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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 ...
//Variable 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 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 "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 1-2, -2	1
++	3 + 3 2 ++ 3	true false
---	3 --- 3 3 --- 3	true false
^	2 ^ 3 3 ^ 2	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
+=	1 + 2 1 = 2	3
&& (AND)	0 && 2, 5 && 7	true
(OR)	0    2, 0    0, 2    0	false
!(NOT)	0    2, 5    0	true
!	1 = 2	0
& (bitwise)	1 & 1	1
(bitwise)	0	0
^ (XOR)	1	0
<<	2 << 1	4
>>	2 >> 1	1
>>>	1 >>> 2 (Binary 1010) 1 >>>> 2	0

**Internal Functions**

decodeURI - reverses encodeURI  
 decodeURIComponent - reverses encodeURIComponent  
 encodeURI - encodes everything except /%&!'()\*+,-./:;?@ and alphanumeric  
 encodeURIComponent - encodes everything except -./\_!~\*'() and alphanumeric  
 escape - hexadecimal string encoding. Does not encode %0A, %0D, and alphanumeric  
 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. 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**

getMonth()  
 getDate()  
 getDay()  
 getFullYear()  
 getHours()  
 getMinutes()  
 getSeconds()  
 getTimezoneOffset  
 where it 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.  
 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, LN2, LN10, LOG, LOG2, LOG2E, LOG2\_2, LOG2\_3, LOG2\_5, LOG2\_10  
 abs - absolute value  
 sin - trigonometric functions  
 cos - inverse trigonometric functions  
 where it 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(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 n  
 toFixed - n rounded to n, to closest 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() - n rounded to the closest whole number.  
 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  
 charAt(n) - returns s[n] if starts at 0  
 charCodeAt(n) - Unicode value of s[n]  
 fromCharCode(...n) - string built from Unicode values n1, n2, ...  
 indexOf(char[,i]) - location of char in s1 starting at position i  
 lastIndexOf(char[,i]) - location of char in s1 starting from the end  
 slice(start[,end]) - returns substring starting from n1 upto character preceding n2. No n2 = extract all and. n1 = 0 = extract from end.  
 toLowerCase() - returns s in lower case characters.  
 toUpperCase() - same to guess?

# Javascript Reference

**CH Cherryholmes**



## **Javascript Reference:**

Javascript Reference: Bestsellers in 2023 The year 2023 has witnessed a remarkable surge in literary brilliance, with numerous engrossing novels enthralling the hearts of readers worldwide. Lets delve into the realm of top-selling books, exploring the captivating narratives that have charmed audiences this year. The Must-Read : Colleen Hoover's "It Ends with Us" This touching tale of love, loss, and resilience has gripped readers with its raw and emotional exploration of domestic abuse. Hoover expertly weaves a story of hope and healing, reminding us that even in the darkest of times, the human spirit can triumph. Javascript Reference : Taylor Jenkins Reids "The Seven Husbands of Evelyn Hugo" This intriguing historical fiction novel unravels the life of Evelyn Hugo, a Hollywood icon who defies expectations and societal norms to pursue her dreams. Reids compelling storytelling and compelling characters transport readers to a bygone era, immersing them in a world of glamour, ambition, and self-discovery. Discover the Magic : Delia Owens "Where the Crawdads Sing" This mesmerizing coming-of-age story follows Kya Clark, a young woman who grows up alone in the marshes of North Carolina. Owens crafts a tale of resilience, survival, and the transformative power of nature, captivating readers with its evocative prose and mesmerizing setting. These top-selling novels represent just a fraction of the literary treasures that have emerged in 2023. Whether you seek tales of romance, adventure, or personal growth, the world of literature offers an abundance of captivating stories waiting to be discovered. The novel begins with Richard Papen, a bright but troubled young man, arriving at Hampden College. Richard is immediately drawn to the group of students who call themselves the Classics Club. The club is led by Henry Winter, a brilliant and charismatic young man. Henry is obsessed with Greek mythology and philosophy, and he quickly draws Richard into his world. The other members of the Classics Club are equally as fascinating. Bunny Corcoran is a wealthy and spoiled young man who is always looking for a good time. Charles Tavis is a quiet and reserved young man who is deeply in love with Henry. Camilla Macaulay is a beautiful and intelligent young woman who is drawn to the power and danger of the Classics Club. The students are all deeply in love with Morrow, and they are willing to do anything to please him. Morrow is a complex and mysterious figure, and he seems to be manipulating the students for his own purposes. As the students become more involved with Morrow, they begin to commit increasingly dangerous acts. The Secret History is a brilliant and suspenseful novel that will keep you guessing until the very end. The novel is a warning tale about the dangers of obsession and the power of evil.

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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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