

AJAX COURSE CONTENT

❖ **BEGINNING AJAX:**

- Creating a request object
- Requesting the data
- Asynchronous data transfer
- Using the readyState property
- Using a callback function
- Using innerHTML
- Sending the request
- Requesting the data
- Error handling with try/catch
- Understanding HTTP

❖ **USING XML AND JSON IN AJAX APPLICATIONS:**

- XML basics
- XML and the DOM
- Using responseText
- Using responseXML
- JSON vs XML
- JSON basics
- Using JavaScript literals
- Using CSS with Ajax

❖ **OBJECT-ORIENTED JAVASCRIPT AND CUSTOM AJAX OBJECTS:**

- The new operator
- Object constructors
- Prototypes
- Using custom Ajax objects
- Ajax and forms
- Encoding

❖ **TROUBLESHOOTING AND DEBUGGING AJAX:**

- The onerror event handler
- Debugging Ajax with Firebug
- Tools for navigating the DOM
 - The Firefox DOM Inspector
 - The IE DOM Inspector
 - The Mouseover DOM Inspector (MODI)
 - Live HTTP Headers
- HTTP Status Codes

❖ **USING JAVASCRIPT LIBRARIES AND CREATING A WIDGET:**

- Using JavaScript libraries/frameworks
- Three types of libraries/frameworks
- DOM extension
- Application conveniences
 - Widgets
- The Prototype JavaScript Framework
 - Using Prototype's Ajax Object
- Using an accordion widget to display an Ajax response

❖ **WORKING WITH XML FEEDS AND PROVIDING FEEDBACK TO THE USER:**

- • Working with XML News Feeds
- • RSS .9x
- • RSS 2.0
- • RSS 1.0
- • Atom
- • Using the Scriptaculous library for visual effects
- • The yellow fade technique
- • Drag and drop functionality
- • Ajax best practices

