

Contents

Michael Bierman's Foreword	<i>xi</i>
Don XML's Foreword	<i>xv</i>
About the Author	<i>xvii</i>
About the Technical Reviewer	<i>xviii</i>
Acknowledgments	<i>xix</i>
Introduction	<i>xxi</i>

Chapter 1: Why SVG?1

A Short History of XML and SVG	3
SVG as a Piece of the Puzzle	11
Using SVG and Flash	11
Programming and SVG	16
Installing the Adobe SVG Viewer	17
Summary	19

Chapter 2: Getting Started:

An SVG Tutorial21

Starting with a Stop	21
Summary	49

Chapter 3: You Are Here: Coordinate Systems

and Transformations51

Understanding Coordinate Systems and Transformations	52
Working with Viewports	57
Abstracting with <g> and <use>	64
Understanding Transformations	76
Summary	99

Chapter 4: Shaping the Spiral Path:	
Shapes and Paths	101
Using Shape Primitives	101
Creating Paths, Splines, and Curves	117
Using Shape References	137
Summary	149
Chapter 5: Painting and Drawing	151
Working with Colors and Opacity	151
Great Gradients!	166
Studying Strokes	183
Summary	203
Chapter 6: The Basics of Text	205
Where Is My <text>?	205
Spanning Text	210
Referencing Text	213
Anchoring Text	218
Setting Writing Modes	228
Setting Font Properties	232
Setting Spacing and Kerning Properties	236
Putting Text on a Path	239
Using Text and CSS	243
Summary	258
Chapter 7: Incorporating Texture	259
Getting Image Conscious	259
Using Masking	273
Creating Patterns	286
Creating a Clipping Region	295
Adding Special Effects with Filters	304
Summary	357

Chapter 8: Animating SVG	359
SMIL: You're on SVG Camera	360
Creating Simple Event-Driven Animations	365
Introducing Event Bubbling and Cascading	370
Animating Key Presses	376
Animating Simple Motion	380
Creating Motions on a Path	384
Swapping Graphics	392
Animating Color	400
Animating Transformations	407
Animating Gradients	414
Creating an Animated Stopwatch	420
Summary	429
 Chapter 9: Integrating SVG and HTML	 431
Introducing Anchors and Links	432
Cursors, Foiled Again!	439
Using SVG and the <embed> Tag	442
Working with wmode	446
Understanding SVG Events and JavaScript	450
Interacting with Web Pages	457
Controlling the Title Bar	466
Passing Attributes into SVG from HTML	469
Summary	473
 Chapter 10: SVG Components	 475
Gauging Your Progress	477
Scrolling On Down the Boulevard	492
Loading External Libraries	504
Formatting Blocks of Text	515
Building a Slide Show Application	525
Summary	543

Chapter 11: The Future of SVG545

SVG on the Road: SVG 1.0 Tiny, Basic, and Full547

Imagining the Future556

Looking under the Hood558

Summary566

Index569