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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!";
//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	1.5
%	3%2	1
**	1 + 2 3+4, 4+3	3
-	1 + 2 1-2, -2	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	1 + 2 = 3	
&& (AND)	(1 < 2) && (3 < 7)	true
(OR)	(1%2 > 0)    (3%2 == 0)	false
!(NOT)	(1+2) && (3%2 == 0)	true
!	!(2) = 7;	
& (bitwise)	1 & 1	1
(bitwise)	6   1	7
^ (XOR)	7 ^ 1	6
<<	2<<1	4
>>	2>>1	1
>>>	1 >>> 2 (Binary 1010) 1 >>>> 2	2 <sup>1</sup>

**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 %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  
 parseInt - parseInt("1.5") returns 20  
 parseFloat - parseFloat("1.5") returns 01.5

**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. 1<sup>st</sup> arg is start position. 2<sup>nd</sup> 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**

get  
 getDate  
 getDay  
 getFullYear

where # is one of Date, Day, FullYear, Hours, Milliseconds, Minutes, Month, Seconds, Time, TimezoneOffset

toLocaleString - the date in English.  
 toGMTString - 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  
 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  
 acos - inverse trigonometric functions  
 where # is one of cos, sin or tan  
 ceil - smallest whole number >= n  
 exp - returns e<sup>n</sup>  
 floor - biggest whole number <= n  
 log - logarithm of n to the base e  
 max(n1,n2) - bigger of n1 and n2  
 min(n1,n2) - smaller of n1 and n2  
 pow(n1,n2) - n<sup>n2</sup>  
 random - random number between 0 and 1  
 round(n) - n rounded to nearest integer  
 sqrt(n) - 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() - n rounded to the closest whole number.  
 toPrecision() - 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(s1,s2,...) - string built from unicode values s1, s2, ...  
 indexOf(s1,s2) - location of s2 in s1 starting at position s1  
 lastIndexOf(s1,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 00 and. s1 = 0 = extract from end.  
 toLowerCase() - returns s in lower case characters.  
 toUpperCase() - same to guess?

# Javascript Reference

**David Flanagan**



## JavaScript Reference:

[JavaScript Pocket Reference](#) David Flanagan, 1998 See [JavaScript The Complete Reference 3rd Edition](#) Thomas Powell, Fritz Schneider, 2012-07-24 The essential JavaScript resource fully updated Design debug and publish high performance web pages and applications using tested techniques and best practices from expert developers The all new edition of this comprehensive guide has been thoroughly revised and expanded to cover the latest JavaScript features tools and programming methods JavaScript The Complete Reference Third Edition provides illustrative examples line by line code samples and practical development advice from the core of the language to the various standard and emerging APIs supported by modern web browsers This in depth resource covers everything you need to know whether you re trying to understand the fundamentals of weak typing in JavaScript reduce your confusion over closures or perform common tasks like form validation or Ajax calls Explore core JavaScript syntax and data types Investigate often confusing concepts such as weak typing and closures Use object oriented programming the JavaScript way See what changes come from ECMAScript 5 Perform dynamic content updates using DOM methods Handle user generated events with modern event models Modernize form handling with HTML5 and JavaScript Use the XMLHttpRequest object to create Ajax applications Control animation and multimedia content with JavaScript Generate bitmap graphics with the Canvas API Learn methods to handle the challenges of cross browser coding Discover defensive development and error handling

**JavaScript: The Definitive Guide** David Flanagan, 2006-08-17 This Fifth Edition is completely revised and expanded to cover JavaScript as it is used in today s Web 2 0 applications This book is both an example driven programmer s guide and a keep on your desk reference with new chapters that explain everything you need to know to get the most out of JavaScript including Scripted HTTP and Ajax XML processing Client side graphics using the canvas tag Namespaces in JavaScript essential when writing complex programs Classes closures persistence Flash and JavaScript embedded in Java applications Part I explains the core JavaScript language in detail If you are new to JavaScript it will teach you the language If you are already a JavaScript programmer Part I will sharpen your skills and deepen your understanding of the language Part II explains the scripting environment provided by web browsers with a focus on DOM scripting with unobtrusive JavaScript The broad and deep coverage of client side JavaScript is illustrated with many sophisticated examples that demonstrate how to Generate a table of contents for an HTML document Display DHTML animations Automate form validation Draw dynamic pie charts Make HTML elements draggable Define keyboard shortcuts for web applications Create Ajax enabled tool tips Use XPath and XSLT on XML documents loaded with Ajax And much more Part III is a complete reference for core JavaScript It documents every class object constructor method function property and constant defined by JavaScript 1 5 and ECMAScript Version 3 Part IV is a reference for client side JavaScript covering legacy web browser APIs the standard Level 2 DOM API and emerging standards such as the XMLHttpRequest object and the canvas tag More than 300 000 JavaScript programmers around the world have madethis

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**JavaScript: The Complete Reference, 2nd edition** Thomas Powell,Fritz Schneider,2004-06-28 Create dynamic interactive Web pages with the latest upgrade to this flexible development tool Coverage includes event handling object oriented programming IE specific content XML and sample code that lets you work through projects and provides groundwork for your own creations Provides information for new and non professional developers and also more advanced coverage for experienced JS developers who want a comprehensive reference

