

Xslt

After years of anticipation and delay, the W3C finally released the XSLT 2.0 standard in January 2007. The revised edition of this classic book offers practical, real-world examples that demonstrate how you can apply XSLT stylesheets to XML data using either the new specification, or the older XSLT 1.0 standard. XSLT is a critical language for converting XML documents into other formats, such as HTML code or a PDF file. With XSLT, you get a thorough understanding of XSLT and XPath and their relationship to other web standards, along with recommendations for a honed toolkit in an open platform-neutral, standards-based environment. This book: Covers the XSLT basics, including simple stylesheets and methods for setting up transformation engines Walks you through the many parts of XSLT, particularly XSLT's template-based approach to transformations Applies both XSLT 1.0 and 2.0 solutions to the same problems, helping you decide which version of XSLT is more appropriate for your project Includes profuse examples that complement both the tutorial and the reference material The new edition of XSLT has been updated thoroughly to explain XSLT 2.0's many dependencies, notably XML Schema and XPath 2.0. Want to find out how the 2.0 specification improves on the old? This book will explain.

XSLT is a powerful language for transforming XML documents into something else. That something else can be an HTML document, another XML document, a Portable Document Format (PDF) file, a Scalable Vector Graphics (SVG) file, a Virtual Reality Modeling Language (VRML) file, Java code, or a number of other things. You write an XSLT stylesheet to define the rules for transforming an XML document, and the XSLT processor does the work. As useful as XSLT is, its peculiar characteristics make it a difficult language in which to get started. In fact, newcomers are often a little dazed on first contact. Learning XSLT offers a hands-on introduction to help them get up to speed with XSLT quickly. The book will help web developers and designers understand this powerful but often mystifying template-driven and functional-styled language, getting them over the many differences between XSLT and the more conventional programming languages. Learning XSLT moves smoothly from the simple to complex, illustrating all aspects of XSLT 1.0 through step-by-step examples that you'll practice as you work through the book. Thorough in its coverage of the language, the book makes few assumptions about what you may already know. You'll learn about XSLT's template-based syntax, how XSLT templates work with each other, and gain an understanding of XSLT variables. Learning XSLT also explains how the XML Path Language (XPath) is used by XSLT and provides a glimpse of what the future holds for XSLT 2.0 and XPath 2.0. The ability to transform one XML vocabulary to another is fundamental to exploiting the power of XML. Learning XSLT is a carefully paced, example-rich introduction to XSLT that will have you understanding and using XSLT on your own in no time.

The definitive guide to XSLT and XPath written by one of the world's leading authorities. Complete coverage of every facet of the XSLT/XPath W3C specifications, including brand-new standards such as XSL, XML Query, and XPointer.

Your Personal Trainer for XSL! To learn how to use XSL, you need practical hands-on advice from an expert who understands what it is like to just start out. By working step by step through document structures, template rules, stylesheet transformations, and formatting objects, you can master XSL fundamentals while learning how to transform structured data into any output format needed from HTML to XHTML to program source code. This book is designed for anyone who wants to learn XSL, including those who create or support XML applications and XML-based solutions. Inside, you'll find comprehensive overviews, step-by-step procedures, frequently used tasks, documented examples, and much more. One of the goals is to keep the content so concise that the book remains compact and easy to navigate while at the same time ensuring that the book is packed with as much information as possible--making it a valuable resource. Learning XSL doesn't have to be a frustrating experience, you can use XSL: The Personal Trainer for XSLT, XPath and XSL-FO to learn everything you need to use XSL and related technologies effectively. Look also for XML, DTDs, Schemas: The Personal Trainer.

