Querying and Storing XML

Week 1
Introduction & course overview, XML basics
January 15-18, 2013

Key information

- Instructor: James Cheney, jcheney@inf.ed.ac.uk
- Lectures: 11:10-12:00, Tuesday/Friday
  - LF4, 7 Bristo Square
- Office Hours: (IF 5.29)
- TA: Clare Llewellyn, s1053147@sms.ed.ac.uk
- Webpage:
  - http://www.inf.ed.ac.uk/teaching/courses/qsx/
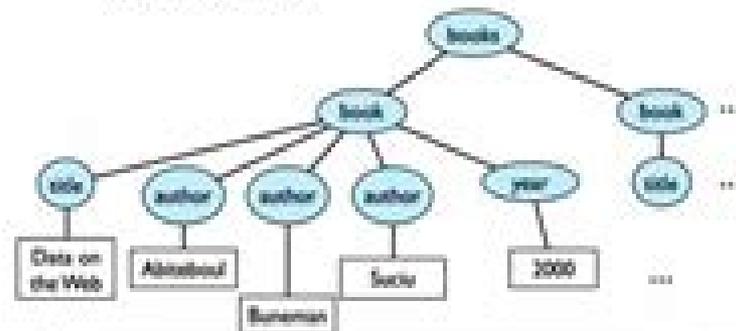 - Weekly readings, project ideas/suggested readings

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What is XML?

- eXtensible Markup Language [W3C 1998]
- Ask five different people, get five different answers...
  - a self-describing data format?
  - a generalization of HTML?
  - the future/past?
  - best thing since sliced bread/clunky and evil?
  - a metalanguage?
    - http://en.wikipedia.org/wiki/List_of_XML_markup_languages

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In a nutshell:

- A (meta)language for *semi-structured data* (trees)

Xml In A Nutshell

ML Morrison

Xml In A Nutshell:

   XML in a Nutshell Elliotte Rusty Harold,W. Scott Means,2004-09-23 If you re a developer working with XML you know there s a lot to know about XML and the XML space is evolving almost moment by moment But you don t need to commit every XML syntax API or XSLT transformation to memory you only need to know where to find it And if it s a detail that has to do with XML or its companion standards you ll find it clear concise useful and well organized in the updated third edition of XML in a Nutshell With XML in a Nutshell beside your keyboard you ll be able to Quick reference syntax rules and usage examples for the core XML technologies including XML DTDs Xpath XSLT SAX and DOM Develop an understanding of well formed XML DTDs namespaces Unicode and W3C XML Schema Gain a working knowledge of key technologies used for narrative XML documents such as web pages books and articles technologies like XSLT Xpath Xlink Xpointer CSS and XSL FO Build data intensive XML applications Understand the tools and APIs necessary to build data intensive XML applications and process XML documents including the event based Simple API for XML SAX2 and the tree oriented Document Object Model DOM This powerful new edition is the comprehensive XML reference Serious users of XML will find coverage on just about everything they need from fundamental syntax rules to details of DTD and XML Schema creation to XSLT transformations to APIs used for processing XML documents XML in a Nutshell also covers XML 1 1 as well as updates to SAX2 and DOM Level 3 coverage If you need explanation of how a technology works or just need to quickly find the precise syntax for a particular piece XML in a Nutshell puts the information at your fingertips Simply put XML in a Nutshell is the critical must have reference for any XML developer   *XML in a nutshell* Elliotte Rusty Harold,W. Scott Means,2005

   XML in a Nutshell Elliotte Rusty Harold,W. Scott Means,2001 Introduces the basic rules of XML syntax for document markup the details of document type definition DTD creation and the APIs used to read and write XML documents in a variety of programming languages A series of quick reference chapters lists syntax rules for XPath XSLT SAX and DOM c Book News Inc   *XML in a Nutshell* ,2002 XML in a Nutshell thoroughly explains the basic rules that all XMNL documents and all XML document creators must adhere to Quick reference chapters also detail syntax rules and usage examples for the core XML technologies including XML DTDs SPath XSLT SAX and DOM   *XML in a Nutshell, 3rd Edition* Elliotte Rusty Harold,2004 If you re a developer working with XML you know there s a lot to know about XML and the XML space is evolving almost moment by moment But you don t need to commit every XML syntax API or XSLT transformation to memory you only need to know where to find it And if it s a detail that has to do with XML or its companion standards you ll find it clear concise useful and well organized in the updated third edition of XML in a Nutshell With XML in a Nutshell beside your keyboard you ll be able to Quick reference syntax rules and usage examples for the core XML technologies including XML DTDs Xpath XSLT SAX and DOM Develop an understanding of well formed XML DTDs namespaces Unicode and W3C XML Schema Gain a working knowledge of key technologies used for narrative XML documents such as web pages books and

