

# Index

## Numbers

**12 hive, features in, 150–151**

## A

**Action element, ACTIONS file, 391**

### actions

- configuring. See **ACTIONS** file
- core actions, 232–233
- custom. See **custom actions**
- designing workflows and, 216
- list actions, 234–235
- overview of, 231–232
- task actions, 235–237

### ACTIONS file

- Action element, 391
- creating custom, 392–396
- deploying, 396–398
- FieldBind element, 392
- overview of, 390–391
- Parameter element, 392
- RuleDesigner element, 391

**ActiveX controls, 364–365**

**Add Web Parts dialog, 403**

**add-ins, 435–462**

- creating, 438–456
- exporting workflow from SharePoint Designer when creating, 440–443
- extraction of files from downloaded SharePoint Designer package, 444
- installing project templates add-in, 436–438
- overview of, 435
- processing files extracted from SharePoint Designer package, 445–456
- summary, 462

testing, 456–462

VSTO (Visual Studio Tools for Office), 435–436

**administration, 463–488. See also Central Administration**

- accessing reports, 466
- advanced/publishing web-based reports, 472–473
- back ups, 474–475
- basic web-based reports, 471–472
- building reports, 474
- configuring usage reports, 464–466
- customizing/exporting reports, 470
- list and library templates, 477
- moving templates between template galleries, 479–480
- overview of, 463
- publishing as backup method, 476
- reporting, 463–464
- restoring, 475–476
- saving list templates, 478–479
- saving site templates, 479
- search web-based reports, 473
- sharing templates at farm level, 481
- site content reports, 467–468
- site definitions, 482–487
- site usage reports, 468–470
- STSADM.EXE, 62, 476–477
- summary, 488
- third-party backup tools, 477
- types of reports, 467
- web-based reports, 470

**administrator's perspective**

- Central Administration, 60–61
- database types, 63–65
- file structure and, 62
- galleries, 58–59
- group permissions, 54–55

**administrator's perspective (*continued*)**

navigation elements (global and local),  
56–58

overview of, 49

permissions and, 51–52

server-level settings, 59–60

site-based settings, 49–50

STSADM.EXE, 62

summary, 65

user authentication and permissions,  
52–54

**Advanced Search Box Web Part, 326–327**

**advanced/publishing reports, 472–473**

**Alternate CSS feature, MOSS, 128**

**Application Management section, Central  
Administration, 61**

**Apply Formatting actions, conditional  
formatting, 262–263**

**archive file, restoring from, 476**

**ASP.NET**

authentication methods supported, 52

database connections, 304–305

Master Pages as means of taking

advantage of functionality of, 94–95

SharePoint history and, 493–494

**ASP.NET data forms, 302–308**

configuring database connection,  
304–305

connecting controls to data sources,  
306–308

enabling ASP.NET Development Server,  
302–304

overview of, 302

working locally, 302

**ASP.NET Development Server, 302–304**

**.aspx extension, page layouts and, 195**

**assemblies**

adding custom action assembly to  
GAC, 396

adding custom Web Part assembly to  
GAC, 426

adding references to, 413

containing custom actions, 378–382

**audit logging, 464**

**authentication, 52–54**

**Authoring tab, Page Editor, 130**

## B

**back-end processing action, HTML forms,  
299–300**

**backgrounds**

Themes for colors, 158–160

Themes for customizing, 166

Themes for form field background, 179

**backing up**

overview of, 474–475

publishing as backup method, 476

STSADM.EXE for, 476–477

third-party tools, 477

**Backup function, STSADM.EXE, 477**

**banners, Themes for customizing, 166**

**basic web-based reports, 471–472**

**BDC (Business Data Catalog)**

adding to Data Source Library, 280

data source types and, 272

integration with third-party systems, 496

overview of, 293

**body, main body area in web page anatomy,  
121–122**

**breadcrumbs**

page navigation breadcrumb, 171

Themes for changing background color,  
158–160

**built-in actions, vs. custom  
actions, 376**

**built-in Web Parts, vs. custom Web  
Parts, 408**

**Business Data Catalog (BDC)**

adding to Data Source Library, 280

data source types and, 272

integration with third-party systems, 496

overview of, 293

## C

### C#

adding functionality to custom actions,  
387–389

creating add-ins, 440–456

creating custom actions, 381–382

creating custom Web Parts, 413–414

- creating properties for custom actions, 383–387
- creating user interface for custom Web Parts, 415–425
- CAL (Client Access License), 496**
- calendar list, Themes for, 175–177**
- calendar navigator, 117**
- CAML (Collaborative Application Markup Language), 492**
- CDATA (Complex Data) elements, 330**
- Central Administration. See also administration**
  - configuring usage reports, 464–466
  - creating blank site for backup and restore, 475
  - overview of, 60–61
  - update queries for data types, 309
- CEWP (Content Editor Web Part), 321–343**
  - adding Web Parts to search example, 333–335
  - Code view and, 330–331
  - creating HTML page and inserting elements, 366
  - creating new web page for search example, 332
  - creating on a page, 371
  - customized search results example, 331
  - Design view and, 328–330
  - external content, 325
  - modifying Core Results Web Part, 336–338
  - overview of, 47, 321–323
  - portability of, 342–343
  - preparing Content Editor for search example, 335–336
  - Query Web Part for search example, 338–339
  - rendering content, 325
  - rich text editor and, 323–324
  - simple example, 325–328
  - source editor and, 324–325
  - summary, 343
  - tips and tricks for working with, 341–342
  - tokens and, 339–341
- CGI (Common Gateway Interface), 89**
- Change Layout options, List View control menus, 247–249**
- charts, exporting, 470**
- child objects, WPSC, 346–347**
- circular references, 240–241**
- classes**
  - as CSS selectors, 126
  - removing search box and, 327–328
- Client Access License (CAL), 496**
- client-side object model**
  - accessing page components via DOM, 364
  - client-side ActiveX controls, 364–365
  - summary, 372
  - Web Part example, 365–372
  - Web Part Page event model. See Web Part Page event model
  - Web Part storage. See Web Part storage
  - WPSC. See WPSC (Web Part Page Services Component)
- CMP (Content Migration Package), 474–475**
- CMS (Content Management Server), 184**
- code placement, CSS styles, 124–125**
- code snippets**
  - Code view and, 16–18
  - saving/reusing, 109
- Code view**
  - CEWP and, 330–331
  - code snippets, 16–18
  - Design view compared with, 18
  - IntelliSense and, 15–16
  - overview of, 14–15
  - page layouts and, 202
  - visual coding, 18
- Collaborative Application Markup Language (CAML), 492**
- collections, WPSC**
  - overview of, 347–348
  - Parts collection, 348–351
  - Properties collection, 351–354
- column filtering, customizing reports and, 470**
- columns (fields), in custom lists and libraries, 39–40**

