

# Contents at a Glance

---

	Introduction . . . . .	xv
<b>Chapter 1</b>	Webpage Building Blocks . . . . .	1
<b>Chapter 2</b>	Working with Webpage Files . . . . .	27
<b>Chapter 3</b>	Basic HTML Structure . . . . .	43
<b>Chapter 4</b>	Text . . . . .	87
<b>Chapter 5</b>	Images . . . . .	133
<b>Chapter 6</b>	Links . . . . .	157
<b>Chapter 7</b>	CSS Building Blocks . . . . .	169
<b>Chapter 8</b>	Working with Style Sheets . . . . .	189
<b>Chapter 9</b>	Defining Selectors . . . . .	203
<b>Chapter 10</b>	Formatting Text with Styles . . . . .	229
<b>Chapter 11</b>	Layout with Styles . . . . .	265
<b>Chapter 12</b>	Building Responsive Webpages . . . . .	309
<b>Chapter 13</b>	Working with Web Fonts . . . . .	335
<b>Chapter 14</b>	Enhancements and Effects with CSS . . . . .	361
<b>Chapter 15</b>	Lists . . . . .	389
<b>Chapter 16</b>	Forms . . . . .	409
<b>Chapter 17</b>	Video, Audio, and Other Multimedia . . . . .	449
<b>Chapter 18</b>	Tables . . . . .	477
<b>Chapter 19</b>	Adding JavaScript . . . . .	485
<b>Chapter 20</b>	Testing & Debugging Webpages . . . . .	495
<b>Chapter 21</b>	Publishing Your Pages on the Web . . . . .	511
<b>Appendix</b>	HTML Reference . . . . .	519
	Index . . . . .	533

# Table of Contents

---

Chapter 6	Introduction . . . . .	xv
	HTML and CSS in Brief . . . . .	xvi
	Web Browsers . . . . .	xvii
	Web Standards and Specifications . . . . .	xviii
	Progressive Enhancement: A Best Practice . . . . .	xx
	Is This Book for You? . . . . .	xxii
Chapter 7	How This Book Works. . . . .	xxiv
	Companion Website. . . . .	xxvi
<b>Chapter 1</b>	<b>Webpage Building Blocks. . . . .</b>	<b>1</b>
	Thinking in HTML . . . . .	3
	A Basic HTML Page . . . . .	4
	Markup: Elements, Attributes, Values, and More . . . . .	8
	A Webpage's Text Content . . . . .	12
	Links, Images, and Other Non-Text Content . . . . .	13
	File and Folder Names . . . . .	14
	URLs . . . . .	15
	HTML: Markup with Meaning. . . . .	20
	A Browser's Default Display of Webpages . . . . .	24
	Key Takeaways. . . . .	26
<b>Chapter 2</b>	<b>Working with Webpage Files . . . . .</b>	<b>27</b>
	Planning Your Site . . . . .	28
	Creating a New Webpage . . . . .	30
	Saving Your Webpage . . . . .	32
	Specifying a Default Page or Homepage. . . . .	35
	Editing Webpages . . . . .	36
	Organizing Files . . . . .	37
	Viewing Your Page in a Browser. . . . .	38
	The Inspiration of Others . . . . .	40
<b>Chapter 3</b>	<b>Basic HTML Structure . . . . .</b>	<b>43</b>
	Starting Your Webpage . . . . .	44
	Creating a Title. . . . .	48

	Creating Headings . . . . .	50
	Common Page Constructs . . . . .	53
	Creating a Header . . . . .	54
	Marking Navigation . . . . .	56
	Marking the Main Area of a Webpage. . . . .	59
	Creating an Article . . . . .	60
	Defining a Section. . . . .	63
	Specifying an Aside . . . . .	65
	Creating a Footer . . . . .	70
	Creating Generic Containers. . . . .	73
	Improving Accessibility with ARIA . . . . .	78
	Naming Elements with a Class or ID. . . . .	82
	Adding the Title Attribute to Elements . . . . .	84
	Adding Comments . . . . .	85
<b>Chapter 4</b>	<b>Text . . . . .</b>	<b>87</b>
	Adding a Paragraph . . . . .	88
	Specifying Fine Print . . . . .	89
	Marking Important and Emphasized Text. . . . .	90
	Creating a Figure . . . . .	92
	Indicating a Citation or Reference . . . . .	94
	Quoting Text . . . . .	95
	Specifying Time . . . . .	98
	Explaining Abbreviations. . . . .	101
	Defining a Term . . . . .	103
	Creating Superscripts and Subscripts. . . . .	104
	Adding Author Contact Information . . . . .	106
	Noting Edits and Inaccurate Text . . . . .	108
	Marking Up Code . . . . .	112
	Using Preformatted Text . . . . .	114
	Highlighting Text . . . . .	116
	Creating a Line Break . . . . .	118
	Creating Spans . . . . .	120
	Other Elements . . . . .	122
<b>Chapter 5</b>	<b>Images . . . . .</b>	<b>133</b>
	Images for the Web . . . . .	134
	Getting Images . . . . .	140
	Choosing an Image Editor . . . . .	141
	Saving Your Images . . . . .	142
	Inserting Images on a Page . . . . .	145

