



Engineering XML Applications

Length: Three days

Level: Advanced

DESCRIPTION

The course is a detailed study of approaches to XML processing and applications. The participants will become familiar with the most important XML processing tools in the market and learn how to effectively apply XML to various environments, including that of mobile, speech, and the Web. An engineering-driven approach based on "best practices" will help participants create applications that are time-tested. In-class quizzes and self-paced exercises interspersed throughout the course will help the participants meet these objectives.

OBJECTIVES

Upon completion of the course, participants will be able to:

- Control the presentation of XML documents using Cascading Style Sheets.
 - Transform XML documents from one vocabulary to another using processing tools such as XSLT.
 - Make a suitable choice in using XML APIs such as SAX and DOM to speed-up the development of XML applications.
 - Use SAX to implement event-based XML applications.
 - Use DOM to implement model-based XML applications.
 - List the requirements for a transition from legacy data formats to XML.
 - Demonstrate a broad perspective of a diverse family of XML vocabularies, and knowledge of how and where they can be suitably applied.
 - Discuss challenges that face XML future.
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TOPICS

- Processing
 - Presentation
 - Cascading Style Sheets (CSS)
 - Transformations
 - XSL Transformations (XSLT)
 - APIs for rapid development of applications for processing XML documents
 - Event-based XML applications with SAX
 - Model-based XML applications with DOM
 - XML at your service
 - Vocabularies
 - Applications for technical documentation
 - Applications on the Web
 - Applications for mobility
 - Applications for speech
 - Applications for trust
 - Knowledge-bases
 - Current and future directions
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AUDIENCE

- Software Developers
 - Software Analysts
 - Application Specialists
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PREREQUISITES

Courses:

- XML Documents

Experience:

- Familiarity with HTML syntax and semantics (preferable but not required)
- Familiarity with a modern programming language such as C++, Java, or Perl