JavaScript Quick Reference Card

ExplainThat!™

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' 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
=	i = 2	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

get#
getUTC#
set#
setUTC#
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.
valueOf - milliseconds since midnight 01 January 1970, UTC.

Math Object

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

Number Object

MAX_VALUE - ca 1.79776+308
MIN_VALUE - ca 5E-324
NEGATIVE_INFINITY, POSITIVE_INFINITY
n.toExponential() - n in scientific notation with m decimal places.
n.toFixed() - n rounded to the closest whole number.
n.toPrecision() - 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_,...) - string built from Unicode values n_, n_
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(n_,n_) - returns substring starting from n_ upto character preceding n_. No n_ - extract till end. n_ < 0 - extract from end.
s.toLowerCase() - returns s in lower case characters.
s.toUpperCase() - care to guess?

[Javascript Reference](#)

Xiaolong Qi

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

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   Adobe Acrobat 7 Official JavaScript Reference Adobe Systems, Inc.,2005-11-10 Do you spend too much time doing repetitive production tasks such as placing and replacing images resizing them dragging them from one document to another and preparing images for printing instead of being creative Do you use Adobe Acrobat and have a strong working knowledge of JavaScript Then you re in luck Since Adobe Creative Suite 2 was created with built in support for scripting virtually every repetitive or time consuming task that creative professionals have to do in Acrobat can be streamlined or automated with the help of a script This book describes how to use JavaScript to manipulate and extend Adobe Acrobat and provides reference information for the JavaScript objects properties and functions defined by Adobe s applications Now available in print for the first time this book doesn t teach you how to write code in JavaScript but if you re familiar with the scripting language and want to start writing scripts for Acrobat you ll appreciate having the most definitive up to date referenceavailable   **JavaScript** Ravi Tomar,Sarishma Dangi,2021-12-12 JavaScript is an easy to use flexible dynamic prototype based programming language predominantly used over the web Although the initial focus of the language was to assist in the generation of dynamic web content it soon found its way into numerous other applications This book aims to cover the fundamentals of the language by providing a strong start for people who wish to start their journey to the JavaScript programming language It provides the mandatory theoretical background which is much needed for implementation of the exhaustive hands on exercises and includes over 4000 lines of code for grasping a maximum understanding of the material FEATURES A strong theoretical background and understanding of the fundamentals of the JavaScript language Hands on and demo exercises at the end of every chapter Exercises theory based questions MCQs and true false questions for helping readers to evaluate their understanding from time to time A dedicated chapter providing extended case studies for using the language This book is targeted at undergraduate as well as postgraduate students who want to learn about front end programming or who wish to learn a lightweight easy to use programming language for working on their projects For programmers having experience in other languages it will serve as a quick summary to get a hold of a new language   **JavaScript The Complete Reference 3rd Edition** Thomas A. Powell,Fritz Schneider,2012-07-22 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 For Dummies Quick Reference** Emily A. Vander Veer,1997-04-11 Tucking a few JavaScript statements in among the HTML code that makes up your Web pages makes a dramatic difference Enhanced more interactive navigation buttons user input validation and scrolling messages are but a few of the improvements that you can make with JavaScript Now with JavaScript For Dummies Quick Reference all the JavaScript statements and examples of how to use them are right at your fingertips Internet technology expert Emily A Vander Veer not only organizes all the relevant HTML and JavaScript topics for easy access but also points out potential pitfalls offers neat tricks and provides complete code for doing such things as interacting with cookies displaying pop up messages and making your script compatible with JavaScript challenged Web browsers Best of all JavaScript For Dummies Quick Reference features handy cross references to topics covered in greater depth in JavaScript For Dummies **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 **Adobe Photoshop CS2 Official JavaScript Reference** Adobe Systems,2006 Do you spend too much time doing repetitive production tasks such as placing and replacing images resizing them dragging them from one document to another and preparing images for printing instead of being creative Do you use Adobe Photoshop CS2 and have some experience with scripting You re in luck Since Adobe Creative Suite 2 was created with built in support