	Offering Alternative Text . . . . .	147
	Specifying Image Sizes . . . . .	149
	Scaling Images with the Browser . . . . .	152
	Scaling Images with an Image Editor . . . . .	154
	Adding Icons for Your Website. . . . .	155
<b>Chapter 6</b>	<b>Links. . . . .</b>	<b>157</b>
	Creating a Link to Another Webpage (and Other Link Basics). . . . .	158
	Creating and Linking to Anchors. . . . .	164
	Creating Other Kinds of Links . . . . .	166
<b>Chapter 7</b>	<b>CSS Building Blocks. . . . .</b>	<b>169</b>
	Constructing a Style Rule. . . . .	171
	Adding Comments to Style Rules . . . . .	172
	Understanding Inheritance. . . . .	174
	The Cascade: When Rules Collide. . . . .	177
	A Property's Value. . . . .	180
<b>Chapter 8</b>	<b>Working with Style Sheets . . . . .</b>	<b>189</b>
	Creating an External Style Sheet . . . . .	190
	Linking to External Style Sheets . . . . .	192
	Creating an Embedded Style Sheet. . . . .	194
	Applying Inline Styles . . . . .	196
	The Cascade and the Order of Styles. . . . .	198
	Using Media-Specific Style Sheets . . . . .	200
	The Inspiration of Others: CSS. . . . .	202
<b>Chapter 9</b>	<b>Defining Selectors . . . . .</b>	<b>203</b>
	Constructing Selectors . . . . .	204
	Selecting Elements by Name . . . . .	206
	Selecting Elements by Class or ID. . . . .	208
	Selecting Elements by Context . . . . .	212
	Selecting an Element That Is the First or Last Child . . . . .	216
	Selecting the First Letter or First Line of an Element . . . . .	218
	Selecting Links Based on Their State . . . . .	220
	Selecting Elements Based on Attributes . . . . .	222
	Specifying Groups of Elements . . . . .	226
	Combining Selectors . . . . .	227

<b>Chapter 10</b>	<b>Formatting Text with Styles</b> . . . . .	<b>229</b>
	Before and After . . . . .	230
	Choosing a Font Family . . . . .	232
	Specifying Alternate Fonts . . . . .	233
	Creating Italics . . . . .	236
	Applying Bold Formatting . . . . .	238
	Setting the Font Size . . . . .	240
	Setting the Line Height . . . . .	245
	Setting All Font Values at Once . . . . .	246
	Setting the Color . . . . .	248
	Setting the Background . . . . .	250
	Controlling Spacing . . . . .	257
	Adding Indents . . . . .	258
	Aligning Text . . . . .	259
	Changing the Text Case . . . . .	260
	Using Small Caps . . . . .	261
	Decorating Text . . . . .	262
	Setting Whitespace Properties . . . . .	264
<b>Chapter 11</b>	<b>Layout with Styles</b> . . . . .	<b>265</b>
	Considerations When Beginning a Layout . . . . .	266
	Structuring Your Pages . . . . .	268
	Styling HTML5 Elements in Older Browsers . . . . .	272
	Resetting or Normalizing Default Styles . . . . .	274
	The Box Model . . . . .	276
	Controlling the Display Type and Visibility of Elements . . . . .	278
	Setting the Height or Width for an Element . . . . .	282
	Adding Padding Around an Element . . . . .	286
	Setting the Border . . . . .	288
	Setting the Margins Around an Element . . . . .	292
	Making Elements Float . . . . .	295
	Controlling Where Elements Float . . . . .	297
	Positioning Elements Relatively . . . . .	301
	Positioning Elements Absolutely . . . . .	302
	Positioning Elements in a Stack . . . . .	304
	Determining How to Treat Overflow . . . . .	305
	Aligning Elements Vertically . . . . .	306
	Changing the Cursor . . . . .	308