XSLT is a powerful language for transforming XML documents into something else. That something else can be an HTML document, another XML document, a Portable Document Format (PDF) file, a Scalable Vector Graphics (SVG) file, a Virtual Reality Modeling Language (VRML) file, Java code, or a number of other things. You write an XSLT stylesheet to define the rules for transforming an XML document, and the XSLT processor does the work. As useful as XSLT is, its peculiar characteristics make it a difficult language in which to get started. In fact, newcomers are often a little dazed on first contact. Learning XSLT offers a hands-on introduction to help them get up to speed with XSLT quickly. The book will help web developers and designers understand this powerful but often mystifying template-driven and functional-styled language, getting them over the many differences between XSLT and the more conventional programming languages. Learning XSLT moves smoothly from the simple to complex, illustrating all aspects of XSLT 1.0 through step-by-step examples that you'll practice as you work through the book. Thorough in its coverage of the language, the book makes few assumptions about what you may already know. You'll learn about XSLT's template-based syntax, how XSLT templates work with each other, and gain an understanding of XSLT variables. Learning XSLT also explains how the XML Path Language (XPath) is used by XSLT and provides a glimpse of what the future holds for XSLT 2.0 and XPath 2.0. The ability to transform one XML vocabulary to another is fundamental to exploiting the power of XML. Learning XSLT is a carefully paced, example-rich introduction to XSLT that will have you understanding and using XSLT on your own in no time.

The book covers XSLT and Xpath (as a part of XSLT), as these topics have everything to do with processing XML. It will also cover XML from an XSLT processing and design point of view. Other XML technologies will not be discussed as superset of XSLT, most notably XSL. XSL Formatting Objects alone is enough material for an entire book. Apart from that, XSLT and Xpath form the processing/programming section of the entire XSL specification. This book presents an overview of XSLT and guides readers through transforming their first XML data. In this book you will also learn: Selecting Data-Stylesheets and Xpath Basics; Inserting text and elements in output; Copying elements from the source and inserting text; Conditional processing basics and expressions; Modularizing stylesheets; Understanding, creating, and using templates; Controlling output, as well as creating more advanced output; Using multi-file stylesheets, variables, and parameters; Working with numbers, strings, multiple XML sources, and namespaces; Selecting data based upon keys; Recursion; Creating computational stylesheets; Working with parses; Designing XML and XSLT applications; Extending XSLT.

The book is the authoritative reference guide to the language. Without using the formal and inaccessible language of the W3C specifications, it tells the reader exactly what every construct in the language does, and how it is intended to be used. It is a reference rather than a tutorial; it is designed for the professional programmer who is using the language every day. It is the book that people quote when they claim that a particular product is giving the wrong answer, and the book that implementers of the language turn to when they want clarification of the specifications. At the same time, the book is readable. Reviews of the previous editions show that readers appreciate the background material on the design thinking behind the language, the essay on functional programming, the occasional dry wit, the gentle criticism of the language specification when appropriate, and the fact that the examples stray into a diverse range of interesting application areas.

What is this book about? XSLT 2.0 Programmer's Reference, 3rd Edition, is the authoritative reference guide to the language. Without using the formal and inaccessible language of the W3C specifications, it tells you exactly what every construct in the language does, and how it is intended to be used. This book is a reference rather than a tutorial; it is designed for the professional programmer who is using the language every day. It is the book that people quote when they claim that a particular product is giving the wrong answer, and the book that implementers of the language turn to when they want clarification of the specifications. At the same time, the book is readable. Reviews of the previous editions of the XSLT Programmer's Reference, which this book grew from, show that readers appreciate the background material on the design thinking behind the language, the essay on functional programming, the occasional dry wit, the gentle criticism of the language specification when appropriate, and the fact that the examples stray into a diverse range of interesting application areas.

This book shows XML programmers how to use XSLT to transform XML documents.

What is this book about? XPath 2.0 Programmer's Reference is the only authoritative reference on XPath, a sub-language within XSLT that determines which part of an XML document the XSLT transforms. Written for professional programmers who use XML every day but find the W3C XPath specifications tough to slog through, this book explains in everyday language what every construct in the language does and how to use it. It also offers background material on the design thinking behind the language, gentle criticism of the language specification when appropriate, and a diverse range of interesting examples in various application areas.

