

CONTENTS

INTRODUCTION

xxi

PART I: CREATING YOUR FIRST SITE WITH UMBRACO

CHAPTER 1: INSTALLING FOR THE FIRST TIME	3
Installing Umbraco	3
Installing Umbraco using the Microsoft Web Platform Installer	4
Installing Umbraco Manually	12
Tips for Installing Umbraco in Special Environments	18
Debugging in a Development Environment	18
Security Settings in a Production Environment	19
Other Installation Scenarios	19
Upgrading Umbraco	19
Performing a Patch Upgrade	19
Performing a Version Upgrade	21
Utilizing Umbraco Starter Kits	21
Installing a Starter Kit	22
Simple Starter Kit	23
Blog Starter Kit	24
Personal Starter Kit	24
Business Starter Kit	24
Extending the Starter Kits	24
Applying and Manipulating Umbraco Skins	25
Customizing a Skin	26
Modifying a Simple Umbraco Skin	27
Finding and Installing Umbraco Modules	29
Take Home Points	30
CHAPTER 2: THE UMBRACO APPROACH	31
Separating Content and Structure	32
Understanding the Umbraco Backoffice Structure	32
Creating a User with Restricted Access	33
Umbraco Content Tree	35
Umbraco Building Blocks	37
Content	38

Users	42
Functions and Properties	42
User Types	44
Setting Up a New Dictionary Label	44
Permissions	45
Setting Up a User for Access to Multiple Start Nodes	46
Media	47
Settings	49
Developer	50
Members	50
Creating a Member Group	51
Creating a Member Type	52
Translation	52
Take Home Points	53

CHAPTER 3: DOCUMENT TYPES **55**

The Data Model	56
Flexible Content Structure	57
Creating a Document Type	57
Restricting the Type of Content	62
Using Parent Document Types	64
Working with Document Types Outside of Umbraco	67
Exporting a Document Type	67
Importing a Document Type	68
Exporting Document Types as Plain Old CLR Objects	68
Using Document Type Properties	70
Built-in Properties	70
Properties with Special Meaning	71
Take Home Points	72

CHAPTER 4: TEMPLATES, MARKUP, AND MASTER PAGES **73**

Building Website Structure using Templates	74
How Templates Build Layout and Structure	74
Creating Templates With Umbraco	76
Defining Markup	78
Creating Markup Using the Umbraco UI	78
Creating the Master Base Template	79

Creating the Textpage Template	80
Populating the Placeholder for the Textpage.Master File	81
Using Special Umbraco Tags	82
Applying the Template	85
Nesting and Inheritance with ASP.NET Master Pages	86
Umbraco and Your Markup	88
You Get What You Put In — A Good Thing	88
Using AltTemplate	89
Changing the Document Type using AltTemplate	89
The No Template Effect	92
Styles and Scripts	94
Defining Your Styles	94
Layout and Organization	94
Handling Images	99
Styles and the Rich Text Editor	99
Using Scripts	102
Take Home Points	103
CHAPTER 5: USING MACROS	105
<hr/>	
Introduction to Umbraco Macros	105
Macro Parameters	108
Rendering Macros In Your Site	110
XSLT Powered Macros	111
About XSLT	111
Using the Built-in XSLT Templates	112
Creating an XSLT Macro	116
Using XSLT Extensions to Make Macros Richer	118
Going Further with XSLT	121
Output an Image from the Media Library	121
Grouping Output by Date	124
.NET User Controls	128
Support for the .NET DLR	129
IronPython	129
Listing Pages from Current Page	129
Subpages from Changeable Source	130
IronRuby	130
User Generated Forms Using Umbraco Contour	131
Take Home Points	135

CHAPTER 6: LANGUAGES AND DICTIONARIES	137
Languages	137
Changing the Default Language	138
Adding and Updating Language Files	139
Changing the Backoffice UI Language	147
Dictionaries	148
The Umbraco Approach	148
Adding a Language	149
Working with the Dictionary	150
Take Home Points	152
CHAPTER 7: MULTIPLE SITES, HOSTNAMES, AND LOCALIZATION	153
Setting Up Multiple Sites	154
Working with Hostnames	156
Translation Workflow	159
Take Home Points	164
PART II: CONTENT PRODUCTION	
CHAPTER 8: CREATING CONTENT	167
Content Management Best Practices	167
Creating a Structure	168
Organizing Templates for Reuse	171
Understanding the Rich Text Editor	174
Take Home Points	179
CHAPTER 9: ADDING FUNCTIONALITY	181
Using the Umbraco Tags	181
Generating Website Navigation Menus	184
Providing the Latest News, Events, and Posts	187
Using Examine to Search Content	188
Take Home Points	193
CHAPTER 10: PACKAGES—WHATEVER YOU CAN IMAGINE	195
Understanding Packages	195
Using Community Packages	197
Our.umbraco.org/projects	197
CodePlex.com	198
Understanding the Package Repository	199

