Microsoft® SharePoint® Foundation 2010
Step by Step

Olga Londer
Penelope Coventry
Contents at a Glance

1  Introduction to SharePoint Foundation 2010  
2  Navigating a SharePoint Site  
3  Creating and Managing Sites  
4  Working with Lists  
5  Working with Libraries  
6  Working with Web Pages  
7  Working with List Settings  
8  Working with Library Settings  
9  Working with List and Library Views  
10 Working with Surveys and Discussion Boards  
11 Working with Workflows  
12 Working with Workspaces and Blogs  
13 Using SharePoint Foundation with Outlook 2010  
14 Using SharePoint Foundation with Excel 2010 and Access 2010  
15 Using SharePoint Foundation with InfoPath 2010  
16 Finding Information on the SharePoint Site  
Appendix: SharePoint Foundation Permissions  
Index
Contents

Acknowledgments .......................................................... xi
Features and Conventions of This Book ....................................... xiii
Using the Practice Files ........................................................... xv
  Software Requirements .......................................................... xvi
  Client Computer ................................................................. xvi
  Server Deployment .............................................................. xvii
Installing the Practice Files ..................................................... xvii
Using the Practice Files ......................................................... xviii
Using the WSP Templates ....................................................... xix
Removing the WSP Templates ................................................... xx
Deleting a Practice Site ........................................................... xxi
Removing the Practice Files ..................................................... xxii
Your Companion eBook ......................................................... xxiii
Getting Support and Giving Feedback ......................................... xxiv
  Getting Help with This Book and Its Practice Files ......................... xxiv
  Errata ............................................................................. xxiv
  Additional Support ............................................................... xxiv
  Getting Help with SharePoint Foundation 2010 ............................ xxiv
We Want to Hear from You ...................................................... xxv
Stay in Touch ................................................................. xxv

1 Introduction to SharePoint Foundation 2010 ........................... 1
  What Is SharePoint Foundation? ............................................... 2
  Versions of SharePoint Foundation ........................................... 7
  Office Integration with SharePoint Foundation ............................ 8
  SharePoint Products .............................................................. 11
  Key Points ................................................................. 12

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2 Navigating a SharePoint Site 15
Navigating the Home Page and the SharePoint Site ......................... 16
Navigating the Site Content Tree ........................................... 22
Navigating the Ribbon Interface ............................................ 25
Browsing Lists on a SharePoint Site ....................................... 28
Browsing Document Libraries .................................................. 30
Customizing the Top Navigation Area ...................................... 32
Customizing the Left Navigation Panel ..................................... 36
Understanding Web Parts ....................................................... 40
Using the Recycle Bin .......................................................... 43
Key Points ............................................................................. 47

3 Creating and Managing Sites 49
Creating Sites ........................................................................ 50
Managing Site Users and Permissions ........................................ 57
Creating a Child Workspace ..................................................... 66
Changing a Site’s Theme .......................................................... 69
Saving and Using a Site Template .............................................. 71
Managing Site Features ........................................................... 74
Managing Site Content Syndication .......................................... 77
Deleting a Site ....................................................................... 79
Key Points ............................................................................. 81

4 Working with Lists 83
Discovering Default Lists in a Site ............................................. 84
Creating a New List ................................................................ 89
Adding and Editing List Items ................................................ 93
Deleting and Restoring a List Item .......................................... 97
Attaching Files to List Items .................................................. 98
Adding, Editing, and Deleting List Columns ............................ 101
Adding Summary Tasks to a Task List .................................. 109
Sorting and Filtering a List .................................................... 111
Setting up Alerts .................................................................. 113
Key Points ............................................................................. 117

5 Working with Libraries 119
Creating a Document Library .................................................. 120
Creating a New Document ..................................................... 122
Editing Documents ............................................................... 124
Adding Documents .................................................. 126
Creating a Picture Library and Adding Pictures ...................... 130
Creating a Form Library ........................................ 133
Creating a Wiki Page Library ................................... 137
Creating a New Folder in a Library ................................ 138
Checking Documents In and Out ................................ 139
Working with Version History .................................... 142
Using Alerts .......................................................... 143
Deleting and Restoring Documents ................................ 145
Working Offline with SharePoint Workspace ....................... 146
Working Offline with Outlook .................................... 152
Key Points ............................................................. 153

6 Working with Web Pages ....................................... 155
Editing a Page ..................................................... 156
Changing the Layout of a Page .................................... 159
Creating a New Page .............................................. 160
Adding Links ......................................................... 163
Working with Page History and Versions ......................... 165
Using Alerts .......................................................... 167
Adding a Web Part from the Web Part Pane ......................... 168
Removing a Web Part ............................................. 172
Customizing a Web Part by Using the Web Part Tool Pane .... 174
Editing Web Part Pages ........................................... 177
Moving Web Parts ................................................ 180
Key Points ............................................................. 181

7 Working with List Settings .................................... 183
Setting the List Title, Description, and Navigation ................ 185
Configuring Content Approval and Versioning ..................... 187
Working with Advanced List Settings ................................ 191
Creating a Content Type ......................................... 194
Associating a Content Type with a List .......................... 197
Using List Validation .............................................. 199
Deleting and Restoring a List .................................... 201
Managing Users and Permissions .................................. 203
Granting List Item Permissions .................................... 206
Configuring Incoming Email Settings ................................ 207
Configuring RSS Feeds for a List or Library ....................... 210
8 Working with Library Settings

Creating Indexed Columns .............................................. 213
Preventing Duplicate List Items ........................................ 215
Key Points ........................................................................ 217

8 Working with Library Settings ........................................ 219

Opening Documents in the Client or the Browser .................... 221
Modifying a Library Template ........................................... 222
Configuring Required Checkout ........................................ 224
Enabling Versioning ....................................................... 226
Managing Checked-Out Files ........................................... 230
Configuring the Sites Assets Library .................................. 233
Creating a Custom Send To Destination ................................. 235
Managing Users and Permissions ....................................... 237
Creating Content Types .................................................. 240
Creating a View ............................................................ 244
Deleting and Restoring a Library ....................................... 246
Configuring Other Library Types ....................................... 247
Key Points ........................................................................ 248

9 Working with List and Library Views ................................ 251

Working with a Standard View .......................................... 252
Working with a Datasheet View ......................................... 256
Working with a Gantt View .............................................. 263
Working with an Access View ........................................... 268
Working with a Calendar View ......................................... 270
Creating and Using a List Template ................................... 273
Relating List and Item Views ............................................ 277
Key Points ........................................................................ 283

10 Working with Surveys and Discussion Boards ..................... 285

Creating a Survey .......................................................... 286
Responding to a Survey ................................................... 295
Viewing the Results of a Survey ........................................ 298
Creating and Using a Discussion Board ................................. 302
Enabling a Discussion Board for Email ................................. 306
Viewing a Discussion Board in Outlook ............................... 307
Key Points ........................................................................ 309
## 11 Working with Workflows

- Automating Business Processes Using SharePoint ........................................... 312
- Understanding the Built-in Workflows of SharePoint .................................... 313
- Configuring a Workflow .................................................................................... 315
- Working with Workflows .................................................................................. 319
- Managing Workflows ....................................................................................... 323
- Managing Workflow Tasks within Outlook 2010 .............................................. 326
- Terminating Workflows .................................................................................... 328
- Removing Workflows from Lists and Libraries ................................................. 329
- Associating Workflows with Content Types .................................................... 330
- Key Points ........................................................................................................... 334

## 12 Working with Workspaces and Blogs

- Creating a Document Workspace ..................................................................... 338
- Accessing an Existing Document Workspace .................................................. 341
- Publishing a Document Back to a Document Library ....................................... 342
- Deleting a Document Workspace ..................................................................... 343
- Creating a Meeting Workspace ....................................................................... 344
- Understanding the Home Page of a Meeting Workspace ................................ 348
- Adding Items to a Meeting Workspace ............................................................. 351
- Customizing a Meeting Workspace .................................................................. 354
- Creating a Blog Site ........................................................................................... 356
- Creating a Blog Post .......................................................................................... 359
- Adding a Blog Comment .................................................................................... 361
- Using RSS Feeds ............................................................................................... 363
- Key Points ........................................................................................................... 365

## 13 Using SharePoint Foundation with Outlook 2010

- Connecting a SharePoint Contacts List to Outlook ............................................ 369
- Moving an Outlook Contact to a SharePoint Contacts List ................................ 372
- Copying SharePoint Contacts into Outlook ...................................................... 374
- Sending an Email Using a SharePoint Contacts List ......................................... 376
- Viewing SharePoint Calendars and Personal Calendars in Outlook ................ 377
- Taking SharePoint Content Offline .................................................................. 379
- Managing SharePoint Alerts in Outlook ........................................................... 382
- Creating Meeting Workspaces from Outlook .................................................. 385
- Configuring an RSS Feed .................................................................................. 391
- Key Points ........................................................................................................... 395
14 Using SharePoint Foundation with Excel 2010 and Access 2010 397
   Importing Data from an Excel Spreadsheet to a List in SharePoint .................. 398
   Exporting a SharePoint List to an Excel Spreadsheet ................................. 401
   Exporting an Excel Table to a SharePoint Site ......................................... 404
   Exporting Data from an Access Database to a List in SharePoint .................. 408
   Importing a List to an Access Database .................................................... 412
   Linking an Access Database to a SharePoint List .......................................... 415
   Linking a Data-centric Application to a SharePoint List ................................ 417
   Working Offline ............................................................................................. 422
   Key Points ..................................................................................................... 425

15 Using SharePoint Foundation with InfoPath 2010 427
   Creating a Form Library .................................................................................. 428
   Modifying a Form Library .............................................................................. 434
   Creating a New Form ...................................................................................... 437
   Editing a Form ............................................................................................... 439
   Creating a Custom Office Document Information Panel .............................. 440
   Viewing and Editing Custom Document Properties ...................................... 444
   Editing a Custom Document Information Panel ............................................ 446
   Key Points ..................................................................................................... 449

16 Finding Information on the SharePoint Site 451
   Searching the SharePoint Site ......................................................................... 452
   Searching for Files Across Multiple Document Libraries from
   Within Office 2010 ......................................................................................... 456
   Key Points ..................................................................................................... 460

Appendix: SharePoint Foundation Permissions .............................................. 461

Index ............................................................................................................. 469

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Acknowledgments

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Sincerely,

Olga Londer and Penelope Coventry
Features and Conventions of This Book

This book has been designed to lead you step by step through many of the tasks you’re most likely to want to perform in Microsoft SharePoint Foundation 2010. If you start at the beginning and work your way through all the exercises, you will gain enough proficiency to be able to create and work with a wide range of SharePoint Foundation features. However, each topic is self contained. If you have worked with a previous version of SharePoint Foundation, or if you completed all the exercises and later need help remembering how to perform a procedure, the following features of this book will help you locate specific information:

- **Detailed table of contents**  Search the listing of the topics and sidebars within each chapter.
- **Chapter thumb tabs**  Easily locate the beginning of the chapter you want.
- **Topic-specific running heads**  Within a chapter, quickly locate the topic you want by looking at the running heads at the top of odd-numbered pages.
- **Detailed index**  Look up specific tasks and features in the index, which has been carefully crafted with the reader in mind.

You can save time when reading this book by understanding how the *Step by Step* series shows exercise instructions, keys to press, buttons to click, and other information.

<table>
<thead>
<tr>
<th>Convention</th>
<th>Meaning</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Practice Files</strong></td>
<td>These paragraphs provide information about the practice files that you will use when working through the exercises in a chapter.</td>
</tr>
<tr>
<td><strong>SET UP and BE SURE TO</strong></td>
<td>These paragraphs preceding a step-by-step exercise indicate any requirements that you should attend to or actions that you should take before beginning the exercise.</td>
</tr>
<tr>
<td><strong>CLEAN UP</strong></td>
<td>This paragraph following a step-by-step exercise provides instructions for saving and closing open files or programs before moving on to another topic.</td>
</tr>
<tr>
<td>1</td>
<td>Blue numbered steps guide you through hands-on exercises in each topic.</td>
</tr>
<tr>
<td>2</td>
<td>Black numbered steps guide you through procedures in sidebars and expository text.</td>
</tr>
<tr>
<td>Important</td>
<td>This paragraph points out information that you need to know to complete a procedure.</td>
</tr>
</tbody>
</table>
### Features and Conventions of This Book

<table>
<thead>
<tr>
<th>Convention</th>
<th>Meaning</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Note</strong></td>
<td>This paragraph describes information that merits special attention.</td>
</tr>
<tr>
<td><strong>See Also</strong></td>
<td>This paragraph directs you to more information about a topic in this book or elsewhere.</td>
</tr>
<tr>
<td><strong>Tip</strong></td>
<td>This paragraph provides a helpful hint or shortcut that makes working through a task easier.</td>
</tr>
<tr>
<td><strong>Troubleshooting</strong></td>
<td>This paragraph explains how to fix a common problem that might prevent you from continuing with an exercise.</td>
</tr>
<tr>
<td><strong>CTRL+G</strong></td>
<td>A plus sign (+) between two keys means that you must press those keys at the same time. For example, “Press CTRL+G” means that you should hold down the <strong>CTRL</strong> key while you press the G key.</td>
</tr>
<tr>
<td>![Create View]</td>
<td>Pictures of buttons appear in the margin the first time the button is used in a chapter.</td>
</tr>
<tr>
<td><strong>Black bold</strong></td>
<td>In the hands-on exercises, the names of program elements, such as buttons, commands, windows, and dialog boxes, as well as files, folders, or text that you interact with in the steps, are shown in black bold type.</td>
</tr>
<tr>
<td><strong>Blue bold</strong></td>
<td>In the hands-on exercises, text that you should type is shown in blue bold type.</td>
</tr>
<tr>
<td><strong>Blue bold italic</strong></td>
<td>Important terms are formatted this way.</td>
</tr>
</tbody>
</table>
Using the Practice Files

Before you can complete the exercises in this book, you need to copy the book’s practice files to your computer. These practice files, as well as other information, can be downloaded from the book’s catalog page, located at http://www.microsoftpressstore.com/title/9780735627260.

The following table lists the practice files that are required to perform the exercises in this book.

<table>
<thead>
<tr>
<th>Chapter</th>
<th>File</th>
</tr>
</thead>
<tbody>
<tr>
<td>Chapter 1: Introduction to SharePoint Foundation 2010</td>
<td>No practice files</td>
</tr>
<tr>
<td>Chapter 2: Navigating a SharePoint Site</td>
<td>Chapter02_Starter.wsp</td>
</tr>
<tr>
<td>Chapter 3: Creating and Managing Sites</td>
<td>No practice files</td>
</tr>
<tr>
<td>Chapter 4: Working with Lists</td>
<td>No practice files</td>
</tr>
<tr>
<td>Chapter 5: Working with Libraries</td>
<td>OakChest.docx, OakDesk.docx, OakEndTable.docx, OakNightStand.docx, Pjcov.jpg, WideWorldInvoice.docx, WideWorldPurchaseOrder.xsn</td>
</tr>
<tr>
<td>Chapter 6: Working with Web Pages</td>
<td>Chapter06_Starter.wsp, Pjcov.jpg</td>
</tr>
<tr>
<td>Chapter 7: Working with List Settings</td>
<td>No practice files</td>
</tr>
<tr>
<td>Chapter 8: Working with Library Settings</td>
<td>Contoso Proposal.docx, ProposalsTemplate.docx, WideWorldImportersLogo.png</td>
</tr>
<tr>
<td>Chapter 9: Working with List and Library Views</td>
<td>Chapter09_Starter.wsp</td>
</tr>
<tr>
<td>Chapter 10: Working with Surveys and Discussion Boards</td>
<td>No practice files</td>
</tr>
<tr>
<td>Chapter 11: Working with Workflows</td>
<td>No practice files</td>
</tr>
<tr>
<td>Chapter 12: Working with Workspaces and Blogs</td>
<td>No practice files</td>
</tr>
<tr>
<td>Chapter 13: Using SharePoint Foundation with Outlook 2010</td>
<td>Chapter13_Starter.wsp</td>
</tr>
</tbody>
</table>
### Chapter 14: Using SharePoint Foundation with Excel 2010 and Access 2010
- ExpImpWideWorldImporters2010.accdb
- Furniture_Price.xlsx
- MoveWideWorldImporters.accdb
- Sales_Figures.xlsx

### Chapter 15: Using SharePoint Foundation with InfoPath 2010
- Chapter15_Starter.wsp
- Purchase Order Template.xsn

### Chapter 16: Finding Information on the SharePoint Site
- Chapter16_Starter.wsp

In addition to the files required to perform the exercises, the following files contain reference information that will enhance your ability to get the most out of this book and Microsoft SharePoint Foundation:

- A comparison of the SharePoint 2010 editions is provided in the file SharePoint2010EditionComparison.xlsx, which is located in the Chapter01 practice folder.
- A SharePoint Foundation 2010 ribbon reference is provided in the file SharePoint_Command_Mapping_Guide.xlsx, which is located in the Chapter02 practice folder.

