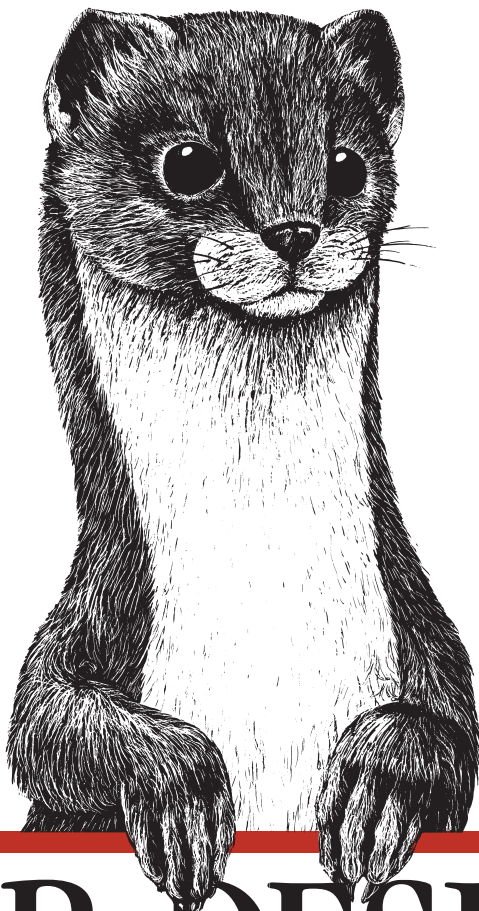


*Completely revised for standards
compliance, including CSS 2.1
and XHTML 1.0*

3rd Edition
Over 200,000 copies in print



WEB DESIGN IN A NUTSHELL

A Desktop Quick Reference

O'REILLY®

Jennifer Niederst Robbins

Table of Contents

Foreword	xv
Contributors	xvii
Technical Reviewers	xix
Preface	xxi

Part I. The Web Environment

1. Web Standards	3
What Are Standards?	3
Current Web Standards	6
Standards-Driven Design	9
For Further Reading	11
2. Designing for a Variety of Browsers	12
Browser History	12
Browser Roll-Call	14
Gathering Usage Statistics	19
Learning from Browser Statistics	20
Dealing with Browser Differences	22
Know Your Audience	25
Test!	25

3. Designing for a Variety of Displays	27
Designing for Unknown Monitor Resolutions	28
Fixed Versus Liquid Web Pages	30
Designing “Above the Fold”	37
Mobile Devices	37
4. A Beginner’s Guide to the Server	42
Servers 101	42
Unix Directory Structures	46
File Naming Conventions	50
Uploading Documents (FTP)	50
File (MIME) Types	53
5. Accessibility	56
Types of Disabilities	56
Overview of Assistive Technology	57
Who Is Responsible for Accessibility?	59
Web Content Accessibility Guidelines	60
Web Content Accessibility Guidelines 2.0 (WCAG 2.0)	64
Standards Variations and Section 508	64
Web Accessibility Techniques	65
Testing for Accessibility	68
6. Internationalization	72
Character Sets and Encoding	73
Character References	78
Language Features	80
Style Sheets Language Features	84
For Further Reading	85

Part II. The Structural Layer: XML and (X)HTML

7. Introduction to XML	89
XML Basics	90
How It Works	91
XML Document Syntax	93
Well-Formed XML	96
Document Type Definition (DTD)	97

XML Namespaces	103
XML on the Web	104
Web-Related XML Applications	105
Where to Learn More	112
8. HTML and XHTML Overview	113
The Role of HTML	114
Markup Basics	115
Introduction to XHTML	119
Which Standard Is Right for You?	122
Well-Formed XHTML	123
Web Authoring Tools	126
Good Authoring Practices	128
9. Document Structure	130
Minimal Document Structure	130
Document Type Declaration	132
The Root Element	135
The Document Header	136
The Document Body	142
10. Text Elements	144
Choosing Text Elements	145
The Building Blocks of Content	146
Inline Elements	149
Deleted and Inserted Text	152
Generic Elements (div and span)	153
Lists	156
Presentational Elements	161
Character Entity References	167
11. Creating Links	169
Simple Hypertext Links	169
Linking Within a Document	171
Targeting Windows	173
Alternative Protocols	173
Linking Documents with link	175
12. Images and Objects	178
Inline Images	178
Image Maps	186

