JavaScript Tutorial

**JavaScript Tutorial** for beginners and professionals is a solution of client side dynamic pages.

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

JavaScript is not compiled but translated. The JavaScript Translator (embedded in browser) is responsible to translate the JavaScript code.

Where JavaScript is used

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

* Client-side validation
* Dynamic drop-down menus
* Displaying data and time
* Displaying popup windows and dialog boxes (like alert dialog box, confirm dialog box and prompt dialog box)
* Displaying clocks etc.

JavaScript Example

1. [JavaScript Example](https://www.javatpoint.com/javascript-example)
2. [Within body tag](https://www.javatpoint.com/javascript-example)
3. [Within head tag](https://www.javatpoint.com/javascript-example)

Javascript example is easy to code. JavaScript provides 3 places to put the JavaScript code: within body tag, within head tag and external JavaScript file.

Let’s create the first JavaScript example.

**<scrip>**

document.write("JavaScript is a simple language for javatpoint learners");

**</script>**

The **script** tag specifies that we are using JavaScript.

The **text/javascript** is the content type that provides information to the browser about the data.

The **document.write()** function is used to display dynamic content through JavaScript. We will learn about document object in detail later.

## 3 Places to put JavaScript code

1. Between the body tag of html
2. Between the head tag of html
3. In .js file (external javaScript)

## 1) JavaScript Example : code between the body tag

In the above example, we have displayed the dynamic content using JavaScript. Let’s see the simple example of JavaScript that displays alert dialog box.

**<script** type="text/javascript"**>**

 alert("Hello Javatpoint");

**</script>**

## 2) JavaScript Example : code between the head tag

Let’s see the same example of displaying alert dialog box of JavaScript that is contained inside the head tag.

In this example, we are creating a function msg(). To create function in JavaScript, you need to write function with function\_name as given below.

To call function, you need to work on event. Here we are using onclick event to call msg() function.

**<html>**

**<head>**

**<script** type="text/javascript"**>**

function msg(){

 alert("Hello Javatpoint");

}

**</script>**

**</head>**

**<body>**

**<p>**Welcome to JavaScript**</p>**

**<form>**

**<input** type="button" value="click" onclick="msg()"**/>**

**</form>**

**</body>**

**</html>**

External JavaScript file

We can create external JavaScript file and embed it in many html page.

It provides **code re usability** because single JavaScript file can be used in several html pages.

An external JavaScript file must be saved by .js extension. It is recommended to embed all JavaScript files into a single file. It increases the speed of the webpage.

Let’s create an external JavaScript file that prints Hello Javatpoint in a alert dialog box.

**message.js**

function msg(){

 alert("Hello Javatpoint");

}

Let’s include the JavaScript file into html page. It calls the JavaScript function on button click.

**index.html**

**<html>**

**<head>**

**<script**  src="message.js"**></script>**

**</head>**

**<body>**

**<p>**Welcome to JavaScript**</p>**

**<form>**

**<input** type="button" value="click" onclick="msg()"**/>**

**</form>**

**</body>**

**</html>**