## Software Requirements

This section details the software requirements for both your client computer and the server that is running SharePoint Foundation 2010.

**Important** You must have access to a SharePoint Foundation 2010 installation on the server before performing exercises in this book.

### Client Computer

To perform the exercises in this book, your client computer should meet the following requirements:

- Operating system
  - Windows 7 is recommended. However, you can also use Windows Vista, Windows XP, Windows Server 2008, or Windows Server 2003.
Software

- Internet Explorer 8 or later is recommended; however, you can use Internet Explorer 7. Other browsers, such as Mozilla Firefox and Safari, can be used with some limitations. For a list of known limitations, refer to http://technet.microsoft.com/en-gb/library/cc288142.aspx.

Disk space

- 10 megabytes (MB) of available hard disk space is recommended for the practice files.

Server Deployment

To perform the exercises in this book, you should have access to a SharePoint Foundation 2010 deployment that can be a single-server installation, a farm deployment, or a hosted service. The server should meet the following requirements:

- Operating system
  - The 64-bit edition of Windows Server 2008 Standard, Enterprise, Data Center, or Web Server with SP2, or the 64-bit edition of Windows Server 2008 R2 Standard, Enterprise, Data Center, or Web Server.
  - Microsoft .NET Framework 3.5.

- Software
  - SharePoint Foundation 2010

See Also For a complete list of hardware and software requirements for SharePoint Foundation 2010, refer to http://technet.microsoft.com/en-gb/library/cc288955.aspx.


Installing the Practice Files

You need to install the practice files in the correct location on your hard disk before you can use them in the exercises. The default location for the practice files used throughout this book is Documents\Microsoft Press\SPF_SBS.

Important If you install the practice files to a location other than the default, you will need to substitute that path in the instructions for the exercises.
To install the practice files to their default location, follow these steps:

1. On the Windows taskbar, click the Start button, and then click Documents. Windows Explorer opens.

2. In your Documents folder, create a new folder by right-clicking and selecting New – Folder. Name the new folder Microsoft Press. However, if the Microsoft Press folder already exists, then skip to the next step.

3. Double-click the Microsoft Press folder to open it. In the Microsoft Press folder, create a new folder and name it SPF_SBS.


5. On the book’s catalog page, click the Practice Files link.

6. On the Practice Files page, click Download the practice files. The File Download dialog box opens.

7. In the File Download dialog box, click Save. The Save As dialog box opens.

8. In the Save As dialog box, choose Desktop, and then click Save.

9. Locate the file SharePointFoundation2010SBS.zip on your Desktop, right-click it, and select Extract All. The Extract Compressed (Zipped) Folders wizard starts.

10. Click Browse and navigate to the folder Documents\Microsoft Press\SPF_SBS that you created in steps 1–3.

11. Make sure that the option Show extracted files when complete is selected, and then click Extract. Windows Explorer opens.

12. In Windows Explorer, validate that the chapter-specific folders have been created under Documents\Microsoft Press\SPF_SBS and that the practice files have been extracted in the chapter-specific folders.

**CLEAN UP** Close the browser, and then close Windows Explorer.

**Using the Practice Files**

The practice files for this book are stored on your hard disk in chapter-specific subfolders under Documents\Microsoft Press\SPF_SBS. Each exercise in a chapter includes a paragraph that lists the files needed for that exercise and explains any preparations needed before you start working through the exercise.

Whenever possible, we start each chapter with a standard SharePoint Foundation Team site, which occasionally must be a top-level team site. If you follow all the exercises in
all the chapters in sequence, you do not have to start with a new Team site for every chapter. For most of the chapters, you can just use the same site throughout the book.

However, if you choose to do exercises independently and not in sequence, there are a couple of exercises that depend on other exercises performed earlier in the book. If this is the case, we will tell you where the prerequisite exercise is located in the book so that you can complete the prerequisite exercises. However, you may not want to do the prerequisite exercise, and this is where the starter WSP files will come in handy.

If you have sufficient rights, you can create a new practice site (see the following section titled “Using the WSP Templates”) from the chapter’s starter WSP file that is provided in the practice folder for the chapter. The starter WSP files contain lists, libraries, files, and pages that you will require during the exercises. The resulting child site will have the prerequisite exercises already completed for you where needed. For chapters that require the creation of a site based on the WSP file, we will tell you at the beginning of the chapter that you need to install the practice site from the starter WSP file for the chapter.

Exercises in some chapters use a subsite in addition to the standard Team site. If this is the case, the practice folder for the chapter contains a WSP file for the subsite.

Using the WSP Templates

To create a practice site for a chapter based on a starter WSP file, perform the following steps:

BE SURE TO verify that you have sufficient rights to upload to the site template gallery of a site collection. If in doubt, refer to the Appendix at the back of this book.

1. In the browser, open the top-level SharePoint site to which you would like to upload the WSP file. If prompted, type your user name and password, and click OK.
2. On the Site Actions menu, click Site Settings. The Site Settings page of the top-level site is displayed.
3. In the Galleries section, click Solutions. The Solution Gallery – Solutions page is displayed.
4. On the Solution Gallery – Solutions page, click the Solutions tab on the Ribbon, and then click the Upload Solution button. The Solution Gallery – Upload Solution dialog is displayed.
5. In the Solution Gallery – Upload Solution dialog, click the Browse button.
6. In the **Choose File to Upload** dialog box, navigate to the practice files folder `Documents\Microsoft Press\SPF_SBS\ChapterNN` (where `NN` is the chapter number), click the WSP file that you want to use to create the new site, and then click the **Open** button.

7. In the **Solution Gallery – Upload Solution** dialog, click **OK** to complete the upload.

   The **Solution Gallery – Activate Solution** dialog is displayed.

8. In the **Solution Gallery – Activate Solution** dialog, on the **View** tab, click **Activate**.

   The Solution Gallery – Solutions page is displayed. Validate that the practice site WSP file has been uploaded.

You can now create a new practice child site based upon the uploaded WSP template, as follows.

1. Browse to the SharePoint site that you’d like to be the parent of the new practice site.

2. On the **Site Actions** menu, click **New Site**. The Create dialog appears.

3. In the central pane of the **Create** dialog, click the **ChapterNN** starter site template that is now available, and then click **More Options**.

4. In the **Title** text box, type a logical name for the new site. You could simply provide the chapter number if you like, such as **Chapter09**.

5. Optionally, in the **Description** text box, type a description, such as **SharePoint SBS Chapter 9 Practice Site**.

6. In the **URL name** text box, repeat the same name that you typed in the **Title** text box.

7. You can leave all the other options as their default values. Click the **Create** button.

   The new practice site has been created and its home page is displayed.

**CLEAN UP**  Close the browser.

### Removing the WSP Templates

To remove the chapter starter WSP template from the Solution gallery, perform the following steps.

**BE SURE TO** verify that you have sufficient rights to delete WSPs from the Solution gallery of a site collection. If in doubt, refer to the Appendix at the back of this book.
1. In the browser, open the top-level SharePoint site where you previously uploaded the WSP files. If prompted, type your user name and password, and click OK.

2. On the Site Actions menu, click Site Settings. The Site Settings page is displayed.

3. In the Galleries section, click Solutions. The Solution Gallery – Solutions page is displayed.

4. On the Solution Gallery – Solutions page, hover the mouse over the template that you wish to remove, and click the arrow that appears on the right to display the context menu. On the context menu, click Deactivate.

The Solution Gallery – Deactivate Solution dialog appears.

5. In the Solution Gallery – Deactivate Solution dialog, on the View tab, click Deactivate.

6. On the Solution Gallery – Solutions page, once again hover the mouse over the template that you wish to remove, and click the arrow that appears on the right to display the context menu. On the context menu, click Delete. In the confirmation message box, click OK to complete the removal of the site template.

The Solution Gallery – Solutions page is displayed again. Verify that the practice site template has been removed.

7. Repeat steps 4–6 to remove each practice site template that you no longer require.

**CLEAN UP** Close the browser.

**Deleting a Practice Site**

If you created a practice site that you no longer require, you can delete it. Perform the following steps to delete a practice site.

**BE SURE TO** verify that you have sufficient rights to delete a site. If in doubt, see the Appendix at the back of this book.

1. In the browser, open the SharePoint site that you wish to delete. If prompted, type your user name and password, and click OK.

2. On the Site Actions menu, click Site Settings. The Site Settings page is displayed.

3. In the Site Actions section, click Delete this site. The Delete This Site confirmation page is displayed.

4. Click the Delete button to delete the site.

5. In the message box that appears, click OK to confirm the deletion of the site.
The site has been deleted.

CLEAN UP Close the browser.

Removing the Practice Files

After you have completed the exercises for this book, you can free up hard disk space by removing the practice files that were installed from the book’s catalog page. This process deletes the downloaded files, as well as the files that you might have created in the chapter-specific folders while working through the exercises. Follow these steps:

1. On the Windows taskbar, click the Start button, and then click Documents. Windows Explorer opens.
2. In the Documents folder, double-click the Microsoft Press folder to open it.
3. In the Microsoft Press folder, right-click the SPF_SBS folder and select Delete.
4. In the Delete Folder message box, click Yes to confirm that you would like to move this folder to the Recycle Bin.
5. If the Microsoft Press folder is not empty and contains practice files for other books, skip to the next step. However, if the Microsoft Press folder is empty, then delete it using instructions in steps 3–4 as a guide.
6. In Windows Explorer, navigate to the Desktop. Right-click the compressed folder SharePointFoundation2010SBS.zip and select Delete. In the Delete Folder message box, click Yes to confirm that you would like to move this folder to the Recycle Bin.

You have removed the practice files for this book.

CLEAN UP Close Windows Explorer.
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Chapter at a Glance

Locate your SharePoint site, page 3

Provide user name and password, page 4

Familiarize yourself with the SharePoint site home page, page 4

Start SharePoint Foundation Help, page 6
One of the most useful features that Microsoft SharePoint Foundation 2010 provides is libraries. Libraries are a great place to store documents, pictures, forms, or web pages. In the business world, being able to work with documents quickly and effectively is of paramount importance. In the previous chapter, you learned that lists provide an effective way to work with all types of data. SharePoint libraries function similarly for documents and forms, such as Microsoft Word documents. Using Microsoft SharePoint document libraries, you can filter and group documents, as well as view metadata for documents stored in the library.

In this chapter, you will learn how to work with libraries and their documents in SharePoint Foundation 2010. This chapter focuses on creating libraries, adding documents and pictures, and working with documents in document libraries. In Chapter 8,
“Working with Library Settings,” we will focus on modifying and configuring document libraries.

**Practice Files** Before you can complete the exercises in this chapter, you need to download the Chapter 5 practice files from the book’s catalog page to the following folder on your computer: Documents\Microsoft Press\SBS_SPF\Chapter05. See “Using the Practice Files” at the beginning of this book for more information.

**Important** Remember to use your SharePoint site location in place of http://wideworldimporters in the following exercises.

**Creating a Document Library**

A *library* is a location on a site where you can create, collect, update, and manage files with other team members. Each library displays a list of files and key information about the files, which helps people to use the files to work together. SharePoint’s information managing capabilities come through the document libraries and lists.

You can use *document libraries* to store your documents on a SharePoint site rather than on your local computer’s hard disk so that other employees can find and work with them more easily. Libraries are used to store files, whereas lists are used to store other types of content. Like lists, libraries contain metadata that allow you to filter, sort, and group items in the libraries easily.

When you create a new SharePoint site, a generic document library called Shared Documents is created. Because this library lacks a descriptive name, you should create new libraries for a particular business category or subject instead. In the examples used in this book, Bill Malone of Wide World Importers could create a document library for documents describing different types of art that the company carries, or one for company newsletters. You want to make sure that the name of a document library is descriptive and that each library has a specific topic to make it easier to find documents. Storing all documents together in the Shared Documents—or any other—document library defeats the purpose of using SharePoint sites to make information easier to locate.

In the following exercise, you will open your SharePoint site and create a new document library called Oak Furniture.

**SET UP** Open the SharePoint site in which you would like to create your document library. The exercise will use the http://wideworldimporters site, but you can use whatever site you want. If prompted, type your user name and password, and click OK.

**BE SURE TO** verify that you have sufficient rights to create a library in this site. If in doubt, see the Appendix at the back of this book.
1. From the **Site Actions** menu, select **New Document Library**.
   
   **Tip** Alternatively, you can select More Options from the Site Actions menu. Then, in the left pane of the Create dialog, under Filter By, click Library. Make sure the Document Library is selected, and then click More Options.

2. The **Create** dialog opens and displays the options for your new library. In the **Name** box, type the name that you want to give to the new document library, such as **Oak Furniture**.

3. In the **Description** box, type the description of the document library, such as **This document library contains descriptive information about individual pieces of oak furniture**.

4. In the **Document Version History** area, under **Create a version each time you edit a file in this document library?**, click **Yes**.

   Leave all other options on the page at their default settings. You have entered all the necessary information to create a document library.

5. Click **Create**. The new Oak Furniture document library has been created and is displayed in the browser. The link to this library is shown on the Quick Launch.

**CLEAN UP** Leave the browser open if you are continuing to the next exercise.
Creating a New Document

After a library has been created, you can populate it with documents. In this section, you will create a new document from the SharePoint document library. The new document will use the default template for the library.

See Also For more information about templates in document libraries, refer to Chapter 8.

The new document can be created in the Word 2010 client application that is installed on your computer, or in the online Word Web App using the browser.

Tip Microsoft Office Web Apps should be installed and configured on your SharePoint Foundation server to enable creating and editing documents in online Microsoft Word, Excel, or PowerPoint Web Apps. These Office Web Apps can be used from any device where a browser is available, but they have less functionality in comparison with associated client applications.

In the following exercise, you will create a new document from the SharePoint document library.

SET UP Open the SharePoint site where you want to create a new document. If prompted, type your user name and password, and then click OK.

BE SURE TO verify that you have sufficient rights to create a document in this library. If in doubt, see the Appendix at the back of this book.

1. On the Quick Launch, click the Oak Furniture document library.

2. Click the Documents tab on the Ribbon, and then click New Document.

   Depending on your server settings, a new document will open either in the browser or in Word. If a new document opens in the browser, skip to step 7. Otherwise, continue to the next step.

3. A new document opens in Word. It is based on the default template for this SharePoint library called template.dotx. If a warning about this template appears in the Open Document message box, click OK to confirm that you want to proceed with opening a new file based on this template.
4. If prompted, provide your user name and password. Word opens. In the new document, type some text, such as Oak Mirror.

5. Click the File tab and then click Save to save the document to the Oak Furniture document library.

6. The Save As dialog box opens. Note that Location points to the Oak Furniture document library. Enter OakMirror as the name of your new document, and then click Save.

7. The browser opens an empty document based on the library’s default template in the Word Web App. If prompted, provide your user name and password. The Word Web App interface is similar to Word’s interface, and you can perform many light editing tasks in the Word Web App. In the new document, type some text, such as Oak Mirror.
8. Click the **File** tab and then click **Save** to save the document to the **Oak Furniture** document library. The Oak Furniture library is displayed.

9. Validate that OakMirror.docx is listed in the Oak Furniture library. There is a **New** flag next to the document, indicating that this document is a new addition to this library.

**CLEAN UP** Close the browser and then close Word.

**Editing Documents**

Once documents are placed in the library, you can search and filter them to make it easier to find what you are looking for, as well as collaborate with others to help develop the final version of the document. You will find at times that you have a need to edit a document in a SharePoint document library.

SharePoint allows you to edit documents in Office client applications, such as Word and Excel, or in the browser using Office Web Apps that provide online companions to Office client applications, such as Word Web App or Excel Web App. For in-browser editing to be available, Office Web Apps must be installed and configured on the SharePoint Foundation server.

In the following exercise, you will edit in Word the document called OakMirror.docx that was created in the previous exercise in the Oak Furniture library.

**SET UP** Open the SharePoint site where you’d like to edit a file in a document library. If prompted, type your user name and password, and then click **OK**.

**BE SURE TO** verify that you have sufficient rights to edit a document in this library. If in doubt, see the Appendix at the back of this book.
1. On the Quick Launch, click the **Oak Furniture** document library.

2. Hover your mouse over a document that you would like to edit, such as *OakMirror.docx*. An arrow appears to the right of the document name. Click the arrow to open a drop-down menu and select **Edit in Microsoft Word**.

3. The document opens in Word. If a warning about the template appears in the Open Document message box, click **OK** to confirm that you want to proceed.

4. In Word, make some changes to the document. For example, select the text “Oak Mirror” and make it bold and centered.

5. Click **File, Save** to save the document back to the **Oak Furniture** document library, and then click **Save** to confirm the file name.

6. Go back to the browser and validate that the document has been saved to the document library.

---

**CLEAN UP** Close Word. Leave the browser open if you are continuing to the next exercise.

---

When you’re on the move, it is often very useful to be able to edit your document within the browser, without needing the client application to be installed on the device that you’re using. In the following exercise, you will modify the OakMirror.docx document using in-browser editing in the Word Web App.

