

Professional Training Solutions

Mastering AJAX Course



Course Overview:

This course teaches AJAX and all of its foundational technologies. XHTML and CSS2 are covered in details. Participants will learn the HTML Document Object Model (DOM) and how to manipulate a page dynamically in the client side using JavaScript. The AJAX API is covered in details.

Participants will also learn how to build their own AJAX based framework which will help them write complex applications quickly.

How does this course differ from other AJAX courses?

We cover XHTML and CSS2 in detail. Students will be able to write rich AJAX applications and learn how to develop an AJAX framework. We teach popular third party AJAX frameworks - such as - Microsoft Atlas and Dojo. We cover the RPC mechanism - such as - SOAP and JSON.

Overview of AJAX:

Ajax is not a technology in itself, but a term that refers to the use of a group of technologies together - for example, XML, DHTML, CSS, XHTML.

Traditional web applications essentially submit forms, completed by a user, to a web server. The web server responds by sending a new web page back. Because the server must submit a new page each time, applications run more slowly and awkwardly than their native counterparts.

Ajax applications, on the other hand, can send requests to the web server to retrieve only the data that is needed, usually using SOAP or some other XML-based web services dialect. On the client, JavaScript processes the web server response. The result is a more responsive interface, since the amount of data interchanged between the web browser and web server is vastly reduced. Web server processing time is also saved, since much of it is done on the client.

In most instances an Ajax based site will load quicker than a comparable traditional Web site. When done well, Ajax significantly reduces initial load times.

AJAX is the technology utilised in gmail and hotmail to give the rich user experience of a desktop application, in a service delivered over the web. It is also used in so-called "Web 2.0" sites like flickr.com and business sites like Salesforce.com.

This three day, focused course will show participants how to master the key skills of AJAX.

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Course leader:

Walter Higgins has been in IT since 1992 and has worked in Microsoft, Apple and EMC. He was an early adopter of Java and J2EE and has been involved in Web programming since 1997.

He is the founder & CEO of Sloop Technologies; a Software Development company that specializes in Web Applications. Walter has spoken about Ajax and Web Application development at various conferences and has implemented Ajax in his company's products.

Summary course overview:

Prerequisites for attendees:

The course is aimed at Web based application developers. It is equally suited for .NET and J2EE developers. Web site designers with good knowledge of Java Scripting may also benefit.

Topics:

- What is AJAX
- The purpose of AJAX
- XHTML
- Introduction to CSS2
- JavaScript Document Object Model
- Basic AJAX API
- Advanced JavaScript Document Object Model
- Advanced CSS2
- Communication with the server
- Building an AJAX Framework
- Third Party AJAX Frameworks
- Best practices and Anti-patterns

For full details see http://www.professional.ie/course_details.php?id=3488

For further information contact:

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This course is also available in Dublin and Limerick

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