

Contents

Acknowledgments	xix
Introduction	1
<hr/>	
Chapter 1: Introducing Cascading Style Sheets	9
Who Creates and Maintains CSS?	10
How the Internet Works	11
Abridged History of the Web	12
How CSS Came to Be	13
Advantages of Using CSS	14
Summary	14
<hr/>	
Chapter 2: Document Standards	17
Choosing Which Markup Language to Use	17
How to Write Markup	18
Which Browser to Use	19
Microsoft Internet Explorer	20
Gecko: Mozilla, Mozilla Firefox, and Netscape	21
Opera	22
KHTML: Safari and Konqueror	22
Introduction to HTML	23
Single Tags and HTML Line Breaks	23
HTML Attributes	25
XML	28
XHTML	31
XHTML Is Case-Sensitive	31
All Attribute Values Must Be Enclosed in Quotes	31
No Attribute Minimization Allowed	32
All Elements Require Both an Opening and Closing Tag	32
Why XHTML Is the Future	33
The Document Type Declaration	36
DOCTYPE Sniffing	37
Common Document Type Declarations	40
HTML 4.01 Transitional	40
HTML 4.01 Frameset	40

Contents

HTML 4.01 Strict	41
XHTML 1.0 Transitional	41
XHTML 1.0 Frameset	41
XHTML 1.0 Strict	41
Summary	42
Exercises	42
Chapter 3: The Basics of CSS Anatomy and Syntax	43
<hr/>	
CSS Rules	43
Introducing Selectors	44
Grouping Selectors and Declarations	44
Including CSS in a Document	49
Including an Embedded Style Sheet	49
Linking to External Style Sheets	50
Importing Style Sheets	50
How to Structure an External CSS Document	51
Inline Styles	52
CSS Comments	54
Summary	54
Exercises	55
Chapter 4: Data Types, Keywords, Color, Length, and the URI	57
<hr/>	
Keywords	57
Strings	59
Length and Measurement Options	63
Inconsistencies with Absolute Measurements	64
Metric Measurements	64
Typographical Measurements	65
Relative Length Measurements	65
Measurements Based on the Height of the Lowercase Letter x	67
Pixel Measurements	67
Percentage Measurements	68
Integers and Real Numbers	68
Colors	69
Color Keywords	70
RGB Colors	70
Hexadecimal Colors	71
Short Hexadecimal and Web-Safe Colors	72
The URI	73
Summary	74
Exercises	75

Chapter 5: CSS Selectors	77
The Universal Selector	77
Contextual/Descendant Selectors	78
Direct Child Selectors	85
Direct Adjacent Sibling Combinator	89
Indirect Adjacent Sibling Combinators	92
Attribute Selectors	93
Selection Based on the Presence of an Attribute	93
Selection Based on the Value of an Attribute	94
Attribute Substring Selectors	95
Selection Based on Attribute Values That Begin with a String	95
Selection Based on Attribute Values That End with a String	95
Selection Based on Attribute Values That Contain a String	96
Class and ID Selectors	100
Summary	105
Exercises	106
Chapter 6: Pseudo-Element and Pseudo-Class Selectors	107
Pseudo-Elements	107
::first-letter and ::first-line	108
::selection	110
::before and ::after	111
Pseudo-Classes	113
Dynamic Pseudo-Classes	113
:link and :visited	113
:hover	114
:active	115
:focus	116
Structural Pseudo-Classes	120
:root	120
:first-child	121
:last-child	121
:empty	122
The Negation Pseudo-Class :not	126
The :target Pseudo-Class	128
Summary	132
Exercises	133

Chapter 7: Inheritance and the Cascade **135**

Inheritance	135
The inherit Keyword	137
The Cascade	137
Calculating the Specificity of a Selector	139
!important Rules	155
Custom Style Sheets	156
Specifying a Custom Style Sheet Using MSIE	156
Specifying a Custom Style Sheet Using Mozilla	156
Customizing Mozilla Using CSS	158
Summary	161
Exercises	162

Chapter 8: Text Manipulation **163**

The JT's Website	164
Developing a Design Strategy	164
Creating the Directory Structure	165
Settling on a Table of Contents	167
The letter-spacing Property	175
The word-spacing Property	179
Indenting Paragraph Text Using text-indent	181
Aligning Text with the text-align Property	185
Justifying Text	186
The text-decoration Property	191
The text-transform Property	196
The white-space Property	199
A Look Ahead to CSS 3	200
Summary	201
Exercises	202