---

**SET UP** Open the SharePoint site where you’d like to edit a file in a document library, if it is not already open. If prompted, type your user name and password, and then click **OK**.

**BE SURE TO** verify that you have sufficient rights to edit a document in this library. If in doubt, see the Appendix at the back of this book.

1. On the Quick Launch, click the **Oak Furniture** document library.

2. Hover your mouse over a document that you would like to edit, such as *OakMirror.docx*. An arrow appears to the right of the document name. Click the arrow to open a drop-down menu and select **Edit in Browser**.

   **Troubleshooting** Office Web Apps must be installed and configured on your SharePoint Foundation server to enable in-browser editing. If the Edit In Browser option is not shown on the drop-down menu, it means that Office Web Apps have not been installed and activated in your environment. You will not be able to complete this exercise.

3. The document opens in the Word Web App in the browser. Make some changes to the document. For example, select the text “Oak Mirror” and make it italicized.

4. Click the **File** tab and then click **Save** to save the document back to the **Oak Furniture** document library.
validate that the newly edited document has been saved to the document library by checking its time stamp.

**CLEAN UP** Close the browser.

## Adding Documents

Document libraries give you the ability to keep track of new versions of a document as it is modified and revert to older versions if necessary. First, you need to ensure that your documents are uploaded to and available in the SharePoint library.

There are several ways to add documents to a document library, including the following:

- Use the browser to upload documents to the library via the SharePoint interface.
- Use Windows Explorer to copy or move documents into the library.
- Use a SharePoint Workspace to upload the documents stored offline.

You can also add a document to an email-enabled document library by sending it as an attachment to an email.

In this section, you will practice the first two methods: using the browser and using Windows Explorer. Later in this chapter, you will use the SharePoint Workspace to add a document to the library as well. We will cover email-enabling a library in Chapter 8.

You will now add documents to the library using a browser. In the following exercise, you will upload two new furniture descriptions to the Oak Furniture library.

**Practice Files** You will use the practice files OakDesk.docx and OakChest.docx, located in the Documents\Microsoft Press\SBS_SPF\Chapter05 folder.

**SET UP** Open the SharePoint site where you’d like to upload a file to a document library. If prompted, type your user name and password, and then click OK.

**BE SURE TO** verify that you have sufficient rights to add a document in this library. If in doubt, see the Appendix at the back of this book.

1. On the Quick Launch, click the Oak Furniture document library.

2. In the Oak Furniture document library, click the Add document link. The Oak Furniture - Upload Document dialog appears.
3. Click **Browse**.
   
   **Tip** To upload multiple documents from the same location at the same time, click **Upload Multiple Files**. In this exercise, you’ll upload a single document.

4. In the **Choose File to Upload** dialog, browse to the file that you would like to upload, such as *OakChest.docx*, select it, and then click **Open**.

5. In the **Upload Document** dialog, type a comment in the **Version Comments** text box stating that this is a new document for this library, such as **Initial upload of new document**.
6. Click **OK** to confirm the upload and return to the **Oak Furniture** library.

![Image of SharePoint library with Oak Furniture documents]

7. Repeat steps 2–6 for the **OakDesk.docx** file. You have added two documents to the library using the browser.

Another way to add a document to the library is via Windows Explorer. In the following exercise, you will copy a document to the SharePoint library by using the Explorer view of the Oak Furniture document library.

**Practice Files** You will use the practice files OakEndTable.docx and OakNightStand.docx, located in the Documents\Microsoft Press\SBS_SPF\Chapter05 folder.

### SET UP
Open the SharePoint site where you’d like to add files to a document library. If prompted, type your user name and password, and then click **OK**.

**BE SURE TO** verify that you have sufficient rights to add a document in this library. If in doubt, see the Appendix at the back of this book.

1. On the Quick Launch, click the **Oak Furniture** document library.

2. Click the **Library** tab on the Ribbon and then click **Open with Explorer**. The library content is displayed in Explorer view.
3. Open a new Windows Explorer window and navigate to the folder on the file system where the documents are stored that you want to copy to the library, such as Documents\Microsoft Press\SBS_SPF\Chapter05.

4. Select the files titled OakNightStand.docx and OakEndTable.docx by clicking the first file and then holding down the CTRL key and clicking the second file.

5. Right-click in Windows Explorer and select Copy, or press CTRL+C on the keyboard.

   **Tip** You can also drag files between Windows Explorer and SharePoint library in Explorer view to copy them.

6. Go back to the Explorer view of the Oak Furniture library. In the Explorer window that shows files in the Oak Furniture library, right-click and select Paste, or press CTRL+V on the keyboard, to add the files to the library.
Go back to the browser where the **Oak Furniture** library is displayed and verify that **OakNightStand.docx** and **OakEndTable.docx** are shown. You might need to refresh the page to see the new files.

**CLEAN UP** Close the browser and then close the two Windows Explorer windows.

### Creating a Picture Library and Adding Pictures

A **picture library** is used to share a collection of pictures. Although picture files can be stored in other types of SharePoint libraries (such as document libraries), picture libraries are designed especially for storing image file types and therefore have several advantages. For example, from a picture library, you can view pictures in a slideshow, download pictures to your computer, and edit pictures with graphics programs that are compatible with SharePoint.

Picture libraries work in the same way as document libraries, except that they are geared to storing the image file types. The picture library provides special views for looking at all the pictures in the library as a slideshow. It also provides enhanced features for editing and downloading pictures by integrating with Microsoft Picture Manager.

In this exercise, you will create a picture library for storing photographs of employees.

**SET UP** Open the SharePoint site where you’d like to create a picture library. If prompted, type your user name and password, and then click OK.
BE SURE TO verify that you have sufficient rights to create a library in this site. If in doubt, see the Appendix at the back of this book.

1. On the Site Actions menu, click More Options.
2. In the Create dialog, in the left pane, under Filter By, click Library.

3. Select Picture Library, and then click More Options.
4. In the Create dialog, in the Name box, type Employee Photos.
5. In the Description box, type Contains photographs of each employee.

Leave all other options on the page at their default settings. You have entered all the necessary information to create a picture library.

6. Click Create.

The picture library is created, and a new Employee Photos picture library is displayed in the browser.

After the new library has been created, you can add pictures to it. Adding pictures to a picture library is like adding documents to a document library. In the following exercise, you will add an employee picture to the Employee Photos document library using the browser.
**SET UP** Open the SharePoint site where you’d like to upload a picture to a picture library. If prompted, type your user name and password, and then click OK.

**BE SURE TO** verify that you have sufficient rights to add a picture to this library. If in doubt, see the Appendix at the back of this book.

1. On the Quick Launch, click the **Employees Photos** picture library. The Employee Photos picture library is displayed.

2. On the menu bar, click **Upload**, and then select **Upload Picture**.

3. The **Employee Photos - Select Pictures** dialog appears. Click **Browse**.

4. In the **Choose File to Upload** dialog, browse to the file that you would like to upload, such as **pjcov.jpg**, and then click **Open**.

5. Click **OK** to confirm the selection and upload of the picture. The Employee Photos: pjcov dialog appears.

This page is used to provide metadata for the picture, including Name, Title, Date Picture Taken, Description, and Keywords.
6. Fill in the metadata if needed (Title, Date Picture Taken, Description, and Keywords), and then click **Save**.

The picture has been uploaded, and you are taken back to the Employee Photos picture library.

**CLEAN UP** Close the browser.

### Creating a Form Library

**Form libraries** function similarly to document libraries, but they store specific types of documents—forms—and have enhanced integration with Microsoft InfoPath, such as allowing you to create form libraries from InfoPath. Chapter 15, “Using SharePoint Foundation with InfoPath 2010,” discusses in detail how SharePoint Foundation and InfoPath work together.

Forms are a more structured type of information than documents. They contain a set of fields that are filled out in a uniform manner. Form libraries are excellent repositories for structured documents, such as purchase orders or vacation requests. To obtain the full benefit of form libraries, you must use InfoPath for designing and filling out forms.

The following exercise walks you through creating a new form library by using SharePoint Foundation. You will open the SharePoint site and create a new form library called Purchase Orders. You will then associate a Purchase Order form template with that
library so that when someone fills out the form, they are presented with the standard Purchase Order form.

Note that this is a long series of steps to perform, so keep in mind that you will be accomplishing the following tasks:

- Creating a new form library
- Associating a new form template with the form library
- Setting this form template as the primary form that is invoked when the New Document command is invoked

Practice Files You will use the practice file WideWorldPurchaseOrder.xsn, located in the Documents\Microsoft Press\SBS_SPF\Chapter05 folder.

SET UP Open the SharePoint site where you’d like to create a form library. If prompted, type your user name and password, and then click OK.

BE SURE TO verify that you have sufficient rights to create a form library and modify a content type on this site. If in doubt, see the Appendix at the back of this book.

1. On the Site Actions menu, click More Options to display the list and library templates in the Create dialog.

2. In the left pane, under Filter By, click Library. Select Form Library and then click More Options.

3. In the Name box, type Purchase Orders.

4. In the Description box, type Contains purchase orders.

You have now entered all the necessary information to create a form library.

5. Click Create.

The form library is created, and you are taken to the new Purchase Orders form library page. At this point, if you click New Document on the Document tab on the Ribbon, you will be presented with a blank form. You still need to associate a necessary form template with the newly created library. To associate a form template with a form library, it is necessary to create a new content type as the default selection when the New Document button is clicked.

6. On the Site Actions menu, click Site Settings.

7. Under Galleries, click the Site Content Types link. The Site Content Types page appears.

8. On the top of the page, click Create.

9. On the New Site Content Type page, in the Name box, type Purchase Order.
10. From the Select Parent Content Type From: drop-down list, select Document Content Types.

11. From the Parent Content Type: drop-down list, select Form. Leave the rest of the page at the default settings.

12. Click OK. The Site Content Types-Purchase Orders page appears.


14. Select the Upload a New Document Template option.

15. Click Browse and navigate to the new form template, such as WideWorldPurchaseOrder.xsn.

16. Click Open to upload the template.

17. On the Site Content Types-Purchase Orders-Advanced Settings page, click OK. You are taken to the Site Content Type-Purchase Orders page.

18. On the Quick Launch, click the Purchase Orders form library.

19. On the Purchase Orders library page, under Library Tools, click the Library tab on the Ribbon.

20. Click the Library Settings button on the Ribbon. The Purchase Orders-Form Library Settings page appears.

22. In the **Content Types** area, under **Allow management of content types?**, select **Yes**.

<table>
<thead>
<tr>
<th>Content Types</th>
<th>Allow management of content types?</th>
</tr>
</thead>
<tbody>
<tr>
<td>Specify whether to allow the management of content types on this form library. Each content type will appear on the new button and can have a unique set of columns, workflows and other behaviors.</td>
<td>![Yes] ![No]</td>
</tr>
</tbody>
</table>

23. Leave the rest of the page at the default settings, and then click **OK**.

24. On the **Purchase Orders-Form Library Settings** page, scroll down to the **Content Types** section. One content type, called **Form**, is associated with this form library.

25. Click **Add from existing site content types**. The Add Content Types page appears.

26. From the **Available Site Content Types** list, select the **Purchase Order** content type.

27. Click **Add**, and then click **OK**.

28. On the **Purchase Orders-Form Library Settings** page, in the **Content Types** section, click the **Change new button order and default content type** link.

29. On the **Position from Top** drop-down list, ensure that the **Purchase Order** content type is assigned the number one (1), and then click **OK**.

<table>
<thead>
<tr>
<th>Content Type Order</th>
<th>Visible</th>
<th>Content Type</th>
<th>Position from Top</th>
</tr>
</thead>
<tbody>
<tr>
<td>Content types not marked as visible will not appear on the new button.</td>
<td>![✓]</td>
<td>Form</td>
<td>![2]</td>
</tr>
<tr>
<td>![✓]</td>
<td>Purchase Order</td>
<td>![1]</td>
<td></td>
</tr>
</tbody>
</table>

30. On the Quick Launch, click **Purchase Orders**. On the **Purchase Orders** library page, click the **Documents** tab, and then click the **New Document** button on the Ribbon.

This action invokes InfoPath 2010 (if it is installed on your computer), and the default Wide World Importers Purchase Order form appears.

**CLEAN UP** Close the browser and InfoPath 2010.
Creating a Wiki Page Library

A wiki is a website containing wiki web pages that enable users to collect team knowledge, plan events, or work on projects together. Wikis are a way for many members of the community to come together and edit content collaboratively.

The very first wiki (pronounced wee-kee) site, WikiWikiWeb, was created for the Portland Pattern Repository in 1995 by Ward Cunningham, who devised a system that created web pages quickly and allowed users to create and edit web page content freely by using a web browser, as well as allowing users to create an interconnected collection of wiki pages. Wiki is the Hawaiian word for quick, and as Hawaiian words are doubled for emphasis, wikipedi means very quick. WikiWikiWeb is the proper name of the concept, of which wiki and wikis are abbreviations.

Tip One wiki implementation is Wikipedia, from Wikimedia Foundation Inc. (http://www.wikipedia.org), which is an encyclopedia-like website that has inherited many of the nonencycopedic properties of a wiki site.

Wiki page libraries can be created and used on any site in SharePoint Foundation 2010. We will look at creating wiki pages in detail in Chapter 6, “Working with Web Pages.”

In the following exercise, you will create a wiki page library where employees can create and modify their own wiki pages.

SET UP Open the SharePoint site where you’d like to create a wiki page library. If prompted, type your user name and password, and then click OK.

BE SURE TO verify that you have sufficient permissions to create a library on this site. If in doubt, see the Appendix at the back of this book.

1. On the Site Actions menu, click More Options to display the list and library templates in the Create dialog.

2. In the left pane, under Filter By, click Library.

3. Select Wiki Page Library and then click More Options. The Create dialog appears.

   Tip There is no restriction on the number of copies of any library type that you can create in a site. You can create as many wiki page libraries as you like.

4. In the Name box, type Employee Wiki.

5. In the Description box, type Contains wiki pages created by company employees.

   You have entered all the necessary information to create a wiki page library.
6. Click Create. Your new wiki page library has been created and is displayed in the browser.

CLEAN UP  Close the browser.

Creating a New Folder in a Library

Using folders provides a common way to organize documents in an efficient way. SharePoint 2010 allows you to create folders in a library.

Tip SharePoint Foundation 2010 provides other mechanisms for organizing your documents, such as views and filters. However, people often are most familiar with folders, and thus they may find it easier to create a folder structure.

In this exercise, you will create a folder for documents classified as In Progress so that they can be differentiated from completed documents.

SET UP  Open the SharePoint site where you’d like to add a folder to a document library. If prompted, type your user name and password, and then click OK.

BE SURE TO  verify that you have sufficient permissions to create a folder in the document library. If in doubt, see the Appendix at the back of this book.

1. On the Quick Launch, click Oak Furniture. The Oak Furniture document library appears.
2. Click the **Document** tab on the Ribbon, and then click **New Folder**. The **New Folder** dialog appears.

3. In the **Name** box, type the name of the folder that you would like to create, such as **In Progress**.

4. Click **Save**.

The updated Oak Furniture page appears, with the In Progress folder added to the page.

---

**CLEAN UP** Close the browser.

---

**Checking Documents In and Out**

One of the features provided by SharePoint Foundation 2010 is basic document management. **Checking out** and **checking in** a document allows you to work on a document exclusively, while letting others know that you are editing this document so that they don’t try to change it at the same time. When a document is checked out, other users will not be able to open this document for editing, so your changes will not get
overwritten. When you are checking in a document, you can also enter comments about what you’ve changed that others can then view.

When you check out a file, you lock the file for editing to prevent other users from editing the file at the same time. When you have finished editing the file, you check the file back in, allowing other users to edit the file.

In the following exercise, you will check out a document from a document library, and then check it back in and change the comments to reflect that this is the final version of the document.

**SET UP** Open the SharePoint site where you’d like to check in or check out a document. If prompted, type your user name and password, and then click OK.

**BE SURE TO** verify that you have sufficient permissions to the document library to check out and check in documents. If in doubt, see the Appendix at the back of this book.

1. On the Quick Launch, click **Oak Furniture**. The Oak Furniture document library appears.

2. Hover your mouse over a document that you would like to check out, such as **OakChest.docx**. A check box appears to the left of the document name. Click the check box to select the document.

3. Click **Check Out** on the **Documents** tab on the Ribbon.

4. Click **OK** in the confirmation message box that appears.
Checking Documents In and Out

The document now has been checked out. The file icon in the Type column has changed and shows a green, downward-pointing arrow, indicating that the document is checked out.

Hover the mouse over this icon. A tooltip is displayed, showing who has checked out the document (you, in this case). This is useful to know when you want to edit a document that is checked out to another user. For example, you can contact that person and ask him or her to check the document back in.

See Also With appropriate permissions, it is possible to enforce the check-in of a document that has been checked out by another user. For more information, refer to Chapter 8.

