

Course Overview XML

COIN 78 - XML
Foothill College

XML Course Overview

- What is XML?
- Tour of XML sites
- XHTML transitional
- How XHTML is XML
- Linking to style sheets
 - converting XHTML to XML

Building an XML Document

- Declaration
- Basic XML tags
- Well formedness
- Browser validation
- Data models

Working with DTDs

- What is a DTD?
- Sample DTD files
- Using DTDs with XML
- Validating XML with DTDs
- Creating DTDs from schema

CSS - Cascading Style Sheets

- Why use cascading style sheets in XML?
- CSS is a combination of rules
 - made of selectors and properties
- Flexibly create a format for presenting / rendering XML using an external document
- Easiest way to render XML in a form that looks (virtually) like an HTML document
- Uses the web browser's 'CSS awareness'

XML Schema / Namespaces

- XML Schema Language
- Elements and Attributes
- Entities and Notations
- Using XML namespaces
- Writing XSD documents
- Validating XML documents with Schema

XSL and XSLT

- What is XSL? XSLT?
- eXtensible Style Language (XSL)
- Render XML files with HTML formatting
 - Leverage XML aware browser functionality
- Consists of instructions and literals
- In XML / XSL create an *output structure* for the final **transformed document**

XML Sitemaps

- *An inventory of your website files*
- Written in a simple XML format
 - XML sitemap schema
 - Tells a search agent what to index
- Use with **Google Analytics**
- Create it by hand, or use a Web service
- Different formats (ROR) for Yahoo!

RSS and Metadata

- Really simple syndication
 - Used with blogs
- Rich site summary
 - Used for site indexing
- Built on semantic web technologies
 - Utilizes RDF
 - Xlink and XPointer

Web Services and SOAP

- **Hyperlinked applications**
- http / XML / XSL / Java
- SOAP protocol / envelope
- Includes UDDI registry
- Used in e-business / automation
- Creating APIs for future **Web platform**

Final Writing Assignment

- 25 questions / 25 points
 - Definitions / terminology
 - Big picture concepts
 - Research / writing
- Submit in ETUDES / e-text
- <https://etudes-ng.fhda.edu/>
- **Due by last day of class!**

Contact Information

- **Robert D. Cormia**
- Informatics / bioinformatics
- rdcormia@earthlink.net
- CormiaRobert@foothill.edu
- 650.747.1588 (home/office)
- 650.949.7456 (campus / office)