Provides the basic education in the XSLT processing model that developers have requested The growth of XML content management applications is boosting the demand for XSLT and XPath skills. This beginning Wrox book provides a firm foundation in the XSLT processing model, giving developers an important skillset. If, like many developers, you've had trouble grasping the XSLT processing model, you'll appreciate how this book focuses specifically on what you need to know. XSLT examples address the often-requested processing steps for typical XML document and data vocabularies. You will see exactly how XSLT relies on XPath, and how the processing model differs from most programming languages. A case study demonstrates how to build a static Web site using XSLT 2.0 elements and XPath 2.0 functions. Explains XSLT and XPath, covering both version 1.0 and 2.0 Covers using templates, control and branching, variable and parameters, sorting and grouping, and using modular stylesheets Also examines strings, dates, and numbers; working with multiple documents and text; generating identifiers; and testing and documentation All topics contain incremental code examples Addresses the much-requested processing steps for typical XML document and data vocabularies, including how the processing model differs from most programming languages Beginning XSLT and XPath: Transforming XML Documents and Data is the essential guide you need to thoroughly understand the important XSLT processing model. Note: CD-ROM/DVD and other supplementary materials are not included as part of eBook file.

* Updated for XSLT 2.0, the latest revision * A clear, step-by-step introduction to XSLT for practical, everyday tasks * Suitable for complete beginners, even people who have never programmed before * Comprehensive, but focuses on techniques that are used time and time again; Uses a fun but realistic case study throughout * Includes introductions to many of the most popular XML vocabularies Written by one of the leading experts on both XSLT and XML Schema; technical review by Michael Kay, the leading and well-known expert on XSLT.

There's been great anticipation surrounding the release of XSLT 2.0, the new language specification that's critical for converting XML documents into other formats, such as HTML code or a PDF file. The XSLT 2.0 specification is approaching completion at long last, but unfortunately, version 2.0's delays and complexity have forced developers to rely on the XSLT 1.0 standard longer than they anticipated. Both specifications will be in use during what is likely to be a long transition period. The second edition of XSLT incorporates new material for XSLT 2.0 and expounds on the lessons learned over the last six years of XSLT 1.0 use. Whether you're looking for the latest and greatest in XSLT 1.0 techniques, or is moving on to XSLT 2.0, this new edition of XSLT will address your needs. The book includes plenty of practical, real-world examples to show you how to apply XSLT stylesheets to XML data using either version. You'll get a thorough understanding of XSLT and XPath and their relationship to other web standards, along with recommendations for a honed toolkit in an open platform-neutral, standards-based environment. Author Doug Tidwell starts with the basics: simple stylesheets and methods for setting up transformation engines. Then he works through examples that develop your understanding of the many parts of XSLT, particularly XSLT's template-based approach to transformations. This new edition has been updated to explain XSLT 2.0's many dependencies, notably XML Schema and XPath 2.0.

Covering all stages of an XML Web site project, this practical book describes the entire process of planning, implementing, and maintaining the site as an XML-based information system. Ideal for working Web developers new to XML bug eager to learn and leverage its benefits, this title simplifies XML and XSLT and boils them down to just those elements

that are needed.

Combining coverage of both XSLT 2.0 and XPath 2.0, this book is the definitive reference to the final recommendation status versions of both specifications. The authors start by covering the concepts in XSLT and XPath, and then delve into elements, operators, expressions with syntax, usage, and examples. Some of the specific topics covered include XSLT processing model, stylesheet structure, serialization, extensibility, and many others. In addition to online content that includes error codes, the book also has case studies you'll find applicable to your own challenges.