When you have a document checked out, no one else can change it, and no one else can see the changes you’ve made while you have it checked out.

You will now check the document back in.

5. In the browser window, select the document **OakChest.docx** (see step 2 for instructions on doing that, if necessary).

6. Click **Check in** on the **Documents** tab on the Ribbon. The Check In dialog appears.

7. In the **Check In** dialog, in the **Comments** box, type **This is the final version of this document.**
8. Click **OK** to check the document in and return to the **Oak Furniture** document library. The document now has been checked in, and its icon no longer shows a green arrow.

**CLEAN UP**  Close the browser.

### Working with Version History

When *versioning* is enabled, SharePoint Foundation 2010 creates a separate copy of the document each time that it is edited. Although this takes up extra space on the server, it also makes it easy to revert to an older version of the document if necessary.

You can keep major versions only, or major and minor versions. Major versions have whole numbers such as 1, 2, 3, and so on. Minor versions have decimal numbers such as 1.1, 1.2, 1.3, and so on. A major version number is associated with a version that has been published (in other words, with the version that is available in the library). A minor version number is associated with a version that is in progress but is not yet published.

*See Also*  A more in-depth discussion of versioning will be covered in Chapter 8.

When you view a document’s version history, you see a list of the occasions when this document was edited and saved, as well as the author’s comments on those changes.

In the following exercise, you will see what changes have been made to the OakChest.docx document and then revert to the final copy of the document.

**SET UP**  Open the SharePoint site where you’d like to see the version history for a document. If prompted, type your user name and password, and then click **OK**.

**BE SURE TO**  verify that you have sufficient permissions to the document library to check out, modify, and check in documents. If in doubt, see the Appendix at the back of this book.

1. On the Quick Launch, click **Oak Furniture**. The Oak Furniture document library appears.

2. Hover your mouse over a document that you would like to check out, such as OakChest.docx. A check box appears to the left of the document name. Click the check box to select the document.

3. On the **Documents** tab on the Ribbon, click **Version History**.
You are taken to the Version History dialog, which shows the versions saved for the OakChest.docx page. Each version of the saved document, the date and time that version was created, and any comments for the version appear.

4. Hover the mouse over the time stamp in the Modified column that identifies an earlier version of the document, and then click the arrow that appears on the right of the time stamp.

5. On the drop-down menu, click Restore.

6. A message box appears, indicating that you are about to replace the current version with the selected version. Click OK.

Tip If minor versioning is enabled, then there is now an additional, unpublished version. SharePoint Foundation 2010 actually copies the version that you want to restore and makes it the newest minor version. If you want to publish this version, you need to do so manually, using the Publish button on the Ribbon.

**CLEAN UP**  Close the browser.

**Using Alerts**

One of the most difficult obstacles encountered in the business world is knowing when information changes. SharePoint Foundation 2010 can help address this problem by allowing you to subscribe to an alert. When a document to which you subscribe changes, you receive a message stating that the document has changed.
Alerts are a great way for users to be notified when a document is changed or deleted. Users can specify if they want to receive the alert notification via email or as a text message (SMS). Users can also specify if they want to be notified immediately or receive a summary alert on either a weekly or monthly basis.

For example, you (Bill Malone, in this example) may want to know when the OakChest.docx document is updated. In the following exercise, you will set up an alert for this document and then receive an alert via email that it has been changed.

**SET UP** Your server has to be configured to send email messages. Otherwise, you will not be able to complete the steps in this exercise.

**SET UP** Open the SharePoint site where you’d like to set up an alert on a document. If prompted, type your user name and password, and then click OK.

**BE SURE TO** verify that you have sufficient permissions to create alerts. If in doubt, see the Appendix at the back of this book.

1. On the Quick Launch, click **Oak Furniture**. The Oak Furniture document library appears.

2. Select the document for which you would like an alert, such as **OakChest.docx**, by hovering the mouse over it and clicking the check box that appears to the left of the document. Click **View Properties** on the **Documents** tab on the Ribbon. The Oak Furniture - OakChest.docx dialog appears.

3. Click **Alert Me** in the **Actions** section.

4. The Oak Furniture: OakChest.docx - New Alert dialog appears. You are given several options about the frequency of alerts, as well as when you want to be alerted. Retain the default values for this exercise and click **OK**.

   **Important** If your server is not configured to send outgoing email, an error message will appear and you will be unable to complete step 4 of this exercise.

   You are returned to the Oak Furniture document library.

5. You will now modify the document, and then you will receive an alert that this document has been modified. Click the check box to the left of the **OakChest.docx** document to select it, and then, on the **Documents** tab on the Ribbon, click
Check Out, and then click OK in the message box that appears. Click the arrow to the right of the document name, and then select Edit in Microsoft Word from the drop-down menu.

6. The document opens in Word. If a warning about the template appears in the Open Document message box, click OK to confirm that you want to proceed.

7. Make some changes to the document. For example, make some text bold.

8. On the File tab, click Save to save the document back to the document library, and then click Exit to close Word.

9. Word prompts you to check in your document. Click OK.

10. Open Outlook. You should receive two email messages. The first message indicates that an alert was created successfully. The second message indicates that OakChest.docx has been modified.

CLEAN UP Close the browser, and then close Outlook.

Deleting and Restoring Documents

Documents accumulate over time, and you eventually need to delete the ones that are no longer needed. In this exercise, you will delete a document that is no longer in use.

The Recycle Bin provides a safety net when deleting documents, document sets, list items, lists, folders, and files. When you or other site members delete any of these items, the items are placed in the Recycle Bin instead of immediately being deleted permanently. Items remain in the Recycle Bin until you decide to delete them permanently from your site or until the items are deleted permanently after a set number of days, which is based on a schedule defined in SharePoint Central Administration. The default is 30 days.

If you click Recycle Bin in the left navigation pane, you can see all the items that you have deleted from your site. You can either restore or delete each item from the Recycle Bin. When you delete an item from the site Recycle Bin, the item is sent to the Site Collection Recycle Bin. Note that to retrieve items from the Site Collection Recycle Bin, you must contact the Site Collection Administrator.
In the following exercise, you will delete a document from the Oak Furniture library and then restore it from the site Recycle Bin.

**SET UP** Open the SharePoint site where you’d like to delete a document. If prompted, type your user name and password, and then click OK.

**BE SURE TO** verify that you have sufficient permissions to delete a document in the document library. If in doubt, see the Appendix at the back of this book.

1. On the Quick Launch, click **Oak Furniture**. The Oak Furniture document library appears.

2. Select the document that you would like to delete, such as **OakChest.docx**, by clicking the check box to the left of the document.

3. On the **Documents** tab on the Ribbon, click **Delete Document**.

4. In the message box that asks whether you are sure that you want to delete the document, click **OK**. The document is deleted from the library and placed into the site Recycle Bin.

5. To recover your document, click **Recycle Bin** in the left navigation pane.

6. In the Recycle Bin, select the **OakChest.docx** document by clicking the check box next to it, and then click the **Restore Selection** link. Click **OK** in the message box to confirm that you want to restore the document.

7. Go back to the **Oak Furniture** library and verify that the **OakChest.docx** document has been restored and is listed on the library page.

**CLEAN UP** Close the browser.

### Working Offline with SharePoint Workspace

For mobile users, it’s not always possible or convenient to connect to SharePoint every time they want to read or modify a document. SharePoint Foundation 2010 provides the ability to work with documents offline. We will look into two ways of taking your documents offline. The first way is to synchronize your documents with a SharePoint Workspace. The second way is to copy the documents to your Outlook client.

**SharePoint Workspace** allows mobile users to download SharePoint content to their local machine to work offline. This can be either an entire SharePoint site or a subset of a site defined by the user. You can synchronize various lists and libraries from different sites to the same Workspace.
When working offline, you can view and modify the content in the same way that you can when working in SharePoint. When connected back to the network, you can synchronize your changes back to SharePoint, either automatically or manually.

SharePoint Workspace also includes additional functionality to help you keep track of documents, such as notification icons to show which documents you have read and which ones have been modified recently.

**Tip** There are limits on the number of files and the size of each SharePoint Workspace. Each Workspace is limited to approximately 500 files and a maximum size of 2 gigabytes (GB). You cannot store more than 1,800 files in all your SharePoint Workspaces.

In this exercise, you will create an account and then synchronize documents to a SharePoint Workspace. You need to create an account only once on the first use of the SharePoint Workspace with the server.

**SET UP** Open the SharePoint site that you want to synchronize to SharePoint Workspace. If prompted, type your user name and password, and then click OK.

**BE SURE TO** verify that you have sufficient permissions to synchronize to SharePoint Workspace. If in doubt, see the Appendix at the back of this book.

1. On the Quick Launch, click the **Oak Furniture** library. On the **Library** tab on the Ribbon, in the **Connect & Export** section, click **Sync to SharePoint Workspace**.

2. The Account Configuration Wizard is displayed.

**Tip** If the Account Configuration Wizard does not open, an indicator will be flashing on the taskbar.
3. Leave the default option, Create a new account, selected and click Next.

4. Enter the appropriate information in the Name and E-mail Address boxes.

5. Click Finish. If prompted, provide your user name and password and then click OK. You will see the following dialog, indicating that the account is being created.

6. In the Sync to SharePoint Workspace message box that appears, click OK.

7. A dialog appears, indicating that the Workspace is ready. Steps that have been completed are shown with a green check mark. Items that are not supported for offline editing are shown with an exclamation mark. Items that are available but have not been selected for download do not show any mark next to them. Click Open Workspace.
8. The Wide World Importers – Oak Furniture – Microsoft SharePoint Workspace window opens. You now have the Oak Furniture library and its contents available offline while you are not connected to the network. Click the Oak Furniture document library to see its contents.

9. Note that all files and folders from the Oak Furniture library are synchronized to the SharePoint Workspace client, which holds copies of its documents on your local hard disk. You can repeat these steps to connect to other SharePoint sites and synchronize their libraries and lists into a common Workspace.

**CLEAN UP** Close the browser, and then close SharePoint Workspace.

After documents have been modified offline, they need to be synchronized with the server. In this exercise, you will upload an offline document to the Oak Furniture document library using SharePoint Workspace. First, you will add the document to the library in the SharePoint Workspace, and then you will synchronize the library with the server.

**Practice Files** You will use the practice file WideWorldInvoice.docx, located in the Documents\Microsoft Press\SBS_SPF\Chapter05 folder.

**SET UP** Open the SharePoint site that you want to synchronize to SharePoint Workspace. If prompted, type your user name and password, and then click OK.

**BE SURE TO** verify that you have sufficient permissions to add a document to a library. If in doubt, see the Appendix at the back of this book.

1. Open SharePoint Workspace by clicking the Start button on your computer, and then selecting All Programs\Microsoft Office\Microsoft SharePoint Workspace 2010.
2. The **Wide World Importers** site that you synchronized in the previous exercise is shown under **Read**.

![Screen capture of SharePoint Workspace](image1.png)

3. Double-click **Wide World Importers** to open the content from this site that has been taken offline. The Oak Furniture library opens. Oak Furniture is currently the only library on the Wide World Importers site that you have synchronized to SharePoint Workplace, so it is the only library shown.

4. Click the **Home** tab, and then click **Add Documents** on the Ribbon to add a new document to the Oak Furniture library in the SharePoint Workspace.

5. In the **Add Files** dialog, navigate to the location **C:\Documents\Microsoft_Press\SBS_SPF\Chapter05**.
6. Select the document titled **WideWorldInvoice.docx**, and click **Open**. The document has been added to the Oak Furniture library in the SharePoint Workspace.

7. You will now synchronize the SharePoint Workspace with the SharePoint site. In the SharePoint Workspace, click the **Sync** tab on the Ribbon and then click **Sync Workspace**. The offline changes you made in the Oak Furniture library are synchronized with the live site.

8. In the browser, navigate to the **Oak Furniture** library and verify that the new file, **WideWorldInvoice.docx**, has been uploaded to the library on the SharePoint server.

CLEAN UP  Close the browser, and then close SharePoint Workspace.
Working Offline with Outlook

Another method of taking your documents offline is by using an Outlook client. The documents are emailed to you as attachments and placed into the SharePoint list in Outlook.

**SET UP** Open the SharePoint site where you’d like to copy documents offline. If prompted, type your user name and password, and then click OK.

**BE SURE TO** verify that you have sufficient permissions to the document library to check out, modify, and check in documents. If in doubt, see the Appendix at the back of this book.

In the following exercise, you will take documents offline by using Outlook.

1. On the Quick Launch, click the *Oak Furniture* library.
2. On the *Library* tab on the Ribbon, click *Connect to Outlook*.
3. A message box appears, asking whether you want to allow this website to open a program on your computer (Microsoft Outlook). Click *Allow*.

4. Outlook opens, and a SharePoint list is created in Outlook. The documents in the library are downloaded automatically into this new list as attachments to emails.
For more information on SharePoint Foundation integration with Outlook, refer to Chapter 13, “Using SharePoint Foundation with Outlook 2010.”

CLOSE UP Close the browser, and then close Outlook.

Key Points

- Libraries provide a central location to store documents, forms, and pictures so that they can be shared easily.
- You can create document libraries for specific topics and give them descriptive names.
- You can add existing documents to a document library in many ways, including by using the browser, using Windows Explorer, and using SharePoint Workspace.
- Remember to check out a document before you edit it.
- You can check in and check out documents by using Office suite applications.
- You can use versioning to manage the history of your documents in SharePoint.
- Set up alerts on documents when you want to know that a document has been changed or deleted.
- Deleted documents can be restored from the site Recycle Bin.
- You can take the documents in the SharePoint library offline in several ways, including using SharePoint Workspace and also Outlook.
Chapter at a Glance

- Edit a page, page 156
- Add a Web Part from the Web Part pane, page 168
- Change the layout of a page, page 159
- Create a new page, page 160
- Add a Web Part from the Web Part pane, page 168
6 Working with Web Pages

In this chapter, you will learn how to

✔ Edit a page.
✔ Change the layout of a page.
✔ Create a new page.
✔ Add links.
✔ Work with page history and versions.
✔ Use alerts.
✔ Add a Web Part from the Web Part pane.
✔ Remove a Web Part.
✔ Customize a Web Part by using the Web Part tool pane.
✔ Edit Web Part pages.
✔ Move Web Parts.

In Microsoft SharePoint Foundation 2010, a website is a collection of web pages. You will find this approach more natural than in Microsoft Windows SharePoint Services 3.0, where a site was seen as a container for list and library data and web pages were used to display data held in the lists and libraries. In Windows SharePoint Services 3.0, the addition of static text and images was possible only by adding the Content Editor Web Part.

In SharePoint Foundation, when you create a Team site, SharePoint creates a wiki page library, named Site Pages, where the web pages are stored and where the new pages can be created from the Site Actions menu. There are two types of web pages—wiki pages and Web Part pages. Wiki pages are the default pages at sites created from the Team, Blank, or Document Workspace site template. Both wiki pages and Web Part pages can contain Web Parts. Web Parts are reusable components that can contain any type of web-based information, including analytical, collaborative, and database information. Wiki pages consist of a mix of free-format static text and images in addition to Web Parts, whereas Web Part pages can contain only Web Parts. To include free-format static
text or images on a Web Part page, you must use the Content Editor Web Part or the Image Web Part.

Both types of pages are flexible and highly customizable using three types of tools:
- A browser
- A SharePoint Foundation–compatible web page editing tool, such as Microsoft SharePoint Designer 2010
- A professional development tool such as Microsoft Visual Studio 2010

No one tool can do everything, and therefore it is likely that in any deployment of SharePoint Foundation, all three tools will be used at some point.

This chapter introduces the basic concepts of wiki pages, Web Part pages, and Web Parts. Using the browser, you will learn how to view wiki pages and Web Part pages in different ways, as well as how to change the appearance of these pages by adding and removing static text and images and adding and removing Web Parts.

Practice Files Before you can complete the exercises in this chapter, you need to download the Chapter 6 practice files from the book’s catalog page to the following folder on your computer: Documents\Microsoft Press\SBS_SPF\Chapter06. See “Using the Practice Files” at the beginning of this book for more information.

Important Remember to use your SharePoint site location in place of http://wideworldimporters in the following exercises.

Editing a Page

On a Team site, blank site, or Document Workspace, the default web pages are wiki pages. They are stored in a SharePoint Foundation–based wiki library, named Site Pages.

The wiki library, Site Pages, inherits its permissions from the site. Therefore, anyone who is mapped to the Contribute permission level at the site level—that is, anyone who is a member of the site’s Members SharePoint group—is allowed to change any wiki page or create new pages, which is known as “open editing.” If a page is found to be incomplete or poorly organized, any member of the site can edit it as he or she sees fit. Therefore, as users share their information, knowledge, experience, ideas, and views, the content evolves. Site members can work together to change or update information without the need to send emails or attend meetings or conference calls. All users are allowed to control and check the content, because open editing relies on the assumption that most members of a collaboration site have good intentions.
When you edit a page, you should always check it out before you modify the content. This is to prevent other users in your team from editing the page at the same time.

