

可擴展標示語言文件之處理：理論與實務 (CS5099701)

XML Document Processing: Theory and Practice

Fall 2006

Place and Time

Room T4-303, every Tuesday 09:30 – 12:20 except holidays.

Course Web Site

<http://www.iis.sinica.edu.tw/~trc/public/courses/Spring2007/>

Instructor

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Teaching Assistant

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Schedule

- (Part 0) 02/27 HTML; Document markup languages; Why XML?
- (Part 1) 03/06 XML Recommendation — DTD (Document Type Definition); Modulation; Case study: RSS
- (Part 1) 03/13 XML Recommendation — language code, character set, text encoding; XML Namespace
- (Part 1) 03/20 XPATH
- (Part 1) 03/27 XSLT (Extensible Stylesheet Language Transformations)
- (Part 2) 04/03 XSL-FO (XSL Formatting Objects); CSS (Cascading Style Sheets)
- (Part 2) 04/10 DOM (Document Object Model); Case study: HTML Slidy
- (Part 2) 04/17 Server-side/client-side XSLT; client-side scripting
- (Part 3) 04/24 XML DTD revisited; Case study: Ruby, XHTML Modulation
- (Part 3) 05/01 XML Schema — Structures
- (Part 3) 05/08 XML Schema — Datatypes; Case study: Ruby
- (Part 3) 05/15 Relax NG; Case study: Atom
- (Part 4) 05/22 Balanced context-free grammars
- (Part 4) 05/29 (*Project proposal due*) Regular tree grammars; tree automata
- (Part 4) 06/05 Validated XML processors; XDuce
- (Part 4) 06/12 Other research topics
- (Part 5) 06/19 (*Holiday*)
- (Part 5) 06/26 (*Project presentation*)

Reference Book (Recommended)

Elliotte Rusty Harold & W. Scott Means. *XML in a Nutshell*, 3rd edition. Sept. 2004, O'Reilly Media, Inc.

Grade

Homework (50%) and project (50%).