While it has always been possible to create customized Word solutions, Word 2003 offers new functionality that allows documents to be truly interactive. Word 2003 Document Automation with VBA, XML, XSLT, and Smart Documents explains how to use a variety of technologies that change the ways users interact with documents. Learn how to automate documents with a minimum of programming by using Word's native functionality; use Visual Basic for Applications to create document automation solutions; record macros, create automated templates, format and manipulate files using Word, and build documents dynamically; create, edit, and format XML documents; develop smart document solutions to guide users through a variety of repetitive tasks; transform XML using WordprocessingML, XSLT, XPath, smart documents, and web services technologies.

Many texts that teach eXtensible Stylesheet Language Transformations (XSLT) assume that their readers are developers who already have a certain level of technical knowledge. As a result, code examples are presented with minimal explanation and the focus of the material tends to target areas that are most appealing to experienced practitioners. When students read these texts, they may be left on their own to interpret the code and they may be unable to generalize beyond the specific examples due to an incomplete explanation of the material. This text is oriented toward students at the undergraduate and graduate levels who seek an introduction to XSLT that makes limited assumptions about technical background and covers a set of topics that are focused on the needs of students. Written by an author with years of experience teaching XML and XSLT to undergraduate and graduate students, this text presents intuitive examples with in-depth explanations coupled with insights and tips that mitigate typical problems that occur when working with XSLT.

XSLT is an essential tool for converting XML into other kinds of documents: HTML, PDF file, and many others. It's a critical technology for XML-based platforms such as Microsoft .NET, Sun Microsystems' Sun One, as well as for most web browsers and authoring tools. As useful as XSLT is, however, most people have a difficult time getting used to its peculiar characteristics. The ability to use advanced techniques depends on a clear and exact understanding of how XSLT templates work and interact. The XSLT 1.0 Pocket Reference from O'Reilly wants to make sure you achieve that level of understanding. With its concise approach, this handy pocket guide quickly gets you up to speed on XSLT 1.0 so you can covert XML like a seasoned pro. In addition to covering the basics of stylesheet structure, it also explains how to: use template rules create a result tree apply conditional processing transform multiple source documents employ number formatting Thanks to their convenient, quick-reference format, O'Reilly's Pocket References spare you from having to hunt through larger books for answers. They deliver just what you need to get the job done in a timely fashion. And the XSLT 1.0 Pocket Reference is no different--it's the ideal companion to have at your desk when you need an answer fast.

Presents a collection of detailed code recipes that breaks down everyday XSLT problems into manageable chunks. This work enables you learn how to transform XML documents into PDF files, SVG files, and HTML documents.

A guide for Java programmers explains how to use XSLT's ability to provide platform-independent data to build Web-based applications incorporating transformations as well as interactive Web site and wireless services.

Essential Skills--Made Easy! Get started programming in XML right away with help from this hands-on tutorial. XML: A Beginner's Guide explains how to store data in and retrieve data from XML documents, format data with Cascading Style Sheets, display data in Web browsers, and use Java and JavaScript. The book covers the latest innovations in XML, including Ajax, XHTML, XPath 2.0, XSLT 2.0, and the new XQuery specification. Now it's easier than ever to learn how to create your own XML solutions! Designed for Easy Learning: Key Skills & Concepts--Lists of specific skills covered in the chapter Try This--Hands-on exercises that show how to apply your skills Numerous screenshots--Examples that illustrate real-world results Annotated Syntax--Example code with commentary that describes the programming techniques being illustrated

Inside XSLT is designed to be a companion guide to Inside XML. This example oriented book covers XML, HTML, Music, XML with Java, style sheet creation and usage, nodes and attributes, sorting data, creating Xpath expressions, using Xpath and XSLT functions, namespaces, names templates, name variables, designing style sheets and using XSLT processor API's, the 56 XSL formatting objects, the XSLT DTD, and much more. In order to work with XML fully, you need to be up to speed with XSLT since XSLT is the technology that transforms XML to a workable format. Readers are looking for the follow-up book to Inside XML and this is it.

The definitive guide to building and deploying XSLT solutions for enterprise-level applications. Features case studies that document and explain real-world implementation of XSLT.