**Tip** Wiki pages stored in a SharePoint Foundation–based wiki library can include static text, images, and Web Parts, without the need for Web Part zones.

In this exercise, you will edit the home page of a site.

### Practice Files
You will use the practice file pjcov.jpg, located in the Documents\Microsoft Press\SBS_SPF\Chapter06 folder.

### SET UP
Open the SharePoint Team site where you would like to edit the home page. The exercise will use the [http://wideworldimporters](http://wideworldimporters) site, but you can use whatever site you want. If prompted, type your user name and password, and then click OK.

**BE SURE TO** verify that you have sufficient rights to edit the home page of this site. If in doubt, see the Appendix at the back of this book.

1. Click the **Edit** icon that is displayed to the left of the **Browse** tab.

   The Editing Tools ribbon tabs—Format Text and Insert—are displayed on the right side of the Page tab, and the Ribbon is displayed above the two wiki page content areas. The Edit icon that was displayed to the left of the Browse tab is replaced with the Save & Close icon.

2. On the **Format Text** tab, click **Check Out** in the **Edit** group.

   A notification message briefly appears below the Ribbon and to the right, displaying the text “Page Checked Out,” and a yellow status bar appears below the Ribbon stating that the page is checked out and editable. On the Format Text tab, the Check Out command in the Edit group is replaced with the Check In command.
Tip  The Status bar and notification area are new to SharePoint 2010. Both give you contextual information. The Status bar displays persistent information and uses four predefined background colors to identify the level of importance of the information. Very important information has a red background, important information has a yellow background, success information has a green background, and all other information has a blue background.

3. Place the cursor to the left of the Welcome title. Press CTRL+A to select all the content in the left content area of the page, and then press DELETE.

The contents in the left area of the wiki page are deleted.

Tip  Other keyboard shortcuts can be found by placing the cursor above the commands on the Ribbon.

4. In the left content area, type Welcome to the Financial team site, and then press ENTER to move the cursor to a new line.

5. On the Format Text tab, click Styles, and then click Normal.

6. Type This web site is used by members of the Wide World Importers Financial team and allows us to share content and then press ENTER.

Tip  Start the home page of a Team site with an introduction that states its purpose. The first page in the Site Pages wiki library is labeled Home and should contain the context or any assumptions that will apply to all pages, as well as list or library content that is stored in the site. If you edit an existing wiki page, you should not place new content before the introduction, nor should the content necessarily be added to the bottom of the page. You should emphasize the flow of ideas, be concise, write factual information, and stay on topic for the page. Check for spelling and grammatical errors that can detract from the content. You might consider entering the text in Microsoft Word first, check it for spelling and grammar using the Spelling & Grammar feature of Word, and then paste it into the wiki content area.

7. Click the Insert tab, and then click Picture in the Media group.

The Select Picture dialog opens.
8. Click **Browse**, and then navigate to the **Chapter06** practice file folder. Click **pjcov.jpg** and then click **Open**.

9. Leave the default library where the image will be uploaded to **Site Assets**, and then click **OK**.

The Site Assets – pjcov.jpg dialog opens.

10. Click **Save** to upload the image and display the image on the page. The Design tab is displayed.

11. On the **Format Text** tab, click **Check In** in the **Edit** group.

The Check In dialog is displayed.

12. In the **Comments** box, type **Welcome message added to the page**, and then click **Continue**.

The page is saved, the Editing Tools ribbon tabs disappear, and the Save & Close icon to the left of the Browse tab is replaced with the Edit icon. The Browse tab becomes the active tab.

**CLEAN UP** Leave the browser open if you are continuing to the next exercise.

---

**Changing the Layout of a Page**

The home page of a Team site contains two content areas. You can change the number of content areas that a wiki page contains using the Format Text contextual ribbon and clicking the Text Layout command in the Layout group.

In this exercise, you will change the layout of your page.

---

**SET UP** Open the SharePoint site that you used in the previous exercise, if it is not already open.

**BE SURE TO** verify that you have sufficient rights to edit the home page of this site. If in doubt, see the Appendix at the back of this book.

1. Click **Site Actions**, and then click **Edit Page**.

2. On the **Format Text** tab, click **Text Layout** in the **Layout** group, and then click **Two columns with header and footer**.
Chapter 6 Working with Web Pages

The page redisplays and now contains four content areas.

3. Select **Welcome to the Financial team site**, and then, on the **Format Text** tab, click **Cut**.

4. Place the cursor in the top content area, and then, on the **Format Text** tab, click the down arrow on the **Paste** command and click **Paste plaintext**.

5. On the **Format Text** tab, click **Save & Close** in the **Edit** group.

**CLEAN UP** Leave the browser open if you are continuing to the next exercise.

Creating a New Page

Typically, pages are limited to no more than two or three screens of information. This enables the information on the page to be in an easily accessible and modifiable format. There are four methods that you can use to create a new page in a wiki page library:

- Create a forward link and then click it to create a page. This is the recommended method, because it is easier for people to find a page when another page is linked to it.
- The New Page command on the Site Actions menu.
- The All Pages view of the Site Pages library.
- The More Options command on the Site Actions menu.

In this exercise, you will create a wiki page by using these four methods.
SET UP  Open the SharePoint site that you used in the previous exercise, if it is not already open.

BE SURE TO verify that you have sufficient rights to create a page in this site. If in doubt, see the Appendix at the back of this book.

1. Click the Edit icon that is displayed to the left of the Browse tab.

2. In the top content area, place the cursor on a new line under Welcome and type WideWorldImporters are specialist importers of unique furniture ([[

A list of pages that exist in the Site Pages wiki library is displayed.

3. Type B.

A message appears that the Item does not exist—that is, there is no page in the Site Pages library with a name starting with the letter $B$.

4. Type edRoom]], [[OfficeFurniture]] and [[GardenFurniture]]) and then press ENTER.

5. Click Save & Close.

The home page is displayed with the words “BedRoom,” “OfficeFurniture,” and “GardenFurniture” shown as hyperlinks and underlined with a dotted line. By using double brackets on the edit form, you have created three linked pages. Linked pages do not have to exist, and such nonexistent pages are denoted by a dotted underline, as is the case with “BedRoom,” “OfficeFurniture,” and “GardenFurniture.”

Tip The naming convention for wiki pages, known as WikiWords or WikiNames, is to concatenate two or more words. Each word is composed of two or more letters, with no spaces between words. The first letter of each word is capitalized, and the remaining letters are lowercase. This formatting is known as Camel case. The wiki page name is used to form part of the Uniform Resource Locator (URL).
6. Click **BedRoom**. The New Page dialog is displayed.

   ![New Page dialog](image)

7. Click **Create**.

   The BedRoom page is displayed, and BedRoom appears in the list of Recently Modified pages in the left navigation pane.

8. Click **Site Actions**, and then click **New Page**.

   The New Page dialog is displayed.

   ![New Page dialog](image)

9. In the **New page name** box, type **KitchenFurniture** and then click **Create**.

   The KitchenFurniture page is displayed, and KitchenFurniture appears in the list of Recently Modified pages in the left navigation pane.

10. Click the **Page** tab, and then click **View All Pages** in the **Page Library** group. The Site Pages library is displayed in the All Pages view.

![View All Pages](image)

11. Click **Add new page**. The New Page dialog is displayed.

12. In the **New page name** box, type **Seating**, and then click **Create**.
The Seating page is displayed, and Seating appears under Recently Modified in the left navigation pane.

13. Click Site Actions, and then click More Options.

The Create dialog is displayed.


In the middle pane, the types of pages are shown—Page and Web Part Page, with Page selected.

15. Under Page in the right pane, type FloorCoverings, and then click Create.

The FloorCovering page is displayed, and FloorCoverings appears under Recently Modified in the left navigation pane.

CLEAN UP Leave the browser open if you are continuing to the next exercise.

Adding Links

In the previous section, you created a forward link to a page yet to be created by enclosing the name of the page in double square brackets on the edit form. In the following exercise, you will create a link to a page and have the link display text that is different from the page name. You will then use the Incoming Links feature to identify those pages that link to a wiki page before you delete the page.

Tip When you add content to a wiki page and suggest a topic that other contributors to the Team site may know the answer to, try to enter text on the page in the form of a forward link; that is, place text between double square brackets. Other contributors to the page can enter information by clicking the forward link and creating new pages.

In this exercise, you will add a forward link.
SET UP  Open the SharePoint site that you used in the previous exercise, if it is not already open. Be sure to complete the previous exercises in this chapter before beginning this exercise.

BE SURE TO  verify that you have sufficient rights to edit the home page in this site. If in doubt, see the Appendix at the back of this book.

1. On the Quick Launch, under Libraries, click Site Page, and then, in the Name column, click Home. The home page of the Team site appears.

2. Click the Edit icon that is displayed to the left of the Browse tab.

3. Place the cursor on a new line below WideWorldImporters. Type [[s, and then press TAB to select Seating, and then type | Seating Furniture]].
   Tip  To display double open or closed square brackets without making a link, type a backslash before the two brackets, such as \[[ or \]].

4. Click Close & Save.
   The words “Seating Furniture” are not underlined with dashes; therefore, this forward link points to the existing Seating page that you created in the previous exercise.

5. Click Seating Furniture. The Seating page is displayed.

6. Click the Page tab, and then click Incoming Links in the Page Actions group. The pages that link to the Seating page are listed; the home page is the only one listed here.

7. Click Home, and then click the Edit icon that is displayed to the left of the Browse tab.

8. In the content area, select [[Seating|Seating Furniture]], press DELETE, and then click Save & Close.

9. On the Quick Launch, under Libraries, click Site Pages, and then click Seating.

10. Click the Page tab, and then click Delete Page in the Manage group.
11. Click **OK** to send the page to the Recycle Bin.

**Important** If you do not delete the forward links to a page before you delete the page, the forward links are displayed with a dashed underline, identifying them as forward links to a nonexistent page—that is, a page that has yet to be created.

CLEAN UP  Leave the browser open if you are continuing to the next exercise.

### Working with Page History and Versions

A SharePoint Foundation–based wiki library has all the features of a document library, such as history and version management. Therefore, no amendments are lost. Major versioning is turned on by default when you create a wiki page library. You can also use content approval and workflow, as well as restrict the rights as to who can publish and edit pages.

In the following exercise, you will view the history of a page, observe the changes to the page, and then revert to the previous copy of the page.

**SET UP**  Open the SharePoint site that you used in the previous exercise, if it is not already open. Be sure to complete the previous exercises in this chapter before beginning this exercise.

**BE SURE TO**  verify that you have sufficient rights to manage pages in this site. If in doubt, see the Appendix at the back of this book.

1. Click the **Page** tab, and then click **Page History** in the **Manage** group.

You are taken to the History page of the home page. In the content area, deletions have a strikethrough red font, and additions have a green background color. In the left navigation pane, each version of the page is listed with the date and time that the version was created.
2. In the left navigation pane, in the **Compare with version** list, select **4.0**. The current version of the page is compared with version 4.0 of the page.

3. In the left navigation pane, under **Versions**, click **4.0**. The fourth version of the page is displayed.

4. Click **Restore this version**. A Message From Webpage dialog box appears.

5. Click **OK** to replace the current version of the wiki page with the selected version. The home page is displayed. A yellow status bar appears, stating that the current page has been customized from its template. This can occur when you restore a previous version of a page using the browser or when using a program such as SharePoint Designer 2010.

**See Also** To learn more about customized pages, see Chapter 1, “Exploring SharePoint Designer 2010” in *Microsoft SharePoint Designer 2010 Step by Step* by Penelope Coventry (Microsoft Press, 2010).

Using Alerts

One of the most difficult obstacles encountered in the business world is knowing when information changes. SharePoint Foundation can help with this problem by enabling you to subscribe to an alert. When a web page to which you subscribe undergoes changes, you will receive an email message stating that the page has changed.

In the following exercise, you will set up an alert for a page and then receive an alert that it has been changed. You will then remove the alert.

**SET UP**
Open the SharePoint site you used in the previous exercise, if it is not already open.

**BE SURE TO** verify that you have sufficient rights to create alerts and edit the home page in this site. If in doubt, see the Appendix at the back of this book.

1. Click the Page tab. Click Alert Me in the Share & Track group, and then, from the drop-down list, click Set an alert on this page.

   The Site Pages: Home.aspx – New Alert dialog appears. You are given several options on the frequency of alerts, as well as when to be alerted.

2. Retain the default values for this exercise and click OK.

   **Troubleshooting** If your server is not configured to send an email message, an Error page will appear. If this page appears, you cannot complete the rest of the steps in this section. Check with your server administrator before you proceed.

   You are returned to the home page of your Team site.

3. Click the Edit icon that is displayed to the left of the Browse tab.

4. Place the cursor in the content area to the left of the Welcome pane, press CTRL+A to select all the content in the top area, and then press DELETE.

   The contents of the header area are deleted.

   **Tip** Other keyboard shortcuts can be found by placing the cursor over the Ribbon commands on the Format Text tab.

5. Click Save & Close.

   After a few minutes, you should receive two email messages. The first message indicates that an alert was successfully created. The second message indicates that home.aspx has been modified.

**CLEAN UP** Leave the browser open if you are continuing to the next exercise.

7. Click **OK** to revert the page to its template.
6. Click the Page tab. Click Alert Me in the Share & Track group, and then, from the drop-down list, click Manage My Alerts.

The My Alerts On This Site page is displayed.

7. Click the check box to the left of Site Pages: Home.aspx, and then click Delete Selected Alerts.

8. Click OK to confirm the deletion of the selected alerts.

CLEAN UP Leave the browser open if you are continuing to the next exercise.

Adding a Web Part from the Web Part Pane

As you customize your site, you might decide to add information other than static text and images. This information may be stored in lists or libraries or in some other data source. You can do this by adding Web Parts. You can insert Web Parts on multiple pages and also insert a Web Part multiple times on the same web page. SharePoint Foundation provides built-in Web Parts for each website created. Two types of Web Parts are most commonly used via the browser:

- **XSLT List View (XLV) Web Parts** Web Parts that display the contents of lists and libraries. These Web Parts are displayed in the Lists and Libraries category. Each time that data in the list or library changes, the changes are reflected in the XLV Web Part. SharePoint Foundation introduced this new version of the List View Web Part (LVWP), which uses Extensible Stylesheet Language Transformation (XSLT) to define how to display the data from lists or libraries.

- **Built-in Web Parts** Web Parts that display other content. There are 13 built-in Web Parts displayed in five categories.

The 13 built-in Web Parts available on websites created from the Team site, Blank site, or Document Workspace template are summarized in the following table.
<table>
<thead>
<tr>
<th>Category</th>
<th>Web Part</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Content Rollup</td>
<td>Relevant Documents</td>
<td>Use this Web Part to display documents that are relevant to the current user. This Web Part generates a personalized view of documents checked out by, created by, or last modified by the current user. You can configure the Web Part to use more than one criterion. To improve the performance of the Relevant Documents Web Part in a large-scale document management environment, use Column indexing on the Modified By, Created By, or Checked Out By columns. Make sure that the Show Items From The Entire Site Collection check box is not selected when configuring the Web Part.</td>
</tr>
<tr>
<td>XML Viewer</td>
<td></td>
<td>Use this Web Part for Extensible Markup Language (XML) with Extensible Stylesheet Language (XSL) to define how the XML is displayed. You might use the XML Web Part to display structured data from database tables or queries as well as XML-based documents.</td>
</tr>
<tr>
<td>Forms</td>
<td>HTML Form Web Part</td>
<td>Use this Web Part if you want to send data to another Web Part via a Web Part connection. The content displayed in the other Web Part depends on the data that it receives.</td>
</tr>
<tr>
<td>Media and Content</td>
<td>Content Editor</td>
<td>Use this Web Part to add content to a Web Part page such as formatted text, tables, and images. This Web Part allows you to add content by using a Rich Text Editor or HyperText Markup Language (HTML) source editor. The HTML <code>&lt;FORM&gt;</code> element is not allowed in the Content Editor Web Part. If you need to add a Web Part that uses the <code>&lt;FORM&gt;</code> element, consider using the Page Viewer or Form Web Part.</td>
</tr>
<tr>
<td>Image Viewer</td>
<td></td>
<td>Use this Web Part to display pictures and photos. This Web Part is included by default on the home Web Part page of many sites to display a logo.</td>
</tr>
<tr>
<td>Page Viewer</td>
<td></td>
<td>Use this Web Part to display the content of a linked resource such as a website, web pages, files, or folders. In this way, you can display an entire web page within a Web Part. The linked content is isolated from other content on the web page, and hence the content is displayed asynchronously from the rest of the page. This means that you can view and use other content in other Web Parts on the page even if the link in this Web Part happens to take a long time to return its content. Also use this Web Part if you want to retrieve data from a server that requires authentication.</td>
</tr>
<tr>
<td>Category</td>
<td>Web Part</td>
<td>Description</td>
</tr>
<tr>
<td>------------------</td>
<td>------------------------</td>
<td>---------------------------------------------------------------------------------------------------------------------------------------------</td>
</tr>
<tr>
<td></td>
<td>Picture Library</td>
<td>Use this Web Part to display a slideshow of images and photos from a picture library. The images can be displayed in a random or sequential order, which you can configure using the Web Part tool pane.</td>
</tr>
<tr>
<td></td>
<td>Slideshow Web Part</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Silverlight Web Part</td>
<td>Use this Web Part to display a Silverlight application. Silverlight applications can be created using Visual Studio 2010 or Microsoft Expression Blend.</td>
</tr>
<tr>
<td>Social Collaboration</td>
<td>Site Users</td>
<td>Use this Web Part to view a list of the site users and their online status.</td>
</tr>
<tr>
<td></td>
<td>User Tasks</td>
<td>Use this Web Part to display tasks that are assigned to the current user.</td>
</tr>
<tr>
<td></td>
<td>What’s New</td>
<td>Available on sites created from the Group Work Site template. Use this Web Part to show new information from specified lists and libraries, where the [Modified] column is configured as an Indexed column.</td>
</tr>
<tr>
<td></td>
<td>Whereabouts</td>
<td>Available on sites created from the Group Work Site template. Use this Web Part to display Whereabouts information.</td>
</tr>
<tr>
<td>SQL Server</td>
<td>SQL Server Reporting</td>
<td>Use this Web Part to view Microsoft SQL Server Reporting Services reports.</td>
</tr>
<tr>
<td>Reporting Services</td>
<td>Report Viewer</td>
<td></td>
</tr>
</tbody>
</table>

**Tip** In addition to built-in Web Parts, you can create your own Web Parts by using tools, such as SharePoint Designer and Visual Studio 2010. You can also import custom Web Parts.

