

Valid Xml Document Example

WorkshopTheme The ease and speed with which business transactions can be carried out over the Web has been a key driving force in the rapid growth of electronic commerce. In addition, customer interactions, including personalized content, e-mail campaigns, and online feedback provide new channels of communication that were not previously available or were very inefficient. The Web presents a key driving force in the rapid growth of electronic commerce and a new channel for content providers. Knowledge about the customer is fundamental for the establishment of viable e-commerce solutions. Rich web logs provide companies with data about their customers and prospective customers, allowing micro-segmentation and personalized interactions. Customer acquisition costs in the hundreds of dollars per customer are common, justifying heavy emphasis on correct targeting. Once customers are acquired, customer retention becomes the target. Retention through customer satisfaction and loyalty can be greatly improved by acquiring and exploiting knowledge about these customers and their needs.

Although weblogs are the source for valuable knowledge patterns, one should keep in mind that the Web is only one of the interaction channels between a company and its customers. Data obtained from conventional channels provide invaluable knowledge on existing market segments, while mobile communication adds further customer groups. In response, companies are beginning to integrate multiple sources of data including web, wireless, call centers, and brick-a-mortar store data into a single data warehouse that provides a multifaceted view of their customers, their preferences, interests, and expectations.

The ever expanding abundance of information and computing power enables researchers and users to tackle highly interesting issues, such as applications providing personalized access and interactivity to multimodal information based on user preferences and semantic concepts or human-machine interface systems utilizing information on the affective state of the user. The general focus of the AIAI conference is to provide insights on how AI can be implemented in real world applications. This volume contains papers selected for presentation at the 5th IFIP Conference on Artificial Intelligence Applications & Innovations (AIAI 2009) being held from 23rd till 25th of April, in Thessaloniki, Greece. The IFIP AIAI 2009 conference is co-organized by the Aristotle University of Thessaloniki, by the University of Macedonia Thessaloniki and by the Democritus University of Thrace. AIAI 2009 is the official conference of the WG12.5 "Artificial Intelligence Applications" working group of IFIP TC12 the International Federation for Information Processing Technical Committee on Artificial Intelligence (AI). It is a conference growing and maintaining high standards of quality. The purpose of the 5th IFIP AIAI Conference is to bring together researchers, engineers and practitioners interested in the technical advances and business / industrial applications of intelligent systems. AIAI 2009 is not only focused in providing insights on how AI can be implemented in real world applications, but it also covers innovative methods, tools and ideas of AI on architectural and algorithmic level.

This is a practical guide that distills years of ingenious XML hacking into a complete set of tips, tricks and tools for those who want to leverage the untapped power of XML. It includes many real-world projects that illustrate how to define, create, read and manipulate XML documents. This book introduces the reader to the fundamentals of contemporary, emerging and future technologies and services in Internet computing. It covers essential concepts such as distributed systems architectures and web technologies, contemporary paradigms such as cloud computing and the Internet of things, and emerging technologies like distributed ledger technologies and fog computing. The book also highlights the interconnection and recombination of these Internet-based technologies, which together form a critical information infrastructure with major impacts on individuals, organizations, governments, economies, and society as a whole. Intended as a textbook for upper undergraduate and graduate classes, it features a wealth of examples, learning goals and summaries for every chapter, numerous recommendations for further reading, and questions for checking students' comprehension. A dedicated author website offers additional teaching material and more elaborate examples. Accordingly, the book enables students and young professionals in IT-related fields to familiarize themselves with the Internet's basic mechanisms, and with the most promising Internet-based technologies of our time.

The idea of editing a book on modern software architectures and tools for CAPE (Computer Aided Process Engineering) came about when the editors of this volume realized that existing titles relating to CAPE did not include references to the design and development of CAPE software. Scientific software is needed to solve CAPE related problems by industry/academia for research and development, for education and training and much more. There are increasing demands for CAPE software to be versatile, flexible, efficient, and reliable. This means that the role of software architecture is also gaining increasing importance. Software architecture needs to reconcile the objectives of the software; the framework defined by the CAPE methods; the computational algorithms; and the user needs and tools (other software) that help to develop the CAPE software. The object of this book is to bring to the reader, the software side of the story with respect to computer aided process engineering.

