

CONTENTS

Introduction	xxix
Who Should Read This Book	xxix
Rest in Peace, Frontpage	xxix
The Need for Expression Web	xxx
Comparison Grid	xxx
How This Book Is Organized	xxx

I An Overview of Expression Web

1 A Tour of Expression Web	3
The Expression Web Interface	4
Task Panes	4
The Folder List	6
The Design Surface	7
The Status Bar	7
Working with Web Sites	8
Creating Web Sites	8
Features for Teams	8
Web Site Reports	9
Publishing Web Sites	10
Tools for Creating Pages	11
Powerful Table Tools	11
Dynamic Web Templates	12
Find and Replace	12
Editing Tag Properties	13
Quick Tag Tools	14
Powerful CSS Tools	14
Style Builder	14
Manage Styles Task Pane	15
Apply Styles Task Pane	16
Site Optimization	16
Accessibility Reports	16
Compatibility Reports	17
CSS Reports	18
Scripting and Dynamic Content	18
Interactive Buttons	18
Behaviors	19
Layers	20
ASP.NET 2.0 Controls	20

Data Access Features	21
Lagniappe: Extending Expression Web	22

II Web Sites in Expression Web

2 Creating a Web Site	25
What Is a Web Site?	26
How Expression Web Maintains a Web Site	26
Web Sites and Subsites	27
Web Site Templates	27
Types of Web Sites	29
Disk-based Web Sites	30
FTP Web Sites	33
HTTP Web Sites	36
Lagniappe: Deciding on a Web Site Type	40
3 Publishing a Web Site	41
What Is Publishing?	42
Server Options for Publishing	42
FrontPage Server Extensions	43
WebDAV	46
FTP	47
File System	47
Publishing Content	48
Configuring Publish Options	48
Optimizing HTML during Publishing	50
The Copy Web Site View	52
Troubleshooting HTTP Publishing	54
Troubleshooting	63
Lagniappe: Hosting Your Web Site	64
4 Web Site Management and Reporting	67
Web Site Settings	68
General Tab	68
Preview Tab	69
Advanced Tab	69
Language Tab	71
Database Tab	71
Using Expression Web Source Control	72
Expression Web's Source Control	73
Visual SourceSafe Integrated Source Control	74
Web Page Workflow	75

Web Site Reports	.76
Configuring Reports	.78
Saving Reports	.80
Troubleshooting	.80
Lagniappe: Making the Most of Workflow	.80
5 Importing a Web Site	.83
Using the Import Web Site Wizard	.84
Step 1: Choosing an Import Method	.84
Step 2: Specifying a Destination Web Site Location	.90
Step 3: Finish	.90
Troubleshooting	.91
Lagniappe: Importing Versus Publishing	.92
6 Using Personal Web Packages	.93
What Are Personal Web Packages?	.94
Creating a Personal Web Package	.94
Importing a Personal Web Package	.97
Troubleshooting	.99
Lagniappe: Capitalizing on Personal Web Packages	.99
 III Creating and Editing Web Content	
7 Creating Pages and Content	.103
Creating Web Pages	.104
General Page	.104
ASP.NET Pages	.105
CSS Layouts	.106
Style Sheets	.107
Frames Pages	.107
Importing Files	.107
Formatting Text	.108
How Expression Web Formats Text	.108
Font Families	.110
Font Sizes	.111
Creating Hyperlinks	.112
Targeting Hyperlinks	.112
Hyperlink Parameters	.113
HTML Bookmarks	.114
Hyperlink ScreenTips	.115
Spell-Checking	.116

Configuring Page Properties	117
General Tab	117
Formatting Tab	118
Advanced Tab	118
Custom Tab	119
Language Tab	120
Workgroup Tab	120
Using Code Snippets	120
Configuring File Editors	122
Troubleshooting	125
Lagniappe: Making the Most of Code Snippets	125
8 Using Web Page Views	127
Introduction to Page Views	128
Working in Design View	128
Visual Aids	129
Formatting Marks	131
Ruler and Grid	133
Tracing Images	136
Adjusting Page Size	138
Working in Code View	140
Customizing Code Formatting	141
Quick Tag Tools	143
IntelliSense	143
Context Menu	144
Bookmarks	145
Working in Split View	145
Troubleshooting	146
Lagniappe: Taking Advantage of Page Views	147
9 Using Tables and Layout Tables	149
The Origin of Tables	150
The Makeup of an HTML Table Tag	150
The align Attribute	151
The border Attribute	153
The cellpadding Attribute	154
The cellspacing Attribute	155
The frame Attribute	156
Rows, Columns, and Cells	156
The colspan and rowspan Attributes	157
Aligning Content in Cells	158
Tables in Expression Web	160
Inserting Tables	160