SharePoint Designer allows you to add a Data Form Web Part (DFWP), also known as the Data View Web Part (DVWP). The DFWP is very similar to the XLV Web Part. Not only does it allow you to view data, but it can provide you with a form to enter data using XSLT. The DFWP can be used with a variety of data sources such as SQL Server databases, XML files, web and Representational State Transfer (REST) services, as well as data held in SharePoint lists and libraries. SharePoint Designer provides a “What You See Is What You Get” (WYSIWYG) XSLT editor to format the DFWP and XLV Web Parts. For example, you can create a DFWP or XLV Web Part that applies a style to a selected HTML tag or data values when the data meet specified criteria. If you use SharePoint Designer with the Furniture Sales list, you could highlight items when there are no units in stock.

In this exercise, you will customize the home page of a SharePoint site. You will add an XLV Web Part and restore a Web Part from the Web Part Page Gallery.

**SET UP** Open a SharePoint site that contains a list with data, for example, the Furniture Price list that is created in Chapter 14, “Using SharePoint Foundation with Excel 2010 and Access 2010.” Alternatively, you can create a practice site for this chapter based on the Chapter06_Starter.wsp site template located in the Documents \Microsoft Press\SBS_SPF\Chapter06 folder. See “Using the Practice Files” at the beginning of this book for more information.
BE SURE TO verify that you have sufficient rights to edit the home page in this site. If in doubt, see the Appendix at the back of this book.

1. Click the Edit icon that is displayed to the left of the Browse tab.

2. Place the cursor in the top content area, if it is not already there, and then click the Insert tab.

3. Click Existing List in the Web Parts group.

The Web Parts pane is displayed at the top of the page below the Ribbon. A Web Part for each list or library created for this site is displayed.

4. In the Web Parts pane, click the list that contains data, such as Furniture Price List, and then click Add.

A Loading dialog briefly appears, and then the Furniture Price List Web Part is added to the page.
5. Place the cursor in the top content area in front of the **Furniture Price List** Web Part, if it is not already there, and then, on the **Insert** tab, click **New List**. The Create List dialog appears.

6. In the **List Title** box, type **Financial Links**. Under **Tracking**, click **Links**, and then click **OK**. The Financial Links list is created, and a Financial Links Web Part is displayed on the page.

7. Place the cursor in the top content area, if it is not already there, and then, on the **Insert** tab, click **Web Part**. The Web Parts pane is displayed at the top of the page below the Ribbon.

8. Under **Categories**, click **Media and Content**, and then, under **Web Parts**, click **Picture Library Slideshow Web Part**.

9. Click **Add**. The Picture Library Slideshow Web Part is placed above the Furniture Price List Web Part.

10. On the **Page** tab, click **Save & Close**.

   **CLEAN UP** Leave the browser open if you are continuing to the next exercise.

### Removing a Web Part

When created, SharePoint sites can contain a number of libraries, lists, and one or more web pages that can contain one or more Web Parts. As you customize your site, you might decide that you do not need all the Web Parts on your pages and might want to remove them.

In this exercise, you will delete and close Web Parts to remove them from a website’s home page. You will then restore a closed Web Part.
Removing a Web Part

SET UP  Open a SharePoint Team site.

BE SURE TO  verify that you have sufficient rights to edit the home page in this site. If in doubt, see the Appendix at the back of this book.

1. Click the Edit icon that is displayed to the left of the Browse tab.

2. In the top content area, hover the mouse over the title of the Financial Links Web Part and select the check box that appears.


3. Click the Options tab in the Web Part Tools contextual tab set, and then click the Delete command in the State group.

4. Click OK to confirm that you wish to delete the Web Part permanently.

5. In the top content area, hover the mouse over the title of the Furniture Price List Web Part, click the down arrow that appears, and then click Close, which temporarily removes the Web Part from the page.

   The browser redisplay the page with only one Web Part—the Picture Library Slideshow Web Part.

6. Click the Insert tab, and then click Web Part in the Web Parts group.

   The Web Parts pane now includes a category Closed Web Parts, which holds Web Parts that are temporarily removed from a web page by using the Close option. Currently, the Closed Web Parts category contains only one Web Part—the Furniture Price XLV Web Part that you removed in step 5.

7. Under Categories, click Closed Web Parts, and then, under Web Parts, click Furniture Price List.

   The Furniture Price List Web Part is displayed on the page.

8. Click the Insert tab, and then click Web Part in the Web Parts group.

   Note that the Closed Web Parts category is not displayed now. This category is displayed only when your page contains closed Web Parts.
Note You can liken the Closed Web Parts category to the Recycle Bin; however, Web Parts are placed here only when the Close option is used. When the Delete option is used, the Web Part is permanently deleted from the page. Web Parts placed in other categories act like templates. Web Parts from the other categories can be placed on a web page multiple times. Once a Web Part is placed on a page, it can be uniquely customized, but the template from which the Web Part is created remains in the category displayed in the Web Part pane.

9. Click **Save & Close**.

CLEAN UP Leave the browser open if you are continuing to the next exercise.

Tip Web Parts can be badly written. If they are not tested thoroughly, you might find that a web page does not display when you add a Web Part to it. In such situations, append ?Contents=1 to the URL of the Web Part page, such as http://wideworldimporters/SitePages/home.aspx?contents=1. The Web Part Page Maintenance page is displayed, which can be used to delete the offending Web Part. The Web Part Page Maintenance page can be very useful in determining if a page has any closed Web Parts and can be used to delete any closed Web Parts quickly. Having closed Web Parts on a page can cause the browser to take some time to display the page, which can be very annoying to users who frequently visit the page.

## Customizing a Web Part by Using the Web Part Tool Pane

Once you add a Web Part to a web page, you might find that you have to customize it to display the content that you want visitors to your website to see. You might also have to tailor the Web Part’s properties for it to take on the look and feel that you want.

In the following exercise, you will customize the Picture Library Slideshow Web Part and a SharePoint XLV Web Part.

**SET UP** Open the SharePoint site that you used in the previous exercise, if it is not already open. Be sure to complete the previous exercise in this chapter before beginning this exercise.

**BE SURE TO** verify that you have sufficient rights to edit the home page in this site. If in doubt, see the Appendix at the back of this book.

1. Hover the mouse over the title bar of the **Picture Library Slideshow Web Part**, click the down arrow that appears, and then click **Edit Web Part**.

The Picture Library Slideshow Web Part tool pane is displayed to the right of the page.
2. From the **Picture Library** list, select the picture library whose images you wish to display in the Web Part, such as **Site_Pictures**, and then, under **Appearance** in the **Title** box, delete **Picture Library Slideshow Web Part** and type **Logos**.

3. In the **Chrome Type** drop-down list, click **None**, and then scroll to the bottom of the Web Part tool pane and click **OK**.

   Images from the chosen picture library are displayed at the top of the page, and the tool pane disappears. The title of the Web Part is not displayed.

   **Tip** When a Web Part title is not displayed, to customize the properties of a Web Part, display the page in Edit mode. The Web Part title is then visible. You can either use the Web Part menu to edit the Web Part or select the check box on the Web Part title and, on the Options tab in the contextual Web Part Tools tab set, use the Web Part Properties command in the Properties group to open the Web Part tool pane.

4. Place the cursor over the title bar of the **Furniture Price List** Web Part, click the down arrow that appears, and click **Edit Web Part**.

   The Furniture Price List Web Part tool pane is displayed.

5. In the **Furniture Price List** tool pane, below the **Selected View** list, click the **Edit the current view** link. The Edit View of the Furniture Price List page is displayed.
6. In the **Columns** area, clear the **Attachments**, **In Stock**, **Unit Price**, and **Total** check boxes.

**Tip**  In this exercise, you will display only Bianca furniture; therefore, you will use the Furniture Range column to filter data. When the filter is applied, in the XLV Web Part, the Furniture Range column always contains the text “Bianca.” Hence, you could choose not to display the Furniture Type column. However, when you first customize a view, it is good practice to leave the filter column, such as the Furniture Type column, in place so you can check that the filter is configured correctly.

7. Scroll down the page until the **Filter** area is visible. Select the **Show items only when the following is true** option.

8. On the **Show the items when column** list, click **Furniture Range**. In the **Value** box, type **Bianca**.

9. At the bottom of the page, click **OK**.

   Your web page is displayed. The Furniture Price List tool pane is no longer visible.

10. Place the cursor over the title bar of the **Furniture Price List** Web Part, click the down arrow that appears, and click **Edit Web Part**. The Furniture Price List tool pane is displayed.

11. Click the expand (+) icon to the left of **Appearance**, and then, in the **Title** text box, type **Sale – Bianca Furniture at half price**.

12. Click the expand (+) icon to the left of **Advanced** and clear the **Allow Minimize** check box.

13. At the bottom of the **Furniture Price List** tool pane, click **OK**.
14. Place the cursor over the title bar of the Sale – Bianca Furniture at half price Web Part, click the down arrow that appears, and notice that the Minimize option is no longer available.

CLEAN UP Leave the browser open if you are continuing to the next exercise.

**Editing Web Part Pages**

Web Part pages are the default type of page on sites such as group work sites, Meeting Workspaces, and blog sites. In addition, they are the type of pages used by lists and libraries to display their contents. Web Part pages consist only of Web Part zones. They do not contain wiki page content areas and, therefore, can contain only Web Parts. To add static text or images to a Web Part page, you must first add either the Content Editor Web Part or the Image Web Part, and then use the Web Part tool pane properties to add text or images.

**Tip** Using a tool such as SharePoint Designer, you can add Web Parts outside of Web Part zones on a Web Part page.

There are two versions of a Web Part page:

- **Shared Version** This version is the Web Part page that every user with the appropriate permissions on a site can view. To edit the Shared version of a Web Part page, place the page in Edit mode by using the Site Actions, Edit Page command.

- **Personal Version** This version of a Web Part page is available only to you and not to others. To edit the Personal version of a Web Part page, click the down arrow to the right of your name in the top corner of the page, and then click Personalize This Page. When you have a Personal view of a Web Part page, then it will be displayed by default when you first visit the page.

To customize the Shared version of any Web Part page for a list or library, you must have the following rights, all of which are included in the Design and Full Control permission levels by default:

- Manage Lists
- Add and Customize Pages
- Apply Themes and Borders
- Apply Style Sheets

A member of a website’s Site Owners group has Full Control permissions and, therefore, is able to customize the Shared version of Web Part pages.
To customize the Personal view of any Web Part page, the Web Part page must be designed to be personalized. You must have the following rights, all of which are included in the Contribute, Design, and Full Control permission levels by default:

- Manage Personal Views
- Add/Remove Personal Web Parts
- Update Personal Web Parts

A member of a website’s Members group has Contribute permissions and, therefore, is able to customize the Personal version of Web Part pages if they are designed to be personalized.

**Tip**  
When a Web Part page is designed to be personalized, editors of the page can disable the personalization of Web Parts on an individual basis by configuring the Web Part properties by using the Web Part tool pane.

Web Parts within Web Part zones can be connected to one another to provide interactive dashboards displaying related data from a number of data sources. A Ribbon command in SharePoint Foundation makes it easy to create a Web Part connection when two lists have a related column. For example, on a blog site, the Posts list has a lookup column to the Comments list. On a page where you are displaying the Posts XLV Web Part, on the Options tab in the Web Part Tools contextual tool set, you can click the Insert Related List command. This will add the Comments XLV Web Part to the page and connect the two Web Parts. Then, when users click a blog post in the Posts Web Part, the comments related to that post will be shown in the Comments Web Part. Using a tool such as SharePoint Designer, you can also connect Web Parts on one page with Web Parts on another page.

**See Also**  
For more information on connecting Web Parts, see Chapter 6, “Working with Data Sources,” in *Microsoft SharePoint Designer 2010 Step by Step* by Penelope Coventry (Microsoft Press, 2010).

In the following exercise, you will familiarize yourself with editing a Web Part page.

**SET UP**  
Open the SharePoint site that you used in the previous exercise, if it is not already open.

**BE SURE TO**  
verify that you have sufficient rights to edit views in the Shared Documents library. If in doubt, see the Appendix at the back of this book.

1. On the Quick Launch, under Libraries, click Shared Documents. The All Documents view of the library, Shared Documents, is displayed.

2. Click Site Actions, and then click Edit Page.
**Tip** Web Part pages do not display the Edit icon or the Save & Close icon to the left of the Browse tab.

The browser redisplay the Web Part page in Edit mode. The Web Part page displays one Web Part zone denoted by a blue border labeled Main. At the top of each Web Part page zone is a white rectangle surrounded by a blue line containing the text “Add a Web Part”.

**Tip** Other Web Part pages might be comprised of more than one Web Part zone, depending on the Web Part page template used when creating the page. You can also add or remove zones from a Web Part page by using a tool such as SharePoint Designer.

3. On the **Page** tab, click **Stop Editing**.

4. In the top right corner of the page, click the arrow next to `<your name>` and click **Personalize this Page**.

The browser redisplay the Web Part page in Edit mode. A yellow status bar states that this is the Personal version of the page. Any changes that you make to the Web Part page affect only your view of this web page.
Tip  When a Web Part page is not in Edit mode, there is no visible indication as to whether the page shows the Shared version or the Personal version. If the Show Personal View option is displayed on the <your name> drop-down menu, you are viewing the Shared version of the page. If the Show Shared View option appears, you are viewing the Personal version of the page. You can remove the Personal version of the page by clicking Reset Page Content on the <your name> drop-down menu. The Shared version of the page, then, is your default version. As an Administrator or web designer, you cannot customize the Personal views of specific users; you can customize only the Shared view and your own Personal view.

5. On the Page tab, click Stop Editing.

CLEAN UP  Close the browser.

Moving Web Parts

As you customize your web page by adding and removing Web Parts, you might find that the Web Parts are not located where you would like them to be. In this situation, you can move the Web Parts around on the page to obtain the layout that you want.

In this exercise, you will move Web Parts on the home page of a SharePoint site.

SET UP  Open the SharePoint site that you used in the previous exercise, if it is not already open.

BE SURE TO  verify that you have sufficient rights to edit the home page of this site. If in doubt, see the Appendix at the back of this book.

1. Click Site Actions, and then click Edit Page.

The browser displays the home page of your site in Edit mode.