Chapter 9: Font Manipulation **203**

Specifying Fonts with the font-family Property	203
Generic Font Families	206
The font-style Property	211
The font-variant Property	215
The font-weight Property	216
Relative Values	218

The font-size Property	221
Absolute Font Sizes	222
Relative Font Sizes	223
Percentage Font Sizes	225
The font Shorthand Property	230
System Fonts	232
Summary	234
Exercises	235
Chapter 10: Liquid Design and the CSS Box Model	237
Laying the Foundation for Liquid Design	238
<table> versus <div>	239
Avoiding Tag Soup	241
Examining the Advantages of External Style Sheets	242
The media attribute and @media rule	242
The CSS Box Model	245
Borders	248
border-width	248
border-style	250
border-color	255
Border Shorthand Properties	256
border	259
CSS 3 Border Properties	260
Calculating Dimensions	268
width	269
height	270
Auto Values for width and height	272
Percentage Measurements	274
Minimum and Maximum Dimensions	277
The line-height property	282
Padding	288
Margins	290
Aligning Block-Level Elements with margin: auto	291
Overflowing Content	302
overflow: auto	302
overflow: scroll	304
overflow: hidden	305
overflow-x and overflow-y	305
Summary	306
Exercises	307

Contents

Chapter 11: CSS Buoyancy: Collapsing Margins, Floating, and Vertical Alignment **309**

Collapsing Margins	309
The float Property	313
Floating Box Model	315
Floating Inline Elements and the Inline Box Model	318
Applying Multiple Floats	322
Left and Right Floating	323
The clear Property	329
The vertical-align Property	334
Subscript and Superscript Text	334
The top, middle, and bottom Keywords	335
The text-top and text-bottom Keywords	338
Percentage and Length Value	338
Vertically Aligning the Contents of Table Cells	339
Summary	341
Exercise	342

Chapter 12: Styling Lists and the User Interface **343**

The list-style-type Property	343
The list-style-image Property	348
The list-style-position Property	349
The list-style shorthand Property	350
The cursor Property	351
Summary	354
Exercises	354

Chapter 13: Backgrounds: Setting the Scene **357**

The background-color Property	357
The background-image Property	362
The background-repeat Property	365
The background-position Property	369
The background-attachment Property	375
The background shorthand Property	377
Summary	379
Exercise	380

Chapter 14: Positioning	383
The position Property	383
Static Positioning	384
Absolute Positioning	384
Offset Properties	387
Relative Positioning	393
Fixed Positioning	403
Controlling Layering with the z-index Property	405
Summary	411
Exercises	412
Chapter 15: Styling for Handheld Devices and Print	413
Styling Web Documents for Handheld Devices	413
Styling Web Documents for Print	421
Controlling page breaks	421
Summary	427
Exercises	427
Chapter 16: Styling Tables	429
Optional Table Elements	430
Table Captions	432
caption-side	432
Table Columns	433
Grouping Table Data	435
Other Table Styles	444
table-layout	444
border-collapse	451
border-spacing	453
empty-cells	455
Summary	459
Exercise	459

Chapter 17: Styling XML	461
XML Documents	461
Creating an XML Schema	464
The XML Declaration	468
XML Declaration Attributes	469
The XML stylesheet Declaration	470
The display Property	471
Styling Inline Elements with display: inline	472
Styling Block Elements with display: block	473
Styling List Items with display: list-item	473
Generating Numbered Lists	474
Table Display Values	478
Applying display: table	479
Adding a Caption with display: table-caption	479
Applying display: table-column-group and display: table-column	480
Styling Groupings, Table Rows, and Table Cells	480
Other Display Values	488
Summary	489
Exercise	489
Chapter 18: Cross-Browser Compatibility	491
Bugs in Microsoft Internet Explorer	491
IE7	492
What IE7 Is	492
Getting the IE7 Source Code	492
CSS Features Provided by IE7	492
How IE7 Works	493
Installing an HTTP Server	493
Specific IE CSS Rendering Bugs and Work-Arounds	502
The Peek-A-Boo Bug	502
The Guillotine Bug	504
The Three-Pixel Jog	507
The Double-Margin Bug	508
Floating Elements and Percentage Widths	510
Installing Multiple Versions of Internet Explorer	512
The Caveats	512
Additional CSS Resources	517
Summary	518
Exercises	518

Appendix A: Exercise Answers	521
-------------------------------------	------------

Appendix B: CSS Reference	565
----------------------------------	------------

Appendix C: CSS Colors	591
-------------------------------	------------

Appendix D: Browser Rendering Modes	603
--	------------

Index	607
--------------	------------