Customizing Tables	160
Layout Tables and Cells	170
Designing Layout with Tables	171
Using the Layout Tables Task Pane	175
Troubleshooting	177
Lagniappe: Designing for Multiple Resolutions Using Tables	178
10 Using Frames	179
Using Frames in Web Sites	180
When to Use Frames	180
When Not to Use Frames	181
Creating Frames Pages	181
Configuring Frames	183
Splitting Frames	185
Deleting Frames	186
Creating Alternate Content	186
Targeting Frames in Hyperlinks	187
Adding and Configuring Inline Frames	188
Troubleshooting	191
Lagniappe: Tips for Frames	191
Frame Borders	191
Resizable Frames	192
Breaking Out of a Frameset	193
11 Using Form Controls	195
Understanding HTML Forms	196
Using Form Controls in Expression Web	196
Creating a Form	198
Saving Form Results to a File or E-mail	201
File Results Tab	203
E-mail Results Tab	204
Confirmation Page Tab	206
Saved Fields Tab	207
Saving Form Results to a Database	208
Updating a Database with New Fields	211
Troubleshooting	212
Lagniappe: Hidden Form Fields	213
12 Editing Tag Properties	215
An Introduction to Tag Properties	216
Understanding the Tag Properties Task Pane	216

Viewing Tag Properties with the Tag Properties Task Pane	219
Setting Tag Attributes with the Tag Properties Task Pane	220
Creating a Page	221
Setting Tag Properties	221
Using Events with the Tag Properties Task Pane	224
Troubleshooting	225
Lagniappe: Tag Properties and Web Standards	225
13 Using the Quick Tag Tools	227
Introduction to the Quick Tag Tools	228
Locating and Selecting Elements Using the Quick Tag Selector	229
Editing Page Content Using the Quick Tag Editor	232
Editing a Tag	232
Removing a Tag	235
Inserting HTML	235
Wrapping a Tag	237
Controlling Positioning	238
Editing Tag Properties	238
Troubleshooting	238
Lagniappe: When to Use the Quick Tag Editor	239
14 Using Graphics and Multimedia	241
Web Image Formats	242
The GIF Format	242
The JPEG Format	242
The PNG Format	242
Inserting Images	243
Formatting Images	244
Resizing Images	244
Changing Picture Properties	245
Converting Images	248
Creating Image Thumbnails	250
Configuring Auto Thumbnails	251
Creating Image Maps	252
Page Transitions	253
Troubleshooting	254
Lagniappe: Inserting Multimedia	255
15 Configuring Page Editor Options	257
Accessing Page Editor Options	258
Editing Page Editor Options	258
The General Tab	258

AutoThumbnail Tab	261
Default Fonts Tab	261
Code Formatting Tab	262
CSS Tab	262
Color Coding Tab	263
Authoring Tab	264
Picture Tab	265
Code Snippets Tab	266
Ruler and Grid Tab	266
IntelliSense Tab	267
Font Families Tab	267
Lagniappe: Experiment to Learn More	269
16 Using Find and Replace	271
An Introduction to Find and Replace	272
Finding and Replacing Text	272
Using Regular Expressions	272
Finding Text	273
Replacing Text	276
Using HTML Rules in Find and Replace	279
Finding and Replacing HTML Tags	282
Saving Queries	283
Troubleshooting	283
Lagniappe: Editing and Removing Recent Searches	284
 IV Using CSS in Expression Web	
17 Creating Style Sheets	289
The Purpose of CSS	290
How CSS Is Applied to Web Pages	293
External Style Sheets	294
Embedded Style Sheets	294
Inline Styles	295
Formatting Content with CSS	296
Positioning Content with CSS	301
CSS Classes	304
Basic Application of a CSS Class	304
Applying Multiple CSS Classes	306
Pseudo-Classes	307
Pseudo-Elements	308
Troubleshooting	309
Lagniappe: CSS Background Images	309

18 Managing CSS Styles311

Expression Web's CSS Tools	312
Apply Styles Task Pane	312
Manage Styles Task Pane	313
Link Style Sheet Dialog	313
CSS Properties Task Pane	314
CSS Reports	315
Style Builder	316
Working with Styles	317
Using the Manage Styles Task Pane	317
Using the Apply Styles Task Pane	324
Using the CSS Properties Task Pane	326
Using the Style Builder	330
Using the Attach Style Sheet and Link Style Sheet Dialogs	331
CSS Reports	333
Checking for CSS Errors	333
Checking CSS Usage	334
Troubleshooting	335
Lagniappe: Arranging CSS Styles	336

V Optimizing Your Web Site

19 Accessibility Features in Expression Web339

An Introduction to Accessibility	340
Designing for Accessibility	340
Accessible Hyperlinks	340
Accessible Tables	341
Accessible Frames	342
Other Accessibility Considerations	343
Using the Accessibility Checker	343
Checking Accessibility	343
Working with the Accessibility Task Pane	345
Generating Accessibility Reports	347
Lagniappe: Seeing Color	348