2. Move the mouse over the title bar of the Sale – Bianca Furniture at half price Web Part so that the pointer changes to a hand. While holding down the mouse button, drag the Web Part to the content area to the left of Getting Started.
Key Points

- In SharePoint Foundation 2010, a website is a collection of web pages.
- There are two types of web pages—wiki pages and Web Part pages. On a Team site, blank site, or Document Workspace, the default web pages are wiki pages that are stored in a SharePoint Foundation–based wiki library named Site Pages.
- Both wiki pages and Web Part pages can contain Web Parts.
- A page can contain static and dynamic content, which is typically limited to no more than two or three screens of information.
- Create forward links to pages by using double square brackets around a WikiWord. For example, type [[BedRoom]] to create a link to the page named BedRoom. The page does not have to exist when the forward link is created.
- The easiest way to create a new wiki page is to create a forward link to a nonexistent page.
- Major versioning is enabled on wiki page libraries, and therefore no amendments are lost.
- Web Parts are reusable components that can contain any type of web-based content. They can display the contents of lists and libraries, as well as other content, such as the results of database queries, websites, web pages, files, and folders.
- Web Parts are organized by categories.
- The Lists and Libraries category contains an XLV Web Part for each list or library created in the site.
- The Closed Web Parts category is a temporary storage space for Web Parts that have been removed from a web page by using the Close button.
- A Web Part page can have two versions: a Shared version and a Personal version. All users can see changes made to the Shared version. Changes made to the Personal version are visible only to the user who altered his or her Personal version of the Web Part page. A user can reset the Personal view to the Shared view setting if desired.
Chapter at a Glance

- Configure a SharePoint list, page 185
- Build an index for a list column, page 213
- Set up an RSS feed for a list, page 210
Index

A

.accdb file extension, 408
Access (Microsoft)
about, 397–398
additional information, 398, 409, 418
Create tab, 409
Database Tools tab, 409
exporting data to lists, 408–412
exporting tables, 409
External Data tab, 409
File tab, 440
importing lists to, 412–415
linking databases to lists, 415–417
linking data-centric applications to lists, 417–421
linking tables to lists, 415–417
moving data to sites, 418–421
moving databases, 417–418
offline access, 422–425
publishing databases, 417–418
revealing external data, 415
saving databases in libraries, 418
synchronization support, 398
troubleshooting, 411, 423
Access Services, 408
Access view, 268–270
Access Web Datasheet
about, 257–258
accessing help topics, 263
exporting lists to spreadsheets, 404
Active Directory groups, 60
Add Items library permission, 238
Add Pages link, 349
Add Web Parts tool pane, 351
administrative pages, 51
Administrator permission level, 54
Agenda list/list template
email settings, 208
Meeting Workspace and, 84, 344, 348
alerts
about, 113
deleting, 115, 167–168
for discussion boards, 302
Outlook support, 368, 382–385
setting up, 113–116
subscribing to, 113–114, 143
subscription quotas, 114
troubleshooting, 385
All Pages view, 160
All Reference Books category, 456
All Site Content page
about, 18, 21
filtered views, 20
navigating to, 21–22
Ribbon interface and, 27
website address, 51
AND operator, 452
Announcements list/list template
about, 28, 84
adding to home page, 41–43
creating indexed columns, 214–215
e-mail-enabled, 208
Outlook limitations, 369
preventing duplicate list items, 215–217
usage example, 193–194
anonymous access, 61
Approval workflow template, 314
Approve Items library permission, 238
attachments
disabling for list items, 98
multiple, 101
setting list options, 191
Attendees list/list template
e-mail settings, 208
Meeting Workspace and, 84, 344–345, 348
author metadata property, 453
automating business processes, 312–313. See also workflows

B

Basic Meeting Workspace template, 344–348
BCS (Business Connectivity Services), 8, 415
Blank Site template
about, 53, 87
built-in Web Parts and, 168–170
blog(s)
about, 2, 53, 87
adding comments, 361–363
Categories list and, 84
creating, 359–361
creating blog sites, 356–358
list templates and, 85–86
RSS feeds and, 338, 363–364
Blog Tools Web Part, 359
breadcrumbs, 17
broken link, 452
browsers
  creating Document Workspace, 339–340
  creating Meeting Workspace, 344, 386
  form templates and, 428
  opening documents in, 221–222
browsing
  document libraries, 30–32
  hierarchical structures, 451
  lists on SharePoint sites, 28–30
Business Connectivity Services (BCS), 8, 415
Business Data Catalog, 415
business processes. See also workflows
  Access considerations, 418
  automating, 312–313

C
cached copies, 369, 379
Calendar list/list template
  about, 29, 84
  Calendar view and, 270–273
  creating Meeting Workspace, 344, 349, 386
  email-enabled, 208
  offline access, 379–381
  Quick Launch link, 20
  viewing in Outlook, 377–378
Calendar view, 270–273
Camel case, 161
Categories list/list template, 84
Check In command, 230
check out/in process
  configuring, 224–226
  for documents, 139–142, 369
  managing files, 230–233
child sites
  administrative pages, 51
  changing permission levels, 61–66
  hierarchy of, 23, 49
  navigating, 24, 66–69
  viewing list of, 24–25
Choice column, 316
Circulations list/list template, 84, 208
clients
  opening documents in, 221–222
  setting offline availability, 192
closed-ended survey questions, 286–288
  collaboration and sharing. See team collaboration and sharing
Collect Feedback workflow template, 314
Collect Signatures workflow template, 314
columns
  Enforce Unique Values property, 215
  exporting tables to sites, 407–408
  hiding in Access Web Datasheet, 258
  importing spreadsheets and, 401
  indexed, 213–215
  list, 83, 101–108
  re-ordering, 259
  resizing, 259
  selecting multiple, 260
  site, 103–104
comments, adding to blogs, 361–363
Comments list/list template, 85
Contacts list/list template
  about, 85
  connecting to Outlook, 369–372
  copying to Outlook, 374–376
  email settings, 208
  moving Outlook contact to, 372–374
  sending emails using, 376–377
  troubleshooting, 376
  usage example, 89, 185
content approval, configuring, 187–190
Content Editor Web Part, 156, 169, 177
content items as search results, 451–456
content navigation breadcrumb
  about, 17
  in Ribbon interface, 26–27
content types
  associating with lists, 197–199
  associating with workflows, 330–334
  creating, 194–197, 240–243, 331–334
  document libraries, 441–444
  site columns and, 103, 331–334
contenttype metadata property, 453
Contribute permission level
  about, 7, 59
  editing web pages, 156, 178
  library permissions and, 238
  refining, 191
  Visitors group and, 60
Create Alerts library permission, 238
Create page
  about, 50–51
  creating Custom List, 258
  Meeting Workspace and, 349
  site templates, 53
  website address, 51
Create View page, 258
Created by column, 103
Created column, 103
Cunningham, Ward, 137
Custom list/list template
  about, 85
  creating, 258
  email settings, 208
  importing data from spreadsheets, 398–401
Outlook limitations, 368–369
usage example, 89
**Custom Send To Destination feature**, 235–237

**D**

Data Form Web Part, 170
Data View Web Part
adding, 170
as RSS reader, 211
databases. See **Access (Microsoft)**
Datasheet view
about, 256–258
creating multiple list items, 95
navigating cell-to-cell, 257
setting list options, 193
sorting/filtering, 111
switching between Standard view and, 258
usage example, 258–263
dBase database, 409, 412
Decisions list/list template, 85, 208
Delete Items library permission, 238
Delete Versions library permission, 238
deleting
alerts, 115, 167–168
Document Workspace, 343–344
documents, 44–45, 145–146
libraries, 246–247
list columns, 103
list items, 97–98, 260
lists, 201–202
Meeting Workspace, 390
Web Parts, 172–174
description metadata property, 453
Design permission level
about, 7, 59
editing Web Part pages, 177–178
library permissions and, 238
refining, 191
saving web templates, 71
Directions list/list template, 85
discussion boards
about, 16, 285
creating, 302–306
e-mail settings and, 208, 306–307
list templates, 85
permission levels, 302
Quick Launch link, 21
usage example, 302–306
viewing in Outlook, 307–309
**Discussions link**, 21
display name, 51, 90
Disposition Approval workflow template, 314
document(s)
adding, 126–130
associating with meeting dates, 351
checking in/out, 139–142, 224–226, 230–233, 369
creating, 122–124
deleting, 145–146
editing, 124–126
enabling versioning, 142–143, 226–230
hyperlinks after exporting, 403
inheriting permissions, 237
metadata about, 440
publishing back to document libraries, 342–343
restoring, 145–146
using alerts, 143–145
**Document content type**, 441–444
document information panels
about, 427
additional information, 441, 446
creating, 440–444
editing, 446–448
editing custom properties, 444–445
viewing custom properties, 444–445
document libraries
about, 30, 49, 120
Access view, 268–270
adding documents, 126–130
browsing, 30–32
checking documents in/out, 139–142,
224–226, 230–233
creating, 120–121, 338–340
creating content types, 240–243
creating documents, 122–124
creating folders in, 138–139
Custom Send To Destination feature, 235–237
deleting documents, 145–146
displaying document properties, 444
document information panels, 441–444
document version history, 142–143
editing documents, 124–126
e-mail-enabled lists, 208
exporting to spreadsheets, 401
form libraries and, 133
list templates, 85
List Templates gallery, 274
managing users and permissions, 237–240
Meeting Workspace and, 348
modifying library templates, 222–224
picture files and, 130
publishing documents back to, 342–343
removing workflows from, 329–330
restoring documents, 145–146
searching for files across, 456–460
using alerts, 143–145
version history, 142–143
workflow process and, 316–319, 323–325, 331
document metadata

about, 440
document information panels and, 440–444
editing, 444–448
search queries and, 453
viewing, 444–445

document templates

creating content types, 240–243
modifying, 222–224

Document Workspace

about, 9, 338–339
accessing existing, 341–342
built-in Web Parts and, 168–170
creating, 338–340
deleting, 343–344
discussion boards and, 302
editing pages, 156–159
navigating to, 341
publishing documents back to document libraries, 342–343
site templates, 53, 87, 338

E

Edit Control Block (ECB), 235–236
Edit Items library permission, 238
Edit List Item permission, 324
email applications

configuring settings for discussion boards, 306–307
configuring settings for lists, 207–209
receiving alerts, 143–144, 167–168
sending using Contacts list, 376–377
setting up alerts, 113–116

event(s)

associating Meeting Workspace with, 349
recurring, 348, 373, 375, 386

event receivers, 312–313

Excel (Microsoft)

additional information, 398
exporting lists to spreadsheets, 401–404
exporting tables to sites, 404–408
File tab, 440
importing data from spreadsheets, 398–401
importing spreadsheets, 86
importing tables, 398
renaming tables, 403
revealing external data, 415
synchronizing lists to spreadsheets, 404, 406
viewing/editing document properties, 444

Exchange Server (Microsoft), 344, 412
exporting

Access data to lists, 408–412
Excel tables to sites, 404–408
History list contents, 317
lists to spreadsheets, 401–404
troubleshooting, 411

Expression Blend (Microsoft), 170
Extensible Markup Language (XML)

exporting Access data and, 409
importing Access data and, 412
Web Part support, 169
Extensible Stylesheet Language (XSL), 169
Extensible Stylesheet Language Transformation (XSLT), 168
External Data list/list template, 85

F

farm level, 74, 235
feeds, RSS. See RSS feeds
filename metadata property, 453
files

Access formats, 409
attaching to list items, 98–101
checked-out, 230–233
links to, 453
searching for, 456–460
SharePoint Workspace limitations, 147

filetype metadata property, 453
filtering

discussion board topics, 302
documents, 124
lists, 111–113, 142–143
Flat view, 302
folders

creating in libraries, 138–139
granting list item permissions, 206–207
inheriting permissions, 237
library templates, 222
setting list options, 191–192
form(s)

about, 133, 427
creating, 437–438
document information panels, 440–444
editing, 437, 439–440
offline access, 428
searchable, 432

form libraries

about, 133, 427
configuring, 247–248
creating, 133–136, 428–434
e-mail-enabled lists, 208
list templates, 85
modifying, 434–437

form templates

creating, 427–428
modifying form libraries, 434–437
publishing, 430–432, 434
<FORM> element, 169
Forms folder, 222, 434
Full Control permission level
about, 7, 59
editing Web Part pages, 177–178
library permissions and, 238
Owners group and, 60
refining, 191
Site Owners group, 177

G
Gantt charts, 263–267
Gantt view, 263–267
Grant Permissions command, 61
group(s)
initial categories, 58, 60
permission levels, 60–61
Group Approval workflow template, 314
group calendars
email-enabled lists, 208
list templates, 86
Group Work Site template
about, 53, 87
Circulations list and, 84
Group Calendar list template and, 86
Phone Call Memo list template and, 86
Resources list template and, 86
Web Part support, 170
Whereabouts list template and, 87

H
hierarchy of subsites, 23, 49
History list, 316–317
home pages
about, 16
adding Announcements list, 41–43
customizing, 170–172
editing, 157–159
left navigation panel, 16
Meeting Workspace, 348–351
navigating, 16–22
Ribbon interface Page tab, 26
search queries on, 453
Site Actions link, 18
top navigation area, 16
HTML (HyperText Markup Language), 169, 409
HTML Form Web Part, 169
hyperlinks, 403

I
ID column, 103
Image Viewer Web Part, 169
Image Web Part, 156, 177
importing
data from spreadsheets, 398–401
Excel tables, 398
lists to Access databases, 412–415
spreadsheets, 86
troubleshooting, 399
Web Parts, 170
Incoming Links feature, 163–165
index, defined, 452
indexed columns, 213–215
InfoPath (Microsoft)
additional information, 428
Design mode, 428
Fill Out a Form mode, 428
form libraries and, 133
revealing external data, 415
InfoPath Designer 2010
about, 427–428
back view, 429
creating form libraries, 429–434
document information panels, 440–444, 446–448
File tab, 429
modifying form libraries, 434–437
onstage view, 429
InfoPath Filler 2010
about, 428
creating forms, 437–438
editing forms, 439–440
InfoPath Form Services, 428
InfoPath forms
about, 427
creating, 437–438
document information panels, 440–444
editing, 437, 439–440
offline access, 428
searchable, 432
inheriting permissions, 156, 203, 206, 237
Installable Sequential Access Method (ISAM), 410
internal names, 51–52
Internet forums. See discussion boards
ISAM (Installable Sequential Access Method), 410
Issue Tracking list/list template, 86, 208, 369

K
keyboard shortcuts
accessing help topics, 263
cancel edits, 259
copy operation, 259

cut operation, 259

moving single contacts, 374

paste operation, 259

row/column selection, 260

synchronizing Outlook connections, 381

undo changes, 259

_layouts folder, 51

_left navigation panel

about, 5, 16

All Site Content link, 21, 36

customizing, 36–40

_libraries. See also specific libraries

about, 15, 120, 220

associating workflows and content types, 331–334

configuring RSS feeds, 210–213

connecting to Outlook, 369–372

creating folders in, 138–139

deleting, 246–247

enabling version for documents, 226–230

exporting contents to spreadsheets, 401, 403

Forms folder, 222, 434

managing users and permissions, 237–240

Quick Launch link, 20

removing Outlook connections, 372

removing workflows from, 329–330

restoring, 246–247

RSS feeds and, 78

saving Access databases in, 418

_Libraries link, 20

_library settings

configuring other library types, 247–248

configuring required checkout, 224–226

configuring Site Assets library, 233–235

creating content types, 240–243

creating Custom Send To Destination feature, 235–237

creating views, 244–245

deleting libraries, 246–247

managing checked-out files, 230–233

managing users and permissions, 237–240

modifying library templates, 222–224

opening documents, 221–222

restoring libraries, 246–247

_library views

about, 251

Access view, 268–270

Calendar view, 270–273

Gantt view, 263–267

Standard view, 244–245, 252–256

_Limited Access permission level

about, 7, 59

library permissions and, 238

_linked objects, 401

_Links list/list template

about, 29, 86

e-mail settings, 208

Outlook limitations, 368–369

_links/linking

Access databases to lists, 415–417

adding in Quick Launch, 36–38

adding to wiki pages, 163–165

data-centric applications to lists, 417–421

to files, 453

re-ordering in Quick Launch, 36–38

tables to lists, 415–417

typical Quick Launch, 20–21

_list(s)

