

Index

A

- Abbreviations in Source Editor
 - for Java files, 81–83
 - for JSP files, 164–165
- Abbreviations dialog box, 83, 164
- Abilities in Mobility projects, 312–314
- AbsoluteLayout forms, 111
- Abstract elements in WSDL documents, 227
- Access modifiers, 103
- Action dialog box, 320
- <action> element, 358
- Action property, 324
- Action Source property, 324
- Active configurations for Mobility projects, 301–302
- Add Ability dialog box, 313–314
- Add Business Method dialog box, 210
- Add Class Exclusion Filter dialog box, 134
- Add CMP Relationship dialog box, 245
- Add Finder dialog box, 246
- Add Keybinding dialog box, 84
- Add Library dialog box, 161
- Add Operation dialog box, 223–224
- Add Project Configuration dialog box, 300
- Add Server Instance wizard, 189–190
- Add Web Service wizard, 230–232
- addressproperty attribute, 351
- Admin Console, 270–271, 274
- Advanced Settings dialog box for CMP Mapping, 248–249
- Anchor constraint, 113
- Ant and Ant scripts, 344–345
 - Ant Debugger module for, 366–367
 - compile files with, 357–359
 - customizing IDE scripts with, 62–66
 - debugging free-form projects, 348–356, 361–365
 - description of, 27
 - expression completion in, 66–67
 - for file-specific commands, 356–357
 - for free-form projects, 345–346
 - in headless build environments, 62
 - for J2EE application servers, 281–282
 - libraries in, 337–339
 - metadata for, 64–65
 - in Mobility projects, 336–339
 - for selected files, 360–361
 - targets in. *See* Targets in Ant scripts
 - templates for, 43
 - for web services, 224–226
- Ant Debugger module, 366–367
- Apache Jakarta, 155–156
- Applets, 173–174
 - creating, 174–175
 - debugging, 175
 - packaging, 176
 - permissions for, 176–177
 - running, 175–176
- application.xml file, 254, 256, 258
- Apply Code Changes feature, 148–149, 363–365
- arity parameter, 358
- Assembling J2EE applications, 253–256
- Assembly descriptors, 244
- Assigned commands in Mobility Screen Designer, 327–328
- Attach dialog box, 129–131
- Auto Popup Javadoc Window property, 77
- Automatic insertion of closing characters, 73–74

B

- Bean-managed persistence (BMP) entity beans, 207–208, 240–243
- Blank files, starting with, 44
- Blocks
 - configuration-specific in Mobility projects, 307–312

- Blocks (*continued*)
 - indenting, 88
 - selecting in Mobility projects, 310
 - BluePrints conventions-compatible J2EE applications, 256–258
 - BluePrints Service Locator patterns, 262
 - BluePrints Solutions Catalog, 191
 - accessing, 192
 - navigating, 192–194
 - projects for
 - creating, 194–198
 - running, 197–198
 - BluePrints Solutions category, 8
 - Bluetooth API, 312
 - BMP (bean-managed persistence) entity
 - beans, 207–208, 240–243
 - Bookmarking code, 93
 - Bottom-up approach to entity beans, 250–252
 - Brackets ([]), automatic insertion of, 73
 - Breakpoints
 - in Ant scripts, 366
 - behavior of, 140
 - class, 136–137
 - conditional, 142
 - continuing execution to, 133
 - deleting, 136, 140
 - enabling and disabling, 140
 - on exceptions, 137–138
 - on fields and local variables, 138
 - grouping, 139
 - line, 126, 135–136
 - logging, 140–141
 - messages for, 141–142
 - on methods and constructor calls, 137
 - setting, 135
 - on threads, 138–139
 - working with, 21
 - Breakpoints window
 - description of, 128
 - working in, 139–141
 - Browsers
 - default, 177
 - running applets in, 175–176
 - viewing files in, 172
 - Build and Run Actions page, 346
 - build folder, 40–41
 - deleting, 54
 - files in, 55
 - for Mobility projects, 293
 - moving, 56
 - for web applications, 154
 - build-impl.xml file, 62–64, 336
 - Build Project command, 172, 347–348
 - build.properties file, 62, 64, 340
 - build.xml file, 40–41
 - in Mobility projects, 336
 - script customization, 62–66
 - version control, putting under, 51–52
 - Builds, 6–8, 18–19
 - customizing scripts for, 62–66
 - fresh, 54
 - headless, 339–340
 - properties for, 55–56
 - results of, 19
 - saving output, 57–58
 - stopping, 54
 - Business interfaces, 205
 - Business logic, 207–208
 - Business methods
 - adding, 208–211
 - for enterprise beans, 207
 - for entity beans, 246
- C**
- Caching locator strategies, 262–263
 - Call Enterprise Bean command, 263–264
 - Call Stack window
 - calls displayed in, 146, 150
 - for debugging Ant scripts, 366
 - description of, 128
 - Callable resources, 268
 - Callback Validation Method Name property, 324
 - Canvases, MIDP, 294–295
 - Change Method Parameters command, 104
 - Change Visible Columns dialog box, 106, 145
 - Characters
 - automatic insertion of, 73–74
 - searching and replacing, 99–100
 - Choose Database dialog box, 265–266
 - Choose Project page, 5
 - Choose Server page, 170, 189
 - Circular dependencies, 304
 - Class members, viewing and navigating, 92
 - Class Name field, 315
 - Classes
 - breakpoints on, 136–137