<b>Chapter 12</b>	<b>Building Responsive Webpages . . . . .</b>	<b>309</b>
	Responsive Web Design: An Overview . . . . .	310
	Making Images Flexible. . . . .	312
	Creating a Flexible Layout Grid . . . . .	315
	Understanding and Implementing Media Queries. . . . .	319
	Putting It All Together. . . . .	326
	Accommodating Older Versions of Internet Explorer . . . . .	333
<b>Chapter 13</b>	<b>Working with Web Fonts . . . . .</b>	<b>335</b>
	What Is a Web Font?. . . . .	336
	Where to Find Web Fonts. . . . .	338
	Downloading Your First Web Font. . . . .	342
	Understanding the <b>@font-face</b> Rule . . . . .	345
	Styling Text with a Web Font. . . . .	346
	Applying Italics and Bold with a Web Font . . . . .	349
	Using Web Fonts from Google Fonts . . . . .	357
<b>Chapter 14</b>	<b>Enhancements and Effects with CSS . . . . .</b>	<b>361</b>
	Browser Compatibility, Progressive Enhancement, and Polyfills . . . . .	362
	Understanding Vendor Prefixes . . . . .	364
	Rounding the Corners of Elements . . . . .	365
	Adding Drop Shadows to Text . . . . .	368
	Adding Drop Shadows to Elements . . . . .	370
	Applying Multiple Backgrounds . . . . .	373
	Using Gradient Backgrounds . . . . .	376
	Setting the Opacity of Elements. . . . .	382
	Effects with Generated Content. . . . .	384
	Combining Images with Sprites . . . . .	387
<b>Chapter 15</b>	<b>Lists . . . . .</b>	<b>389</b>
	Creating Ordered and Unordered Lists. . . . .	390
	Choosing Your Markers. . . . .	393
	Using Custom Markers . . . . .	394
	Choosing Where to Start List Numbering. . . . .	397
	Controlling Where Markers Hang . . . . .	398
	Setting All List-Style Properties at Once . . . . .	399
	Styling Nested Lists . . . . .	400
	Creating Description Lists . . . . .	404

<b>Chapter 16</b>	<b>Forms</b> . . . . .	<b>409</b>
	Improvements to Forms in HTML5 . . . . .	410
	Creating Forms . . . . .	413
	Processing Forms . . . . .	416
	Organizing the Form Elements . . . . .	418
	Creating Text Boxes . . . . .	422
	Labeling Form Parts . . . . .	425
	Creating Password Boxes . . . . .	427
	Creating Email, Search, Telephone, and URL Boxes . . . . .	428
	Creating Radio Buttons . . . . .	432
	Creating Checkboxes . . . . .	434
	Creating Text Areas . . . . .	436
	Creating Select Boxes . . . . .	437
	Allowing Visitors to Upload Files . . . . .	439
	Creating Hidden Fields . . . . .	440
	Creating a Submit Button . . . . .	441
	Disabling Form Elements . . . . .	444
	Styling Forms Based on Their State . . . . .	446
<b>Chapter 17</b>	<b>Video, Audio, and Other Multimedia</b> . . . . .	<b>449</b>
	Third-Party Plugins and Going Native . . . . .	450
	Video File Formats . . . . .	451
	Adding a Video to Your Webpage . . . . .	452
	Adding Controls and Autoplay to Your Video . . . . .	454
	Looping a Video and Specifying a Poster Image . . . . .	456
	Preventing a Video from Preloading . . . . .	457
	Using Video with Multiple Sources and a Text Fallback . . . . .	459
	Providing Accessibility . . . . .	462
	Audio File Formats . . . . .	463
	Adding an Audio File with Controls to Your Webpage . . . . .	464
	Autoplaying, Looping, and Preloading Audio . . . . .	466
	Providing Multiple Audio Sources with a Fallback . . . . .	468
	Adding Video and Audio with a Flash Fallback . . . . .	470
	Advanced Multimedia . . . . .	475
	Further Resources . . . . .	476

<b>Chapter 18</b>	<b>Tables . . . . .</b>	<b>477</b>
	Structuring Tables . . . . .	478
	Spanning Columns and Rows . . . . .	482
<b>Chapter 19</b>	<b>Adding JavaScript. . . . .</b>	<b>485</b>
	Loading an External Script . . . . .	487
	Adding an Embedded Script . . . . .	492
	JavaScript Events . . . . .	493
<b>Chapter 20</b>	<b>Testing &amp; Debugging Webpages . . . . .</b>	<b>495</b>
	Validating Your Code . . . . .	496
	Testing Your Pages . . . . .	498
	Trying Some Debugging Techniques . . . . .	502
	Checking the Easy Stuff: General . . . . .	504
	Checking the Easy Stuff: HTML . . . . .	506
	Checking the Easy Stuff: CSS . . . . .	508
	When Images Don't Display . . . . .	510
<b>Chapter 21</b>	<b>Publishing Your Pages on the Web. . . . .</b>	<b>511</b>
	Getting Your Own Domain Name . . . . .	512
	Finding a Host for Your Site . . . . .	513
	Transferring Files to the Server . . . . .	515
<b>Appendix</b>	<b>HTML Reference. . . . .</b>	<b>519</b>
	<b>Index . . . . .</b>	<b>533</b>