## CONTENTS

How to Use This Book	IV
Frequently Asked Questions	vi
Foreword	xvii
CHAPTER 1	
A Web for Everyone	
Understanding the Accessibility Equation	2
Accessibility	3
Inclusive design	4
Building a Framework for Accessible User Experience	4
Web Content Accessibility Guidelines	6
Principles of Universal Design	7
Design Thinking	8
Using Design Thinking for Accessibility	9
Summary	10
CHAPTER 2	
People First: Designing for Differences	11
Know Your Audience	12
About Personas	14
What's in the Personas?	15
Meet the Personas	15
Summary	34
CHAPTER 3	
Clear Purpose: Well-Defined Goals	35
How Clear Purpose Supports Accessibility	37
How to Design for a Clear Purpose	38
Start with purpose and goals	38
Design for clarity and simplicity	39
Think "accessibility first"	39
Make templates accessible, too	41
Choose an accessibility strategy	43

Who Is Responsible for Clear Purpose	43
Summary	46
Profile: Simple and Usable with Giles Colborne	47
CHAPTER 4	
Solid Structure: Built to Standards	49
How Solid Structure Supports Accessibility	51
How to Create a Solid Structure	53
Code content to be machine-readable	53
Code to standards	53
Use standard web technologies	55
Organize code for clarity and flow	56
Use stylesheets to separate content and	
presentation	58
Use semantic markup for content	58
Who Is Responsible for a Solid Structure?	61
WCAG 2.0 and Solid Structure	61
Summary	62
Profile: Accessibility Standards with Mike Paciello	63
CHAPTER 5	
Easy Interaction: Everything Works	65
How Easy Interaction Supports Accessibility	67
Designing for Easy Interaction	69
Identify and describe interactive elements	69
Use basic HTML codes correctly	69
Use WAI-ARIA for complex elements	70
Use features of the technology platform	71
Provide accessible instructions and feedback	72
Support keyboard interaction	75
Make controls large enough to operate easily	78
Let users control the operation of the interface	80

Design for contingencies	80
Allow users to request more time	82
Who Is Responsible for Easy Interaction?	82
WCAG 2.0 and Easy Interaction	83
Summary	84
Profile: Accessible Interaction with	
Derek Featherstone	85
CHAPTER 6	ANTONIA MORRORA
Helpful Wayfinding: Guides Users	87
How Helpful Wayfinding Supports Accessibility	90
How to Design Helpful Wayfinding	91
Create consistent cues for orientation and	
navigation	91
Present things that are the same in the same way	91
Differentiate things that are different	92
Provide orientation cues	93
Provide clear landmarks within the page	94
Provide alternative ways to navigate	96
Who Is Responsible for Wayfinding?	98
WCAG 2.0 and Helpful Wayfinding	98
Summary	99
Profile: Coding Accessibility with Steve Faulkner	100
CHAPTER 7	107
Clean Presentation: Supports Meaning	103
How Clean Presentation Supports Accessibility	105
How to Design for Clean Presentation	106
Design simply	107
Minimize distracting clutter	107
Design for customization of the display	108
Support customization through the browser	112

Design content for easy comprehension	114
Use color contrast to separate foreground	
from background	115
Use visual and semantic space	117
Provide enough space between lines of text	118
Use clean typography	119
Who Is Responsible for Clean Presentation?	120
WCAG 2.0 and Clean Presentation	120
Summary	122
Profile: Responsive Design with Ethan Marcotte	123
CHAPTER 8	
Plain Language: Creates a Conversation	125
How Plain Language Supports Accessibility	127
How to Design for Plain Language	130
Write for your audience	130
Follow plain language guidelines for	
writing content	130
Support users through their tasks	133
Structure the whole page for scanning	
and understanding	134
Write sentences and paragraphs for	
easy scanning	136
Write helpful links	138
Use language your audience is familiar with	
or provide definitions	140
Provide plain language summaries of	
complex content	140
Don't rely on readability formulas	141
Usability test your content	144
Who Is Responsible for Plain Language	144
WCAG 2.0 and Plain Language	145

