JavaScript Quick Reference Card

ExplainThat!™

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Code Structure

```
var ...
//Global variable declarations

function funcA(param1,param2...){

  var ...
  //Local variable declarations – visible in nested
  functions

  function innerFuncA(param1,param2...){

    var ...
    //Variables local to innerFuncA
    //your code here

  }
}

aName= ExplainThat!;
//Implicit global variable creation
//your code here
```

Nomenclature Rules

Function and variable names can consist of any alphanumeric character, $ and _ are allowed. The first character cannot be numeric. Many extended ASCII characters are allowed. There is no practical limit on name length. Names are case-sensitive.

If two or more variables or functions or a variable & a function are declared with the same name the last declaration obliterates all previous ones. Using a keyword as a variable or function name obliterates that keyword.

Visibility & Scope

Assignments without the use of the var keyword result in a new global variable of that name being created.

Variables declared with the var keyword outwith the body of a function are global. Variables declared with the var keyword inside the body of a function are local to that function. Local variables are visible to all nested functions.

Local entities hide globals bearing the same name.

Variable Types

string: var s = "explainthat" or 'explainthat'
number: var n = 3.141599, 100, 0...
boolean: var flag = false or true
object: var d = new Date();
function: var Greet = function sayHello() {alert('Hello')}

JavaScript is a weakly typed language – i.e. a simple assignment is sufficient to change the variable type. The typeof keyword can be used to check the current variable type.

Special Values

The special values false, Infinity, NaN, null, true & undefined are recognized. null is an object. Infinity and NaN are numbers.

Operators

Operator	Example	Result
+	3 + 3 'explain' + 'that'	6 explainthat
-	3 - 2	1
*	3*2	6

/	3/2	1.5
%	3%2	1
++	i = 2; ++i , i++	3
--	i = 2; --i , i--	1
===	3 = '3' 3 == '3'	true false
==	3 === 3 3 === '3'	true false
<	2 < 3 'a' < 'b'	true false
<=	2 <= 3	true
>	2 > 3	false
>=	2 >= 3	false
=	i = 2	i is assigned the value 2
+=	i+=1	3
-=	i-=1	2
/=	i/=3	6
*=	i*=2	3
%=	i%=2	1

i = 2; j = 5;		
&& (AND)	(i <= 2) && (j < 7)	true
|| (OR)	(i%2 > 0) || (j%2 == 0)	false
! (NOT)	(i==2) && !(j%2 == 0)	true

i = 2; j = 7;		
& (bitwise)	i & j	2
| (bitwise)	i|j	7
^ (XOR)	i^j	5
<<	2<<1	4
>>	2>>1	1
>>>	i=10;(binary 1010) i>>>2	2

Internal Functions

decodeURI – reverses encodeURI
decodeURIComponent – reverses encodeURIComponent
encodeURI – encodes everything except !/?&:,~@#+*() and alphanumerics
encodeURIComponent – encodes everything except _.-!~*'() and alphanumerics
escape – hexadecimal string encoding. Does not encode *@/_+-. and alphanumerics
unescape – reverses escape
eval – evaluates JavaScript expressions
isNaN – true if the argument is not a number
isFinite – isFinite(2/0) returns false
parseInt – parseInt(31.5") returns 31
parseFloat – parseFloat(31.5") returns 31.5

Array Object

length – number of elements in the array
concat – concatenates argument, returns new array.
join – returns array elements as a string separated by argument (default is ,)
pop – suppresses & return last element
push – adds new elements to end of array & returns new **length**
reverse – inverts order of array elements.
shift – suppresses & return first element

slice – returns array slice. 1st arg is start position. 2nd arg is last position + 1
sort – alphanumeric sort if no argument. Pass sort function as argument for more specificity.
splice – discard and replace elements
unshift – append elements to start & return new **length**

Date Object

getX
getUTCX
setX
setUTCX
where X is one of Date, Day, FullYear, Hours, Milliseconds, Minutes, Month, Seconds, Time, TimezoneOffset

toDateString – the date in English.
toGMTString – the date & time in English.
toLocaleDateString – the date in the locale language.
toLocaleString – date & time in the locale language.
toLocaleTimeString – time in the locale language.
toTimeString – time in English.
toUTCString – date & time in UTC, English.
valueOf – milliseconds since midnight 01 January 1970, UTC.

Math Object

E, LN10, LN2, LOG10E, LOG2E, PI, SQRT1_2, SQRT2
abs – absolute value
Xin – trigonometric functions
aXin – inverse trigonometric functions
where X is one of cos, sin or tan
ceil(n) – smallest whole number >= n.
exp(n) – returns e^n
floor(n) – biggest whole number <= n.
log(n) – logarithm of n to the base e
max(n,n) – bigger of n₁ and n₂
min(n,n) – smaller of n₁ and n₂
pow(a,b) – a^b
random – random number between 0 and 1
round(n) – n rounded down to closest integer
sqrt(n) – square root of n

Number Object

MAX_VALUE – ca 1.79776+308
MIN_VALUE – ca 5E-324
NEGATIVE_INFINITY, POSITIVE_INFINITY
n.toExponential(n) – n in scientific notation with m decimal places.
n.toFixed(m) – n rounded to the closest whole number.
n.toPrecision(m) – n rounded to m figures.
Hexadecimal numbers are designated with the prefix 0x or 0X, e.g. 0xFF is the number 255.

String Object

length – number of characters in the string
s.charAt(n) – returns s[n]. n starts at 0
s.charCodeAt(n) – Unicode value of s[n]
s.fromCharCode(n,n...) – string built from Unicode values n₁, n₂...
s1.indexOf(s2,n) – location of s2 in s1 starting at position n
s1.lastIndexOf(s2) – location of s2 in s1 starting from the end
s.substring(n₁,n₂) – returns substring starting from n₁ upto character preceding n₂. No n₂ → extract till end. n₁ < 0 → extract from end.
s.toLowerCase() – returns s in lower case characters
s.toUpperCase() – care to guess?

Javascript Reference

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