# **DHTML Tutorial**

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|  | What is DHTML(Dynamic Hypertext Markup Language)? | HTML & DHTML  **DHTML is NOT a language.**  **DHTML is a TERM describing the art of making dynamic and interactive web pages.**  **DHTML combines HTML, JavaScript, DOM, and CSS.** |

**[What DHTML is, and how to create dynamic and interactive web pages.]**

**DHTML is the art of combining HTML, JavaScript, DOM, and CSS.**

## **What you should already know**

Before you continue you should have a basic understanding of the following:

* HTML
* JavaScript
* CSS

## **DHTML is Not a Language**

* **DHTML stands for Dynamic HTML.**
* **DHTML is NOT a language or a web standard.**
* **DHTML is a TERM used to describe the technologies used to make web pages dynamic and interactive.**
* **To most people DHTML means the combination of HTML, JavaScript, DOM, and CSS.**
* **According to the World Wide Web Consortium (W3C):**

***"Dynamic HTML is a term used by some vendors to describe the combination of HTML, style sheets and scripts that allows documents to be animated."***

## **DHTML Technologies**

**Below is a listing of DHTML technologies.**

## **HTML 4**

**The W3C HTML 4 standard has rich support for dynamic content:**

* **HTML supports JavaScript**
* **HTML supports the Document Object Model (DOM)**
* **HTML supports HTML Events**
* **HTML supports Cascading Style Sheets (CSS)**

**DHTML is about using these features to create dynamic and interactive web pages.**

## **JavaScript**

**JavaScript is the scripting standard for HTML.**

**DHTML is about using JavaScript to control, access and manipulate HTML elements.**

**You can read more about this in the next chapter of this tutorial.**

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## **HTML DOM**

**The HTML DOM is the W3C standard Document Object Model for HTML.**

**The HTML DOM defines a standard set of objects for HTML, and a standard way to access and manipulate them.**

**DHTML is about using the DOM to access and manipulate HTML elements.**

**You can read more about this in a later chapter of this tutorial.**

## **HTML Events**

**The W3C HTML Event Model is a part of the HTML DOM.**

**It defines a standard way to handle HTML events.**

**DHTML is about creating web pages that reacts to (user)events.**

**You can read more about this in a later chapter of this tutorial.**

## **CSS**

**CSS is the W3C standard style and layout model for HTML.**

**CSS allows web developers to control the style and layout of web pages.**

**HTML 4 allows dynamic changes to CSS.**

**DHTML is about using JavaScript and DOM to change the style and positioning of HTML elements.**

[**Using JavaScript**](https://w3schools.sinsixx.com/dhtml/dhtml_javascript.asp.htm)

**[Creating dynamic web pages using JavaScript.]**

**JavaScript can create dynamic HTML content using:**

1. **Javascript alone**
2. **Javascript+HTML DOM**
3. **Javascript+ HTML Events**
4. **Javascript+CSS**

## **1.JavaScript Alone**

If you have studied JavaScript, you already know that the statement:

**document.write()**

can be used to display dynamic content to a web page.

### **Example:**

Using JavaScript to display the current date:

<html>

<body>

<script type="text/javascript">

document.write(Date());

</script>

</body>

</html>

**Output:**

Fri May 21 2021 07:17:52 GMT+0530 (India Standard Time)

**2. JavaScript and the HTML DOM**

With HTML 4, JavaScript can also be used to change the inner content and attributes of HTML elements dynamically.

To change the content of an HTML element use:

**document.getElementById(*id*).innerHTML=*new HTML***

To change the attribute of an HTML element use:

**document.getElementById(*id*).*attribute=new value***

You will learn more about JavaScript and the HTML DOM in the next chapter of this tutorial.

## **3. JavaScript and HTML Events**

New to HTML 4 is the ability to let HTML events trigger actions in the browser, like starting a JavaScript when a user clicks on an HTML element.

To execute code when a user clicks on an element, use the following event attribute:

**onclick=*JavaScript***

You will learn more about JavaScript and HTML Events in a later chapter.

## **4. JavaScript and CSS**

With HTML 4, JavaScript can also be used to change the style of HTML elements.

To change the style of an HTML element use:

**document.getElementById(*id*).style.*property*=*new style***

You will learn more about JavaScript and CSS in a later chapter of this tutorial.