



Understanding XML

Session TEC-208

G. Hussain Chinoy

Granularity Information Architecture, Inc.



XML: a brief history

- > 1986, 1988: SGML
Standard Generalized **Markup Language**
- > 1990-1999: HTML
Hypertext **Markup Language** (1.0-4.01)
- > February, 1998: XML
Extensible **Markup Language**
W3C Issues XML Recommendation

XML: Fundamental Concepts

What's coming next...

- Presentation vs. Logic
- Well-Formed & Valid
- DTDs / Schemas
- Datatyping
- Basic Examples: What does XML look like?

XML: Presentation vs. Logic

- > HTML – information wants to be free
Browser wars evolved HTML from
Structure to Presentation
or, why the tag ruined the web
- > Where's data left?

XML: Presentation vs. Logic

> XML: Data, Structure, Schema, Typing

design goals

- subset of SGML, with the Internet in mind; compatible with SGML
- human readable
- easy to write XML parsers

uses

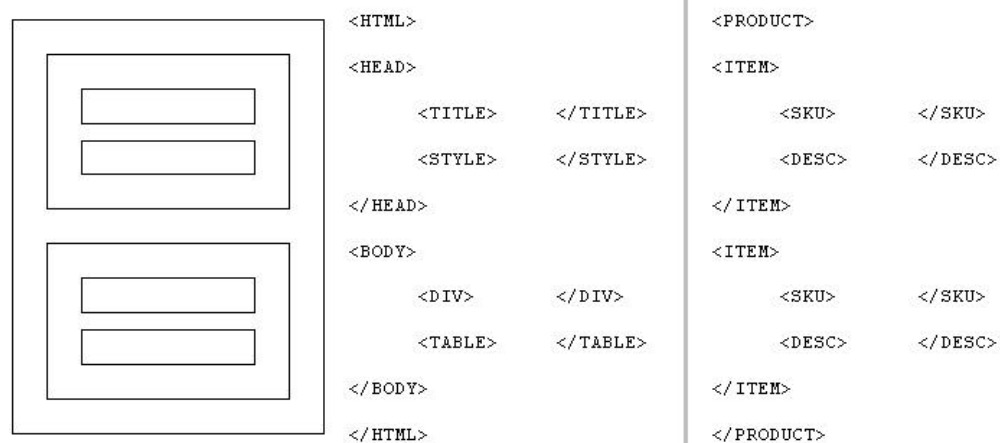
- data interchange markup language
- data structure definitions

technologies

- existing: DOM
- still developing: XSL, XLL

XML: Fundamental Concepts

- `<?xml version="1.0"?>`
- Well-Formedness (nest/box model)