CommandField class, 417–418

**Common Gateway Interface (CGI), 89**

**compatibility, upgrades and, 484**

**Complex Data (CDATA) elements, 330**

**components, identifying SharePoint, 69–70**

**conditional formatting, Data Views, 261–263**

**conditions**

designing workflows and, 216

optional nature in workflows, 219

overview of, 229–231

Workflow rule file, 221

**configuration database, 63**

**Confirmation webbot, FrontPage, 302**

**connection events, Web Part Page event model, 359**

**connections**

Data View Web Part, 291–292

Web Parts, 47

**content**

benefits of separating from style, 124

managing web content. See WCM (web content management)

placeholders, 97, 104

**content databases**

storing CSS styles in, 128

types of SharePoint databases, 63–65

**Content Editor Web Part. See CEWP (Content Editor Web Part)**

**Content Management Server (CMS), 184**

**Content Migration Package (CMP), 474–475**

**Content Pages**

Master Pages and, 94

overview of, 96–97

in Pages library, 195

**content regions, 101–104**

ContentPlaceHolder, 104

default.master, 101–102

Master Pages and, 99

suppressing display of, 103–104

tags for invoking SharePoint functionality, 107–108

**content reports**

function of, 467

site content reports, 467–468

**Content Type gallery, 196**

**content types**

creating for page layout, 197–199

lists and libraries, 40–41

overview of, 73

page layouts and, 196–197

ContentPlaceHolder, 104

**Contributor Settings**

Contributor groups, 81–85

overview of, 78–80

vs. permissions levels, 80–81

region types, 85–86

**control menus, List View. See List View**

**Web Part control menus**

**controls**

ActiveX, 364–365

adding form controls, 298

adding to custom Web Part, 414–415

connecting to data sources, 306–308

field controls, 202–205

Web Parts, 205

**core actions, 231–233**

**Core Results Web Part**

modifying, 336–338

selecting, 334

**CSS (Cascading Style Sheets)**

classes as selectors, 126

code placement, 124–125

inheritance and overrides, 125

overview of, 123

styling vs. formatting, 123–124

summary, 146

**CSS (Cascading Style Sheets), in SharePoint**

applying quick styles with Style toolbar, 143–144

changing existing styles with Style

Application toolbar, 142–143

creating styles, 137–142

error checking, 144–145

identifying/finding styles, 133–136

overview of, 126–127

page-editing options, 130–132

preexisting files, 127–128

- storing styles by saving to external location, 129
- storing styles in content database, 128
- storing styles on web server, 129
- summary, 146
- task panes and toolbars and, 132–133
- Themes and, 57–58, 148
- usage reports for style elements, 145
- .css file, Theme folder, 152–153**
- CSS layouts**
  - creating styles and, 136
  - HTML forms and, 298
- CSS Properties task pane, 133–135, 160–163**
- CSS Reports task pane**
  - checking CSS styles with, 144
  - Errors tab, 144–145
  - exploring Theme style usage, 156–157
  - Usage tab, 145
- CSS tab, Page Editor, 131–132**
- Current Navigation, Themes for, 171–173**
- custom actions**
  - ACTIONS file. See ACTIONS file
  - adding functionality to, 387–389
  - adding item to custom list when testing, 403–404
  - creating, 376–382
  - creating workflow in SharePoint Designer for testing, 400–402
  - deploying ACTIONS file, 396–398
  - properties for, 382–387
  - test list for, 398–400
  - testing, 398
  - troubleshooting, 404–405
- custom Web Parts, 407–434**
  - adding assembly to GAC, 426
  - adding controls, 414–417
  - adding event handlers, 418–420
  - adding functionality to, 420–425
  - adding to Web Part gallery, 428–430
  - CommandField class, 417–418
  - creating user interface, 414–425
  - creating Web Part, 409–414
  - deploying, 425
  - overview of, 407–408
  - requirements for, 407

- summary, 434
- testing, 430–433
- troubleshooting, 433–434
- updating web.config file, 426–427
- customization**
  - ghosted pages and, 90
  - lost ties and, 91–92
  - Master Pages, 104–105
  - performance and, 92
  - reports, 470
  - reverting to previously existing pages, 92–93
  - Themes, 158

## D

### Data Command

- server-side scripts, 277–278
- XML Web Services, 279

### Data Form Web Part

- displaying type of field, 311
- overview of, 296

### Data Forms. See Data View Web Part data forms, ASP.NET. See ASP.NET data forms

### Data Source Library

- adding/modifying data sources, 273–274
- BDC and, 280
- connecting to other Data Source Libraries, 281
- connecting to other sites in different site collection, 282
- connecting to other sites in same site collection, 281
- creating Data Views from, 254–257
- data source types, 272
- database connections, 275–276
- lists and libraries automatically added to, 274–275
- overview of, 253–254
- server-side scripts, 277–278
- summary, 294
- XML files, 276–277
- XML Web Services, 278–280

### Data Source Library task pane, 304

### **data sources**

- adding/modifying, 273–274
- connecting controls to, 306–308
- creating, 284–285
- external, 284–285
- linking, 282–284
- types of, 272

### **data types**

- update queries for, 309
- variables, 228

### **Data View Web Part, 251–254**

- changes caused by conversion to, 252–253
- conditional formatting, 261–263
- converting List View Web Parts to, 252
- creating external data source, 284–285
- creating from Data Source Library, 254–257
- editing basics, 261
- enabling editing on, 310
- exploring, 292
- exporting, 293
- getting connected, 291–292
- hierarchical data and, 284
- inserting, 286–289
- modifying properties, 263–264
- multimode Data Views, 308–311
- overview of, 47, 251
- reverting back to List View, 253–254
- subviews, 289–291
- table presentation of, 261

### **Database Connection wizard, 275**

### **database connections**

- configuring for ASPNET forms, 304–305
- creating, 275–276
- data source types, 272

