

JavaScript Cheat Sheet

JavaScript is a a loosely typed and dynamic scripting language developed for the Internet, and a core technology of the the World Wide Web.

Variables

Variable names can contain uppercase or lowercase letters (Aa to Zz), or numbers (0 to 9), or an underscore (). They cannot start with a number.

Data type	Global scope	Block scope
number	<pre>var foo = 10;</pre>	<pre>let foo = 10;</pre>
string	<pre>var foo = "example";</pre>	<pre>let foo = "example";</pre>
Boolean	<pre>var foo = true; var foo = false;</pre>	<pre>let foo = true;</pre>

Binary operators		Assignment shortcuts			
a & b	Bitwise AND (1 if both bits are 1)	a += b;	Addition	a = a + b;	
a b	Bitwise OR (1 if either bits are 1)	a -= b;	Subtraction	a = a - b;	
a ^ b	Bitwise XOR (1 if bits differ)	a *= b;	Multiplication	a = a * b;	
a< <n< td=""><td>Shift bits to the left</td><td>a /= b;</td><td>Division</td><td>a = a / b;</td></n<>	Shift bits to the left	a /= b;	Division	a = a / b;	
a>>n	Shift bits to the right	a %= b;	Modulo	a = a % b;	

Interacting with HTML

Set contents of any HTML element with ID **demo** to the contents of variable **foo**Set contents of **button** element to the result of the **Date()** function

document.getElementById("demo").i
nnerHTML = foo;

<button onclick="this.innerHTML =
Date()">Timestamp</button>

Common HTML events

click	drag / dragover / dragend	drop
focus	keydown / keypress / keyup	input
load	mousedown / mouseover / mouseup	submit





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Objects

An object can contain many properties (key value pairs), and is defined with the **const** keyword.

Retrieve property

Retrieve property (alternate syntax)

Set property

```
specific:"minor" };
```

penguin.genus;

const penguin = { genus: "Eudyptula",

penguin["genus"];

Penguin.genus = "Linux"

Functions

Provide a function name followed by required variables in parentheses, and function statements in curly braces.

```
function myFunction(arg1, arg2) {
  return arg1 + arg2;
}
```

Methods

A function can be stored as object property. In this example, the **binomial** property is a method.

```
const penguin = {
  genus: "Eudyptula",
  specific: "Minor",
  binomial: function() {
    return this.genus + " " +
this.specific;
 }
};
```

Arrays

```
Create an array
                                  const foo = ["Linux", "BSD"];
Get length of array
                                  foo.length; // returns 2
Retrieve value
                                  foo[0]; // returns "Linux"
Set value
                                  foo[0] = "Fedora";
Add value
                                  foo.push("illumos")
Get last element of array
                                  foo[foo.length -1]; // returns "BSD"
Iterate over array
                                  for (let i = 0; i < foo.length; i++) {</pre>
                                    foo[i];
```