articles technologies like XSLT Xpath Xlink Xpointer CSS and XSL FO Build data intensive XML applications Understand the tools and APIs necessary to build data intensive XML applications and process XML documents including the event based Simple API for XML SAX2 and the tree oriented Document Object Model DOM This powerful new edition is the comprehensive XML reference Serious users of XML will find coverage on just about everything they need from fundamental syntax rules to details of DTD and XML Schema creation to XSLT transformations to APIs used for processing XML documents XML in a Nutshell also covers XML 1 1 as well as updates to SAX2 and DOM Level 3 coverage If you need explanation of how a technology works or just need to quickly find the precise syntax for a particular piece XML in a Nutshell puts the information at your fingertips Simply put XML in a Nutshell is the critical must have reference for any XML developer   **XML in a Nutshell** Elliotte Rusty Harold,2002   <u>XML in a Nutshell, 2nd Edition</u> Elliote Rusty Harold,W Scott Means,2002-06-30 An updated quick reference covering the fundamental rules that all XML documents and authors must follow These include the use of XML for data intensive documents an exploration of technologies used for narrative XML documents such as Web pages and books and the essentials of the basic XML standard   *XML in a nutshell* Elliotte Rusty Harold,W. Scott Means,2002 Comme pr vu par ses concepteurs XML s impose inexorablement dans la plupart des champs de l informatique moderne et passe ainsi du statut de nouvelle technologie celui d outil de travail pour des millions de d veloppeurs et de webmasters L ambition de cette seconde dition de XML in a Nutshell est d tre une r f rence aussi concise que possible sur les principaux formats et API utilis s lors de l analyse la transformation et le rendu des sources de donn es XML Ceux qui sont concern s par l change de donn es seront int ress s par les chapitres pr sentant ce qu est un document XML les DTD les espaces de noms l internationalisation et XML Schema Les webmasters tireront principalement profit des chapitres d crivant l utilisation de XHTML et des CSS des diff rents jeux de caract res autoris s XLink et XPointer ou encore RDF SVG et RDDL mais aussi ceux d crivant XPath XSLT et XSL FO Les d veloppeurs auront constamment sous la main non seulement la description compl te de la norme XML du format des DTD des divers jeux de caract res et des espaces de noms mais aussi les API fondamentales comme SAX2 Simple API for XML et DOM Document Object Model niveau 1 et 2 Bien entendu les chapitres couvrant XPath et XSLT sont aussi fait pour eux Les auteurs se sont attach s ne parler que des langages API et formats arriv s maturit pour lesquels il existe des outils ayant d j fait leur preuve Vous trouverez pour chaque technique abord e non seulement un expos exhaustif de sa syntaxe et de ses API mais aussi des exemples d utilisation concrets qui vous montreront comment adapter les standards vos besoins Mieux qu un simple aide m moire cet ouvrage deviendra vite le compagnon indispensable de tout ceux qui travaillent de pr s ou de loin avec XML qu ils s en servent comme format documentaire ou comme format de donn es et d change   *XML in a Nutshell* Elliotte Rusty Harold,2004   <u>Effective XML</u> Elliotte Rusty Harold,2004 Critical rules of thumb employed by the experts the things they almost always do or almost always avoid doing to get the most out of XML Drawing on years of experience Harold explains 50 ways to use

XML to produce code that is extensible legible and maintainable The latest addition to Scott Meyers Effective Software Development Series   *Hybrid Artificial Intelligent Systems* Francisco Martínez-Álvarez,Alicia Troncoso,Héctor Quintián,Emilio Corchado,2016-04-14 This volume constitutes the refereed proceedings of the 11th International Conference on Hybrid Artificial Intelligent Systems HAIS 2016 held in Seville Spain in April 2016 The 63 full papers published in this volume were carefully reviewed and selected from 150 submissions They are organized in topical sections on data mining and knowledge discovery time series bio inspired models and evolutionary computation learning algorithms video and image classification and cluster analysis applications bioinformatics and hybrid intelligent systems for data mining and applications

Handbook of Graph Drawing and Visualization Roberto Tamassia,2013-08-19 Get an In Depth Understanding of Graph Drawing Techniques Algorithms Software and ApplicationsThe Handbook of Graph Drawing and Visualization provides a broad up to date survey of the field of graph drawing It covers topological and geometric foundations algorithms software systems and visualization applications in business education scie   **Dr. Dobb's Journal** ,2002   Graph Drawing Janos Pach,2005-02-10 This book constitutes the thoroughly refereed post proceedings of the 12th International Symposium on Graph Drawing GD 2004 held in New York NY USA in September October 2004 The 39 revised full papers and 12 revised short papers presented together with 4 posters and a report on the graph drawing context were carefully selected during two rounds of reviewing and improvement All current aspects in graph drawing are addressed ranging from foundational and methodological issues to applications for various classes of graphs in a variety of fields   **Dr. Dobb's Journal of Software Tools for the Professional Programmer** ,2001   *Library Journal* ,2001   Java and XML Brett McLaughlin,Justin Edelson,2007-06-26 A guide for Java programmers explains how to use XML to build Web based enterprise applications incorporating platform independence extensibility reusability global language support and universal standards   **Core JSTL** David M. Geary,2003 InCore JSTL leading Java platform expert David Geary presents the definitive guide to JSTL Through practical examples and extensive sample code Geary demonstrates how JSTL simplifies streamlines and standardizes a wide range of common Web development tasks Coverage includes using JSTL tags for accessing JavaBeans components and collections iteration importing URLs database access working with XML internationalization and localization using the brand new JSTL expression language and extending JSTL with custom tags   *Programming Web Services with SOAP* James Snell,Doug Tidwell,Pavel Kulchenko,2007-09-05 The web services architecture provides a new way to think about and implement application to application integration and interoperability that makes the development platform irrelevant Two applications regardless of operating system programming language or any other technical implementation detail communicate using XML messages over open Internet protocols such as HTTP or SMTP The Simple Open Access Protocol SOAP is a specification that details how to encode that information and has become the messaging protocol of choice for Web services Programming Web Services with SOAP is a detailed guide to using SOAP and other leading web

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Table of Contents Xml In A Nutshell

Xml In A Nutshell Introduction

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