Summary	146
Profile: Universal Plain Language with Ginny Redish	147
CHAPTER 9	140
Accessible Media: Supports All Senses	149
How Accessible Media Supports Accessibility	151
How to Design for Accessible Media	152
Don't use only color to communicate meaning	153
Provide instructions without relying on	
visual cues	154
Describe the content or meaning of images	155
Provide captions and descriptions for video	157
Format captions to enhance meaning	161
Provide alternatives to time-based media	163
Use dynamic elements carefully	164
Make presentations accessible	166
Who Is Responsible for Accessible Media?	167
WCAG 2.0 and Accessible Media	167
Summary	169
Profile: Accessible Media with Larry Goldberg	170
CHAPTER 10	
Universal Usability: Creates Delight	173
How Universal Usability Supports Web Accessibility	175
How to Design for Universal Usability	176
Design for exploration and discovery	177
Create a conversation	181
Be informative and helpful	183
Practice usability for accessibility	185
Who Is Responsible for Universal Usability?	187
Summary	187
Profile: Toward Universal Usability with	107
Ben Shneiderman	188

## CHAPTER 11

In Practice: An Integrated Process	191
Making Accessibility the Way You Do Business	193
Making a Commitment to Accessibility	194
Assessing What's Needed for an Integrated Practice	195
Evaluate the current site	196
Identify ways to allocate resources	197
Identify opportunities to integrate accessibility	
into current processes	197
Assess current knowledge and readiness	198
Supporting an Integrated Practice	198
Set policies and develop training	199
Choose content and development tools that	
support accessibility	199
Create a style guide and media library	201
Include people with disabilities	202
Provide tools and assistive technology for	
ongoing evaluation	203
Make accessibility part of site maintenance	205
Summary	205
Profile: Design Education with Valerie Fletcher	206
CHAPTER 12	
The Future: Design for All	209
What a Web for Everyone Looks Like	211
What We Need to Do to Get There	212
Get out in front with web accessibility	212
Build awareness and understanding of	
more diverse people	213
Get support for accessibility into	
mainstream products	214

Make accessibility part of how we think	215
Don't launch until it's accessible	216
Now, to the Future	217
APPENDIX A	010
Accessible UX Principles and Guidelines	219
APPENDIX B	
WCAG 2.0 Cross-Reference	225
People First: Designing for Differences	227
Clear Purpose: Well-Defined Goals	227
Solid Structure: Built to Standards	227
Easy Interaction: Everything Works	229
Helpful Wayfinding: Guides Users	232
Clean Presentation: Supports Meaning	234
Plain Language: Creates a Conversation	236
Accessible Media: Supports All Senses	237
Universal Usability: Creates Delight	241
Summary: WCAG Requirements in Order	242
APPENDIX C	
More Reading	245
Chapter 1: A Web for Everyone	246
Design Principles	246
Books on Web Accessibility	246
Chapter 2: People First	246
User Research and Personas	246
Disability Demographics and User Research	247
About Assistive Technology	247
Personas of People with Disabilities	247
Chapter 3: Clear Purpose	247

Chapter 4: Solid Structure	247
Web and Accessibility Standards	247
Code Validators	248
Chapter 5: Easy Interaction	248
Chapter 6: Helpful Wayfinding	248
Chapter 7: Clean Presentation	248
Chapter 8: Plain Language	249
Plain Language Guidelines	249
Writing for Different Audiences	249
Chapter 9: Accessible Media	249
Writing Alternative Text	249
Captions and Multimedia Accessibility	250
Chapter 10: Universal Usability	250
Usability Testing	250
Chapter 11: Integrated Process	251
Planning and Project Management	251
Accessibility Evaluation	251
Toolbars to Check Accessibility	251
Screen Readers and Screen Magnifiers	
for Windows	252
Tools to Evaluate Flash and Other Rich	
Internet Applications	252
Chapter 12: The Future	252
Index	253
Acknowledgments	266
About the Authors	268