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<http://www.explainsomething.com>
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Code Structure

```

var ...
//Global variable declaration
function funcA([param1,param2,...])
{
var ...
//Local variable declarations - visible in nested functions
}

function innerFuncA([param1,param2,...])
{
var ...
//Variables local to innerFuncA
//your code here
}

name = 'ExplainThat!';
//global global variable creation
//your code here
    
```

Nomenclature Rules

Function and variable names can consist of any alphanumeric character (0-9) and are allowed. The first character cannot be numeric. Many standard 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 overrides 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 (within 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 = 3.14159, 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 typed 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 + 2 "hello" + "!"	5 "hello!"
-	3 - 2	-1
*	3*2	6

!	3*2	1/3
%	3%2	1
**	1 + 2 3+4, 4+3	3
-	1 + 2 1-1, -1	1
++	3 + 3 2 ++ 3	true false
---	3 --- 3 3 --- 3	true false
^	2 ^ 3 "1" ^ "1"	true false
^^	2 ^^ 3	true
>	2 > 3	false
==	2 == 3	false
=	1 = 2	(is assigned the value 2)
+=	1+=1	2
-=	1-=1	0
=	1=3	3
/=	1/=2	0.5
%=	1%=2	1
[= 2] = 5;		
&& (AND)	(1 < 2) && (3 < 7)	true
(OR)	(1%2 > 0) (3%2 == 0)	false
!(NOT)	(1+2) && 1 (3%2 == 0)	true
[= 2] = 7;		
& (bitwise)	1 & 1	1
(bitwise)	1 1	1
^ (XOR)	1 ^ 1	0
<<	2<<1	4
>>	2>>1	1
>>>	1 >>> 2 (Binary 1010) 1 >>>> 2	0 0

Internal Functions

decodeURI - reverses encodeURI
decodeURIComponent - reverses encodeURIComponent
encodeURIComponent - encodes everything except /?%&!*'()*+, -@_~| and alphanumerics
encodeURIComponent - encodes everything except /?%&!*'()*+, -@_~| and alphanumerics.
escape - hexadecimal string encoding. Does not encode %0A, %0D, and alphanumerics.
unescape - reverses escape
eval - evaluates JavaScript expressions
isNaN - true if the argument is not a number.
isFinite - isFinite(2/0) returns false
parseFloat - parseFloat("1.5") returns 1.5
parseFloat - parseFloat("1.5") returns 1.5

Array Object

length - number of elements in the array
concat - concatenates argument, returns new array.
join - returns 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

date
constructor
call
callDate
 where d is one of Date, Day, FullYear, Hours, Milliseconds, Minutes, Month, Seconds, Time, TimezoneOffset
toLocaleString - the date in English.
toLocaleString - the date & time in English.
toLocaleDateString - the date in the locale language.
toLocaleTimeString - 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
sin - trigonometric functions
asin - inverse trigonometric functions
 where x is one of cos, sin or tan
ceil - smallest whole number >= x
exp - returns e^x
floor - biggest whole number <= x
log - logarithm of x to the base e
max(a,b) - bigger of a, and b
min(a,b) - smaller of a, and b
pow(a,b) - a^b
random - random number between 0 and 1
round - x rounded down to closest integer
sqrt - square root of x

Number Object

MAX_VALUE - ca 1.7977E+308
MIN_VALUE - ca 5E-324
NEGATIVE_INFINITY POSITIVE_INFINITY
isExponential - is in scientific notation with no decimal places.
isFinite - is rounded to the closest whole number.
isInteger - is rounded to an integer.
 Hexadecimal numbers are designated with the prefix 0x or 0X. a p. diff is the number 255.

String Object

length - number of characters in the string
charAt(n) - returns s[n] if starts at 0
charCodeAt(n) - Unicode value of s[n]
fromCharCode(...) - string built from unicode values s₀, s₁, ...
indexOf(s1,s2) - location of s2 in s1 starting at position s
lastIndexOf(s2) - location of s2 in s1 starting from the end
slice(s1,s2) - returns substring starting from s₁ upto character preceding s₂. No s₁ = extract all and. s₁ = 0 = extract from end.
toLowerCase - returns s in lower case characters.
toUpperCase - same to guess?

Javascript Reference

Marco Cascella



Javascript Reference:

Unveiling the Magic of Words: A Overview of "**Javascript Reference**"

In some sort of defined by information and interconnectivity, the enchanting power of words has acquired unparalleled significance. Their ability to kindle emotions, provoke contemplation, and ignite transformative change is really awe-inspiring. Enter the realm of "**Javascript Reference**," a mesmerizing literary masterpiece penned by way of a distinguished author, guiding readers on a profound journey to unravel the secrets and potential hidden within every word. In this critique, we shall delve into the book is central themes, examine its distinctive writing style, and assess its profound impact on the souls of its readers.

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