

# XML

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<subtitle>Exam</subtitle>

<author>Prof. Dr. Christian Pape</author>

# Facts

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- XML (winter 08/09)
  - PO3: covers module internet programming
  - PO4: module metasprachen (with Theoretische Informatik 2)
  - 5.2., 10:30 am (XML part starts later, approx. 11:45 am)
  - Hand-outs have space for writing solution
  - See Web site / bulletin-board for rooms
- Some rules
  - In English (a dictionary may help)
  - Answers have to be written in English
  - Questions during exam allowed in German
  - **Non electronic aids allowed** (no laptops, no mobile phones, ...)
  - Books, lecture notes, etc. are allowed
  - Only write solution at corresponding space in the hand-out
  - If solution is written on separated paper, then refer to this solution in the corresponding hand-outs position
  - Solutions on separated paper without referring to them from original hand-out do not count
  - Write your name on separate paper and return separate paper together with hand-outs
  - Person who quit room before official end: please be quite

# Wahlfach

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## “Wahlfach”

- 90 minutes
- XML Bachelor (PO3)
  - 120 minutes
  - Additional tasks (e.g. sequence diagram)
  - 60 minutes (PO4)

# Requirments

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- Requirements for exam
  - *Must* know about
  - *Should* know about
  - *May* (or may not) know about
- Three mayor topics
  - XML, DTD, XML Schema
  - Transforming documents: XSLT
  - Java and XML: SAX

# Must know

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- You must know about
  - XML
    - Well-formed XML documents (design, writing, reading)
    - Document Type Definitions (design, writing, reading, checking whether XML document is valid or not)
    - Reading XML Schemas and checking validness
  - XSLT (reading/applying, writing stylesheet transformations)
    - Transforming XML to XML
    - Reading and writing XPath
  - How to read in documents with SAX
    - Design of Applications with SAX
    - Writing code fragments
    - Needed API definitions are provided in hand-out
  - **UML Sequence diagram** (for Bachelor PO3)

## Should know

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- You should know about
  - Extending or modifying existing XML Schema
  - Pros and cons of related tools (DTD, XML Schemas, Castor, SAX, etc.)
  - All special notions like well-formed, valid, current-node, context-node, etc. (to understand questions in exam)

# May know

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- You may (or may not) know about
  - How to use XML namespaces (only for XSL)
  - Special XML dialects like MathML, GraphML, Ant
  - Generated Castor classes (how they look like, how they are generated or used)
  - Java APIs
    - But knowledge would be helpful
    - when needed, API definitions are printed in hand-out

- Questions?