### **databases, types of, 63–65**

### **DDRK (Digital Dashboard Resource Kit), 491, 493**

### **declaring Themes, 153–154**

### **default style sheets, 99–100**

### **default.master**

- content regions, 101–102
- default style sheets and, 99–100

### **deploying**

- ACTIONS file, 396–398
- custom Web Parts, 425

### **Design view**

- CEWP and, 328–330
- Code view compared with, 18
- overview of, 7
- page sizes and browser preview, 11–14
- table-editing tools, 9–11
- Visual Aids, 7–9

### **designer's perspective, 67–86**

- content types, 73
- Contributor groups, 81–85
- Contributor Settings, 78–80
- galleries, 73–75
- identifying SharePoint components, 69–70
- libraries, 71–72
- list and library properties, 75–76
- lists, 72–73
- opening SharePoint sites, 67–69
- permissions levels vs. Contributor Settings, 80–81
- region types, 85–86
- Security tab options, 77
- Settings tab options, 76–77
- summary, 86
- Supporting Files tab, 78
- workflows, 75

### **Digital Dashboard Resource Kit (DDRK), 491, 493**

### **display forms, 313–315**

### **DLLs. See assemblies**

### **docking positions, toolbars and task panes, 22**

### **Document Library, 37**

### **DOM (Document Object Model), 342, 364**

### **DOMObject property, 348, 364**

### **Dreamweaver, .DWT (Dynamic Web Template), 96**

### **.DWT (Dynamic Web Template), 96**

### **dynamic Web Parts, 255**

### **Dynamic Web Template (.DWT), 96**

**E****edit forms, creating, 313–315****editing**Content Editor Web Part. See CEWP  
(Content Editor Web Part)

Data Views, 261

Page Editor. See Page Editor

rich text editor, 323–324

Script Editor, 19–20, 341

SharePoint Designer as web editor, 3–5

source editor, 324–325

workflows, 222–224

**email alerts, 215****encoding, HTML forms, 300****error checking**

CSS styles, 144–145

custom actions, 404–405

custom Web Parts, 433–434

**Errors tab, CSS Reports, 144****event handlers, adding to custom Web Part,  
418–419****events, Web Part Page**

connection events, 359

overview of, 354

prompted save events, 359–360

raising own events, 358–359

registering for, 355–356

system events, 356–358

**Execute method, custom action,  
387–389****Export function**

STSADM.EXE, 476

Web Parts, 342–343

**exporting**

Data View Web Part, 293

reports, 470

templates, 480

workflows, 440–443

**Expression Web, 3****eXtensible Stylesheet Language. See XSL  
(eXtensible Stylesheet Language)****eXtensible Stylesheet Language****Transformation. See XSLT (eXtensible  
Stylesheet Language Transformation)****External Content Link option, CEWP, 325****F****F5 key, for testing add-ins, 456****field controls, page layouts, 202–205****FieldBind element, ACTIONS file, 392****Field-level entry forms, Workflow  
Designer, 219****fields**

grouping, 249–250

sorting, 249

**Fields option, List View control menus, 247****files**extracting from downloaded SharePoint  
Designer package, 444

Folders web site view, 26–27

physical layout of files on SharePoint  
servers, 62**Files report, site content, 467****Filter options, List View field items, 251****filters, customizing reports and, 470****Firefox, 13****folders**

contents of theme folders, 152–153

Folders web site view, 26–27

**fonts, Themes for customizing, 160–163****form field background, Themes for, 179****Form Web Part, 47, 296****formats**

conditional formatting, 261–263

formatting vs. styling, 123–124

IIS logs and, 474

themes and, 58

**FormDigest, placeholders, 122****forms, 295–318**

ASP.NET. See ASP.NET data forms

connecting to list or document library, 315

creating list or library forms, 312–313

display and edit forms, 313–315

HTML. See HTML forms

multimode Data Views, 308–311

new item form, 313

overview of, 295

return to sender option, 316–317

summary, 318

Themes for form field background, 179

tools for, 295–297

## **Forms Library, 296**

### **FPSE (FrontPage Server Extensions), 489–490**

#### **FrontPage**

- .DWT (Dynamic Web Template), 96
- extension functions supported by SharePoint servers, 301–302
- history of SharePoint/SharePoint Designer and, 489–490
- SharePoint Designer and, 3
- Themes and, 149

### **FrontPage Server Extensions (FPSE), 489–490**

## **G**

### **GAC (Global Assembly Cache)**

- adding custom action assembly to, 396
- adding custom Web Part assembly to, 426
- physical layout of files on SharePoint servers, 62

#### **galleries**

- Content Type gallery, 196
- libraries, 58–59
- Master Page gallery. See Master Page gallery
- moving templates between template galleries, 479–480
- overview of, 73–75
- page layouts in, 195–196
- site-level settings, 58–59
- template gallery, 479–481
- Web Part gallery, 428–430

### **Get options, Web Part connections, 259**

### **ghosted/unghosted pages, 90, 494**

#### **.gif file, Theme folder contents, 152**

### **Global Assembly Cache (GAC)**

- adding custom action assembly to, 396
- adding custom Web Part assembly to, 426
- physical layout of files on SharePoint servers, 62

#### **global navigation**

- changing background color, 158–160
- customizing links, 167
- placeholder for global navigation bar, 110–112

SharePoint functions, 34

Themes for, 169–170

#### **groups**

- Contributor Settings, 81–85
- List View field items, 249–250
- permissions, 54–55

## **H**

#### **<head> section**

- CSS code placement in, 124–125
- HTML (Hypertext Markup Language), 109

#### **Hide Content, conditional formatting actions, 262–263**

#### **hierarchical data**

- creating data source for, 284–285
- further explorations, 292
- getting connected, 291–292
- inserting Web Parts, 285–289
- inserting/customizing subview, 289–291
- overview of, 284
- recursion and, 420–421

#### **hierarchical structures, sites, 119–121**

#### **home page, SharePoint default, 33–35**

#### **HTML (Hypertext Markup Language)**

- adding HTML elements from Toolbox task pane, 297
- creating HTML page and inserting elements, 366
- CSS styles and, 123–124
- <head> section, 109
- programs generating automation of, 89
- table-editing tools, 9–11

#### **HTML forms, 297–302**

- back-end processing action, 299–300
- creating, 297–299
- FrontPage processing, 301–302

