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<< Week 6 >>

COIN-078B

Internet Programming with XML

Java and XML DOM

Module Objectives

- Create an XML parser in Java
- Parse & display an entire document
- Filter XML documents
- Create a windowed browser
- Navigate & modify XML Documents
- Transform XML Documents with XSLT

Reading Assignments:

- **Textbook:** chapters 10 & 11

Java API for XML Processing (JAXP)

The [Java API for XML Processing \(JAXP\)](#), included in Sun J2SE 1.4 and later, is a fairly complete set of APIs for processing XML data in Java. JAXP leverages the parser standards SAX (Simple API for XML Parsing) and W3C DOM (Document Object Model) so that you can choose to parse your data as a stream of events or to build an object representation of it. JAXP also supports the XSLT (XML Stylesheet Language Transformations) standard, giving you control over the presentation of the data and enabling you to convert the data to other XML documents or to other formats, such as HTML. JAXP also provides namespace support, allowing you to work with DTDs that might otherwise have naming conflicts.

Most current XML parsers for Java support JAXP including Crimson, Ælfred, Xerces, Piccolo, and the Oracle XML Parser for Java.

The following implementations support the transform component of JAXP and also bundle a parser (in alphabetical order):

Name	Parser Implementation	XSLT Processor Implementation	Comment
Apache Xalan-J	Xerces-J 2.x	Xalan-J XSLT	None
JAXP Reference Implementation	Xerces2 or Crimson	Xalan-J XSLT	See JAXP RI questions below.
Java 2 Platform, Standard Edition 1.4	Crimson	Xalan-J XSLT, cvs tag: xalan_2_2_d10	Uses JAXP RI version later than 1.1.2