



Approaching XML

Stephen Miller

AAC / ÖAW

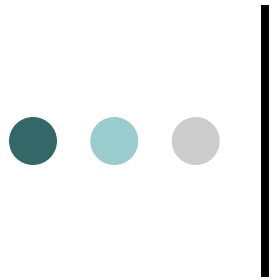
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The World of Protocols

- TCP/IP
 - Telnet
 - FTP
 - SMTP
- World Wide Web (WWW)
 - HTTP
 - HTML
 - URL



XML

- Defined by a family of protocols



Family Breakdown...

1. Structure
2. Rendering
3. Linking
4. Metadata



Structure: XML

- Extensible Markup Language 1.0 (XML)
 - W3C Recommendation 10 February 1998
 - www.w3.org/TR/2000/REC-xml-20001006
- Namespaces in XML (XML Names)
 - W3C Recommendation 14 January 1999
 - www.w3.org/TR/1999/REC-xml-names-19990114



Associated Standards

- Unicode and ISO/IEC 10646
 - glyphs
- Internet RFC 1766
 - language identification tags
- ISO 639
 - language name codes
- ISO 3166
 - country name codes



Rendering: XSL

- Extensible Stylesheet Language (XSL)
 - XSL Transformations (XSLT)
 - XML Path Language (XPath)
 - XSL Formatting Objects (XSL-FO)

<http://www.w3.org/Style/XSL>



Linking: XLink & XPointer

- XML Linking Language (XLink)
- XML Base
- XML Pointer Language (XPointer)
- XML Path Language (XPath)

<http://www.w3.org/XML/Linking>



Metadata: RDF

- Resource Description Framework (RDF)
 - Framework for describing and interchanging metadata
- Tim Bray, *What is RDF?*
 - <http://www.xml.com/pub/a/2001/01/24/rdf.html>

<http://www.w3.org/RDF>