

Dynamic HTML

Audience Dynamic HTML Course

The course Dynamic HTML is intended for person who want to learn how to make dynamic and interactive Web pages.

Prerequisites Course Dynamic HTML

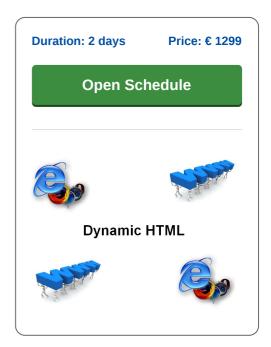
To join this course knowledge of HTML required. Knowledge of a scripting language such as VBScript or JavaScript is recommended.

Realization Training Dynamic HTML

The concepts are treated with the help presentation slides. A demo Web site is used to clarify the concepts. Attention is also paid to hands-on exercises. The course material is in English. The course times are from 9.30 up and to 16.30.

Certification Dynamic HTML

Participants receive an official certificate Dynamic HTML after successful completion of the course.



Content Course Dynamic HTML

In the course Dynamic HTML you will learn to create interactive and dynamic web pages. HTML is not a programming language but a static markup language. HTML in itself is not dynamic, but by combining HTML with JavaScript and CSS we can get dynamic pages. The course is based on pure JavaScript, HTML and CSS without using a framework such as Angular, React or Vue.

Intro Dynamic HTML

The course starts with an overview of the HTML, XHTML and HTML5 standards and their differences. Semantic and structural markup is also discussed and the possible DOCTYPE's in HTML documents as well.

CSS

Next the Cascading Stylesheet (CSS) Standard is treated, which uses selectors and HTML attributes to determine the style in which HTML elements are displayed. In particular attention is paid to class and Id selectors, as well as internal and external style sheets.

HTML DOM

Then the course program covers the hierarchical structure of HTML pages described in the HTML DOM. The different node types and their properties and methods are discussed.

JavaScript

The fundamentals of the programming language JavaScript which is present in all browsers by default are explained. The data types, control flow constructs and operators of the language are reviewed. And also is it treated how JavaScript is incorporated and executed in pages.

Dynamic HTML

Part of the program of the course is the interaction between JavaScript code and the HTML DOM. Attention is paid to how the content of the page is adapted by executing JavaScript code. DOM API functions such as getElementById and event handling with callback functions are covered here.

Ajax

Finally Ajax technology is discussed where parts of the page are refreshed by an HTTP Request to the server without retrieving the entire page again. Processing the JSON or XML response in JavaScript is covered here as well.

Houten, Amsterdam, Rotterdam, Eindhoven, Zwolle, Online



Modules Course Dynamic HTML

| Module 1 : Intro Dynamic HTML | Module 2 : CSS | Module 3 : HTML DOM |
|--|---|--|
| HTML Structure | What is CSS? | HTML DOM |
| DOCTYPE | Rendering with CSS | Element Access |
| Standards Compliance DOCTYPE | Selectors | Building a DOM tree |
| Semantic or Structural Markup | Selector Types | DOM and Browser Object Model |
| Benefits of Semantic Markup | HTML Selectors | DOM Representation |
| Problems with Tables | Class Selectors | Node Object |
| Headings and Paragraphs | SPAN and DIV as carriers | DOM Node Types |
| Line Breaks and Emphasis | ID Selectors | Properties of Node Types |
| HTML, XHTML of HTML5 | Adding CSS Files | Node Properties |
| Validation | CSS Positioning Attributes | Node Methods |
| Well Formed and Valid Documents | CSS Position Property | DOM Data Structures |
| What is XHTML | CSS Visibility Property | NamedNodeMap Interface |
| XHTML Document Structure | CSS Z-index Property | Example Document and Tree |
| Module 4 : JavaScript | Module 5 : Dynamic HTML | Module 6 : Ajax |
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| JavaScript Characteristics | DHTML Technologies | Classic Synchronous App. Model |
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| JavaScript Characteristics | DHTML Technologies | Classic Synchronous App. Model |
| JavaScript Characteristics ECMA Standard | DHTML Technologies DOM API | Classic Synchronous App. Model Ajax Asynchronous App. Model |
| JavaScript Characteristics ECMA Standard JavaScript Code Execution | DHTML Technologies DOM API getElemenById | Classic Synchronous App. Model Ajax Asynchronous App. Model Typical Ajax Interactions |
| JavaScript Characteristics ECMA Standard JavaScript Code Execution script tag | DHTML Technologies DOM API getElemenById getElementByName | Classic Synchronous App. Model Ajax Asynchronous App. Model Typical Ajax Interactions Creating XMLHttpRequest |
| JavaScript Characteristics ECMA Standard JavaScript Code Execution script tag JavaScript Files | DHTML Technologies DOM API getElemenById getElementByName getElementsByTagName | Classic Synchronous App. Model Ajax Asynchronous App. Model Typical Ajax Interactions Creating XMLHttpRequest XMLHttpRequest Methods |
| JavaScript Characteristics ECMA Standard JavaScript Code Execution script tag JavaScript Files Variables | DHTML Technologies DOM API getElemenById getElementByName getElementsByTagName Localization by XPath | Classic Synchronous App. Model Ajax Asynchronous App. Model Typical Ajax Interactions Creating XMLHttpRequest XMLHttpRequest Methods XMLHttpRequest Properties |
| JavaScript Characteristics ECMA Standard JavaScript Code Execution script tag JavaScript Files Variables JavaScript Types | DHTML Technologies DOM API getElemenById getElementByName getElementsByTagName Localization by XPath Event Handlers | Classic Synchronous App. Model Ajax Asynchronous App. Model Typical Ajax Interactions Creating XMLHttpRequest XMLHttpRequest Methods XMLHttpRequest Properties Fetch API |
| JavaScript Characteristics ECMA Standard JavaScript Code Execution script tag JavaScript Files Variables JavaScript Types Numbers and Strings | DHTML Technologies DOM API getElemenById getElementByName getElementsByTagName Localization by XPath Event Handlers Callback Functions | Classic Synchronous App. Model Ajax Asynchronous App. Model Typical Ajax Interactions Creating XMLHttpRequest XMLHttpRequest Methods XMLHttpRequest Properties Fetch API Sending the Request |
| JavaScript Characteristics ECMA Standard JavaScript Code Execution script tag JavaScript Files Variables JavaScript Types Numbers and Strings Arrays | DHTML Technologies DOM API getElemenById getElementByName getElementsByTagName Localization by XPath Event Handlers Callback Functions onchange Event | Classic Synchronous App. Model Ajax Asynchronous App. Model Typical Ajax Interactions Creating XMLHttpRequest XMLHttpRequest Methods XMLHttpRequest Properties Fetch API Sending the Request XMLHttpRequest readyState |