

Beginning XSLT 2.0

From Novice to Professional

JENI TENNISON

Beginning XSLT 2.0: From Novice to Professional

Copyright © 2005 by Jeni Tennison

All rights reserved. No part of this work may be reproduced or transmitted in any form or by any means, electronic or mechanical, including photocopying, recording, or by any information storage or retrieval system, without the prior written permission of the copyright owner and the publisher.

ISBN (pbk): 1-59059-324-3

Printed and bound in the United States of America 9 8 7 6 5 4 3 2 1

Trademarked names may appear in this book. Rather than use a trademark symbol with every occurrence of a trademarked name, we use the names only in an editorial fashion and to the benefit of the trademark owner, with no intention of infringement of the trademark.

Lead Editor: Chris Mills

Technical Reviewer: Norman Walsh

Editorial Board: Steve Anglin, Dan Appleman, Ewan Buckingham, Gary Cornell, Tony Davis, Jason Gilmore, Jonathan Hassell, Chris Mills, Dominic Shakeshaft, Jim Sumser

Assistant Publisher: Grace Wong

Project Manager: Kylie Johnston

Copy Manager: Nicole LeClerc

Copy Editor: Ami Knox

Assistant Production Director: Kari Brooks-Copony

Production Editor: Kelly Winquist

Compositor and Artist: Kinetic Publishing Services, LLC

Proofreader: Elizabeth Berry

Indexer: Kevin Broccoli

Cover Designer: Kurt Krames

Manufacturing Manager: Tom Debolski

Distributed to the book trade in the United States by Springer-Verlag New York, Inc., 233 Spring Street, 6th Floor, New York, NY 10013, and outside the United States by Springer-Verlag GmbH & Co. KG, Tiergartenstr. 17, 69112 Heidelberg, Germany.

In the United States: phone 1-800-SPRINGER, fax 201-348-4505, e-mail orders@springer-ny.com, or visit <http://www.springer-ny.com>. Outside the United States: fax +49 6221 345229, e-mail orders@springer.de, or visit <http://www.springer.de>.

For information on translations, please contact Apress directly at 2560 Ninth Street, Suite 219, Berkeley, CA 94710. Phone 510-549-5930, fax 510-549-5939, e-mail info@apress.com, or visit <http://www.apress.com>.

The information in this book is distributed on an “as is” basis, without warranty. Although every precaution has been taken in the preparation of this work, neither the author(s) nor Apress shall have any liability to any person or entity with respect to any loss or damage caused or alleged to be caused directly or indirectly by the information contained in this work.

The source code for this book is available to readers at <http://www.apress.com> in the Downloads section.

Contents at a Glance

About the Author	xv
About the Technical Reviewer	xvii
Acknowledgments	xix
Introduction	xxi
CHAPTER 1 Introducing XML	1
CHAPTER 2 Creating HTML from XML	47
CHAPTER 3 Templates	85
CHAPTER 4 Conditions	137
CHAPTER 5 Manipulating Atomic Values	181
CHAPTER 6 Variables and Parameters	233
CHAPTER 7 Paths and Sequences	275
CHAPTER 8 Result Trees	343
CHAPTER 9 Sorting and Grouping	399
CHAPTER 10 IDs, Keys, and Numbering	429
CHAPTER 11 Named Templates, Stylesheet Functions, and Recursion	473
CHAPTER 12 Building XSLT Applications	499
CHAPTER 13 Schemas	525
CHAPTER 14 Backwards Compatibility and Extensions	557
CHAPTER 15 Dynamic XSLT	587
CHAPTER 16 Creating SVG	625
CHAPTER 17 Interpreting RSS with XSLT	669
APPENDIX A XPath Quick Reference	697
APPENDIX B XSLT Quick Reference	747
INDEX	773