Responding to the demand by researchers and practitioners for a comprehensive reference, Handbook of Industrial and Systems Engineering offers full and easy access to a wide range of industrial and systems engineering tools and techniques in a concise format.

Providing state of the art coverage from more than 40 contributing authors, many of whom are XML is the logical choice for a powerful data medium transferable across applications and platforms. This book takes a streamlined approach, giving the reader all they need to hit the ground running, without making them trawl through hundreds of pages of syntax. The book is also thoroughly up-to-date, covering the newest XML standards (DOM 3.0, XSLT 2.0, XPath 2.0) and Java tools (including JAXB, Xerces2-j, JAXP, XML Beans, and many more,) and the relevant new features of Java 5 and 6. In short, the book gives readers all they need to master cutting edge XML development with Java.

Special Edition Using XML, Second Edition gives developers a formal introduction to XML technology, starting with in-depth coverage of basic syntax and fundamental pieces of XML, including DTDs, Schemas, and Namespaces. The authors then cover various applications of XML, including transforming and displaying XML documents using CSS and XSL, locating data within XML documents using Xpath, Xlink and Xpointer, programming XML with SAX or DOM, including XML in Java or .NET applications, XML Scripting with Perl, XHTML and WML for presentation on traditional and hand-held Web browsers, and querying data or documents with Xquery. The final chapters cover technologies related to XML such as SVG, SMIL, and RDF, focusing on the practical features developers can put to use today.

Diploma Thesis from the year 2001 in the subject Electrotechnology, grade: 1,7, University of Ulm, 34 entries in the bibliography, language: English, abstract: In today's world, there are mainly two types of communication networks: circuit-switched networks and packet-switched networks. The current telephone networks are mostly based on the circuit-switched networks, whereas the Internet is mainly based on the packet-switched networks, which are also called IP networks. However, there is a strong tendency to combine both of these networks, which points to the direction that the IP networks are going to replace services provided by current telephone networks. This would eventually mean that IP networks might replace the telephone networks, in the future. Following are some reasons why IP networks seem to replace the circuit-switched networks: - First of all, the IP networks provide cheaper communication. Considering that the Internet access is nearly free, the cost advantage of IP networks gets clearer [25]. - Secondly, IP networks provide the ability of integrating the data and voice applications, and even some other applications, like video-conferencing, integrated voice mail, e-mail, and the like [26]. - Another important reason is that IP networks allow open implementation

of end systems. With a reasonable programming knowledge everybody could implement an end system for IP networks. In the classical telephony end users cannot implement any end system, but have to use whatever provided by the service providers. [27]

The foundation for most Web services, XML can also be used with ASP.NET to display data from an infinite variety of sources in a Web site After covering the basics, the book explores the many ways that XML documents can be created, transformed, and transmitted to other systems using ASP.NET 2.0 Two major case studies address issues such as reading and writing XML data, XML data validation, transforming XML Data with XSLT, SQL Server XML integration, XML support in ADO.NET, and XML Web Services

Written for professional software developers this book maps out the client-side issues that every Web application programmer needs to know. It provides comprehensive coverage on all aspects of client-side Web development, from the basics of HTML to client-side scripting to XML, XSL, and SOAP. In doing so, Kurata provides an essential balance to the server-side techniques, such as database access and server component development. These client-side techniques enable Web application developers to offload work to the client computer, improving scalability by reducing server requests, while simultaneously offering a richer user experience. To that end, this book is indispensable reading for any software developer interested in up-to-date coverage of the essentials of web development.

DocBook is a system for writing structured documents using SGML and XML. DocBook provides all the elements you'll need for technical documents of all kinds. A number of computer companies use DocBook for their documentation, as do several Open Source documentation groups, including the Linux Documentation Project (LDP). With the consistent use of DocBook, these groups can readily share and exchange information. With an XML-enabled browser, DocBook documents are as accessible on the Web as in print. DocBook : The Definitive Guide is the complete and official documentation of the DocBook Document Type Definition (DTD) and many of its associated tools. In this book, you'll find : A brief introduction to SGML and XML ; a guide to creating documents with the DocBook DTD and associated stylesheets. Information about using SGML and XML tools like jade and DSSSL ; a guide to customizing DocBook ; a complete SGML and XML reference, including examples, for every DocBook element. In addition, the CD-ROM contains the complete source text of this book, in both SGML and HTML ; all the examples from the book ; DSSSL stylesheets that let you convert DocBook documents to RTF, LaTeX, or HTML ; The DocBook DTD for SGML, version 3*1 ; The DocBk DTD for XML, version 3*1*5. In an era of collaborative creation of technology, when information is needed online as often as in print, DocBook is the essential. documentation environment. "DocBook : The Definitive Guide" is the one essential source of information about that environment.

