

XSLT 2.0 and XPath 2.0 (3 Day)

Course Description

This XSLT 2.0 training class teaches developers how to use XPath 2.0 and XSLT 2.0 to transform XML documents into HTML, plain text and other XML formats.

Class Goals

- Learn to use XPath to access XML elements and attributes
- Learn to loop through XML elements
- Learn to use conditionals in XSLT
- Learn to create and call templates
- Learn to work with multiple XSLTs
- Learn to reference external XML documents

Course Outline

XSLT Basics

eXtensible Stylesheet Language
An XSLT Stylesheet
Output Types
XSLT Elements and Attributes

XPath Language Basics

XPath Functions
XPath Operators
XPath Data Types
XPath Expressions

XPath Path Expressions

XPath in XSLT
XPath Expression
XPath Terminology
Location Paths
Axis
Node Test
Predicate
Accessing Nodes
Abbreviated Syntax

Flow Control in XSLT

Looping in XSLT
Sorting with XSLT
Looping and Sorting
Conditions with XSLT

XSLT Templates, Parameters and Variables

xsl:apply-templates
xsl:call-template
Passing Parameters
Removing Content
Template Modes
Template Priority
XSLT Variables

Multiple XML and XSLT Documents

- Including XSLTs
- Importing XSLTs
- Conflict resolution
- The document() Function
- The collection() Function
- Multiple Result Documents

Grouping

- The xsl:group Element
- Grouping by Value
- Grouping Adjacent Elements
- Grouping by Starting and Ending Elements

Regular Expressions

- Regular Expression Syntax in XSLT
- The xsl:analyze-string Element
- Built-in Functions that Use Regular Expressions

User-Defined Functions

- The xsl:function Element
- Function Names and Parameters
- Calling User-Defined Functions

Advanced XSLT Techniques

- Working with Namespaces
- Working with Keys
- Working with Numbered Lists
- Outputting Processing Instructions
- Copying Nodes