Using Commercial Packages	199
Creating Your Own Packages	200
Take Home Points	205
CHAPTER 11: USING XSLT	207
<hr/>	
Using XSLT for Published Content	208
Understanding XPath	210
Working with Media	212
Looking at Some XSLT Examples	215
List All Content	217
Counting, Looping, and Conditional Statements	219
Take Home Points	222
CHAPTER 12: WORKING WITH .NET CONTROLS	223
<hr/>	
Creating a Macro	224
.NET Samples	224
List Subpages from Current Page	225
Rendering Nodes in a Grid Control	228
Creating a Page Programmatically	230
Creating a Custom Data Type	235
Sending Email with a Contact Form	239
Passing Data to .NET Through Macro Parameters	241
Creating a Login Macro	244
Using .NET from XSLT via XSLT Extensions	246
The Umbraco Event Model	249
Event Hooks	249
Event Examples	255
LINQ to Umbraco	256
Getting Started with LINQ to Umbraco	257
Extending LINQ to Umbraco	258
Take Home Points	258
<hr/>	
PART III: DEPLOYING, TROUBLESHOOTING, AND SAMPLE APPLICATIONS	
CHAPTER 13: DEPLOYING TO A PRODUCTION INSTALLATION	261
<hr/>	
Planning Considerations	261
Using the Packager	263
Database Synchronizing	266
Using Courier	266
Take Home Points	268

CHAPTER 14: TROUBLESHOOTING	269
Installation Troubleshooting	269
Are File Permissions Set Correctly?	270
Is Umbraco Configured in a Virtual Directory?	271
Does the IIS Application Pool .NET Runtime Version Match the Umbraco .NET Runtime Version?	271
Are All the Files Present?	271
Database-Related Installation Issues	272
Shared Hosting Considerations	273
Error Handling and Logging	273
The Umbraco Error Log	274
The Windows Event Log	275
A Note about XSLT and Errors	276
Moved and Missing Web Pages	276
404 Pages	276
Page Redirects	277
Using umbracoRedirect	277
Using umbracoInternalRedirectId	278
Take Home Points	278
CHAPTER 15: SAMPLE APPLICATION: CLASSIFIED ADS	279
What to Configure for this Example	279
Assumptions to Make for this Example	280
Visual Studio Features	281
The Umbraco Installation Components	281
Document Types	282
Templates	282
Macros	284
Event Hooks	287
Putting It All Together	288
Take Home Points	289
PART IV: APPENDIXES	
APPENDIX A: UPGRADING AN EXISTING INSTALLATION	293
Overall Steps to Upgrade	293
Backing Up Your Files and Database	295
Checking Package Compatibility	295
Copying the Right Files	296
Testing and Troubleshooting	296

APPENDIX B: SETTING UP YOUR VISUAL STUDIO ENVIRONMENT	299
Setting Up the Umbraco Folder Structure	299
Setting Up the Build Events	301
Referencing the Umbraco Libraries	303
APPENDIX C: RESOURCES	305
Source and Installation Files	305
Community	305
Umbraco Headquarters	306
APPENDIX D: DATA TYPE DEFINITIONS	307
The Data Type's Purpose	307
Definition of Built-in Data Types	308
Approved Color	309
Checkbox List	310
Content Picker	310
Date Picker with Time	311
Date Picker	311
Dropdown Multiple	311
Dropdown	312
Image Cropper	312
Macro Container	314
Media Picker	315
Member Picker	315
Radiobox	315
Related Links	315
Richtext Editor	316
Simple Editor	317
Tags	317
Textbox Multiple	318
Textstring	318
True/False	318
Ultimate Picker	318
Upload	319
Configuring a Data Type to Your Needs	319
INDEX	321