Learning XMLCreating Self-Describing Data"O'Reilly Media, Inc."

This book is intended for anyone starting out with PHP programming. If you've previously worked in another programming language such as Java, C#, or Perl, you'll probably pick up the concepts in the earlier chapters quickly; however, the book assumes no prior experience of programming or of building Web applications. That said, because PHP is primarily a Web technology, it will help if you have at least some knowledge of other Web technologies, particularly HTML and CSS. Many Web applications make use of a database to store data, and this book contains three chapters on working with MySQL databases. Once again, if you're already familiar with databases in general — and MySQL in particular — you'll be able to fly through these chapters. However, even if you've never touched a database before in your life, you should still be able to pick up a working knowledge by reading through these chapters. Designed for the way many developers work, this practical problem-solving guide balances the need for rapid development with a trusted source of information.

The widespread use of XML in business and scientific databases has prompted the development of methodologies, techniques, and systems for effectively managing and analyzing XML data. This has increasingly attracted the attention of different research communities, including database, information retrieval, pattern recognition, and machine learning, from which several proposals have been offered to address problems in XML data management and knowledge discovery. XML Data Mining: Models, Methods, and Applications aims to collect knowledge from experts of database, information retrieval, machine learning, and knowledge management communities in developing models, methods, and systems for XML data mining. This book addresses key issues and challenges in XML data mining, offering insights into the various existing solutions and best practices for modeling, processing, analyzing XML data, and for evaluating performance of XML data mining algorithms and systems.

Bestselling XML author Steven Holzner provides a hands-on beginning tutorial covering the newest innovations in XML, including Ajax, XHTML, XPath 2.0, XSLT 2.0, and the new XQuery specification. You will get all the information you need to get started using XML. XML: A Beginner's Guide covers important tasks that beginning web developers and programmers need to know, including: how to create XML documents; what well-formed and valid XML documents are; how to validate XML documents against document type definitions (DTDs); XML schema; and more. The newly redesigned Beginner's Guide series has been simplified and streamlined to make it easier than ever to learn the essential skills.

This book is a collection of Apache Ant recipes that I have gathered up whilst doing Web development. The book is not intended to be an introduction to using Apache Ant, nor does it pretend to be a complete treatment on using Ant with the various technologies that I have presented. You will still need to refer to Ant's rather good manual or any of the other proper Ant books to learn 'how to use ant'.

This book constitutes revised selected papers from the 21st International Conference on Applications of Declarative Programming and Knowledge Management, INAP 2017, the 31st Workshop on Logic Programming, WLP 2017, and the 25th Workshop on Functional and (Constraint) Logic Programming, WFLP 2017. The 12 full papers presented in this

volume were carefully reviewed and selected from 26 submissions. The contributions were organized in topical sections named: constraints; declarative systems; and functional and logic programming.

XML in a Nutshell thoroughly explains the basic rules that all XML 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.

We welcomed participants to the 1st EurAsian Conference on Advances in Information and Communication Technology (EurAsia ICT 2002) held in Iran. The aim of the conference was to serve as a forum to bring together researchers from academia and commercial developers from industry to discuss the current state of the art in ICT, mainly in Europe and Asia. Inspirations and new ideas were expected to emerge from intensive discussions during formal sessions and social events. Keynote addresses, research presentation, and discussion during the conference helped to further develop the exchange of ideas among the researchers, developers, and practitioners who attended. The conference attracted more than 300 submissions and each paper was reviewed by at least three program committee members. The program committee selected 119 papers from authors of 30 different countries for presentation and publication, a task which was not easy due to the high quality of the submitted papers. Eleven workshops were organized in parallel with the EurAsia ICT conference. The proceedings of these workshops, with more than 100 papers, were published by the Austrian Computer Society. We would like to express our thanks to our colleagues who helped with putting together the technical program: the program committee members and external reviewers for their timely and rigorous reviews of the papers, and the organizing committee for their help in administrative work and support. We owe special thanks to Thomas Schierer for always being available when his helping hand was needed.

