

JavaScript tutorial

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JavaScript explained by examples. Widgets and scripts

It is easier to learn a language with interactive examples. This tutorial, that is also a reference manual, offers interactive demos for each element of the language.

Summary of the JavaScript programming language

If you know C, Java or PHP, moving to JavaScript is very easy. This page is a reference to help in use of our examples and demos.

JavaScript and C: Inheritance and differences

Variables and constants

Variables are dynamic in JavaScript.

- Number
- String
- Array
- Date
- Boolean
- Scope of variables.
- Can we pass variables by reference in JavaScript?

Operators

Array

They are dynamic and have attributes and methods.

- Associative array.
- For each.
- Pitfalls in arrays.
- New methods of Array.
- Comprehension array. How to modify the content of an array of filter it with just one command.

Functions

Defining and calling functions.

- Built-in functions.
- The eval function. This built-in function allows to add variables and functions dynamically.
- The bind method. To solve *this* issues in callbacks.

Control structures

Loops and conditional expressions.

Regular expression

Processing texts with matching rules.

- Object RegExp.

Events

- Div and mouse. To know the position of the mouse inside a div, what properties?
- Optical illusion. Demonstration: How to change an image when the mouse is pressed down on it.

Objects

In JavaScript, they are dynamic, the structure can grow during a processing.

- This and new, a close relationship. How a function becomes an object.
- Copy, avatar and double. Assigning an object to a variable only adds a reference to the same object. How to make an independent copy?
- Class and inheritance in common JavaScript. It is quite possible to define a constructor and inherit from another class without waiting

JavaScript and PHP

Sharing variables between PHP and Web pages. Adding variables to that of a form.

Asynchronous JavaScript

How to make JavaScript asynchronous code like that of Analytics from Google?

Harmony, new features in JavaScript

And test of implementation.

- Promise
Running a code only when the result of a processing is obtained.
- Async/Await

Examples of use.

JavaScript without callback

One can avoid the spaghetti code with named functions or promises, particularly when asynchronous functions are chained.

Converting a callback to a promise

To turn synchronous an asynchronous function, with await.

Proxy

A code simplification tool, proxy allows to separate the bulk of the application of the accessory.

JavaScript cheat sheet

The essential in one page.

Forms

Creating and using a form.

Principles and form objects in HTML 4 and HTML 5. Adding a button or an image used as button.

List of all form objects in HTML.

Sending and receiving data depending on form objects

Transmitting data to a web page or a script on the server.

How to pass data to another HTML page. How to pass parameters to a Web page? This is accomplished by a form and a simple script from the parameter string.

GET or POST, what method to choose?

Frames & forms. How to pass form data between frames of a frameset.

Customizing input text

Checkbox, how to pass the state to another page

Select

Displaying a list of items to select.

Table and query with JSON

Storing a table in a JSON file and accessing its content with a SQL-style query.

HTML Objects

Window

Creating dynamically a window in JavaScript.

Location. Accessing element of the URL of the page.

History. Interface to the browser history.

Dialogs. Interacting with the user, with alert, confirm, prompt.

Opening a window in JavaScript.

setTimeout and setInterval. Delay before execution.

Navigator

An object to identify the browser of the user.

Image Map

Links in images.

Dynamic images. Replacing an image.



Lightbox without framework

To build a lightbox and display text or images in a box, only two CSS descriptors are required. And some JavaScript code is added to dynamically contents of the box.

Tab Panel without Framework

A simple Tab Panel for a website or an application in CSS, and to insert another page in the same page with a few lines of JavaScript.

Tab Panel for HTML application. When the content is already in the page.

Tab Panel with frames. Second part of the article.

Button switching

How to create a two-states button or textual command.

Scoring article

How to implement a system that allows readers to click on an symbol to give an article a score.

Mysterious picture

Replace with a fade effect a text by a picture, so that the picture is displayed only when needed.

Navigation bar

Accessing the pages of an article splitted into several parts.

Bookmarklet tutorial

Adding functions to a webpage with just a link in the page on in the bookmarks. Several examples.

Bookmarklets for search

Advanced search function into links.

Bookmarklets: informations on the page

Know anything about a webpage.

More tutorials

[DOM Tutorial](#). (Document, Node, Nodelist).

[Dynamic select](#). Management of lists with JavaScript and Ajax.

[Contextual video](#). Let Google choose videos to illustrate an article based on the content of the page!

[Forum: How to change the background color of a web page](#).

Resources and applications

[JavaScript frameworks and libraries](#).

[Tools for JavaScript programming](#).

[JavaScript games](#).