- finding, 96–98
 - moving, 17, 101–102
 - renaming, 98–99
 - stepping into, 134
 - for web applications, 158–160
- classes folder, 155
- Classes window, 128
- classname attribute, 351
- {className} substitution code, 141
- classpath attribute
 - description of, 351, 356
 - for XML, 335
- Classpath, 44
 - configuring, 12–14
 - folders and JAR files in, 46–47
 - for Mobility projects, 296–298
 - runtime, 59
- CLDC (Connected Limited Device Configuration), 289
- Clean Project command, 347–348
- client.url property, 355
- Closing characters, automatic insertion of, 73–74
- CMP (container-managed persistence) entity
 - beans
 - creating, 240–243
 - refactoring, 285
 - for selecting methods, 208
- Code and code snippets
 - abbreviations
 - adding, changing, and removing, 83
 - expanding, 81–83
 - code completion box
 - disabling automatic display of, 77
 - shortcuts for, 77–78
 - working with, 75–76
 - customizing, 120–121
 - debugging. *See* Debugging
 - file templates, 84–86
 - formatting, 87–91
 - hiding sections, 93–94
 - macros, 83–84
 - matching words in files, 78
 - methods in, 78–79
 - read/write properties, 79–81
 - stepping through, 125, 131–134
- Collapsing code sections, 93–94
- Color for code, 90–91, 310
- Commands
 - in Flow Designer, 321
 - mapping targets to, 347–348, 358
 - refactoring, 104
 - for selected files, 356–357
- Commands category, 321
- Comments, 118, 352
- Comparing files, 107
- Compile JSP command, 171
- compiled folder, 293
- Compiling, 18–19, 53
 - errors in, 20, 57
 - file location in, 55–56
 - files in free-form projects, 357–359
 - fresh builds, 54
 - options for, 53–54
 - saving build output, 57–58
 - selected files and packages, 54
 - into source directories, 56–57
 - stopping builds, 54
 - web services, 224–226
- Completing
 - Ant expressions, 66–67
 - Java statements, 73–74
 - code completion box display in, 77
 - shortcuts for, 77–78
 - working with, 75–76
 - tags, 162–164
- Compliance in J2EE, 282–284
- Component palettes
 - in Flow Designer, 321–322
 - in MIDP Visual Designer, 317
- Components
 - behavior and appearance of, 117
 - refactoring, 166–167
- Concatenating strings, 74
- Concrete elements in WSDL documents, 227
- Conditional breakpoints, 142
- conf folder, 203
- Configuration element for XML, 335
- Configuration Files Folder property, 259
- Configuration-specific code blocks, 307–312
- Configure SOAP Message Handlers dialog
 - box, 236
- Confirm Changes dialog box, 167
- Connected Limited Device Configuration (CLDC), 289
- Connection Wizard, 110, 118–120