The practicing programmer's DEITEL® guide to C# and the powerful Microsoft .NET Framework Written for programmers with a background in C++, Java, or other high-level languages, this book applies the Deitel signature live-code approach to teaching programming and explores Microsoft's C# language and the new .NET 2.0 in depth. The book is updated for Visual Studio® 2005 and C# 2.0, and presents C# concepts in the context of fully tested programs, complete with syntax shading, detailed line-by-line code descriptions, and program outputs. The book features 200+ C# applications with 16,000+ lines of proven C# code, as well as 300+ programming tips that will help you build robust applications. Start with a concise introduction to C# fundamentals using an early classes and objects approach, then rapidly move on to more advanced topics, including multithreading, XML, ADO.NET 2.0, ASP.NET 2.0, Web services, network programming, and .NET remoting. Along the way you will enjoy the Deitels' classic treatment of object-oriented programming and a new, OOD/UML™ ATM case study, including a complete C# implementation. When you are finished, you will have everything you need to build next-generation Windows applications, Web applications, and Web services. Dr. Harvey M. Deitel and Paul J. Deitel are the founders of Deitel & Associates, Inc., the internationally recognized programming languages content-creation and corporate-training organization. Together with their colleagues at Deitel & Associates, Inc., they have written many international best-selling programming languages textbooks that millions of people worldwide have used to master C, C++, Java™, C#, XML, Visual Basic®, Perl, Python, and Internet and Web programming. The DEITEL® Developer Series is designed for practicing programmers. The series presents focused treatments of emerging technologies, including .NET, J2EE, Web services, and more. Practical, Example-Rich Coverage Of: C# 2.0, .NET 2.0, FCL ASP.NET 2.0, Web Forms and Controls Database, SQL, and ADO.NET 2.0 Networking and .NET Remoting XML, Web Services Generics, Collections GUI/Windows® Forms OOP: Classes, Inheritance, and Polymorphism OOD/UML™ ATM Case Study Graphics and Multimedia Multithreading Exception Handling And more... VISIT WWW.DEITEL.COM Download code examples To receive updates on this book, subscribe to the free DEITEL® BUZZ ONLINE e-mail newsletter at www.deitel.com/newsletter/subscribe.html Read archived Issues of the DEITEL® BUZZ ONLINE Get corporate training information

This book constitutes the refereed proceedings of the 7th International Conference on the Unified Modeling Language, UML 2004, held in Lisbon, Portugal, in October 2004. The 30 revised full papers presented together with summaries on the workshops and tutorials were carefully reviewed and selected from 135 technical paper submissions. The papers are organized in topical sections on metamodeling, aspects, profiles and extensions, OCL, model transformation, verification and model consistency, security, and methodology.

This second edition of the bestselling Learning XML provides web developers with a concise but grounded understanding of XML (the Extensible Markup Language) and its potential-- not just a whirlwind tour of XML. The author explains the important and relevant XML technologies and their capabilities clearly and succinctly with plenty of real-life projects and useful examples. He outlines the elements of markup--demystifying concepts such as attributes, entities, and namespaces--and provides enough depth and examples to get started. Learning XML is a reliable source for anyone who needs to know XML, but doesn't want to waste time wading through hundreds of web sites or 800 pages of bloated text. For writers producing XML documents, this book clarifies files and the process of creating them with the appropriate structure and format. Designers will learn what parts of XML are most helpful to their team and will get started on creating Document Type Definitions. For programmers, the book makes syntax and structures clear. Learning XML also discusses the stylesheets needed for viewing documents in the next generation of browsers, databases, and other devices. Learning XML illustrates the core XML concepts and language syntax, in addition to important related tools such as the CSS and XSL styling languages and the XLink and XPointer specifications for creating rich link structures. It includes information about three schema languages for validation: W3C Schema, Schematron, and RELAX-NG, which are gaining widespread support from people who need to validate documents but aren't satisfied with DTDs. Also new in this edition is a chapter on XSL-FO, a powerful formatting language for XML. If you need to wade through the acronym soup of XML and start to really use this powerful tool, Learning XML, will give you the roadmap you need.

