

# XML in the Development of Component Systems

Course Overview

# Course Topics

- Syntactical Structure of SGML and XML
- Schema Languages (DTD, XSchema, RelaxNG, Name Spaces)
- Parsing Technologies (SAX, DOM)
- Transformations
- XML in Packaging and Deployment

# Course Topics (2)

- Web Services (SOAP, WSDL)
- XML for Model Interchange (MOF, XMI)
- XML for Encryption and Key Exchange

# Course Topics (3)

- Standardization and Standards Conformance:
  - W3C (World Wide Web Consortium)
  - OMG (Object Management Group)
  - OASIS (Organization for the Advancement of Structured Information Standards)

# Practical Work

- Definition and Usage of XML „documents“
- Implementation of XML processing applications
- Focus on Java as the implementation language; other languages at the student's choice
- Studying specifications

# Literature

- Harold, Means: XML in a Nutshell, O'Reilly 2003
- van der Vlist: XML Schema, O'Reilly 2002
- W3C: Extensible Markup Language (XML) 1.0
- W3C: XML Schema Part 0: Primer

# 1. Übungsaufgabe

- Well-formed, valid, and schema-valid documents
- <http://www.dcl.hpi.uni-potsdam.de/cms/teaching/xml03/>
- Abgabetermin: 4. November