- ConnectionFactory class, 267
 - Connector field, 130
 - Console messages for breakpoints, 141–142
 - Constraints
 - in Flow Designer, 325
 - in GridBagLayout, 113
 - Constructor calls, breakpoints on, 137
 - Consuming
 - J2EE resources, 260–268
 - web services, 216–221
 - Container-managed fields, 244
 - Container-managed persistence (CMP) entity
 - beans
 - creating, 240–243
 - refactoring, 285
 - for selecting methods, 208
 - Container-managed relationships, 245
 - Context, debugger, 127
 - context parameter for <action> element, 358
 - Context path, 33, 36
 - Continue command, 132–133
 - Controlling threads, 146–148
 - Copying distribution files, 328
 - Create methods in enterprise beans, 208
 - Create Tests dialog box, 21
 - createJMSMessageForDestinationName
 - method, 268
 - Criteria for task filtering, 106–107
 - Curly braces ({}), automatic insertion of, 73
 - Current threads, 147
 - Cursor position, execution to, 133
 - Custom Components category, 321
 - Custom Creation Code property, 120
 - Customize Breakpoint window, 141–142, 148
 - Customizer for GridBagLayout, 112–116
 - Customizing
 - breakpoints, 136, 140–142
 - build scripts, 62–66
 - code, 120–121
 - console messages, 141–142
 - file templates, 84–86
 - menu items for targets, 366
 - Mobility project configurations, 300–301
 - WAR file contents, 168–169
- D**
- Data sources for entity beans, 246
 - Database Source and Beans Location page, 251
 - Databases, working with, 265–266
 - __DATE__ macro, 85
 - Debug File command, 361–363
 - debug-fix target
 - creating, 364
 - mapping, 364–365
 - Debug Main Project command, 353
 - Debug Project command, 352–356
 - debug.properties file, 354
 - debug-selected-file target
 - creating, 362–363
 - mapping, 363
 - debugcmd attribute, 333, 335
 - Debugger Console, 127
 - Debugging, 124
 - Ant scripts, 366–367
 - applets, 175
 - applications, 21–22
 - Apply Code Changes command, 124, 148–149, 363–365
 - attaching debuggers to applications, 129–131
 - breakpoints for. *See* Breakpoints
 - file selection in, 361–363
 - fixing code during, 148–149
 - Mobility projects, 298–299
 - multiple windows in, 149–150
 - starting, 125–128
 - starting outside of main class, 131
 - stepping through code, 131–134
 - targets for in free-form projects, 348–356, 361–363
 - threads in, 146–148
 - variable and expression monitoring in, 143–146
 - web applications, 171–173, 352–356
 - windows for, 127
 - debugging.properties file, 355
 - debugging.sourcepath property, 355
 - Declarative security, 268–269
 - Default browsers, 177
 - Default String Value field, 315
 - Deleting. *See* Removing and deleting
 - Dependencies
 - in Eclipse projects
 - importing with, 371–373
 - importing without, 373–375
 - for J2EE resources, 264

- in Mobility projects, 304–305
 - in XML, 335
- dependencies attribute, 335
- depends attribute, 355
- Deploying applications
 - mobile, 328–330
 - web, 168–170
- Deployment descriptors
 - declaring, 265
 - for enterprise beans, 211–213
 - for entity beans, 244
 - for web applications, 166–167
- Descriptor files for XML, 331–336
- Design tab, 194
- destroy method, 235
- Device field, 297
- Device Configuration field, 297
- Device fragmentation, 289
- Device Profile field, 297
- Device screen, 327
- Diff command, 107
- Directories in compilation, 56–57
- Disabling
 - breakpoints, 140
 - code completion box display, 77
- Discrepancies in Eclipse projects, 375
- Displaying
 - Favorites window, 274
 - HTTP requests, 181–184
 - Javadoc documentation, 86–87
 - line numbers, 74
 - projects, 49–50
 - toString method values, 145
- displayname attribute, 335
- dist folder, 40–41
 - deleting, 54
 - files in, 55
 - for Mobility projects, 293
 - moving, 56
 - for web applications, 154
- dist properties, 56
- Distribution files
 - changing location of, 55
 - copying, 328
 - in Mobility projects, 305–306
 - in standard projects, 29
- Distributions, NetBeans, 2
- Djava.compiler parameter, 130

- do-clean targets, 56–57
- Document formats for SOAP messages, 228
- Document/literal web services, 228
- Documentation
 - availability of, 47–48
 - displaying, 86–87
 - navigating to, 95
 - referencing, 46
- Downloading
 - Ant Debugger, 366
 - Eclipse Project Importer module, 370
 - Mobility Pack, 288
 - NetBeans IDE, 2–3
 - Sun Java System Application Server, 188
- Drivers, JDBC, 277–279
- DTDs for XML, 332
- Duplicating in Mobility projects
 - code blocks, 310–311
 - configurations, 302–303