This authoritative and comprehensive workbook covers XML encryption, confidentiality, authentication, digital signatures, message authentication, and cryptographic algorithms. This book will show developers all they need to know about how to use XML Digital Signatures to protect the integrity and authenticity of data, and how to use XML Encryption to control its confidentiality.

In this book, you will find discussions on the newest native XML databases, along with information on working with XML-enabled relational database systems. In addition, XML Data Management thoroughly examines benchmarks and analysis techniques for performance of XML databases. This book is best used by students that are knowledgeable in database technology and are familiar with XML.

Most people who write software have at least some experience with unit testing—even if they don't call it that. If you have ever written a few lines of throwaway code just to try something out, you've built a unit test. On the other end of the software spectrum, many large-scale applications have huge batteries of test cases that are repeatedly run and added to throughout the development process. What are unit test frameworks and how are they used? Simply stated, they are software tools to support writing and running unit tests, including a foundation on which to build tests and the functionality to execute the tests and report their results. They are not solely tools for testing; they can also be used as development tools on a par with preprocessors and debuggers. Unit test frameworks can contribute to almost every stage of software development and are key tools for doing Agile Development and building big-free code. Unit Test Frameworks covers the usage, philosophy, and architecture of unit test frameworks. Tutorials and example code are platform-independent and compatible with Windows, Mac OS X, Unix, and Linux. The companion CD includes complete versions of JUnit, CppUnit, NUnit, and XMLUnit, as well as the complete set of code examples.

The only way to stop a hacker is to think like one! The World Wide Web Consortium's Extensible Markup Language (XML) is quickly becoming the new standard for data formatting and Internet development. XML is expected to be as important to the future of the Web as HTML has been to the foundation of the Web, and has proven itself to be the most common tool for all data manipulation and data transmission. Hack Proofing XML provides readers with hands-on instruction for how to secure the Web transmission and access of their XML data. This book will also introduce database administrators, web developers and web masters to ways they can use XML to secure other applications and processes. The first book to incorporate standards from both the Security Services Markup Language (S2ML) and the Organization for the Advancement of Structured Information Standards (OASIS) in one comprehensive book Covers the four primary security objectives: Confidentiality, Integrity, Authentication and Non-repudiation Not only shows readers how to secure their XML data, but describes how to provide enhanced security for a broader range of applications and processes

bull; Contains the most depth and breadth of coverage of any book on SQL Server architecture, internals, and tuning bull; Will be a key reference for anyone working with SQL Server, no matter what their skill level bull; The latest book in the bestselling series of Guru's Guides from Ken Henderson

Offers test-taking strategies and tips, practice questions, and a cram sheet.

CD-ROM contains: Ready-to-run sample programs along with trial versions of WebSphere and DB2.

Data mining continues to be an emerging interdisciplinary field that offers the ability to extract information from an existing data set and translate that knowledge for end-users into an understandable way. Data Mining: Concepts, Methodologies, Tools, and Applications is a comprehensive collection of research on the latest advancements and developments of data mining and how it fits into the current technological world.

Engineered to be the answer for learning XML, expert author Holzner offers hundreds of real-world examples demonstrating the uses of XML and the newest tools developers need to make the most of it.

Annotation This book is designed to teach the FileMaker Pro developer about XML and XSL.

The way electronic instruments are built is changing in a deeply fundamental way. It is making an evolutionary leap to a new method of design that is being called synthetic instruments. This new method promises to be the most significant advance in electronic test and instrumentation since the introduction of automated test equipment (ATE). The switch to synthetic instruments is beginning now, and it will profoundly affect all test and measurement equipment that will be developed in the future. Synthetic instruments are like ordinary instruments in that they are specific to a particular measurement or test. They might be a voltmeter that measures voltage, or a spectrum analyzer that measures spectra. The key, defining difference is this: synthetic instruments are implemented purely in software that runs on general purpose, non-specific measurement hardware with a high speed A/D and D/A at its core. In a synthetic instrument, the software is specific; the hardware is generic. Therefore, the "personality" of a synthetic instrument can be changed in an instant. A voltmeter may be a spectrum analyzer a few seconds later, and then become a power meter, or network analyzer, or oscilloscope. Totally different instruments are implemented on the same hardware and can be switched back and forth in the blink of an eye. This book explains the basics of synthetic instrumentation for the many people that will need to quickly learn about this revolutionary way to design test equipment. This book attempts to demystify the topic, cutting through, commercial hype, and obscure, vague jargon, to get to the heart of the technique. It reveals the important basic underlying concepts, showing people how the synthetic instrument design approach, properly executed, is so effective in creating nstrumentation that out performs traditional approaches to T&M and ATE being used today. provides an overview and complete introduction to this revolutionary new technology enables equipment designers and manufacturers to produce vastly more functional and flexible instrumentation; it's not your father's multimeter!