20 Designing for Compatibility349

A Brief History	350
What Is Compatibility?	350
Compatibility Features in Expression Web	351
Identifying Code Problems	351
Marking Invalid Code in Code View	354
Using Reports to Find Problems	355

Troubleshooting	358
Lagniappe: Don't Rely on Expression Web To Enforce Standards	359

VI Scripting, DHTML, and Other Dynamic Content

21 Using Dynamic Web Templates363

An Introduction to Dynamic Web Templates	364
Creating a Dynamic Web Template	364
Creating a Page Layout	365
Adding Editable Regions	366
Attaching a Dynamic Web Template	368
Attaching to an Existing Page	368
Attaching to a New Page	369
Updating a Site with Dynamic Web Templates	370
Modifying a Dynamic Web Template	370
Modifying an Attached Page in Code View	372
Managing Editable Regions	373
Adding a New Editable Region	374
Renaming an Existing Editable Region	374
Resolving Mismatched Editable Regions	375
Detaching a Dynamic Web Template	376
Troubleshooting	377
Lagniappe: Under the Hood	377

22 Using Interactive Buttons381

Overview of Interactive Buttons	382
Inserting and Configuring Interactive Buttons	383
The Button Tab	383
The Font Tab	384
The Image Tab	386
Saving an Interactive Button	388
Editing an Interactive Button	389
Troubleshooting	390
Lagniappe: Practical Uses For Interactive Buttons	390

23 Using Behaviors393

Understanding and Working with Behaviors	394
Using the Behaviors Task Pane	394
How Behaviors Work	395
Adding Behaviors Within a Paragraph	395
Expression Web Behaviors	396
The Call Script Behavior	396

The Change Property Behavior	397
The Change Property Restore Behavior	400
The Check Browser Behavior	400
The Check Plug-in Behavior	401
The Go To URL Behavior	402
The Jump Menu Behavior	402
The Jump Menu Go Behavior	403
The Open Browser Window Behavior	404
The Play Sound Behavior	405
The Popup Message Behavior	405
The Preload Images Behavior	406
The Set Text Behavior	406
The Swap Image Behavior	409
The Swap Image Restore Behavior	410
Troubleshooting	410
Lagniappe: Detecting Browsers	411
Creating a Blank Page for Redirecting	411
Editing the Check Browser Code	412
24 Client-side Scripting	415
A History of Browser Scripting	416
JavaScript Basics	417
Adding JavaScript to a Web Page	417
Linking to an External Script File	419
Adding Inline JavaScript	419
The Document Object Model	420
The window Object	421
The document Object	422
Writing Simple Scripts	423
Showing and Hiding Page Elements	423
Accessing and Changing Attributes	427
Form Field Validation	430
Troubleshooting	433
Lagniappe: Debugging	434
25 Using Layers	439
Introduction to Layers	440
Inserting and Configuring Layers	441
Adding Content to a Layer	442
Resizing a Layer	443
Creating and Working with Child Layers	444
Positioning Layers	447
Setting Layer Properties with Behaviors	449
Setting the Visibility of Layers	449

Adding Layer Interactivity	450
Troubleshooting	454
Lagniappe: Z-Order Anomalies	454
26 Creating VBA Macros	455
Introduction to Programming with Visual Basic for Applications	456
Understanding Modules, Class Modules, and UserForms	457
Accessing Web Sites with VBA	459
The Application Object Model	459
The Web Object Model	459
The Page Object Model	460
Writing a Macro	461
Creating the UserForm	461
Implementing the Functionality	466
Finishing the Code	476
Running the Macro	477
When Something Goes Wrong—Debugging	479
Troubleshooting	480
Lagniappe: Protecting Macro Code	480
 VII ASP.NET Development in Expression Web	
27 Using the ASP.NET Development Server	485
Introduction to the ASP.NET Development Server	486
How to Use the ASP.NET Development Server	487
Limitations of the ASP.NET Development Server	490
Process Identity	491
No Remote Access	491
No Support for ASP Pages	491
Troubleshooting	492
Lagniappe: Starting the ASP.NET Development Server from the Command Prompt	493
28 Using Standard ASP.NET Controls	495
ASP.NET 2.0: A Brief Introduction	496
Creating ASP.NET Pages	496
The Basics of ASP.NET Controls	498
Understanding Control Properties	501
An Overview of the Standard ASP.NET Controls	504
The AdRotator Control	505
Creating a Simple AdRotator Page	507
Creating the Advertisement File	507