#### **HTTP (Hypertext Transfer Protocol), 277–278**

##### **HTTP Get**

- HTML forms and, 300
- methods for submitting Web forms, 277–278

##### **HTTP Post**

- HTML forms and, 300

methods for submitting Web forms,  
277–278

### hyperlinks

changing font colors of global links,  
160–163  
customizing, 167  
Hyperlinks view, 29–31  
Problems reports, 467  
Themes for, 167–168

### Hyperlinks report, 467

**Hypertext Markup Language. See HTML  
(Hypertext Markup Language)**  
**Hypertext Transfer Protocol (HTTP),  
277–278**

## I

**icons, identifying SharePoint components,  
69–70**

**IDE (Integrated Development Environment),  
SharePoint Designer as, 4**

**IIS (Internet Information Services)**

logging, 468, 474  
resetting, 165

**Image Web Part, 47**

**@Import statement, saving CSS styles to  
an external location, 129**

**importing templates, 480**

**.inf file, Theme folder contents, 152–153**

**infinite loops, 240–241**

**InfoPath forms, 295–596**

**inheritance, CSS styles, 125**

**initiation forms**

collecting initiation parameter values, 221  
example, 227–228

**initiation parameters**

designing workflows and, 216  
starting workflows and, 226–227  
types of, 227

**Integrated Development Environment (IDE),  
SharePoint Designer as, 4**

**IntelliSense, 15–16**

**IntelliSense tab, Page Editor, 130–131**

**Internet Explorer, 13**

**Internet Information Services (IIS)**

logging, 468, 474  
resetting, 165

**items, list, 35**

## J

**joined data sources, 284**

**.jpeg file, Theme folder contents, 152**

## K

**Kerberos, Windows integrated  
authentication, 53**

## L

**layout tables**

inserting, 11  
overview of, 9

**layouts**

Change Layout options in List View control  
menus, 247–249  
CSS layouts and, 136  
page layout. See page layouts

**\_layouts folder**

Themes and, 149  
web page anatomy, 93

**left actions, for displaying recent item  
menu, 121**

**left navigation bar, web page anatomy,  
117–121**

**libraries**

automatically added to Data Source Library  
task pane, 274–275  
columns (fields) in, 39–40  
connecting forms to list or document  
library, 315  
content types and, 40–41  
creating library forms, 312–313  
customizing, 39  
Data Source Library. See Data Source  
Library  
data source types, 272

### **libraries (continued)**

- default types, 36–38
- Forms Library, 296
- galleries, 58–59
- overview of, 35–36, 71–72
- Pages library, 195, 207
- properties, 75–76
- Security tab options, 77
- Settings tab options, 76–77
- Supporting Files tab, 78
- templates, 477
- Themes for descriptive text, 175
- Themes for toolbar for, 180
- user perspective, 36–38
- view pages, 98–99
- views, 41–42
- Workflow Activity Library template, 377
- Workflow library, 220–221

### **Library View pages, 98–99**

#### **linked data sources**

- data source types, 272
- overview of, 282–284

#### **links. See hyperlinks**

#### **list actions, 231, 234–235**

#### **list forms, 312–313**

#### **list templates**

- overview of, 477
- saving, 478–479

### **List View pages, 98–99**

#### **List View Web Part**

- adding to Web Part pages, 244–245
- converting to Data View, 252
- overview of, 47
- reverting Data View back to, 253–254

### **List View Web Part control menus, 246–251**

- Change Layout options, 247–249
- Fields option, 247
- Filter options, 251
- overview of, 246–247
- Sort and Group options, 249–251

#### **lists**

- adding items to custom lists when testing
  - custom actions, 403–404
- Automatically added to Data Source
  - Library task pane, 274–275

- columns (fields) in, 39–40
- content types and, 40–41
- creating test list for custom actions,
  - 398–400
- customizing, 39
- data source types, 272
- default types, 36–38
- galleries, 58–59
- overview of, 35–36, 72–73
- properties, 75–76
- saving list templates, 478–479
- Security tab options, 77
- Settings tab options, 76–77
- Supporting Files tab, 78
- templates, 477
- Themes for descriptive text, 175
- Themes for toolbar for, 180
- view pages, 98–99
- views, 41–42

#### **logging**

- IIS logging, 468, 474
- scattered log files and, 474
- usage reports and, 464

#### **\_LogonUser\_ token, 340**

#### **logos, Themes for, 168**

#### **lost ties, web page anatomy and, 91–92**

## **M**

#### **main body area, web page anatomy, 121–122**

#### **Manage Styles task pane**

- changing font colors of global links,
  - 160–163
- identifying styles and, 133
- order of styles in, 136

#### **manifest.xml, 445**

#### **.master file, 189–191**

#### **Master Page gallery**

- default Master Pages accompanying
  - MOSS, 186–188
- preview images of page layouts in, 206
- saving layout page to, 206–207
- saving Master Pages to, 190

**Master Pages, 188–194**

- applying to publishing site, 193–194
- as basis for generated pages, 94–95
- building preview image, 191–192
- content regions and, 99, 101–104
- corruption of, 191
- creating, 332
- creating for publishing sites, 188
- creating .master file, 189–191
- CSS styles and, 126–127
- custom, 104–105
- in default installation of MOSS, 186–188
- default style sheets, 99–100
- example of minimal Master Page (wssminimum.master), 105–107
- example of not-so-minimal Master Page (purefunction.master), 108–110
- gallery and, 58
- publishing, 192–193
- publishing sites and, 185–186
- running CSS Reports on, 156
- Themes and, 58
- Themes compared with, 149
- Themes for bottom area of, 177

**membership providers, authentication methods, 52****merged data sources, 283****Microsoft FrontPage. See FrontPage****Microsoft Office 2007, 435–436****Microsoft SharePoint Server (MOSS). See MOSS (Microsoft SharePoint Server)****Microsoft Site Server 3.0, 491****MOSS (Microsoft SharePoint Server)**

- Alternate CSS feature, 128
- default Master Pages accompanying, 186–188
- Publishing Pages, 107
- SharePoint history and, 496
- sites, 59

**Mozilla Firefox, 13****multimode Data Views, 308–311****MVP workaround, MOSS sites and WSS sites and, 59****My Links, 167–168****My Site, 167****N****navigation**

- elements, 56–58
- global and site-level, 34
- left navigation bar in web page anatomy, 117–121
- page navigation breadcrumb, 171
- top (tab) navigation area in web page anatomy, 113–115

