

Mag. iur. Dr. techn. Michael Sonntag

# **XML Techniques for E-Commerce**

## **Organization**

Guest Lecture at Eötvös Loránd University  
Budapest, 20. – 24.9.2004

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

E-Mail: [sonntag@fim.uni-linz.ac.at](mailto:sonntag@fim.uni-linz.ac.at)  
<http://www.fim.uni-linz.ac.at/staff/sonntag.htm>

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# Questions?

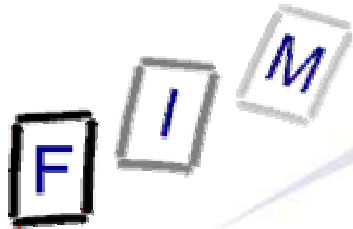
Please ask them immediately!

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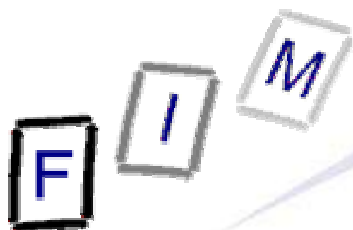
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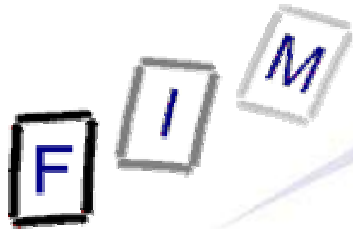
# Curriculum Vitae

- 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
    - » 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, VPN, applications, network, ...



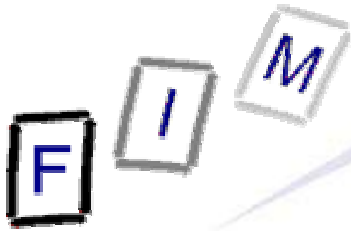
One topic group per day (hopefully!):

- 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

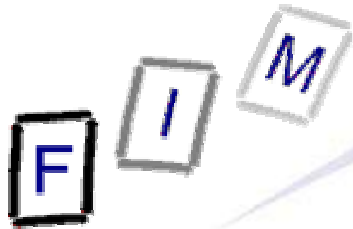
- 20.9. (Monday): 16:00-18:00  
→ Room D 1-820
- 21.9. (Tuesday): 18:00-20:00  
→ Room D 1-820
- 22.9. (Wednesday): 16:00-18:00  
→ Room D 1-820
- 23.9. (Thursday): 18:00-20:00  
→ Room D 1-820
- 24.9. (Friday): 14:00-16:00  
→ Room D 1-820



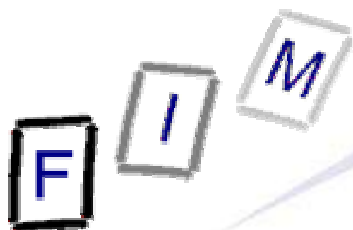
- The slides and information on the course can be found on the following webpage:

[http://www.sonntag.cc/teaching/XML\\_E-Commerce/](http://www.sonntag.cc/teaching/XML_E-Commerce/)

- See also the list at the end of each part!

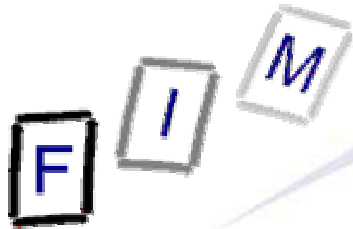


- Small projects after the course
  - Programming a small application working on some kind of XML
  - Designing XML: E.g. Schema, XSLT
  - Overview on a related area: E.g. XLink, XForms, XQuery
- For each project, a very brief webpage presenting the result must be created
  - Area of application, design rationale, example
- Timeframe: 25.10. 2004 (Monday)
  - Send complete result (webpage, source code, examples, etc.) to me in a single ZIP file via E-Mail



## Project topics

- Your own topic!
  - If you have an idea, please talk to me. We will work out an assignment based on it!
- XML Schema for a personal link page + XSLT
  - Categories, subcategories, links
- A schema for presentations: Both slides (HTML) and a textbook (PDF and HTML) should be produced by XSLT+FO
- Overview on a related area: E.g. XLink, XForms or XQuery
- Overview and comparison of XQuery and SQLX
- Tool overview: Converting Java sourcecode to HTML **and** PDF
- Simple editor for XML Resumés
  - <http://xmlresume.sourceforge.net/>



## Contact details

- 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 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](mailto:sonntag@fim.uni-linz.ac.at)
    - » Fastest answers, general use
  - Personally before/during/after the lecture
    - » The best chance, if possible!