

Introduction to XML (1 Day)

Course Description

In this XML training class, you will learn to create well-formed XML documents, to build simple DTDs and XML Schema for validating XML documents, and to build XSLTs for transforming XML documents into XHTML and other XML structures.

Class Goals

- Learn to create well-formed XML documents.
- Learn the difference between HTML and XHTML.
- Learn to create basic DTDs.
- Learn to create basic XML schemas.
- Learn to validate XML documents against DTDs and XML schemas.
- Learn to create basic XSLTs to transform XML documents as text, HTML, and other XML structures.

Course Outline

XML Basics

- What is XML?
- XML Benefits
- XML in Practice
- XML Documents
- Creating a Simple XML File

DTDs

- Well-formed vs. Valid
- The Purpose of DTDs
- Creating DTDs
- Validating an XML Document with a DTD

XML Schema Basics

- The Purpose of XML Schema
- The Power of XML Schema
- A Simple XML Schema
- Validating an XML Instance Document

Simple-Type Elements

- Overview
- Built-in Simple Types
- User-derived Simple Types
- Specifying Element Type Locally
- Nonatomic Types
- Declaring Global Simple-Type Elements
- Default Values
- Fixed Values
- Nil Values

XSLT Basics

- eXtensible Stylesheet Language
- An XSLT Stylesheet
- Output Types: Text, XML, HTML
- Elements and Attributes