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<http://www.explainsomething.com>
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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
}

//Name="ExplainThat!";
//script 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 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 outside 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 "exp" + "and" + true	5 "expandtrue"
-	3 - 2	-1
*	3*2	6

!	3*2	1.5
%	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 "a" ^ "b"	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)	6	7
^ (XOR)	7	6
<<	2<<1	4
>>	2>>1	1
>>>	1 >>> 2 (Binary 1010) 1 >>>> 2	0 0

Internal Functions

decodeURI - reverses encodeURI
 decodeURIComponent - reverses encodeURIComponent
 encodeURI - encodes everything except /?%&@#&#x;_~'()*+,-.;= and alphanumerics
 encodeURIComponent - encodes everything except /?%&@#&#x;_~'()*+,-.;= and alphanumerics.
 escape - hexadecimal string encoding. Does not encode %0A, %0D, %0F 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("1.5") returns 1
 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 - suppress & return last element
 push - adds new elements to end of array & returns new length.
 reverse - inverts order of array elements.
 shift - suppress & 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

getMonth
 getDate
 getDay
 getFullYear
 getHours
 getMinutes
 getSeconds
 getTimezoneOffset
 where # 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
 getTime - milliseconds since midnight 01 January 1970, UTC

Math Object

E LN10 LN2 LOG10E LOG2E PI SQRT1_2 SQRT2
 abs - absolute value
 sin - trigonometric functions
 cos - inverse trigonometric functions
 where # is one of cos, sin or tan
 ceil - smallest whole number >= n
 exp - returns eⁿ
 floor - biggest whole number <= n
 log - logarithm of n 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 - n rounded to nearest integer
 sqrt - square root of n

Number Object

MAX_VALUE - ca 1.7977e+308
 MIN_VALUE - ca 5e-324
 NEGATIVE_INFINITY POSITIVE_INFINITY
 toExponential - n in scientific notation with m decimal places.
 toFixed(m) - n rounded to the closest whole number.
 toPrecision(m) - n rounded to m figures.
 Hexadecimal numbers are designated with the prefix 0x or 0X. a p. 0xFFF 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(...s) - 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

Jin-Ying Zhang



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Table of Contents Javascript Reference

1. Understanding the eBook Javascript Reference
 - The Rise of Digital Reading Javascript Reference
 - Advantages of eBooks Over Traditional Books
2. Identifying Javascript Reference
 - Exploring Different Genres
 - Considering Fiction vs. Non-Fiction
 - Determining Your Reading Goals
3. Choosing the Right eBook Platform
 - Popular eBook Platforms
 - Features to Look for in an Javascript Reference
 - User-Friendly Interface
4. Exploring eBook Recommendations from Javascript Reference
 - Personalized Recommendations
 - Javascript Reference User Reviews and Ratings
 - Javascript Reference and Bestseller Lists

5. Accessing Javascript Reference Free and Paid eBooks
 - Javascript Reference Public Domain eBooks
 - Javascript Reference eBook Subscription Services
 - Javascript Reference Budget-Friendly Options
6. Navigating Javascript Reference eBook Formats
 - ePub, PDF, MOBI, and More
 - Javascript Reference Compatibility with Devices
 - Javascript Reference Enhanced eBook Features
7. Enhancing Your Reading Experience
 - Adjustable Fonts and Text Sizes of Javascript Reference
 - Highlighting and Note-Taking Javascript Reference
 - Interactive Elements Javascript Reference
8. Staying Engaged with Javascript Reference
 - Joining Online Reading Communities
 - Participating in Virtual Book Clubs
 - Following Authors and Publishers Javascript Reference
9. Balancing eBooks and Physical Books Javascript Reference
 - Benefits of a Digital Library
 - Creating a Diverse Reading Collection Javascript Reference
10. Overcoming Reading Challenges
 - Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
11. Cultivating a Reading Routine Javascript Reference
 - Setting Reading Goals Javascript Reference
 - Carving Out Dedicated Reading Time
12. Sourcing Reliable Information of Javascript Reference
 - Fact-Checking eBook Content of Javascript Reference
 - Distinguishing Credible Sources
13. Promoting Lifelong Learning

- Utilizing eBooks for Skill Development
 - Exploring Educational eBooks
14. Embracing eBook Trends
- Integration of Multimedia Elements
 - Interactive and Gamified eBooks

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