for scripting virtually every repetitive or time consuming task that creative professionals have to do in the Adobe Creative Suite can be streamlined with the help of a script This book describes how to use JavaScript to manipulate and extend Adobe Photoshop within Adobe Creative Suite 2 and provides reference information for the JavaScript objects properties and functions defined by Adobe s applications Now available in print for the first time this scripting reference provides the information experienced JavaScript users need to create custom scripts for Photoshop whether you re looking to automate Camera Raw options and settings automatically resize and export large batches of images into your page layout application or want to automatically add metadata like a copyright notice to selected image files These are just a few examples of how you can use Photoshop CS2 s built in scripting capabilities to save you from hours of repetitive tasks **JavaScript Programmer's Reference** Alexei White,2009-08-03 Learn everything about utilizing the JavaScript language with the next generation of Rich Internet Applications from the accessible information in JavaScript Programmer s Reference both a tutorial and a reference guide for web developers Master methods for using Java with applications like Microsoft s Silverlight Ajax Flex Flash and AIR by practicing with hands on examples with practical usable code Employ this complete JavaScript reference to help you understand JavaScript Data Types Variables Operators Expressions and Statements work with JavaScript Frameworks and data and improve performance with Ajax JavaServer Faces: The Complete Reference Chris Schalk,Ed Burns,James Holmes,2006-09-15 Ideal for the 3 million Java developers this fast paced tutorial offers in depth coverage of JavaServer Faces JSF Sun Microsystem s Web application architecture for the future Co written by the 1 JSF expert in the Java community this book offers the most complete resource on JSF available Extensive coverage on JSF custom component development Serves as a thorough introduction to AJAX technology and techniques Numerous custom JSF component examples including AJAX enabled components provided 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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web the isotopes of a given element always contain the same number of protons and therefore occupy the same place on the periodic table however because isotopes contain different numbers of neutrons each isotope has a unique atomic mass

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web atoms of the same element i e same atomic number z that have different numbers of neutrons are called isotopes for example 99 of the carbon atoms on earth have 6 neutrons and 6 protons in their nuclei about 1 of the carbon atoms have 7

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web aug 19 2022   atoms with the same number of protons but different numbers of neutrons are called isotopes they share almost the same chemical properties but differ in mass and therefore in physical properties there are stable isotopes which do not emit radiation and there are unstable isotopes which do emit radiation

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web aug 9 2023   how do different isotopes of an element differ two isotopes differ in the number of neutrons in the nucleus for example carbon 14 has 8 neutrons differing from carbon 12 which has 6

2 3 isotopes when the number of neutrons varies - Feb 15 2023

web atoms of the same element that differ in their numbers of neutrons are called isotopes many isotopes occur naturally usually one or two isotopes of an element are the most stable and common different isotopes of an element generally have the same physical and chemical properties because they have the same numbers of protons and electrons

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web jan 5 2016   explanation isotopes are atoms of the same element same atomic number ie same number of protons in the nucleus but different atomic masses different mass numbers due to different numbers of neutrons in the nucleus for example we may get an isotope of chlorine with 17 protons and 18 neutrons hence atomic mass 35

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web may 16 2018   explanation an atom is characterized as a particular element by the number of positively charged massive nuclear particles i e z z 1 we gots hydrogen z 2 we gots helium z 3 lithium z 47 we gots silver the nucleus can also contain neutrons massive nuclear particles of zero charge

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web atoms of the same element with different numbers of neutrons are called isotopes close isotope atoms of an element with the same number of protons and electrons but different numbers of neutrons

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web oct 31 2023   an isotope is one of two or more species of atoms of a chemical element with the same atomic number and position in the periodic table and nearly identical chemical behavior but with different atomic masses and physical properties every chemical element has one or more isotopes

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web jul 18 2018   answer link due to the number of neutrons isotopes differ with respect to the number of neutrons their nuclei contain where neutrons are massive particles of zero charge a nucleus may contain variable numbers of neutrons and this gives rise to the phenomenon of isotopes

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web isotopes are distinct nuclear species or nuclides as technical term of the same chemical element they have the same atomic number number of protons in their nuclei and position in the periodic table and hence belong to the same chemical element but differ in nucleon numbers mass numbers due to different numbers of neutrons in

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web verified by toppr correct option is d atoms having same atomic number but different atomic mass are known as isotopes the difference in the mass is due to the difference in their number of neutrons with the same number of electrons and protons

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web part i answer the questions based on the above reading what is an isotope isotopes are versions of the same element they have the same number of protons and electrons as the element but different mass numbers and number of neutrons what does the number next to isotopes signify the number indicates the isotope s mass number

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web nov 27 2016   explanation basically isotopes are nuclei that have the same number of protons and are thus the same element but have unequal numbers of neutrons answer link the nucleus differs as a result of the number of neutrons in the atom the actual structure doesn t differ all that much but its mass does differ thus its density is a little

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web chemistry questions and answers isotopes differ from each other in what ways a they have different numbers of electrons outside the nucleus b they have different atomic number o c they have different numbers of neutrons in the nucleus d more than one response is correct e they have different numbers of protons in the nucleus

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