Course duration

- 2 days

Course Benefits

- Learn XML Syntax Basics.
- Learn to load XML data.
- Learn to create query objects from existing XML.
- Learn to read and write text files with <cffile>.
- Learn to upload documents with <cffile>.
- Learn to use <cfdirectory>.
- Learn to use <cfhttp>.
- Learn to create ColdFusion Web Services.
- Learn to invoke external Web Services.
- Learn about the WDDX file format.

Course Outline

1. Manipulate the File System with <cffile>
    1. Working with <cffile>
        1. Read and Write Text Files with <cffile>
        2. Built-in Function: ExpandPath()
        3. Reading Files with the <cffile> tag
        4. Built-in Function: FileExists()
    2. Upload Documents with <cffile>
        1. Using the <cffile> tag for an Upload
        2. After a <cffile> Upload: FILE Variables
        3. Deeper Examination: HTML and a File Upload
        4. Saving long variable values with <cfsavecontent>
        5. Using the <cffileupload> tag for Multiple Uploads in ColdFusion 9
        6. Using <cfcontent> to create an Excel Spreadsheet
2. Using XML with ColdFusion
    1. XML Syntax Basics
        1. XML Logical Structure
        2. Each XML document must begin with a language declaration
        3. Each XML document must have a single root element, which normally contains other child elements
        4. XML Physical Structure
        5. Case Sensitivity
        6. Required Closing Tags
        7. New Syntax for "empty elements"

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8. Tags must be nested properly
9. Attribute Values must be enclosed properly in single or double quotes
10. XML Comments
11. XML Logic: Designing Datasheets

2. Parsing XML data with ColdFusion
    1. Demo: Convert an XML datasheet into an XML Document Object with XMLParse()
    2. Case-sensitive Element Names with XMLParse()
    3. Method 1 - Array notation with generic node names
    4. Method 2 - Associative Array notation
    5. Method 3 - Array notation with specific node names
    6. Methods 4(+) - Mix and Match
    7. Deeper Examination: Counting Nodes
    8. Manipulating XML data with Built-in Functions
    9. List of Structure/Array Functions that may be used on an XML Document Object
    10. List of XML-specific Functions
3. Manipaulating the XML Document Object: Adding Elements
    1. Deeper Examination: Adding an XML Attribute
4. Create a Query Object from Existing XML (optional)
    1. Deeper Examination: Looping through the XML
    2. Deeper Examination: Creating the Query Object
    3. Deeper Examination: Query the query
5. Extensible Stylesheet Language (XSL) Basics
    1. XSL, XSLT, and XSLFO
    2. XSL Basics: Linking to an XSL Stylesheet
    3. Examining an XSL Stylesheet
    4. The xsl:stylesheet tag and the namespace declaration
    5. The <xsl:template> tag
    6. The <xsl:value-of> tag
    7. Referencing iterating nodes
6. Server-side XSL Transformation with ColdFusion
    1. Deeper Examination: XMLTransform()
    2. Idea! Transforming XML Data into XML Data
7. XPath Basics
    1. XPath: the XSL Node Matching Syntax
    2. Choosing Between Equivalent XPath Expressions
    3. An XPath testing tool
8. Using XPath with ColdFusion
    1. Deeper Examination: XPath expression
    2. Deeper Examination: XMLSearch()
    3. Idea! Convert an XML Document Object to a Query Object

3. Working with <cfhttp>
    1. Making http requests with <cfhttp>
        1. Attributes of <cfhttp>
        2. Deeper Examination: <cfhttp> tag
        3. Deeper Examination: <cfoutput> block

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        4. While looping though the records
        5. Deeper Examination: QueryAddColumn() function
        6. Idea! Dynamically Creating *Static* Pages
    2. Passing Variables with <cfhttp> and <cfhttpparam>
        1. Creating an Intelligent Agent
        2. Deeper Examination: agent.cfm
        3. Deeper Examination: agent-page2.cfm
        4. Deeper Examination: <cfsetting>
4. ColdFusion and Web Services
    1. Working with Web Services
        1. Examples
        2. Producers vs. Consumers
        3. Definitions
        4. Creating WSDL Documents
        5. Step 1 - Convert the existing CFC into a Web Service
        6. Step 2 - Examine a local WSDL file from the demo
        7. Step 3 - Invoking a ColdFusion Web Service
        8. Deeper Examination
        9. Deeper Examination: Passing an argument to a Web Service
        10. SOAP
        11. A note about security
    2. Invoking External Web Services
        1. Locating Web Services
        2. Invoking Web Services from .NET, Java and more
        3. Deeper Examination: <cfinvoke> and <cfinvokeargument>
5. Web Distributed Data Exchange (WDDX) (if time allows)
    1. WDDX
        1. Deeper Examination: <cfwddx> tag
        2. Deeper Examination
    2. Deserialize WDDX data in JavaScript
        1. Deeper Examination: Include JavaScript functions
        2. Deeper Examination: Deserialize in JavaScript
        3. Deeper Examination: Generated source code
        4. Deeper Examination

Class Materials

Each student will receive a comprehensive set of materials, including course notes and all the class examples.

Class Prerequisites

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Experience in the following *is required* for this ColdFusion class:

- Basic ColdFusion

Experience in the following *would be useful* for this ColdFusion class:

- XML

Prerequisite Courses

Courses that can help you meet these prerequisites:

- Introduction to ColdFusion Training
- Introduction to XML Training

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