**navigation data source, 117****Navigation Web Site view, 29–31****nested data. See hierarchical data****.NET framework, 493–494****new item form, 313****new items toolbar, Themes for, 178–179****New Project dialog, 438****NTLM, Windows integrated authentication, 53****O****objects. See also client-side object model**

- WebPartPage object, 347
- WPSC child objects, 346–347

**Office 2007, 435–436****Office Server Extensions (OSE), 490****Open Site dialog box, 189****opening SharePoint sites, 68–69****operations, XML Web Services, 280****Operations section, Central Administration, 61****OSE (Office Server Extensions), 490****overrides, CSS styles, 125****P****page anatomy. See web page anatomy****Page Edit Bar, web page anatomy, 115–116****Page Editor**

- Code view, 14–15
- Design view, 7
- IntelliSense and, 15–16

### **Page Editor (continued)**

- overview of, 6–7
- page sizes and browser preview, 11–14
- Script Editor and, 19–20
- Split view, 20–21
- styles-related tabs, 130
- table-editing tools, 9–11
- Visual Aids, 7–9
- visual coding, 18

### **page initialization**

- Web Part example, of client-side objects, 366–367
- Web Part example, using client-side objects, 366–367
- WPSC, 346

### **page layouts**

- content types and, 196–197
- creating content type for, 197–199
- creating with SharePoint Designer, 200–202
- decoupling a page from, 210–211
- existing in Master Page gallery, 195–196
- field controls, 202–205
- Master Pages and, 185–186
- options for creating, 199–200
- overview of, 195
- preview image of, 206
- publishing pages based on, 207–210
- saving, 206–207
- summary, 211
- Web Parts and Web Parts Zones added to, 205

### **Page Layouts and Site Templates, Site Settings, 195**

### **page mode toolbar, Page Editor elements, 7**

### **page navigation breadcrumb, Themes for, 171**

### **page services, WPSC, 346**

### **page title area, web page anatomy, 116–117**

### **Page Viewer Web Part, 47**

### **page-editing options, CSS styles, 130–132**

### **Pages library**

- Content Pages in, 195
- page layouts in, 207

### **Parameter element, ACTIONS file, 392**

### **parameters**

- HTTP method and Data Command, 278
- XML Web Services, 280

### **Parts collection, WPSC collections, 348–351**

### **PartStorage property, Web Part storage, 363**

### **performance, customization and, 92**

### **permissions**

- Contributor Settings vs., 80–81
- creating page layouts and, 196
- groups, 54–55
- overview of, 51–52
- users, 52–54

### **personal mode, Web Part Pages, 363–364**

### **personalization**

- shared mode vs. personal mode, 363–364
- Web Part storage, 363–364

### **placeholders**

- content, 104
- default.master content regions, 101–102
- for items generally not visible, 122
- working with content placeholders, 97

### **portability, of Content Editor Web Part, 342–343**

### **ports, XML Web Services, 279**

### **preview images**

- building for Master Page, 191–192
- of page layouts, 206

### **Problems reports, 467**

### **project templates add-in**

- installing, 436–438
- warning messages, 438

### **Project Types, Visual Basic or Visual C#, 376**

### **projects, New Project dialog, 438**

### **prompted save events, Web Part Page event model, 359–360**

### **properties**

- CSS Properties task pane, 133–135
- custom actions, 382–387
- Data Views, 263–264
- forms, 299–300
- list and library, 75–76

PartStorage property, 363  
 Web Parts, 348–349

Properties **collection**  
 defining properties in, 363  
 Web Part storage and, 360  
 WPSC collections, 351–354

**publishing**  
 as backup method, 476  
 custom Themes, 163–165  
 Master Pages, 192–193  
 pages, 207–210

**publishing sites, 188–194**  
 applying Master Page to site, 193–194  
 building preview image for Master Page,  
 191–192  
 creating .master file, 189–191  
 creating Master Pages for, 188  
 Master Pages and, 185–186  
 publishing the Master Page, 192–193  
 reports, 472–473  
 WCM (web content management) and,  
 184–185

**purefunction.master, 108–110**

## Q

**query editor, 274**

**Query Web Part, 338–339**

**Quick Launch bar**  
 components of, 117–119  
 local navigation and, 56

**quick launch navigation, Themes for,  
 171–173**

**Quick Tag Selector, Page Editor elements, 7**

## R

**raising events, 354, 358–359**

**recent items menu, 121**

**recursion, hierarchical structures and,  
 420–421**

**Recycle bin, 121**

**region types, Contributor Settings, 85–86**

**registering events, 355–356**

**Remote Procedure Call (RPC) interface, 300**

**Remote Web Site view, 27–28**

**rendering content, CEWP, 325**

**report link, Site Settings, 472**

**reports**  
 accessing, 466  
 advanced/publishing web-based reports,  
 472–473  
 basic web-based reports, 471–472  
 building own, 474  
 configuring for usage reporting, 464–466  
 customizing/exporting, 470  
 overview of, 463–464  
 search web-based reports, 473  
 site content, 467–468  
 Site Summary report, 28–29  
 site usage, 468–470  
 types of, 467  
 web-based, 470

**resource references (.resx files), 109**

**restores, 475–476**

**.resx files (resource references), 109**

**return to sender option, forms, 316–317**

**rich text editor, 323–324**

**role providers, authentication methods, 52**

**RPC (Remote Procedure Call) interface, 300**

RuleDesigner element, **ACTIONS file, 391**

## S

**save, prompted save events, 359–360**

**Save method**  
 Web Part example, using client-side  
 objects, 367  
 Web Part storage and, 361

**SaveResults webbot, FrontPage, 301–302**

**Script Editor**  
 accessing, 20  
 running scripts in browser before saving,  
 341  
 testing scripts, 19–20

**search box, removing, 327–328**

**search controls, Themes for, 169**

**search databases, 63**

**Search Queries, Search Reports, 473**

### **search reports, web-based, 473**

### **Search Results, Search Reports, 473**

### **Search Server**

- content management options, 184
- CSS styles and, 128
- Master Pages in default installation of, 186–188
- Publishing features, 472
- Search Reports, 473
- usage analysis and, 465

### **secondary workflows, 240–241**

### **Security tab options, for lists and libraries, 77**

### **security trimming, 51–52**

### **selectors, CSS, 126**

### **Self Service Site Creation, 475**

### **Send options, Web Part connections, 258**

### **Server Extensions**

- accessing SharePoint sites and, 67
- overview of, 68

### **server farms, SharePoint**

- Central Administration and, 60–61
- sharing templates at farm level, 481

### **server-level settings**

- Central Administration, 60–61
- database types, 63–65
- file structure, 62
- overview of, 59–60
- STSADM.EXE command, 62