XSLT"O'Reilly Media, Inc."

* Remains the classic tutorial for both non-programmers and beginning programmers. * Tried and true step by step approach. * Although it assumes nothing, it contains all the material a professional needs to know.

Special Edition Using XSLT starts with an overview explaining how XSLT fits into the bigger picture of the Extensible Stylesheet Language, and the differences between XSLT and XSL-FO. It then demonstrates practical examples of XSL transformations from XML to a variety of other useful formats including HTML, PDF, SVG and others. Later chapters discuss developer techniques for implementing XSLT within dynamic web environments including ASP and JSP. The author also covers debugging techniques and how XSLT relates to .NET. The book finishes with a useful reference section including detailed coverage of XSLT, XPath and XSL-FO.

A tutorial explaining how to use the Extensible Stylesheet Language Transformation to convert elements to attributes and read in multiple documents at once offers a syntax reference and discusses XSLT processors.

XSLT, XLXP, XPath, XForms & XQuery Interview Questions You'll Most Likely Be Asked is a perfect companion to stand ahead above the rest in today's competitive job market. Experienced XML developers who want comprehensive coverage of XSLT will find it here, as will document design professionals who need to convert XML to HTML for Web pages.

Critical for converting XML documents, and extremely versatile, the XSLT language nevertheless has complexities that can be daunting. The XSLT Cookbook is a collection of hundreds of solutions to problems that Extensible Stylesheet Language Transformations (XSLT) developers regularly face. The recipes range from simple string-manipulation and mathematical processing to more complex topics like extending XSLT, testing and debugging XSLT stylesheets, and graphics creation with SVG. Recipes can be run directly or tweaked to fit your particular application's needs more precisely. Each recipe walks through a problem and a solution, with explanations of the choices made and techniques used in creating that solution, and many recipes include alternate solutions and explore issues like convenience and performance. Topics covered include: String manipulation Mathematical processing Date and time handling Interactions between calendar systems Selecting content in source documents Efficient tree-manipulation Conversions from XML to plain text Tweaking XML documents with stylesheets Using XSLT to query XML documents Generating HTML with XSLT Creating charts and graphs with SVG and XSLT Generating C and XSLT code using XSLT Processing Visio documents in XSLT Working with XML Topic Maps (XTM) Using XSLT to create SOAP documentation from WSDL Extending XSLT with additional functions Embedding XSLT in other processing Testing and debugging XSLT stylesheets Creating generic XSLT processors which work on many XML vocabularies The XSLT Cookbook provides an ideal companion both for developers still figuring out XSLT's template-based approach who want to learn by example, and for developers who know XSLT and want a collection of quickly reusable recipes. XSLT frequently offers a number of ways to perform a transformation, and the best solution may not always be the most straightforward. The recipes in this Cookbook demonstrate and explain XSLT's template-based logic, a frequent stumbling block for developers new to XSLT. Among the variety of XSLT books now available, none has the explicit solution-oriented approach of this Cookbook.

Utilizes real-world examples to demonstrate how XSLT (Extensible Stylesheet Language Transformations) stylesheets can be used with XML data and documents to create such applications as sound files, HTML, WML, graphics (SVG), and Braille, and discusses the relationship of XSLT and XPath to other web standards. Original.

(Intermediate/Advanced)