This certification exam measures the ability to develop and implement XML Web Services and server components using Visual C# and the Microsoft .NET Framework. This exam, released in September 2002, counts as a core credit toward the new MCAD (Microsoft Certified Application Developer) certification as well as a core credit toward the new MCSA .NET track. Readers preparing for this exam find our Training Guide series to be the most successful self-study tool in the market. This book is their one-stop shop because of its teaching methodology, the accompanying PrepLogic testing software, and superior Web site support at quepublishing.com.

Some of the most challenging problems in science and engineering are being addressed by the integration of computation and science, a research field known as computational science. Computational science plays a vital role in fundamental advances in biology, physics, chemistry, astronomy, and a host of other disciplines. This is through the coordination of computation, data management, access to instrumentation, knowledge synthesis, and the use of new devices. It has an impact on researchers and practitioners in the sciences and beyond. The sheer size of many challenges in computational science dictates the use of supercomputing, parallel and distributed processing, grid-based processing, advanced visualization and sophisticated algorithms. At the dawn of the 21st century the series of International Conferences on Computational Science (ICCS) was initiated with a first meeting in May 2001 in San Francisco. The success of that meeting motivated the organization of the second meeting held in Amsterdam April 21–24, 2002, where over 500 participants pushed the research field further. The International Conference on Computational Science 2003 (ICCS 2003) is the follow-up to these earlier conferences. ICCS 2003 is unique, in that it was a single

event held at two different sites almost opposite each other on the globe – Melbourne, Australia and St. Petersburg, Russian Federation. The conference ran on the same dates at both locations and all the presented work was published in a single set of proceedings, which you hold in your hands right now.

This product is a complete reference to both classical material and advanced topics that are otherwise scattered in sometimes hard-to-find papers. A major effort in writing the book was made to highlight the intuitions behind the theoretical development. The new Oracle Application Server offers a wide range of functionality, including Java runtime and development tools, portal development tools, business intelligence, single sign-on identify management, and much more. It's so powerful and complex, in fact, that many people who use the product (or are considering using it) are familiar with only a portion of the entire range of its capabilities. The choices can be overwhelming. Few people grasp how the larger issues--such as the interplay between components or the various architectural choices in the product--play out in the Oracle Application Server. This new guide provides the perfect introduction to the Oracle Application Server for users of any level. Regardless of which of the server's capabilities you use, you'll benefit from this tightly focused, all-in-one technical overview. It's written for anyone who is concerned with using and managing web servers, doing Java development and deployment, using Oracle's own tools--like Forms and Reports, using or developing for Oracle Portal, or those who use and administer business intelligence, mobile or integration software. Divided into three concise sections, the book covers server basics, core components, and server functionality. The book leads with the history of Oracle Application Server, its architecture, management, standards, and third-party support for languages and tools such as Java, Perl, and HTTP. The next section covers Oracle's web server, containers for Java web caching, and the server's security features. And finally, the book discusses HTML development, Java development, and Oracle development. Although the book refers mainly to Oracle Application Server 10g, the authors also describe features in earlier product releases where necessary, particularly Oracle9i Application Server. More comprehensible than a large reference and more detailed than a primer, the book provides a foundation for understanding and using Oracle Application Server effectively and efficiently. Readers concentrate on the most important issues and components of the server, focusing primarily on principles rather than syntax. Designed to be the ideal first OracleAS book, Oracle Application Server 10g Essentials offers Oracle application developers and administrators everything they need to know about this powerful server.

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