### **servers, combining information to create web pages, 90–91**

### **server-side scripts**

- creating connection to, 277–278
- data source types, 272

### **services, XML Web Services, 279**

### **Settings tab options, for lists and libraries, 76–77**

### **Shared Content, site content reports, 467**

### **shared mode, Web Part Pages, 363–364**

### **SharePoint Designer, introduction**

- code snippets, 16–18
- Code view, 14–15
- Design view, 7
- files and folders (Folders web site view), 26–27
- general purpose task panes, 24–25

IntelliSense and, 15–16

managing toolbars and task panes, 22–24

Navigation Web Site view, 29–31

Page Editor, 6–7

page sizes and browser preview, 11–14

Remote Web Site view, 27–28

reporting tools (Site Summary report), 28–29

Script Editor and, 19–20

SharePoint-specific task panes, 26

Split view, 20–21

summary, 32

table-editing tools, 9–11

toolbar list, 24

toolbars and task panes, 21

Visual Aids, 7–9

visual coding, 18

web site views (structural), 26

### **SharePoint history**

ancestors in family tree, 491

current versions of SharePoint and SharePoint Designer, 495–496

.NET framework and, 493

SharePoint Portal Server 2001, 493

SharePoint Portal Server 2003, 494–495

SharePoint Team Services (1.0), 492

SPS and STS, 491

WSS (Windows SharePoint Services), 494

### **SharePoint Portal Server (SPS)**

CMS (Content Management Server) and, 184

SharePoint history and, 491, 493

SharePoint Portal Server 2001, 493

SharePoint Portal Server 2003, 494–495

### **SharePoint Team Services (STS)**

SharePoint history and, 491, 493

SharePoint Team Services (1.0) and, 492

### **shell page, creating, 341–342**

### **Show Content, conditional formatting actions, 262–263**

### **Site Actions menu, 114–115, 170–171**

### **site collections, Central Administration and, 61**

### **site content reports, 467–468**

**site definitions, 482–487**

- converting customized site to, 484–487
- expanding collection of SharePoint site types, 36
- governance and, 483
- overview of, 482–483
- performance and, 483
- upgrades and, 484

**site hierarchy (Tree view), 119–121****site logos, Themes for, 168****Site Master Page settings, 194****Site Server 3.0, 491****Site Settings**

- enabling ASP.NET Development Server, 302–304
- Page Layouts and Site Templates, 195
- report link, 472

**Site Summary report**

- accessing, 466
- reporting tools, 28–29
- web-based, 472

**site titles**

- Themes for, 168–169
- web page anatomy, 112

**site usage reports**

- overview of, 468–470
- web-based, 471

**site-level navigation, SharePoint****functions, 34****site-level settings**

- administrator's perspective, 54–55
- galleries, 58–59
- group permissions, 54–55
- navigation elements (global and local), 56–58
- overview of, 49–50
- permissions, 51–52
- user authentication and permission, 52–54

**sites, defined, 5. See also web sites****Solution Packages, as installation****mechanism for server-side****modules, 477****Sort and Group options, List View control****menus, 249–251****sorting List View field items, 249****source editor, CEWP editing options for web browsers, 324–325****sources, Web Part connections, 259–260****SPGridView control, 415****Split view**

- Page Editor, 20–21
- page layouts and, 201

**SPS (SharePoint Portal Server)**

- CMS (Content Management Server) and, 184
- SharePoint history and, 491
- SharePoint Portal Server 2001, 493
- SharePoint Portal Server 2003, 494–495

**SPTHEMES.xml file, 153****SQL Servers, 63****standard tables**

- inserting, 10
- overview of, 9

**stapled features, 92****start options**

- designing workflows and, 216
- ways for starting a workflow, 224–225

**status bar, Page Editor elements, 7****steps, workflow**

- designing workflows and, 216
- overview of, 229
- Workflow definition file, 221

**storage. See Web Part storage****.STP files, 477. See also templates****structure, SharePoint, 33–35****STS (SharePoint Team Services)**

- SharePoint history and, 491, 493
- SharePoint Team Services (1.0) and, 492

**STSADM.EXE**

- backing up with, 476–477
- Backup function, 477
- Export function, 476
- overview of, 62

**Style Application toolbar**

- changing background color of global navigation area, 158–160
- changing existing CSS styles with, 142–143

**style sheets, 99–100. See also CSS (Cascading Style Sheets); Themes**

**Style toolbar, applying quick CSS styles with, 143–144**  
**styles. See CSS (Cascading Style Sheets)**  
**styling vs. formatting, 123–124. See also CSS (Cascading Style Sheets)**  
**subview, Data View Web Part, 289–291**  
**Supporting Files tab, for lists and libraries, 78**  
**synchronization, of two web sites, 27**  
**system events, Web Part Page event model, 356–358**

## T

### tab bar

Page Editor elements, 6  
top navigation area, 113–115

### table-editing tools, 9–11

### tables

Data Views, 261  
standard, 9, 10  
Web Part example, using client-side objects, 368–369

### tags, invoking SharePoint functionality on web pages, 107

### targets, Web Part connections

mapping source and target entities, 259–260  
selecting, 259

### task actions, 231, 235–237

### task panes

CSS Properties, 133–135, 160–163  
CSS Reports, 144–145, 156–157  
CSS styles and, 132–133  
Data Source Library, 274–275, 304  
general purpose, 24–25  
Manage Styles, 133, 136  
managing, 22–24  
overview of, 21  
SharePoint-specific, 26  
Toolbox, 202–205, 296–297  
Web Parts, 244

### Task Panes menu item, 132

### template gallery

moving templates between template galleries, 479–480  
sharing templates at farm level, 481

### templates

expanding collection of SharePoint site types, 36  
exporting/importing, 480  
information regarding, 480–481  
list and library templates, 477  
moving between template galleries, 479–480  
project templates add-in, 436–438  
publishing site template, 184–185  
saving list templates, 478–479  
saving site templates, 479

### testing

add-ins, 456–462  
custom actions, 398–404  
custom Web Parts, 430–433  
Script Editor, 19–20