about, 15, 49, 83

associating content types with, 197–199

associating workflows and content types, 331–334

attaching documents to, 98

browsing on SharePoint sites, 28–30

configuring email settings, 207–209

configuring RSS feeds, 210–213

connecting to Outlook, 369–372

creating, 89–92

customizing Meeting Workspace, 354–356

default, 84–89

deleting, 201–202

exporting Access data to, 408–412

exporting to spreadsheets, 401–404

filtering, 111–113, 142–143

importing data from spreadsheets, 398–401

importing to Access databases, 412–415

inheriting permissions, 203

linking Access databases to, 415–417

linking data-centric applications to, 417–421

linking tables to, 415–417, 422–425

_list settings. See list settings

lookup columns, 277–282

navigating, 185–187

offline access, 398

Quick Launch link, 20

removing Outlook connections, 372

removing workflows from, 329–330

renaming, 185

restoring, 201–202
RSS feeds and, 77–78
selecting title/description, 185–186
sorting, 111–113
synchronizing to Access databases, 415–417
synchronizing to spreadsheets, 404, 406
validating, 199–201
list columns
about, 83
column types, 101–102
manipulating, 103–108
list items
about, 83
adding, 93–96
adding to Meeting Workspace, 351–354
Alert Me option, 113
attaching files to, 98–101
creating multiple, 95
Datasheet view, 95
deleting, 97–98, 260
disabling attachments, 98
editing, 93–96
granting permissions, 206–207
keyboard shortcuts, 259
managing permissions, 203–205
multiple attachments, 101
preventing duplicate, 215–217
restoring, 97–98
setting permissions, 191
list settings
about, 183–184
accessing, 98
advanced list settings, 191–194
associating content types with lists, 197–199
configuring content approval, 187–190
configuring for email, 207–209
configuring RSS feeds, 210–213
configuring versioning, 187–190
creating content types, 194–197
creating custom content types, 195–197
creating indexed columns, 213–215
deleting lists, 201–202
granting list item permissions, 206–207
list validation options, 199–201
managing permissions, 203–205
managing users, 203–205
Meeting Workspace and, 350
preventing duplicate list items, 215–217
restoring lists, 201–202
setting list title and description, 185–186
setting navigation, 185–186
list templates
creating, 273–277
customizing, 101–108
default, 84–87
naming conventions, 88
List Templates gallery, 274, 369
List View Web Part, 93, 168
list views. See also Datasheet view
about, 251
Access view, 268–270
Calendar view, 270–273
Gantt view, 263–267
generating, 93
lookup columns, 277–282
Meeting Workspace and, 348
navigating to default page, 93
sorting/filtering lists, 111–113
Lists link, 20
Local Machine groups, 60
lookup columns, 277–282
major versions, 226
Manage Lists library permission, 238, 319
Manage Pages link, 349
Meeting Workspace
adding list items, 351–354
adding pages, 349–351
Agenda list, 84, 344, 348
Attendees list, 84, 344–345, 348
creating, 344–348
creating from Outlook, 344, 385–390
customizing, 345–356
deleting, 390
document libraries and, 348
home page layout, 348–351
Objectives list, 86, 344, 348
permission levels, 344
site templates, 54, 87, 338, 344
Text Box list template and, 87
Things To Bring list template and, 87
troubleshooting, 346, 353
Web Parts and, 344, 348–350, 354–356
Members group
about, 58
document considerations, 422–425
editing web pages, 156, 178
permission levels, 60, 178
message boards. See discussion boards
metadata
Access considerations, 422–425
document, 440, 444–448
Outlook limitations, 368
metadata properties, 453
Microsoft Access. See Access (Microsoft)
Microsoft Business Connectivity Services, 8, 415
Microsoft Excel. See Excel (Microsoft)
Microsoft Exchange Server, 344, 412
Microsoft Expression Blend, 170
Microsoft InfoPath. See InfoPath (Microsoft)
Microsoft Office. See Office (Microsoft)
Microsoft Outlook. See Outlook (Microsoft)
Microsoft Picture Manager, 130
Microsoft PowerPoint, 440, 444
Microsoft Silverlight applications. See Silverlight applications
Microsoft Technet website, 313, 368
Microsoft Word. See Word (Microsoft)
minor versions, 226
Modified by column, 103
Modified column, 103
More Options command, 160

N
naming conventions
for URLs, 51–52, 90
for wiki pages, 161
Navigate Up icon, 24, 27
navigating
child sites, 24, 66–69
to Document Workspace, 341
home page, 16–22
to list view default page, 93
lists, 185–187
Ribbon interface, 25–28
SharePoint sites, 16–22
site content tree, 22–25
New Document command, 134, 222
New Page command, 160
notification area, 158

O
Objectives list/list template
about, 86
e-mail settings, 208
Meeting Workspace and, 86, 344, 348
ODBC (Open Database Connectivity), 409, 412
Office (Microsoft)
creating document libraries, 338
creating web databases, 409
Datasheet view and, 256
File tab, 440
InfoPath support, 428
integration with, 8–11
Office Web Apps, 9–10
Research pane, 456–460
revealing external data, 415
searching for files within, 456–460
setting offline client availability, 192
Workspace support, 50
Office Web Apps
about, 9–10
manipulating documents, 122
opening documents, 221
troubleshooting, 125
offline access
Access support, 422–425
cached copies and, 369
caching data in local tables, 415
editing documents, 369
InfoPath forms, 428
lists, 398
Outlook support, 152–153, 367–368, 379–381
setting client availability, 192
synchronization process, 379–381
troubleshooting, 423
Workspace support, 146–147
Open Database Connectivity (ODBC), 409, 412
Open Items library permission, 238
open-ended survey questions, 286–287
opening editing, 156
OR operator, 453
orphan sites, 390
Outlook (Microsoft)
connecting Contacts list to, 369–372
copying contacts to, 374–376
creating Meeting Workspace, 344, 385–390
integration with, 367
managing alerts, 368, 382–385
managing workflow tasks, 326–328
moving contacts to Contacts list, 372–374
offline access, 152–153, 367–368, 379–381
recurring events and, 348
removing connections, 372
revealing external data, 415
RSS feeds and, 363, 368, 391–394
viewing discussion boards in, 307–309
viewing personal calendars, 377–378
working offline, 152–153
Override Check Out library permission, 238
Owners group, 58, 60

P
Page Viewer Web Part, 169
.pdf file extension, 409
permission levels
about, 7
changing for child sites, 61–66
creating sites, 54–55
default, 7, 59
discussion boards, 302
granting for list items, 206–207
inheriting, 156, 203, 206, 237
list templates and, 275
managing, 57–66, 203–205, 237–240
Meeting Workspace and, 344
Outlook considerations, 369
refining default, 191
Ribbon interface and, 26
SharePoint groups, 60
Site Actions menu and, 18
surveys and, 298
Permissions page, 59, 61
personal calendars, viewing, 377–378
personal views, 253
Phone Call Memo list/list template, 86, 208
picture libraries
about, 130
adding pictures, 130–133
configuring, 247–248
creating, 130–133
e-mail-enabled lists, 208
list templates, 86
Quick Launch link, 21
Web Part support, 170
Picture Library Slideshow Web Part
about, 170
adding, 178–180
customizing, 174–177
Picture Manager (Microsoft), 130
Pictures link, 21
Portland Pattern Repository, 137
Posts list/list template, 86, 208
PowerPoint (Microsoft), 440, 444
predecessors
in Gantt chart, 263
summary tasks, 109
Project Tasks list/list template
about, 86
adding summary tasks, 109–111
e-mail settings, 208
Gantt chart, 263
project timelines, 263–267
property promotion/demotion, 444
Publish to Source Location link, 342
publishing
about, 418
documents back to document libraries, 342–343
Excel lists, 404
form templates, 430–432, 434

Q
queries. See search queries
Quick Launch
about, 5
adding links, 36–38
displaying discussion boards, 302
reordering links, 36–38
Ribbon interface and, 26
site templates and, 53
typical links, 20–21

R
Read permission level
about, 7, 59
library permissions and, 238
refining, 191
Visitors group and, 60
recurring events
creating Meeting Workspace from, 348, 386
troubleshooting, 373, 375
Recycle Bin
about, 16, 43
Access considerations, 418
All Site Content page and, 19
deleting documents in, 44–45, 145–146
home page link, 21
left navigation panel and, 36
restoring documents from, 45–46
restoring libraries from, 246
Relevant Documents Web Part, 169
renaming
lists, 185
tables, 403
Report Viewer Web Part, 170
Reporting Services Web Part, 170
Research pane, 456–460
resizing rows/columns, 259
Resources list/list template, 86, 208
restoring
documents, 145–146
documents from Recycle Bin, 45–46
libraries, 246–247
list items, 97–98
lists, 201–202
Web Parts, 172–174
Ribbon interface
additional information, 25
Alert Me option, 113
Browse tab, 26–27
Documents tab, 26, 222
e-xploring, 27–28
Items tab, 26
Library Settings button, 219
Library tab, 26
List tab, 26, 183–184
navigating, 25–28
Page tab, 26, 247–248
Publish button, 143
Rich Text Format (RTF), 409
rows
resizing, 259
selecting multiple, 260
RSS feeds
about, 54, 363, 391
changing properties, 394
configuring, 391–394
configuring for libraries, 210–213
configuring for lists, 210–213
managing syndication, 77–79
Outlook support, 363, 368, 391–394
search queries and, 454
Time To Live setting, 213
usage example, 363–364
RTF (Rich Text Format), 409

S
Save And Close button, 297
search queries
about, 451
for information, 451
for sites, 452–456
InfoPath forms, 432
lists, 192
AND operator, 452
OR operator, 453
troubleshooting, 452, 454
Search Results page, 453–454
Search Server 2010 Express, 454
security
SharePoint groups and, 61
sharing Access databases, 422
Settings menu. See list settings
Shared Documents library
about, 30
configuring required checkout, 224–226
creating, 120
modifying library templates, 222–224
Quick Launch link, 20
setting as default location, 233–235
shared views, 253
SharePoint Central Administration
anonymous access, 61
configuring email settings, 208
creating sites, 50
deleted items considerations, 97
System Settings, 115, 208
SharePoint Designer 2010
about, 12
adding Data Form Web Part, 170
adding Web Parts, 177
additional information, 313
customizing web pages, 156
downloading, 313
theme support, 69
SharePoint Features
about, 8, 75
installing, 76–77
scopes supported, 74–75
SharePoint Foundation
about, 2–7
new features, 8
Office integration, 8–11
Outlook integration, 367
system requirements, 2
version information, 7
SharePoint groups
initial categories, 58, 60
permission levels, 60–61
SharePoint Server 2010
about, 11–12
BCS support, 415
editing document information panels, 446
search capabilities, 454
web database sites and, 418
SharePoint Services 3.0, 70
SharePoint sites. See sites
SharePoint Workspace
about, 146
setting offline client availability, 192
synchronizing documents, 147–151
working offline, 146–147
Silverlight applications
setting list options, 193
Silverlight Create dialog, 51
Silverlight Web Part and, 170
site(s)
administrative pages, 51
browsing lists, 28–30
changing themes, 69–71
components, 15–16, 22
creating, 50–57
creating form libraries, 429
deleting, 79–80
exporting Excel tables to, 404–408
Help window, 6
importing data from, 412
left navigation panel, 5, 36–40
locating, 3–5
managing features, 74–77
managing syndication, 54, 77–79
managing users and permissions, 57–66, 203–205
moving Access data to, 418–421
navigating, 16–22
Quick Launch link, 21
searching, 452–460
SharePoint Features level, 75
top navigation area, 5, 32–36
Site Actions menu
about, 18
Add Pages link, 349
Manage Pages link, 349
Meeting Workspace and, 349
More Options command, 160
New Page command, 160
New Site option, 50, 340
Site Settings link, 19, 390
View All Site Content link, 18, 21, 27
Site Assets library, 233–235
Site Collection Administrator, 145
site collections
about, 23, 30
defining site columns, 331
indexed columns, 214
List Templates gallery, 274
Navigate Up icon, 24
RSS feeds and, 77–79, 210
SharePoint Features level, 75
workflows and, 331
Workflows page, 314
site column gallery, 103
site columns, 103–104, 331–334
site content tree
about, 23
displaying structure, 39–40
Navigate Up icon, 24
navigating, 22–25
Site Owners group, 177
Site Pages library, 20, 156
Site Settings page
administrative links, 50
deleting sites, 390
List Templates gallery, 274
Meeting Workspace and, 348
opening, 19
Save Site As link, 54
website address, 51
site templates
about, 50, 53
provisioning lists, 87
saving/using, 69–74
site users
managing, 57–66, 203–205, 237–240
viewing list of, 170
Site Users Web Part, 170
Sites link, 21
size metadata property, 453
Social Meeting site template, 85, 302
Solutions Gallery
Outlook limitations, 369
site templates, 72
sorting
discussion board topics, 302
lists, 111–113
Spelling & Grammar feature (Word), 158
spreadsheets. See Excel (Microsoft)
SQL Server Web Part, 170
Standard view
about, 252
creating, 244–245, 253–256
switching between Datasheet view and, 258
Status bar, 158
Subject view, 302
subsites. See child sites
summary tasks
adding, 109–111
predecessors, 109
surveys
about, 16, 285
adding page separators, 297
creating, 286–295
e-mail settings, 208
exporting to spreadsheets, 401
formatting questions, 286–288
list templates, 86
Outlook limitations, 369
permission levels, 298
responding to, 286–288, 295–298
troubleshooting, 298
validating, 289
viewing results, 298–302
synchronizing
Access support, 398, 415–417, 422–425
documents, 147–151
lists to Access databases, 415–417
lists to spreadsheets, 404, 406
offline content, 379–381
Workspaces, 349, 368
syndicating site content, 54, 77–79

tables
column names and, 401
displaying document properties, 444
exporting to sites, 404–408
exporting via Access, 409
importing, 398
linking to lists, 415–417, 422–425
moving data to sites, 418
renaming, 403
troubleshooting, 414

Tasks list/list template
about, 29, 87
Access view, 268–270
adding summary tasks, 109–111
Assign To column, 324
Calendar view, 271–273
e-mail settings, 208
Gantt chart, 263–267
list views, 93
managing workflows, 326–328
Quick Launch link, 20
saving, 274–277
three-state workflows, 316
usage example, 89–92

team collaboration and sharing
Document Workspace, 343–344
editing wiki pages, 156
tools supporting, 2–3, 11–12

Team Discussion discussion board, 302

Team Site template
about, 53, 87
built-in Web Parts and, 168–170
discussion boards and, 302
templates. See also specific templates
document, 222–224, 240–243
form, 427
site, 50, 53, 69–74, 87
web, 54, 71–74, 76–77

Text Box list, 87, 208

Text Layout command, 159
text messages
receiving alerts, 143–144
setting up alerts, 113–116
themes
applying, 69–71
Meeting Workspace templates, 54
Things to Bring list template, 87, 208

Threaded view, 302
three-state workflows, 314–319, 331

Time To Live setting, 213
title metadata property, 453

top link bar
about, 17
configuring, 32–36
Home tab link, 17

top navigation area
about, 5, 16
customizing, 32–36
Ribbon interface and, 27
top link bar, 17
top-level sites, 50, 78–79
Translation Management workflow template, 314

troubleshooting
alerts, 385
exporting Access data to lists, 411
importing data from spreadsheets, 399
Meeting Workspace, 346, 353
moving contacts, 376
Office Web Apps, 125
queries, 452
recurring events, 373, 375
search queries, 452, 454
surveys, 298
tables, 414
URLs, 346, 410
web pages, 174
Web Parts, 174
Work Offline command, 380
workflows, 322
working offline with Access data, 423

U

URL (Uniform Resource Locator)
Custom Send To Destination feature, 235–237
naming, 51–52, 90
spaces in, 185
troubleshooting, 346, 410
wiki pages and, 161
Workspaces and, 341

User Tasks Web Part, 170

users (site). See site users

V

validating
lists, 199–201
surveys, 289

versioning/version history
configuring, 187–190
document libraries and, 126
enabling for documents, 226–230
of SharePoint Foundation, 7
of Web Part pages, 177
of wiki pages, 165–167
working with, 142–143

view(s)
about, 20, 251
creating, 244–245
list, 93, 111–113
Outlook limitations, 368
View Application Pages library permission, 238
View Items library permission, 238
View Versions library permission, 238
Visitors group, 58, 60
Visual Studio, 156, 170
Visual Upgrade, 70

What's New Web Part, 170
Whereabouts list/list template, 87, 208
Whereabouts Web Part, 170

wiki(s)
about, 2, 137, 338
creating, 338
RSS feed support, 338

wiki page libraries
configuring, 247–248
creating, 137–138
creating pages, 160–163
editing pages, 156–159
e-mail settings, 208
list templates, 87
versioning support, 165–167

wiki pages. See also Web Part pages;
wiki pages
adding Web Parts, 168–172
alert support, 167–168
removing Web Parts, 172–174
troubleshooting, 174
types of, 155

Web Part(s)
about, 21, 40
adding, 41–43
adding from Web Part pane, 168–172
connected, 278–282
creating, 170
customizing via Web Part pane, 174–177
importing, 170
Meeting Workspace and, 344,
348–350, 354–356
moving, 180–181
removing, 172–174
restoring, 172–174
troubleshooting, 174
web pages and, 155–156
Web Part Page Gallery, 170–172, 369
Web Part Page Maintenance page, 174

Web Part pages
about, 155–156
customizing, 180–181
ing, 177–180
Personal version, 177–178
Shared version, 177

Web Part pane
adding Web Parts, 168–172
Closed Web Parts category, 173–174
customizing Web Parts, 174–177
removing Web Parts, 172–174
Web Part zones, 177–178

web templates
about, 54, 71–72
saving, 72–74
SharePoint Features, 76–77
workflow templates
about, 313
associating with content types, 331
associating with document libraries, 316–319
built-in, 314–315
customizing, 315–319
three-state, 314–319, 331
Workflows page, 314
Workspaces. See also specific types of Workspaces
about, 49–50
creating, 66–69
remembering URLs, 341
revealing external data, 415
synchronizing, 349, 368
.wsp file extension, 54, 72

X
XLV (XSLT List View) Web Part
about, 168, 278
adding, 170–172, 178–180
customizing, 174–177
Data View Web Part and, 170
XML (Extensible Markup Language)
exporting Access data and, 409
importing Access data and, 412
Web Part support, 169
XML Viewer Web Part, 169
.xps file extension, 409
XSL (Extensible Stylesheet Language), 169
XSLT (Extensible Stylesheet Language Transformation), 168
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