

Mag. iur. Dr. techn. Michael Sonntag

XML Techniques for E-Commerce

Organization

Guest Lecture at Eötvös Loránd University
Budapest, 26. – 29.9.2005

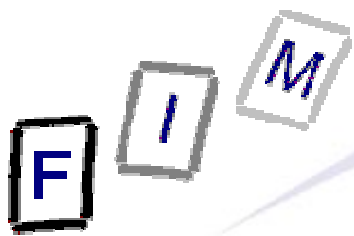
Institute for Information Processing and
Microprocessor Technology (FIM)
Johannes Kepler University Linz, Austria

E-Mail: sonntag@fim.uni-linz.ac.at
<http://www.fim.uni-linz.ac.at/staff/sonntag.htm>

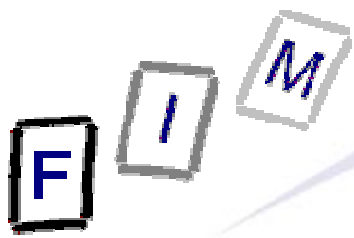
F I M

Questions?

Please ask them immediately!

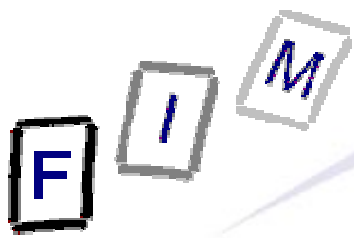


- Studied computer science at the JKU
 - Master thesis (Dipl.-Ing.): Teleworking
 - PhD thesis (Dr.): Mobile Agents and Security
- Studied jurisprudence at the JKU
- Currently assistant at FIM (Prof. Mühlbacher)
- Current research interests:
 - Distance education
 - » Metadata, use of agents in DE; developing a system and some tools
 - Intelligent agents
 - » Security, mobility; not really focused on AI
 - Legal aspects of computer science
 - » El. Signatures, privacy, E-Commerce laws, ...
- Professional experience: IT manager of call center
 - International leased lines, VoIP, VPN, applications, network, ...



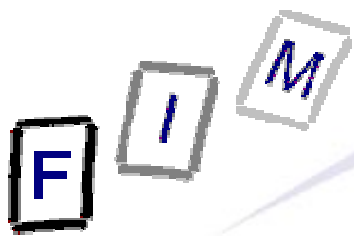
One topic group per day (hopefully!):

- Basics:
 - XML, DTD, Namespaces
- Syntax:
 - XML Schema
- Presentation:
 - XPath, XSLT, XSL-FO
- Programming:
 - SAX, DOM, Serialization
- Higher E-Commerce standards
 - ebXML
 - SOAP, WSDL, UDDI
 - XML Signatures, XML Encryption
 - RDF, OWL



Course schedule

- 26.9. (Monday): 16:00-18:00
→ Room 2-108 (South Building)
- 27.9. (Tuesday): 18:00-20:00
→ Room 2-108 (South Building)
- 28.9. (Wednesday): 16:00-18:00
→ Room 2-108 (South Building)
- 29.9. (Thursday): 18:00-20:00
→ Room 2-108 (South Building)
- 30.9. (Friday): 14:00-16:00
→ Room 2-108 (South Building)

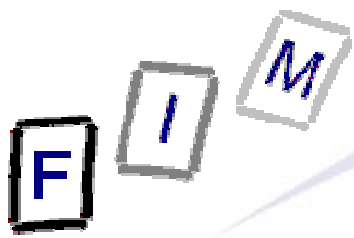


- The slides and information on the course can be found on the following webpage:

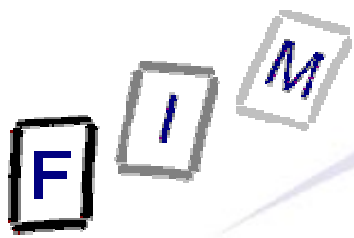
http://www.sonntag.cc/teaching/XML_E-Commerce_WS0506/

Please note: We will not always cover all of the slides!

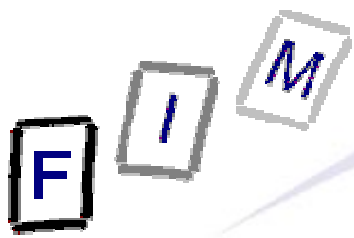
See also the list at the end of each part for more literature and links!



- Small projects after the course
 - Programming a small application working on some kind of XML
 - Designing XML: E.g. Schema, XSLT
 - Overview on a related area: E.g. XLink, XForms, XQuery
- For each project, a very brief webpage presenting the result must be created
 - Area of application, design rationale, example
- Timeframe: 31.10. 2005 (Monday)
 - Send complete result (webpage, source code, examples, etc.) to me in a single ZIP file via E-Mail



- Your own topic!
 - If you have an idea, please talk to me. We will work out an assignment based on it!
- Slides for presentation with explanation text
 - Overview and comparison of XQuery and SQLX
 - Specific standards/specifications/applications:
 - » XForms
 - » XQuery
 - » XML key management
 - » SMIL
 - » RSS (in all versions)
 - » SVG
 - » VoiceXML: Subsets only!
 - » OASIS OpenDocument
 - General overview
 - Overview on smaller subareas



- You can reach me in these ways:
 - Post: Michael Sonntag, Institute for Information Processing and Microprocessor Technology (FIM), Altenbergerstr. 69, A-4040 Linz, Austria
 - » Only if you want to send me voluminous written material!
 - Telephone: +43 (70) 2468-9330
 - » Only if it's very urgent!
 - Fax: +43 (70) 2468-8599
 - » For all short written notices
 - E-Mail: sonntag@fim.uni-linz.ac.at
 - » Fastest answers, general use
 - Personally before/during/after the lecture
 - » The best chance, if possible!