### Themes, 147–181

background colors, 158–160  
banners and backgrounds, 166  
bottom area of Master Page, 177  
calendar list, 175–177  
CCS files and, 57–58  
contents of theme folders, 152–153  
CSS Reports and, 156–157  
CSS styles and, 126–127  
customizing, 158  
declaring, 153–154  
exploring applied, 154–155  
font colors, 160–163  
form field background, 179  
global navigation, 169–170  
links, 167–168  
list or library description text, 175  
location in 12 hive, 150–151  
new items toolbar, 178–179  
overview of, 147–149  
page navigation breadcrumb, 171  
publishing custom, 163–165  
Quick Launch navigation area, 171–173  
search controls, 169  
SharePoint, 149–150  
site actions menu, 170–171

- site logos, 168
- site titles, 168–169
- summary, 180–181
- title area of Web Part Page, 178
- toolbar for lists and libraries, 180
- tree view pane, 173
- Web Parts, 174
- third-party backup tools, 477**
- titles**
  - creating workflows and, 217–218
  - page title area, 116–117
  - site title area, 112
  - Themes for site titles, 168–169
  - Themes for title area of Web Part Page, 178
- tokens, CEWP and, 339–341**
- toolbars**
  - CSS styles and, 132–133
  - list and description of, 24
  - lists and libraries and, 180
  - managing, 22–24
  - new items toolbar, 178–179
  - overview of, 21
  - Style Application toolbar, 142–143
  - Style toolbar, 143–144
- Toolbox task pane**
  - exploring field controls, 202–205
  - methods for adding Toolbox elements, 297
  - working with forms and other components, 296–297
- tools**
  - for forms, 295–297
  - table-editing, 9–11
  - third-party backup, 477
  - VSTO (Visual Studio Tools for Office), 435–436
- top (tab) navigation area, web page anatomy, 113–115**
- TopNavigationMenu (Tab bar), 113–114
- tree view**
  - site hierarchy, 119–121
  - Themes for, 173
- triggers, Web Part connections, 260–261**
- tri-state workflows, 215**
- troubleshooting**
  - custom actions, 404–405
  - custom Web Parts, 433–434

## U

- update queries, for data types, 309**
- upgrades, compatibility and, 484**
- usage reports**
  - configuring, 464–466
  - function of, 467
  - site usage reports, 468–470
  - web-based, 471
- Usage Summary report, 469**
- Usage tab, CSS Reports, 145**
- user interface, creating for custom Web Part, 414–425**
- user permissions, 52–54**
- user perspective**
  - columns (fields) in custom lists and libraries, 39–40
  - content, 35–36
  - content types, 40–41
  - customizing lists and libraries, 39
  - default SharePoint home page, 33–35
  - lists and libraries, 36–38
  - standard Web Parts, 46–47
  - summary, 48
  - views, 41–42
  - Web Part connections, 47
  - Web Part Zones, 43–46
  - Web Parts, 42
- utility content, placeholders, 122**

## V

- variables**
  - designing workflows and, 216
  - types of variable data types, 228
  - in workflows, 228
- VB.NET**
  - adding functionality to custom actions, 387–389
  - creating add-ins, 440–456
  - creating custom actions, 381–382
  - creating custom Web Parts, 413–414
  - creating properties for custom actions, 383–387