Restructuring information in an XML document so that it works in other formats used to be a time-consuming ordeal involving lots of blood, sweat, and tears. Now XSLT (Extensible Stylesheet Language Transformations) makes the process nearly instantaneous. Just provide an example of the kind of information you'd like to see, and XSLT does the rest. With XSLT you can effortlessly transform XML documents into virtually any kind of output, including other XML documents and HTML pages. But mastering XSLT can be tricky, especially if you've never worked with XML or HTML; and most books on the subject are written for people who have. Here comes XSLT For Dummies to the rescue! XSLT For Dummies is your ticket to quickly mastering XSLT—no matter what your prior programming experience. Writing in easygoing, plain English, XML pro Richard Wagner provides expert advice, step-by-step guidance, and tons of crystal-clear examples to help you harness the power of XSLT to transform documents. In no time you'll: Understand how XSLT works with XSL and XPath Experiment with templates, stylesheets, and expressions Perform HTML transformations Master XPath data types and functions Combine XSLT stylesheets Explore cool XSLT programming tricks XSLT For Dummies works from the ground up, starting with a practical introduction of the "X-Team"—XML, XSL, XSLT, and XPath—and instructions on how to write a XSLT stylesheet. From there it quickly moves onward and upward through the whole range of important XSLT topics, including:

Transforming with stylesheets Understanding and using template rules Using XPath to locate nodes in XML documents Combining XSLT stylesheets and adding processing instructions Debugging XSLT transformations Ten XSLT processors available online It doesn't matter whether you're a babe in the woods who can't tell a "tag" from an element, or you're an old pro at creating XML documents, XSLT For Dummies offers you a fun, easy way to explore and take full advantage of Extensible Stylesheet Language Transformations.

A tutorial and reference to Extensible Stylesheet Language Transformation explains how to transform XML to HTML, work with the W3C standard, and master XPath expressions.

Extensible Stylesheet Language Transformations, along with the XML Path Language, give you the power to transform XML documents into HTML documents, or to other XML documents that you can use in Web-based applications. But how do you implement XSLT in the real world? This book provides the answers. Covering everything from reformatting numbers to creating dynamic XSLT applications, XSLT expert Jeni Tennison delivers a wealth of ready-to-use utility templates and practical XSLT solutions -- everything you need to jump-start XSLT development. With XSLT and XPath on the Edge, Unlimited Edition, you'll: * Take advantage of utility templates for searching and replacing strings, calculating minimums, and more * Build your own recursive templates or use simple XPaths * Discover ready-made solutions for filtering, numbering, grouping, and other transformations * Understand the building blocks of XSLT applications * Separate style from format and break up your stylesheet into functional modules that are easier to maintain and reuse * Build dynamic applications that use client-side processing with MSXML or server-side processing with Cocoon * Fine-tune stylesheets to work more efficiently and deliver exactly the output you're looking for * Harness the power of the XSLT extensions available with MSXML, Saxon, and Xalan With this Unlimited Edition, owners of the book can download all-new content from the Web and access a searchable version of the book online.

What is this book about? This compact, relevant, updated version reflects recent changes in the XSLT specification and developments in XSLT parsers. The material on tools and implementations has been revised; so too have all the examples. It also includes a new chapter on writing extension functions. XML has firmly established itself as the universal standard for managing data for the web and is now being implemented on a wide scale. XSL (eXtensible Stylesheet Language), a vital companion to XML, is used for two main purposes: to format or style XML data so that it can be displayed in a browser and to transform XML data (XSLT). When you transform an XML document, you manipulate the data into a new structure, for example, re-ordering the data. This enables the same data store to be used in an unlimited number of ways. XSLT is a flexible, customizable, and cross-platform language. XSLT is a notoriously difficult language to understand, but this book, while being a complete reference to the recommendation, will also give code examples showing how it all ties together and can be effectively employed in a real-world development scenario. What does this book cover? In this book, you'll find the following topics covered: The rationale behind XSLT: What is it for? The XSLT processing model Design patterns and stylesheet structure A full reference to the XPath and XSLT languages The use of XSLT with worked examples Currently available XSLT processors - updated to reflect recent advances in XSLT parser technology Coverage of proposed specification enhancements Who is this book for? This book is for programmers already using XML to organize their data in applications and for those who want to use the power and compatibility of XSLT to improve the display of their data. The book is in three parts: a detailed introduction to the concepts of the language, a reference section giving comprehensive specifications and working examples of every feature, and an exploitation guide giving advice and case studies for the advanced user.

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