

JS CheatSheet

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Basics ▶

Loops ↷

Variables x

```
var a; // variable
var b = "init"; // string
var c = "Hi" + " " + "Joe"; // "Hi Joe"
var d = 1 + 2 + "3"; // = "33"
var e = [2,3,5,8]; // array
var f = false; // boolean
var g = /()/; // RegEx
var h = function({}); // function object
const PI = 3.14; // constant
var a = 1, b = 2, c = a + b; // one line
let z = 'zzz'; // block scope local variable
```

Strict mode

```
"use strict"; // Use strict mode to write secure code
x = 1; // Throws an error because variable is not declared
```

Values

```
false, true // boolean
18, 3.14, 0b10011, 0xF6, NaN // number
"flower", 'John' // string
undefined, null, Infinity // special
```

Operators

```
a = b + c - d; // addition, subtraction
a = b * (c / d); // multiplication, division
x = 100 % 48; // modulo. 100 / 48 remainder = 4
a++; b--; // postfix increment and decrement
```

Bitwise operators

```
& AND 5 & 1 (0101 & 0001) 1 (1)
| OR 5 | 1 (0101 | 0001) 5 (101)
~ NOT ~5 (~0101) 10 (1010)
^ XOR 5 ^ 1 (0101 ^ 0001) 4 (100)
<< left shift 5 << 1 (0101 << 1) 10 (1010)
>> right shift 5 >> 1 (0101 >> 1) 2 (10)
>>> zero fill right shift 5 >>> 1 (0101 >>> 1) 2 (10)
```

Arithmetic

```
a * (b + c) // grouping
person.age // member
person[age] // member
!(a == b) // logical not
a != b // not equal
typeof a // type (number, object, function...)
x << 2 x >> 3 // minary shifting
a = b // assignment
a == b // equals
a != b // unequal
a === b // strict equal
a !== b // strict unequal
a < b a > b // less and greater than
a <= b a >= b // less or equal, greater or eq
a += b // a = a + b (works with - * %...)
a && b // logical and
a || b // logical or
```

Arrays ≡

```
var dogs = ["Bulldog", "Beagle", "Labrador"];
var dogs = new Array("Bulldog", "Beagle", "Labrador"); // declaration

alert(dogs[1]); // access value at index, first item being [0]
dogs[0] = "Bull Terrier"; // change the first item

for (var i = 0; i < dogs.length; i++) { // parsing with array.length
  console.log(dogs[i]);
}
```

Methods

```
dogs.toString(); // convert to string: results "Bulldog,Beagle,Labrador"
dogs.join(" * "); // join: "Bulldog * Beagle * Labrador"
dogs.pop(); // remove last element
dogs.push("Chihuahua"); // add new element to the end
dogs[dogs.length] = "Chihuahua"; // the same as push
dogs.shift(); // remove first element
dogs.unshift("Chihuahua"); // add new element to the beginning
delete dogs[0]; // change element to undefined (not recommended)
dogs.splice(2, 0, "Pug", "Boxer"); // add elements (where, how many to remove, elements)
var animals = dogs.concat(cats,birds); // join two arrays (dogs followed by cats and birds)
dogs.slice(1,4); // elements from [1] to [4-1]
dogs.sort(); // sort string alphabetically
dogs.reverse(); // sort string in descending order
x.sort(function(a, b){return a - b}); // numeric sort
x.sort(function(a, b){return b - a}); // numeric descending sort
highest = x[0]; // first item in sorted array is the lowest (or x.sort(function(a, b){return 0.5 - Math.random()})); // random order sort
```

```
concat, copyWithin, every, fill, filter, find, findIndex, forEach, indexOf, isArray, join, lastIndexOf, map, pop, push, reduce, reduceRight, reverse, shift, slice, some, sort, splice, toString, unshift, valueOf
```

JSON j

```
var str = '{"names":[" + // crate JSON object
  '{"first":"Hakuna","lastN":"Matata" },' +
  '{"first":"Jane","lastN":"Doe" },' +
  '{"first":"Air","last":"Jordan" ]}';
obj = JSON.parse(str); // parse
document.write(obj.names[1].first); // access
```

Send

```
var myObj = { "name":"Jane", "age":18, "city":"Chicago" }; // create object
var myJSON = JSON.stringify(myObj); // stringify
```

On page script

```
<script> ...
</script>
```

```
<script> ...
</script>
```

```
<script> ...
</script>
```

```
document.getElementById().innerHTML = "Hello World!"
```

```
// write to the browser console
// write to the HTML
// output in an alert box
// yes/no dialog, returns true/false
// input dialog. Second argument is
```

Strings ☒

```
var abc = "abcdefghijklmnopqrstuvwxyz";
var esc = 'I don\'t \n know'; // \n new line
var len = abc.length; // string length
abc.indexOf("lmno"); // find substring, -1 if doesn't
abc.lastIndexOf("lmno"); // last occurrence
abc.slice(3, 6); // cuts out "def", negative values
abc.replace("abc", "123"); // find and replace, takes regular expression
abc.toUpperCase(); // convert to upper case
abc.toLowerCase(); // convert to lower case
abc.concat(" ", str2); // abc + " " + str2
abc.charAt(2); // character at index: "c"
abc[2]; // unsafe, abc[2] = "c" doesn't work
abc.charCodeAt(2); // character code at index: "c"
abc.split(","); // splitting a string on commas
abc.split(""); // splitting on characters
128.toString(16); // number to hex(16), octal (8)
```