The Calendar Control	511
Formatting the Calendar Control	511
Calendar Control Properties	512
The Wizard Control	516
Wizard Steps	517
Creating a Simple Wizard	517
Making ASP.NET Work for You	525
Troubleshooting	525
Lagniappe: Formatting with Styles	526
29 Using ASP.NET Navigation Controls	527
Overview of Navigation Systems	528
Creating a Sitemap File	530
Using the ASP.NET Menu Control	531
Creating a Test Web Site	532
Adding a Menu Control	532
Formatting the Menu Control	535
Using the ASP.NET TreeView Control	538
Formatting the TreeView Control	540
Using the ASP.NET SiteMapPath Control	544
Formatting the SiteMapPath Control	545
Troubleshooting	546
Lagniappe: Improving Navigation with Master Pages	546
30 Using ASP.NET Master Pages and User Controls	549
The Need For a Common Layout	550
The Master Page	550
The Content Page	553
Developing a Master Page Web Site	557
Creating the Master Page	557
Creating the Content Page	565
Troubleshooting	567
Lagniappe: Converting an Existing Site to a Master Page Site	568
31 Developing a Login System with ASP.NET	569
Web Site Login Systems	570
Overview of ASP.NET 2.0 Login Controls	570
The Login Control	571
LoginStatus Control	574
LoginName Control	575
ChangePassword Control	575
PasswordRecovery Control	580

CreateUserWizard	581
LoginView Control	582
Creating a Login Solution	585
Configuring the Web Site (IIS)	585
Configuring the Web Site (ASP.NET Development Server)	588
Creating the Web Pages	589
Troubleshooting	592
Lagniappe: Modifying Password Requirements	593
32 Implementing Form Validation Using ASP.NET	595
The Need for Form Validation	596
The ASP.NET Validation Controls	596
Common Properties	597
Creating a Validated Form	599
Troubleshooting	605
Lagniappe: Validation Groups	606
33 Using ASP.NET Web Parts	607
An Introduction to Web Parts	608
Creating ASP.NET User Controls	609
Web Parts Controls in the Toolbox	611
Creating a Web Parts Page	611
Web Parts Page Display Modes	614
Creating a User Control that Sets the Display Mode	615
Adding Code to Change the Display Mode	616
The Web Parts Catalog	619
Troubleshooting	622
Lagniappe: Editing Web Parts Controls	623
 VIII Accessing Data in Expression Web	
34 Primer on Data Access Technologies	629
A History of Data Access	630
Data Access Technologies in Expression Web	630
ASP.NET and Other Web Application Platforms	631
Lagniappe: Databases Aren't Just for Online Spreadsheets	632
35 Accessing Data with ASP.NET 2.0	635
ASP.NET 2.0 Data Source Controls	636
AccessDataSource Control	636
SqlDataSource Control	638
SiteMapDataSource Control	638

XmlDataSource Control	638
Displaying Data with ASP.NET	639
Displaying Data in Tabular Form	639
Sorting the GridView	643
Editing Data with ASP.NET 2.0	644
Configuring the Data Source	645
Configuring the GridView	645
Testing the Page	648
Troubleshooting	649
Lagniappe: Creating a Master/Detail View	649
Creating the Master View	649
Creating the Detail View	651

IX Appendices

A Using Expression Web with Visual Web Developer Express Edition 655

Building Robust ASP.NET 2.0 Applications	656
Introduction To Visual Web Developer Express Edition	656
Working With Web Sites in Visual Web Developer Express Edition	658
Creating Pages in Visual Web Developer Express Edition	660
Working with Controls in Visual Web Developer Express Edition	663
Creating a Sample Site	664
Creating the Web Page	665
Adding ASP.NET Code	668
Adding Form Validation	671
Troubleshooting	673
Lagniappe: Debugging ASP.NET	674

B Taking Advantage of E-Commerce 677

The Power of E-Commerce	678
E-Commerce Options	678
Digital River	679
Lulu	680
Payment Processing	680
PayPal	681
Banks	681
2CO	681
Putting It All Together In Expression Web	682
Security	682
Advertising and Affiliates	682
Lagniappe: Is It Worth the Risk?	683

C The Future of Web Development	685
Changing Standards	686
Benefits of XHTML	687
Emerging Technologies	687
AJAX	688
Ruby on Rails	690
Other Emerging Technologies	690
Lagniappe: Understanding and Using RSS	691
The RSS Feed	692
The RSS Reader	693
D Resources on Expression Web, Web Design, and ASP.NET	695
Online Resources on Expression Web	696
JimcoBooks.com	696
Expression Web Help	696
The Expression Designers: Graphic, Interactive, and Web by-Expression	696
Online Resources on Web Design	696
InformIT	696
Webmonkey	696
O'Reilly Network	696
World Wide Web Consortium	697
Online Resources on ASP.NET	697
asp.netPRO	697
4GuysFromRolla.com	697
ASP.NET Official Web Site	697
DotNetJunkies	697
Index	699