



Java™ Technology-Powered Microsoft AJAX Library

Steve Marx

Technical Evangelist
Microsoft Corporation
<http://www.microsoft.com>

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Goal of This Talk

What You Will Gain

Learn how to use the Microsoft AJAX Library to build client-side components that communicate with a Java platform backend.

What Is AJAX?

- **Asynchronous JavaScript™ Technology And XML**
- Client/server communication without loading a new page

What Else Does AJAX Sometimes Mean?

- DHTML: HTML + JavaScript technology behavior
 - Animations
 - Drag/drop
 - Show/hide details
- Partial page updates
 - Replace part of the page with UI from the server
 - Stock ticker, news headlines
 - Often with a timer
- AJA*: XML, HTML, text, JSON

What Is ASP.NET AJAX?

- Microsoft AJAX Library
 - Cross-browser, cross-platform, cross-backend
 - Pure JavaScript technology
- ASP.NET AJAX Extensions
 - ASP.NET—only server controls
- AJAX Control Toolkit
 - Shared-source, community project, built on AJAX extensions

Microsoft AJAX Library



XHTML/CSS

Server-generated
Proxy Scripts

Microsoft AJAX Library

Components

Browser Compatibility

Networking

Core Services

Browsers (IE, Firefox, Safari, others)

AJAX Library Design Goals

- Framework for OOP in JavaScript technology
 - Namespaces, properties, events, inheritance, reflection, ...
- Encapsulation of controls/behaviors
 - Reusable script components, easy to associate with HTML elements
- Cross-browser abstraction
 - IE, Firefox, Safari, Opera
- Seamless integration with “web services”



DEMO

Object-oriented programming



Networking Stack

- Abstracts XMLHttpRequest
 - Same-origin policy
 - Raw HTTP requests
- Higher level constructs
 - Object-oriented proxies
 - JSON serialization/deserialization
 - Require backend support



DEMO

Networking





DEMO

More complex controls



For More Information

- Downloads, documentation, etc.
 - <http://ajax.asp.net>
 - <http://learn2asp.net>
 - <http://smarx.com>
Steve.Marx@microsoft.com



Q&A

<code />



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