**JavaScript for the World Wide Web** Tom Negrino,Dori Smith,2001

**JavaScript Pocket Reference** David Flanagan,2012-04-09 JavaScript is the ubiquitous programming language of the Web and for more than 15 years JavaScript The Definitive Guide has been the bible of JavaScript programmers around the world Ideal for JavaScript developers at any level this book is an all new excerpt of The Definitive Guide collecting the essential parts of that hefty volume into this slim yet dense pocket reference The first 9 chapters document the latest version ECMAScript 5 of the core JavaScript language covering Types values and variables Operators expressions and statements Objects and arrays Functions and classes The next 5 chapters document the fundamental APIs for using JavaScript with HTML5 and explain how to Interact with web browser windows Script HTML documents and document elements Modify and apply CSS styles and classes Respond to user input events Communicate with web servers Store data locally on the user s computer This book is a perfect companion to jQuery Pocket Reference

**JavaScript** David Flanagan,2006-08-17 This Fifth Edition is completely revised and expanded to cover JavaScript as it is used in today s Web 2 0 applications This book is both an example driven programmer s guide and a keep on your desk

reference with new chapters that explain everything you need to know to get the most out of JavaScript including Scripted HTTP and Ajax XML processing Client side graphics using the canvas tag Namespaces in JavaScript essential when writing complex programs Classes closures persistence Flash and JavaScript embedded in Java applications Part I explains the core JavaScript language in detail If you are new to JavaScript it will teach you the language If you are already a JavaScript programmer Part I will sharpen your skills and deepen your understanding of the language Part II explains the scripting environment provided by web browsers with a focus on DOM scripting with unobtrusive JavaScript The broad and deep coverage of client side JavaScript is illustrated with many sophisticated examples that demonstrate how to Generate a table of contents for an HTML document Display DHTML animations Automate form validation Draw dynamic pie charts Make HTML elements draggable Define keyboard shortcuts for web applications Create Ajax enabled tool tips Use XPath and XSLT on XML documents loaded with Ajax And much more Part III is a complete reference for core JavaScript It documents every class object constructor method function property and constant defined by JavaScript 1.5 and ECMAScript Version 3 Part IV is a reference for client side JavaScript covering legacy web browser APIs the standard Level 2 DOM API and emerging standards such as the XMLHttpRequest object and the canvas tag More than 300 000 JavaScript programmers around the world have made this their indispensable reference book for building JavaScript applications A must have reference for expert JavaScript programmers well organized and detailed Brendan Eich creator of JavaScript

**JavaScript Programmer's Reference** Christian MacAuley, Paul Jobson, 2001 Get essential programming information at your fingertips You'll learn to use JavaScript to create customized interactive Web sites and get quick tips for implementing JavaScript across different browser platforms This handy guide offers expert tips language verification and cross platform instruction making this the perfect companion for the serious coder

**JavaScript Quick Syntax Reference** Mikael Olsson, 2015-03-23 The JavaScript Quick Syntax Reference is a condensed syntax reference to the JavaScript language It presents the essentials of JavaScript in a well organized format that can be used as a handy reference This includes the latest ECMAScript 5 JSON JavaScript Object Notation and DOM Document Object Model specifications and implementations You won't find any technical jargon bloated samples drawn out history lessons or witty stories in this book What you will find is a JavaScript reference that is concise to the point and highly accessible The book is packed with useful information and is a must have for any JavaScript programmer or Web developer In the JavaScript Quick Syntax Reference you will find A concise reference to JavaScript programming language syntax Short simple and focused code examples A well laid out table of contents and a comprehensive index allowing easy review

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[The Complete Idiot's Guide to JavaScript](#) Scott Walter,Aaron Weiss,1996 Although the main focus of the book is JavaScript this book explores Java HotJava and HTML This book provides users with the tools they need to connect HTML based content to Java applets The user friendly format takes the fear out of learning even programming languages Communications Networking

**The Web Wizard's Guide to JavaScript** Steven Estrella,2002 The Web Wizard s Guide to JavaScript teaches readers how to create Web sites that will have an audience coming back for more From rollovers to cookies this quick and easy to understand introduction to JavaScript will show readers how to create well designed user friendly Web sites in no time This book discusses plug ins and multimedia presents information on forms and explains the basic programming concepts behind JavaScript It includes appendices of HTML tags and JavaScript keywords The Web Wizard Series from Addison Wesley is a series of brief introductory books written by instructors on Internet and Web programming topics of interest to anyone who wants to create web pages Each book includes an easy to read full color design featuring plenty of hands on examples and exercises and is written in a concise and practical manner so readers can use the technologies in no time

**JavaScript** David

Flanagan,1996 From the bestselling author of Java in a Nutshell comes the definitive guide for JavaScript the HTML extension that allows programs to be embedded in Web pages making them more active than ever before In this book Flanagan describes how JavaScript really works and when it doesn t Includes a complete reference section that documents every object property method event handler function and constructor used by the client side JavaScript **PDF Reference**,2005

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