosine of x	replace() str.replace(pattern) replace a substring/pattern in the string
isNaN()	a value is Number.NaN?	tan(x) // tang. of an angle atan(x) // arctang. of x as a numeric value btw. -PI/2 and PI/2 rad. atan2(y,x) // arctang. of the quotient of its arguments atanh(x) // hyperb. arctang. of x tanh(x) // hyperb. tang. of a num.	replaceAll() str.replaceAll(pattern) Returns string by replacing all matching pattern
isSafeInteger()	a value is a safe integer?		toUpperCase() str.toUpperCase() toLowerCase() str.toLowerCase() Returns uppercase/lowercase representation of string
toExponential(x)	Converts a num. into an exponential notation		concat() str.concat(str1, ...) Concatenates the arguments to the calling string
toFixed(x)	Formats a num. with x numbers of digits after the decimal point		repeat() str.repeat(count) Returns a string by repeating it given times
toLocaleString()	Converts a num. into a string, based on the locale settings	length str.length Returns the number of characters in a string	trim() str.trim() Removes whitespace from both ends of a string
toPrecision(x)	Formats a num. to x length	substr() str.substring(index, index) Returns a specified part of the string	padStart() str.padStart(targetLength) padEnd() str.padEnd(targetLength) Pads a string at the start/end to a given length
toString()	Converts a num. to a string	slice() str.slice(beginIndex, endIndex) Extracts and returns a section of the string	charAt() str.charAt(index) Returns character at a specified index in string
valueOf()	Returns the primitive value of a num.	substr() str.substring(beginIndex, length) Returns Unicode of the character at given index	charCodeAt() str.charCodeAt(index) Returns Unicode of the character at given index
Math functions I.			fromCharCode() String.fromCharCode(codePoint) Returns a string from the given UTF-16 code unit
Math.round(x.y); // x.5 ~ x.4 ~	Math.trunc(x.y) // x		codePointAt() str.charCodeAt(index) Returns the Unicode point value at given index
Math.ceil(); Math.floor(); // ~ ~	Math.pow(x,y) // x^y		fromCodePoint() String.fromCodePoint(numN) Returns a string using the given code points
Math.sign(); // -x, 0, x → -1, 0, 1	Math.abs(-x); // x		
Math.sqrt(x); Math.cbrt(y); // √x ∛y	Math.exp(x) // value of e^x		
Math.min(a,b,c,d); and Math.max(a,b,c,d);	Math.random();		
Math.log(); Math.log2(); Math.log10();			



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String functions (cont)

split() str.split (separador, limita la expresión)

Returns the string divided into list of substrings

-- Search Methods --

indexOf() str.indexOf(searchValue, fromIndex)

lastIndexOf() str.lastIndexOf(searchValue, fromIndex)

See Comparison and Logical Operators.

Returns the first index/last index of occurrence of a value

search() str.search(regex)

Searches for specified value in the string

match() str.match(regex)

Returns result of matching string with a regex

matchAll() str.matchAll(regex)

Returns iterator of results matching with a regex

includes() str.includes(searchString, position)

Checks if given string is found inside a string

startsWith() str.startsWith(searchString, position)

endsWith() str.endsWith(searchString, length)

Checks if a string begins/ends with a specified string...but arrays too.

localeCompare() str.localeCompare(compareString, locales, options)

Compares two strings in the current locale

-- Template Literals -- \${...}

Template literals provide an easy way to interpolate variables and expressions into strings.

Booleans

The Boolean() function is used to convert various data types to boolean values.

You can use the Boolean() function to find out if an expression is true.

See Comparison and Logical Operators.

Array Functions

// const array_name = [item1, item2, ...]; // var firstElement =

push() and **unshift()**

adds an element at the end/beginning of the array.

pop() and **shift()**

remove the last/first element from an array.

length

// var last = array[length - 1]

returns the number of elements in an array

typeof (array) // object

Arrays is objects...

Array.isArray(arra

Objects

Events

Event listener

Useful links

<https://www.w3schools.com/jsref/default.asp>

mdn web docs

[educba.com - javascript-tutorial](https://www.educba.com/javascript-tutorial/)

<https://www.javascripture.com/>

[Programiz - Getting Started](https://www.programiz.com/getting-started/javascript)

[Codecademy - Cheatsheets / Learn JavaScript](https://www.codecademy.com/cheatsheets/learn-javascript)

htmlcheatsheet.com/js

[Websitesetup - Javascript-Cheat-Sheet.pdf](https://www.websitetutorial.net/javascript-cheat-sheet.pdf)

[javascript.info](https://www.javascript.info/)



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Statements Reference

Date Reference

Regular expressions

Class Reference

Error Reference

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