**VB.NET (continued)**

creating user interface for custom Web Parts, 415–425

**Vermeer Technologies, 489**

**view pages, list and library, 98–99**

**views, lists and libraries, 41–42**

**Visual Aids, Design view, 7–9**

enabling/disabling, 8–9

overview of, 7

**Visual Basic, Project Types, 376**

**Visual C#, Project Types, 376**

**visual coding, Code view and, 18**

**Visual Studio Content Installer, 437**

**Visual Studio (VS)**

creating Master Pages with, 188

creating page layouts with, 199–200

**Visual Studio (VS), workflow elements, 375–405**

Action element, 391

ACTIONS file, 390–391

adding functionality to custom actions, 387–389

adding item to custom list when testing custom actions, 403–404

creating custom actions, 376–382

creating custom ACTIONS file, 392–396

creating custom list for testing custom actions, 398–400

creating properties for custom actions, 382–387

creating workflow in SharePoint Designer for testing custom actions, 400–402

deploying custom actions, 396–398

FieldBind element, 392

overview of, 375

Parameter element, 392

RuleDesigner element, 391

summary, 405

testing custom actions, 398

tools required, 375–376

troubleshooting custom actions, 404–405

**VSTO (Visual Studio Tools for Office), 435–436**

## W

**W3C (World Wide Web Consortium), 124**

**WCM (web content management), 183–185**

overview of, 183–184

publishing sites and, 184–185

SPS and CMS and, 184

**web applications, Central Administration as custom SharePoint web application, 60**

**web browsers, 11–14**

adding to preview list, 13–14

CEWP editing options, 322

creating page layouts with, 199

CSS styles and, 123–124

Preview in Browser function, 12

preview options and, 11

**web content management (WCM), 183–185**

overview of, 183–184

publishing sites and, 184–185

SPS and CMS and, 184

**web design, role of FrontPage in, 489–490**

**Web Distributed Authoring and Versioning (WebDAV)**

accessing SharePoint sites and, 67

overview of, 68

SharePoint history and, 490

**web editor, SharePoint Designer as, 3–5**

**Web forms**

ASP.NET. See ASP.NET data forms

HTML. See HTML forms

method for submitting, 277–278

**web page anatomy**

Content Pages, 96–97

content regions and, 101–104

default style sheets, 99–100

example of minimal Master Page (wssminimum.master), 105–107

example of not-so-minimal Master Page (purefunction.master), 108–110

global navigation placeholder, 110–112

\_layouts folder, 93

left navigation bar, 117–121

- List View/Library View pages, 98–99
- lost ties and, 91–92
- main body area, 121–122
- Master Pages as basis for generated pages, 94–95
- overview of, 89
- Page Edit Bar, 115–116
- page title area, 116–117
- performance and, 92
- reverting to previously existing pages, 92–93
- servers combining information to create pages, 90–91
- site title area, 112
- summary, 122
- tags, 107
- top (tab) navigation area, 113–115
- Web Parts pages, 94
- Web Part connections, 47**
  - converting List View to Data View and, 252–253
  - creating, 257–258
  - Get options, 259
  - mapping source and target entities, 259–260
  - overview of, 257
  - Send options, 258
  - target selection, 259
  - trigger definitions, 260–261
- Web Part example, using client-side objects, 365–372**
  - creating functions for, 367–371
  - creating HTML page and inserting elements, 366
  - initializing, 366–367
  - overview of, 365–366
  - using created page, 371–372
- Web Part gallery, 428–430**
- Web Part Page event model, 354–360**
  - connection events, 359
  - overview of, 354–355
  - prompted save events, 359–360
  - raising own events, 358–359
  - registering for an event, 355–356
  - system events, 356–358
- Web Part Page Services Component. See WPSC (Web Part Page Services Component)**
- Web Part Pages**
  - adding List View Web Part to, 244–245
  - coordinating functions of. See WPSC (Web Part Page Services Component)
  - function of, 345
  - overview of, 43, 94
  - placing custom list and library forms on, 311–312
  - SharePoint history and, 494
  - Themes for title area of, 178
- Web Part Qualifier, 339–340**
- Web Part storage, 360–364**
  - example of property update, 361–362
  - overview of, 360
  - PartStorage property, 363
  - personalization and, 363–364
  - Properties collection, 360
  - saving changes and, 361
- Web Part Zones**
  - adding to page layouts, 205
  - dynamic Web Parts, 255
  - inserting, 244
  - inserting into table cells, 333
  - overview of, 43–46
- Web Parts**
  - adding to page layouts, 205
  - adding to search results example, 333–335
  - changing preview Web Part, 358–359
  - changing results Web Part, 359
  - creating, 409–414
  - custom. See custom Web Parts
  - dynamic, 255
  - Export function, 342–343
  - inserting into Data Views, 285–289
  - overview of, 42
  - properties, 348–349
  - Properties collection, 351–354
  - standard, 46–47
  - styling rules for, 174
  - Web Part connections, 47
  - Web Part Zones, 43–46

### **Web Parts task pane, 244**

#### **web servers**

- publishing custom Themes, 163
- storing CSS styles on, 129

#### **Web Services. See XML Web Services**

#### **web site views (structural)**

- files and folders (Folders web site view), 26–27
- Navigation Web Site view, 29–31
- overview of, 26
- Remote Web Site view, 27–28
- reporting tools (Site Summary report), 28–29

#### **web sites**

- applying Master Page to, 193–194
- connecting to other sites in different site collection, 282
- connecting to other sites in same site collection, 281
- converting customized site to site definitions, 484–487
- creating blank site for backup and restore, 475
- opening SharePoint sites, 67–69
- saving site templates, 479
- Themes applied on per-site basis, 149

#### **web-based reports**

- advanced/publishing, 472–473
- basic, 471–472
- overview of, 470
- search, 473

#### **webbots**

- Confirmation webbot, 302
- SaveResults webbot, 301–302

#### **web.config file**

- updating for custom action, 397–398
- updating for custom Web Part, 426–427

#### **WebDAV (Web Distributed Authoring and Versioning)**

- accessing SharePoint sites and, 67
- overview of, 68
- SharePoint history and, 490

#### **WebPartPage object**

- Parts collection, 348–351
- WPSC, 347

#### **Welcome, Themes for customizing link to, 167–168**

#### **what-you-see-is-what-you-get (WYSIWYG)**

- Data View Web Part and, 253
- Design view and, 7
- rich text editor and, 323

#### **windows, docking positions and, 22**

#### **Windows integrated authentication, 53**

#### **Windows SharePoint Services (WSS)**

- MVP workaround, 59
- SharePoint history and, 494
- SPS (SharePoint Portal Server) and, 184

#### **wizards**

- Database Connection wizard, 275
- List View/Library View pages, 98–99

#### **Workflow Activity Library template, 377**

#### **Workflow configuration file, 221**

#### **Workflow definition file, 221**

#### **Workflow Designer**

- creating new workflow, 216–217
- editing existing workflow, 222–224
- example workflow, 217–221
- Field-level entry forms, 219
- overview of, 215–216

#### **Workflow library, 220–221**

#### **Workflow rule file, 221**

#### **workflows**

- actions, 231–232
- cautions when designing, 240–241
- changing, 237–239
- conditions, 229–231
- core actions, 232–233
- creating, 216–217
- editing existing, 222–224
- example workflow, 217–221
- exporting, 440–443
- initiation forms, 227–228
- initiation parameters, 226–227
- limitations of SharePoint Designer workflows, 239–240
- list actions, 234–235
- overview of, 215
- in SharePoint, 75
- start options, 224–225
- steps, 229
- summary, 241

- task actions, 235–237
- for testing custom actions, 400–402
- transforming SharePoint Designer workflows into Visual Studio workflows, 438
- variables in, 228
- in Visual Studio. *See* Visual Studio (VS), workflow elements
- Workflow Designer, 215–216
- World Wide Web Consortium (W3C), 124**
- \_WPID\_ token, 341**
- \_WPQ\_ token, 339–340**
- \_WPR\_ token, 341**
- WPSC (Web Part Page Services Component), 345–372**
  - child objects, 346–347
  - collections, 347–348
  - overview of, 345
  - page initialization, 346
  - page services, 346
  - Parts collection, 348–351
  - Properties collection, 351–354
  - summary, 372
  - WebPartPage object, 347
- WSS (Windows SharePoint Services)**
  - MVP workaround, 59
  - SharePoint history and, 494
  - SPS (SharePoint Portal Server) and, 184
- wssminimum.master, 105–107**
- WYSIWYG (what-you-see-is-what-you-get)**
  - Data View Web Part and, 253
  - Design view and, 7
  - rich text editor and, 323

## X

### XML

- adding styles to, 264
- creating XML references, 276–277
- data sources and, 272, 273
- SharePoint history and, 493
- XML Path (XPath)**
  - overview of, 265–267
  - XPath Expression Builder, 267–269
- XML Web Part, 47**
- XML Web Services**
  - data source types, 272
  - setting up XML Web Service data source, 278–280
- XPath (XML Path)**
  - overview of, 265–267
  - XPath Expression Builder, 267–269
- XPath Expression Builder, 267–269**
- XSL (eXtensible Stylesheet Language)**
  - creating template files, 265–266
  - Data View editing and, 261
  - as markup language, 265
  - XML and, 264
- XSLT (eXtensible Stylesheet Language Transformation)**
  - creating XSL template file, 265–266
  - Data View. *See* Data View Web Part
  - overview of, 264–265
- XSLT Data Views. *See* Data View Web Part**

## Z

- Zones, Web Parts. *See* Web Part Zones**
- Zune Social Web site, 284**