Dates [31]

```
Tue Nov 09 2021 16:43:12 GMT-0300 (Horário Padrão de Brasília)
var d = new Date();
1636486992680 milliseconds passed since 1970
```

```
// date declaration
// is set to Jan 01
9-09:45"; // date - time YYYY-MM-DDTHH:MM:SSZ
// long date format
00 GMT+0100 (Tokyo Time)); // time zone
```

```
Setting the weekday
```

```
ay as a number (1-31)
ekday as a number (0-6)
ur digit year (yyyy)
ur (0-23)
lliseconds (0-999)
inutes (0-59)
nths (0-11)
econds (0-59)
illiseconds since 1970
```

```
7); // adds a week to a date
```

```
ay as a number (1-31)
ear (optionally month and day)
ur (0-23)
illiseconds (0-999)
inutes (0-59)
nths (0-11)
econds (0-59)
illiseconds since 1970

7); // adds a week to a date

ay as a number (1-31)
ear (optionally month and day)
ur (0-23)
illiseconds (0-999)
inutes (0-59)
nths (0-11)
econds (0-59)
illiseconds since 1970

setSeconds(); // seconds (0-59)
setTime(); // milliseconds since 1970)
```

Errors ⚠

```
// block of code to try
```

```
// block to handle errors
```

```
// throw a text
```

For Loop

```
for (var i = 0; i < 10; i++) {
  document.write(i + ": " + i*3 + "<br />");
}

var sum = 0;
for (var i = 0; i < a.length; i++) {
  sum += a[i];
} // parsing an array

html = "";
for (var i of custOrder) {
  html += "<li>" + i + "</li>";
}
```

While Loop

```
var i = 1; // initialize
while (i < 100) { // enters the cycle if statement is true
  i *= 2; // increment to avoid infinite loop
  document.write(i + ", "); // output
}
```

Do While Loop

```
var i = 1; // initialize
do { // enters cycle at least once
  i *= 2; // increment to avoid infinite loop
  document.write(i + ", "); // output
} while (i < 100) // repeats cycle if statement is true
```

Break

```
for (var i = 0; i < 10; i++) {
  if (i == 5) { break; } // stops and exits the cycle
  document.write(i + ", "); // last output number is 4
}
```

Continue

```
for (var i = 0; i < 10; i++) {
  if (i == 5) { continue; } // skips the rest of the cycle
  // skips 5
}
```

Events ⓘ

```
<button onClick="myFunction();">
Click here
</button>
```

Mouse

```
onclick, oncontextmenu, ondblclick, onmousedown, onmouseenter, onmouseover, onmouseout, onmouseup
```

Keyboard

```
onkeydown, onkeypress, onkeyup
```

Frame

```
onabort, onbeforeunload, onerror, onhashchange, onload, onpageshow, onscroll, onunload
```

```
onfocusin, onfocusout, oninput, oninvalid
```

```
enter, ondragleave, ondragover, ondragstart
```

```
aythrough, ondurationchange, onended, onerror, onpause, onplay, onplaying, onprogress, ontimeupdate, onvolumechange, onwaiting
```

```
ation, animationstart
```

```
onmousewheel, ononline, onoffline, onpopstate, onreadystatechange, onstorage, onstorage, onstorage, onstorage
```

Regular Expressions \n

```
var a = str.search(/CheatSheet/1);
```

Modifiers

```
i perform case-insensitive matching
g perform a global match
m perform multiline matching
```

Patterns

```
\ Escape character
\d find a digit
\s find a whitespace character
^ match at beginning or end of a word
+ ns at least one n
* ns zero or more occurrences of n
? ns zero or one occurrences of n
if string
f string
e Unicode character
nle character
```

Useful Links

```
section
ge (a, b or c)
the digits between the brackets
```

Storing and retrieving

```
window.location = "demo.php?x=" + myJSON; // send to php

myObj = { "name":"Jane", "age":18, "city":"Chicago" };
myJSON = JSON.stringify(myObj); // storing data
localStorage.setItem("testJSON", myJSON);
text = localStorage.getItem("testJSON"); // retrieving data
obj = JSON.parse(text);
document.write(obj.name);
```

```
document.write("Input is " + err); // if there's an error
console.error(err); // output error
// write the error in console
finally {
  document.write("<br />Done"); // executed regardless of the try / catch re
}
```

Error name values	
RangeError	A number is "out of range"
ReferenceError	An illegal reference has occurred
SyntaxError	A syntax error has occurred
TypeError	A type error has occurred
URIError	An encodeURI() error has occurred

JS cleaner

Obfuscator

Can I use?

jQuery

Regex tester

or more, ungreedy
r more of a
r more, ungreedy
y 2 of a
ore of a
5 of a
of a
of a, ungreedy
unctuation symbol
pace character
or tab

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