- Valid
- Empty elements, case sensitive

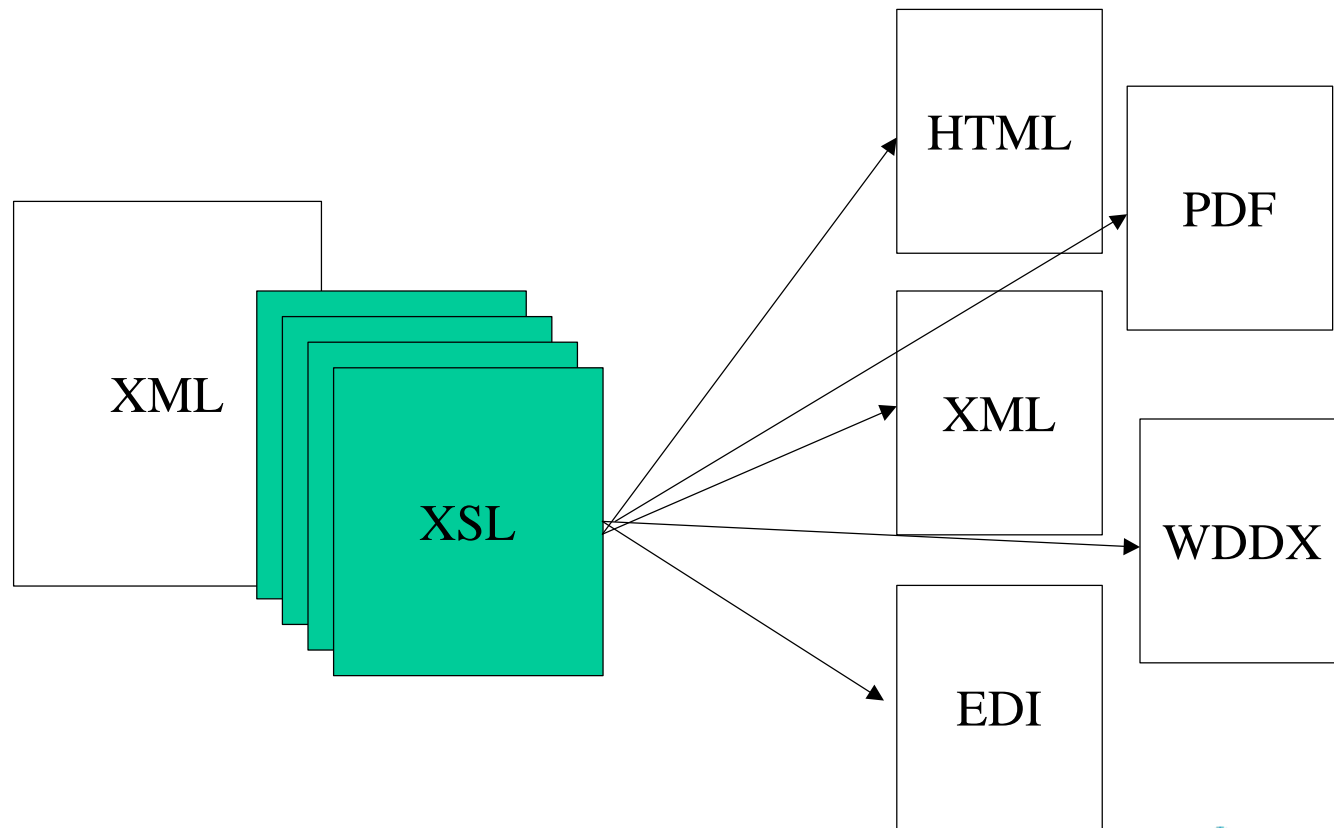
XML: Fundamental Concepts

- > Document Type Definitions (DTDs)
 - Allaire WDDX
 - Vignette ICE
 - ... more ...
- > Schemas written in XML
 - W3C XML Schema (in progress)
 - MS XML-Data *aka* BizTalk
 - ... others ...

XML: DTDs/Schemas

- > Publishing (ICE, NFF, WML)
- > Electronic Commerce (XML/EDI, OFX, OTP, OBI, FRML)
- > Graphics (3dML, SMIL)
- > Science/Academia (Bioinformatic ML, CML, MathML)

XSL: Extensible Stylesheet Language



XML: Fundamental Concepts

- > Datatyping
 - XML Schemas
 - WDDX
 - BizTalk / XDR

XML in ColdFusion: WDDX

> Uses

- for data interchange
- as a data structure



XML and ColdFusion

- > XML General Usage
- > Using XML (not WDDX) and CF
- > Emitting and Consuming XML with CF
- > XML Technologies

Other XML Initiatives

- > XSL
- > XQL
- > XML-Schemas
- > XML-RPC
- > XML/EDI
- > RDF
- > BizTalk / XDR
- > cXML
- > FRML

XML Resources

- > WDDX
<http://www.wddx.org/>
- > XML / XSL
<http://www.w3.org/TR/REC-xml/>
- > XML Schemas
<http://www.w3.org/TR/xmlschema-1/>
<http://www.w3.org/TR/xmlschema-2/>
- > XSL / XSLT / Xpath
<http://www.w3.org/TR/WD-xsl/>
<http://www.w3.org/TR/xslt>
<http://www.w3.org/TR/xpath>

Other XML Related Sessions

> Tuesday

9:45a – 10:35a

SOL 216C Web Syndication, WDDX & Spectra
(Camden)

9:45 a – 11:15a

CFD 112A Server-to-Server WDDX (Drucker)

11:35a- 12:25p

TEC 201A Advanced XML Development (Simeonov)

3:40p – 5:10p

TEC 102A Leveraging XML in CF using WDDX (Weiss)