

The language itself

JavaScript was created to make websites more interactive.
 It's an interpreted, weak and dynamic language.
 JavaScript a functional and object-oriented programming language.
 It is garbage collected and function arguments are always passed by value.

Language environment

JavaScript is a text-based language that does not need any conversion before being executed.
 It is executed instantly by a type of program that interprets the code called a parser.
 To execute JavaScript in a browser you have two options — either put it inside a script element anywhere inside an HTML document, or put it inside an external JavaScript file (with a .js extension) and then reference that file inside the HTML document using an empty script element with a src attribute. It's also cross-platform.

Data Structure

Array	Stack
Linked List	Queue
Binary Tree	Binary Search Tree
Heap	Hashing
Graph	

Loop

for	loops through a block of code a number of times
for/in	loops through the properties of an object
for/of	loops through the values of an iterable object
while	loops through a block of code while a specified condition is true
do/while	also loops through a block of code while a specified condition is true

Syntax and data structure

console.log(x)	to print x
let x = ...	create a variable
const x	non mutable variable
typeof x	type of the variable

Conditions

if(condition)	
if (condition) else	
if(condition) else if (another condition)	
x == y	returns true if x and y are equal
x === y	returns true if x and y are identical
x != y	Returns true if x and y are not equal
x !== y	Returns true if x and y are not identical
x >= y	Returns true if x is greater than or equal to y
x > y	Returns true if x is greater than y



Syntax and data structure (cont)

<code>x<=y</code>	Returns true if x is less than or equal to y
<code>x<y</code>	Returns true if x is less than y
<code>x y</code>	Returns true if either x or y are true
<code>x && y</code>	returns true if x and y are true

Functions/Methods

<code>function nameofyourfuction(){}</code>	to call a fuction
<code>push()</code>	Appends new elements to the end of an array.
<code>unshift()</code>	Adds one or more items to the beginning of an array.
<code>pop()</code>	Removes the last item from the array
<code>shif()</code>	Removes the first item from the array
<code>length()</code>	number of elements in an array
<code>sort()</code>	Sort an array in place
<code>reverse()</code>	reverses an array
<code>replace(a,b)</code>	to replace a by b
<code>split()</code>	Split a string into substrings using the specified separator and return them as an array
<code>toLowerCase()</code>	Converts all the alphabetic characters in a string to lowercase.
<code>splice()</code>	change the contents of an array by removing or replacing existing elements and/or adding new elements
<code>concat()</code>	concatenates (joins) two or more arrays
<code>join()</code>	creates and returns a new string by concatenating all of the elements in an array
<code>existsSync</code>	Returns true if the path exists



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 Page 2 of 2.

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