



Introduction to XMLspy 2008

Duration: 2 days



Course Synopsis:

This class provides you with the concepts and skills to use XMLspy effectively. You get hands-on practice working with basic through advanced techniques to get the most out of your experience. XMLspy is used in designing, editing and debugging enterprise-class applications involving XML, XML Schema, XSL/XSLT, SOAP, WSDL and Web Service technologies.. As a true Integrated Development Environment (IDE), XML spy contains features required for many different aspects of XML-related tasks.

Important note: We would be delighted to customize this course to be specific to your current projects, your developers' experience, and the programming languages with which you regularly work. Similarly, if you have purchased Altova's stylevision or authentic products, we can teach these as part of the course.

Who Should Attend:

Professionals seeking to master using xmlspy to create, validate, and deploy XML, XSLT, DTD, XML Schema, SOAP, and WSDL documents. Users will benefit from the many tips and tricks, as well as special exercises. Participants are encouraged to bring problems, questions and samples from their working environment to the class for group discussion.

Prerequisites:

Because of the amount of material we cover in class, we do require students to be comfortable using a mouse, opening and saving files, and the general operations of computers. While we will make every reasonable effort to help, students with insufficient skills may be required to observe the class lessons or do their best to keep up without slowing down the rest of the class. Prior knowledge of XML is strongly recommended, but this xmlspy training class can be customized for audiences that are not previously XML experienced.

What You Will Learn:

- Introducing xmlspy
- Creating XML documents based on DTDs
- Advanced XML Schemas
- Projects and tools
- Web service Development with xmlspy
- Editing XML documents with xmlspy
- Creating XML documents based on XML schemas
- Importing data into xmlspy
- XSLT

Time:

Class time is 9:00 a.m.- 4:00 p.m.
Breaks are scheduled throughout the day and lunch is typically scheduled 12-1. Students provide their own lunch.

Course Materials:

Course materials are provided. Our goal is to make sure your class meets your objectives, not ours. Therefore, all of our outlines are treated as guides to help steer the workshop. We may change or alter course topics to best suit the classroom situation.

Locations:

We have company-operated facilities in Atlanta, Chicago, San Diego and New Orleans. We also work with a network of rental facilities to offer our classes regularly across the United States and in Canada. Please double-check the location of your class with our office to make sure you get to the right location.

Related Courses:

We recommend the following courses that relate to this class: Fundamentals of XML, JavaScript Programming Fundamentals, Macromedia UltraDev. Please take a look at our other course outlines at our web site, <http://www.ledet.com>.

Goals:

Sterling Ledet and Associates realizes the importance of education and we take pride in being able to offer you classes that are more custom fit to your needs. Call us at (770) 414-5007 if you have any special questions or e-mail us at sales@ledet.com.

Registration:

Please fill out our registration form and fax it to us at (312) 896-9094.



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LESSON PLANS

LESSON 1

Introducing xmlspy

- Review of XML technologies and how they are used in modern applications
- Overview of how xmlspy facilitates development of the XML-related features of these applications
- Overview of the xmlspy environment
- Customizing the xmlspy environment

LESSON 2

Editing XML documents with xmlspy

- Creating an xml document
- Adhering to syntax guidelines
 - Specifying an XML processing instruction
- Creating elements and attributes
- Checking a document for well-formedness
- Specifying an applicable DTD (Document Type Definition) or schema
- Validating a document against the DTD or schema
- Embedding comments, entities, and character data
- Using xmlspy's Grid view as a more visual way to edit XML documents

LESSON 3

Creating XML documents based on DTDs

- Deciding on the structure of your document type or types
- Inserting a Caption
- Deciding whether to specify document types via DTDs or Schemas
- Building a DTD in xmlspy
- Applying the DTD

LESSON 4

Creating XML documents based

on XML Schemas

- Why use a schema instead of a DTD?
 - Building an XML schema visually in xmlspy's Schema Design View
- Creating simple types
- Deriving simple types
- Creating complex types
- Controlling element and attribute data types
- Controlling element frequency and sequence
- Controlling value ranges for numeric element and attribute values
- Controlling regular expression patterns for string element and attribute values
- Applying XML schemas to existing documents
- Building new documents based on XML schemas

LESSON 5

Advanced XML Schemas

- Why use namespaces in schemas?
- Using namespaces in schemas
- Modeling a schema
- OO schema design

LESSON 6

Importing data into xmlspy

- Importing plain text files
- Importing data from a relational database
- Importing data from Word documents

LESSON 7

Projects and tools

- Creating xmlspy projects
- Building an appropriate directory hierarchy
- Adding and deleting files in the projects
- Using source control with xmlspy
- Spell checking
- Customizing the editing environment

LESSON 8

XSLT

- Overview of XSL, XSLT, and XSL:FO
- Transforming XML with XSLT
- Creating, applying, and calling templates
- Generating output in multiple document types (XML, HTML, WML, etc.)
- Extracting single values from XML documents and outputting them
 - Iterating through multiple elements and displaying their data as lists, tables, etc.
- XSLT conditionals with `xsl:if`, `xsl:choose`, `xsl:when`, and `xsl:otherwise`
- Sorting output
- Working with XSL text, variables, and data
- Using XSLT modes
- Using XSLT functions

LESSON 9

Web service development with xmlspy

- Overview of Web services and Web service architecture
- The roles of SOAP, WSDL, and UDDI
- Creating SOAP documents via xmlspy
- Examining SOAP documents returned by Web services
- Creating WSDL documents via xmlspy
- Obtaining WSDL documents from Web services
- Building SOAP documents that conform to a Web service's requirements, as set forth in its WSDL file
- Recording Audio
- Adding Background Audio