Learn JavaScript Tutorial



Our **JavaScript Tutorial** is designed for beginners and professionals both. JavaScript is used to create client-side dynamic pages.

JavaScript is an object-based scripting language which is lightweight and cross-platform.

JavaScript is not a compiled language, but it is a translated language. The JavaScript Translator (embedded in the browser) is responsible for translating the JavaScript code for the web browser.

What is JavaScript

JavaScript (js) is a light-weight object-oriented programming language which is used by several websites for scripting the webpages. It is an interpreted, full-fledged programming language that enables dynamic interactivity on websites when applied to an HTML document. It was introduced in the year 1995 for adding programs to the webpages in the Netscape Navigator browser. Since then, it has been adopted by all other graphical web browsers. With JavaScript, users can build modern web applications to interact directly without reloading the page every time. The traditional website uses js to provide several forms of interactivity and simplicity.

Although, JavaScript has no connectivity with Java programming language. The name was suggested and provided in the times when Java was gaining popularity in the market. In addition to web browsers, databases such as CouchDB and MongoDB uses JavaScript as their scripting and query language.

Features of JavaScript

There are following features of JavaScript:

- 1. All popular web browsers support JavaScript as they provide built-in execution environments.
- 2. JavaScript follows the syntax and structure of the C programming language. Thus, it is a structured programming language.
- 3. JavaScript is a weakly typed language, where certain types are implicitly cast (depending on the operation).
- 4. JavaScript is an object-oriented programming language that uses prototypes rather than using classes for inheritance.
- 5. It is a light-weighted and interpreted language.
- 6. It is a case-sensitive language.
- 7. JavaScript is supportable in several operating systems including, Windows, macOS, etc.
- 8. It provides good control to the users over the web browsers.

History of JavaScript

In 1993, Mosaic, the first popular web browser, came into existence. In the year 1994, Netscape was founded by Marc Andreessen. He realized that the web needed to become more dynamic. Thus, a 'glue language' was believed to be provided to HTML to make web designing easy for designers and part-time programmers. Consequently, in 1995, the company recruited Brendan Eich intending to implement and embed Scheme programming language to the browser. But, before Brendan could start, the company merged with Sun Microsystems for adding Java into its Navigator so that it could compete with Microsoft over the web technologies and platforms. Now, two languages were there: Java and the scripting language. Further, Netscape decided to give a similar name to the scripting language as Java's. It led to 'Javascript'. Finally, in May 1995, Marc Andreessen coined the first code of Javascript named 'Mocha'. Later, the marketing team replaced the name with 'LiveScript'. But, due to trademark reasons and certain other reasons, in December 1995, the language was finally renamed to 'JavaScript'. From then, JavaScript came into existence.

Application of JavaScript

JavaScript is used to create interactive websites. It is mainly used for:

- Client-side validation,
- Dynamic drop-down menus,
- Displaying date and time,
- Displaying pop-up windows and dialog boxes (like an alert dialog box, confirm dialog box and prompt dialog box),
- Displaying clocks etc.

JavaScript Example

<script>

document.write("Hello JavaScript by JavaScript");

</script>

Test it Now

A detailed explanation of first JavaScript example is given in next chapter.

JavaScript Index

JavaScript Tutorial

- JavaScript Introduction
- JavaScript Example
- External JavaScript

JavaScript Basics

- JavaScript Comment
- JavaScript Variable
- JavaScript Global Variable
- JavaScript Data Types
- JavaScript Operators
- JavaScript If Statement
- JavaScript Switch
- JavaScript Loop
- JavaScript Function

JavaScript Objects

- JavaScript Object
- JavaScript Array
- JavaScript String
- JavaScript Date
- JavaScript Math

JavaScript Date Object

- JavaScript Date
- date getDate() method
- date getDay() method
- date getFullYears() method
- date getHours() method
- date getMilliseconds() method
- date getMinutes() method
- date getMonth() method
- date getSeconds() method
- date getUTCDate() method
- date getUTCDay() method
- date getUTCFullYears() method
- date getUTCHours() method
- date getUTCMinutes() method