Embedded Media	192
Java Applets	201
Inline (Floating) Frames	203
13. Tables	205
Table Uses	206
Basic Table Structure	207
Row Groups	213
Columns and Column Groups	214
Table Presentation	216
Accessible Tables	220
Responsible Layout Tables	226
14. Frames	232
Introduction to Frames	232
Basic Frameset Structure	234
Frame Function and Appearance	239
Targeting Frames	241
Frame Design Tips and Tricks	244
15. Forms	247
The Basic Form Element	248
Form Controls	250
Accessibility Features	263
disabled and readonly	267
Affecting Form Appearance	267

Part III. The Presentation Layer: Cascading Style Sheets

16. Cascading Style Sheets Fundamentals	273
CSS in a Nutshell	273
The Benefits of CSS	274
How CSS Works	275
Rule Syntax	275
Adding Styles to a Document	278
Key Concepts	283
Specifying Values	291
Browser Support	293
For Further Reading	294

17. Selectors	297
Type (Element) Selector	297
Contextual Selectors	298
Class and ID Selectors	299
Attribute Selectors	301
Pseudoselectors	302
18. Font and Text Properties	307
Typography on the Web	307
Font Family	310
Font Size	312
Other Font Settings	318
Text Transformation (Capitalization)	322
Text Decoration	323
Line Height	325
Text Alignment Properties	327
Text Spacing	332
Text Direction	335
19. Basic Box Properties	337
The Box Model, Revisited	338
Width and Height	341
Margins	344
Borders	347
Padding	352
20. Color and Backgrounds	355
Foreground Color	355
Background Color	357
Background Images	358
21. Floating and Positioning	368
Normal Flow	368
Floating	369
Positioning Basics	375
Absolute Positioning	385
Fixed Positioning	389
Relative Positioning	390

22. CSS for Tables	392
The Essence of Tables	392
Styling Tables	396
Borders	398
Table Layout (Width and Height)	401
Table Display Values	403
23. Lists and Generated Content	406
CSS for Lists	406
Generated Content	412
24. CSS Techniques	419
Centering a Page	419
Two-Column Layouts	421
Three-Column Layouts	424
Boxes with Rounded Corners	432
Image Replacement	436
CSS Rollovers	440
List-Based Navigation Bars	443
CSS Techniques Resources	446
25. Managing Browser Bugs: Workarounds, Hacks, and Filters	448
Working with “Troubled” Browsers	448
The Browsers	449
Hack and Workaround Management 101	459

Part IV. The Behavioral Layer: JavaScript and the DOM

26. Introduction to JavaScript	465
A Little Background	465
Using JavaScript	466
JavaScript Syntax	468
Event Handling	484
The Browser Object	486
Where to Learn More	487
27. DOM Scripting	488
A Sordid Past	488
Out of the Dark Ages	489
The DOM	489

Manipulating Documents with the DOM	491
Working with Style	501
DOM Scripting in Action	502
Supplement: Getting Started with Ajax	507

Part V. Web Graphics

28. Web Graphics Overview	515
Web Graphic File Formats	515
Image Resolution	517
Color on the Web	519
Web Graphics Production Tips	524
29. GIF Format	529
8-Bit Indexed Color	530
LZW Compression	531
Interlacing	533
Transparency	534
Minimizing GIF File Sizes	536
Designing GIFs with the Web Palette	541
30. JPEG Format	544
24-Bit Color	544
JPEG Compression	545
Progressive JPEGs	547
Creating JPEGs	548
Minimizing JPEG File Size	548
31. PNG Format	552
When to Use PNGs	552
PNG Features	554
Platform/Browser Support	558
Creating PNG Files	559
PNG Optimization Strategies	561
For Further Reading	563
32. Animated GIFs	564
How They Work	564
Using Animated GIFs	565

Tools	565
Creating Animated GIFs	566
Optimizing Animated GIFs	570

Part VI. Media

33. Audio on the Web	575
Basic Digital Audio Concepts	575
Using Existing Audio	577
Preparing Your Own Audio	578
Streaming Audio	581
Audio Formats	583
Choosing an Audio Format	590
Adding Audio to a Web Page	590
34. Video on the Web	595
Basic Digital Video Concepts	595
Compression	596
Video File Formats	598
Adding Video to an HTML Document	603
35. The Flash Platform	609
Using Flash on Web Pages	610
Creating Flash Movies	612
ActionScript	615
Adding Flash to a Web Page	616
Integrating Flash with Other Technologies	622
The Flash Player	623
Flash Resources	625
36. Printing from the Web	626
Browser Print Mechanisms	626
Cascading Style Sheets for Print	627
Portable Document Format (PDF)	634
Flash Printing	637

Part VII. Appendixes

A. HTML Elements and Attributes	641
B. CSS 2.1 Properties	684
C. Character Entities	722
D. Specifying Color	733
E. Microformats: Extending (X)HTML	742
Glossary	747
Index	757