JavaScript Object

- JavaScript Object
- Object.assign() method
- Object.create() method
- Object.defineProperty() method
- Object.defineProperties() method
- o Object.entries() method
- Object.freeze() method
- getOwnPropertyDescriptor()
 method
- getOwnPropertyDescriptors() method
- getOwnPropertyNames() method
- getOwnPropertySymbols() method
- Object.getPrototypeOf() method
- Object.is() method
- preventExtensions() method
- Object.seal() method

- JavaScript Number
- JavaScript Boolean
- JavaScript DataView
- JavaScript Function
- JavaScript handler
- JavaScript JSON
- JavaScript Number
- JavaScript Reflect
- JavaScript RegExp
- JavaScript Symbol

JavaScript BOM

- Browser Objects
- 1) Window Object
- o 2) History Object
- o 3) Navigator Object
- 4) Screen Object

JavaScript DOM

- 5) Document Object
- getElementById
- getElementsByName
- getElementsByTagName
- JavaScript innerHTML property
- JavaScript innerText property

JavaScript Validation

- JavaScript form validation
- JavaScript email validation

JavaScript OOPs

- JavaScript Class
- JavaScript Object

- date getUTCMonth() method
- date getUTCSeconds() method
- o date setDate() method
- date setDay() method
- date setFullYears() method
- date setHours() method
- date setMilliseconds() method
- date setMinutes() method
- date setMonth() method
- date setSeconds() method
- date setUTCDate() method
- date setUTCDay() method
- date setUTCFullYears() method
- date setUTCHours() method
- date setUTCMilliseconds() method
- date setUTCMinutes() method
- date setUTCMonth() method
- date setUTCSeconds() method
- date toDateString() method
- date tolSOString() method
- o date toJSON() method
- o date toString() method

- Object.setPrototypeOf() method
- Object.values() method

JavaScript Reflect Object

- JavaScript Reflect
- Reflect.apply() method
- Reflect.construct() method
- Reflect.defineProperty() method
- Reflect.deleteProperty() method
- Reflect.get() method
- getOwnPropertyDescriptor() method
- Reflect.getPrototypeOf() method
- Reflect.has() method
- Reflect.isExtensible() method
- Reflect.ownKeys() method
- preventExtensions() method
- Reflect.set() method
- Reflect.setPrototypeOf() method

JavaScript Set Object

- JavaScript Set
- Set add() method
- Set clear() method
- Set delete() method
- Set entries() method
- Set forEach() method
- Set has() method
- Set values() method

- JavaScript Prototype
- JavaScript constructor
 Method
- JavaScript static Method
- JavaScript Encapsulation
- JavaScript Inheritance
- JavaScript Polymorphism
- JavaScript Abstraction

JavaScript Cookies

- JavaScript Cookies
- Cookie Attributes
- Cookie with multiple
 Name
- Deleting Cookies

JavaScript Events

HTML/DOM Events

JavaScript Misc

- JavaScript this Keyword
- JavaScript Debugging
- JavaScript Hoisting
- JavaScript Strict Mode

JavaScript Advance

- JavaScript TypedArray
- JavaScript Set
- JavaScript Map
- JavaScript WeakSet
- JavaScript WeakMap

Interview Questions

 JavaScript Interview Questions

JavaScript Methods

- date toTimeString() method
- date toUTCString() method
- o date valueOf() method

JavaScript handler Object

- JavaScript handler
- handler apply() method
- handler construct() method
- handler defineProperty() method
- handler deleteProperty() method
- handler get() method
- handler getOwnPropertyDescriptor() method
- handler getPrototypeOf() method
- handler has() method
- handler isExtensible() method
- handler ownKeys() method
- handler preventExtensions() method
- handler set() method
- handler setPrototypeOf() method

JavaScript JSON Object

- JavaScript JSON
- JSON.parse() method
- JSON.stringify() method

JavaScript Map Object

JavaScript String Object

- String charAt() method
- String charAt() method
- String charCodeAt() method
- String concat() method
- String indexOf() method
- String lastIndexOf() method
- String search() method
- String match()
- String replace() method
- String substr() method
- String substring() method
- String slice() method
- String toLowerCase() method
- toLocaleLowerCase() method
- String toUpperCase() method
- toLocaleUpperCase() method
- String toString() method
- String valueOf() method

JavaScript Symbol Object

- JavaScript Symbol
- Symbol.for() method
- Symbol.keyFor() method
- Symbol.toString() method

Symbol Property

Symbol.hasInstance
 Property