E

- EAR (Enterprise Archive) files
 - creating, 210–211
 - packaging J2EE applications into, 254
- Eclipse Project Importer module, 370
- Eclipse Project wizard, 371–373
- Eclipse projects, importing
 - dependencies in, 371
 - importing with, 371–373
 - importing without, 373–375
 - discrepancies in, 375
 - Eclipse Project Importer module for, 370
 - reference problems in, 376–377
- Edit and Replay dialog box, 185–186
- Edit Filters dialog box, 107
- Editing
 - abbreviation expansion, 83
 - default browsers, 177
 - deployment descriptors, 166
 - files, 15–17
 - filters, 107
 - fonts and colors, 90–91
 - formatting rules, 88–90
 - HTTP requests, 185–186
 - Java packages, 17–18
 - Javadoc documentation, viewing, 86–87
 - keyboard shortcuts, 108–109
 - main classes, 58–59

- Editing (*continued*)
 - menu items and shortcuts, 68–69
 - method signatures, 103
 - Mobility project emulator platforms, 296–298, 331–336
 - projects, 6–8
 - target JDKs, 45–46
 - templates, 84–85
 - variables and expressions, 145
 - visual components, 109–119
 - EJB Archive (EAR) files
 - creating, 210–211
 - packaging J2EE applications into, 254
 - EJB (Enterprise JavaBeans technology), 200
 - ejb-jar.xml file, 241–245
 - EJB modules
 - enterprise beans, files, and libraries for, 204–205
 - importing, 258–260
 - projects for, 201–204
 - structure of, 203
 - web services within, 229
 - EJB Query Language, 208, 240, 246
 - ejbCreate method, 241, 244
 - ejbFindByPrimaryKey method, 207, 244
 - ejbLoad method, 241, 244
 - ejbRemove method, 244
 - ejbStore method, 241, 244
 - Elements category, 321
 - Empty files, starting with, 44
 - Emulator Platform field, 297
 - Emulator platforms for Mobility projects, 296–298, 331–336
 - Enabling breakpoints, 140
 - Encapsulate Fields command, 104
 - Encapsulated Fields dialog box, 80
 - Encapsulating fields, 104, 285–286
 - Enter Application Server Location page, 189
 - Enter Registration Properties of an Application Server page, 189–190
 - Enterprise Archive (EAR) files
 - creating, 210–211
 - packaging J2EE applications into, 254
 - Enterprise beans
 - business logic in, 207–208
 - business methods in, 208–211
 - deployment descriptors for, 211–213
 - and EJB modules, 201–205
 - refactoring, 284–286
 - types of, 200
 - working with, 263–264
 - Enterprise JavaBeans technology (EJB), 200
 - Enterprise template category, 28
 - Entity beans, 200, 240–241
 - BMP, 207–208, 240–243
 - bottom-up approach to, 250–252
 - business methods for, 246
 - CMP, 240–243
 - container-managed fields for, 244
 - container-managed relationships for, 245
 - creating, 242–244
 - data sources for, 246
 - finder methods for, 246
 - life-cycle methods for, 244
 - primary key classes for, 244
 - schema mapping for, 246–249
 - top-down approach for, 241–249
 - Error Message field, 315
 - Errors
 - compilation, 20, 57
 - JSP, 171–172
 - Events, component, 117–120
 - Example tab, 194–195
 - Exceptions, breakpoints on, 137–138
 - Existing Sources page, 34
 - Existing Sources and Libraries page
 - for EJB modules, 260
 - for importing projects, 36
 - Expanding
 - abbreviations
 - for JSP files, 164–165
 - for Source Editor, 81–83
 - code sections, 93–94
 - Expressions
 - changing value of, 145
 - completing, 66–67
 - monitoring, 143–146
 - regular, 99
 - watches on, 144
 - Extended methods, overriding, 78–79
 - External references, 47–48
 - External resources for web applications, 158, 160–161
- F**
- Fast Import command, 86
 - Favorites window
 - displaying, 274

- purpose of, 72–73
- working with, 41
- Fields
 - breakpoints on, 138
 - container-managed, 244
 - encapsulating, 285–286
 - names of
 - finding, 96–98
 - renaming, 98–99
 - watches on, 144
- Files
 - adding to projects, 41
 - in classpath, 46–47
 - comparing, 107
 - compiling, 54
 - creating, 15–17, 42–44
 - editing, 15–17
 - for EJB Modules, 204–205
 - matching words in, 78
 - navigating, 91–94
 - searching for, 100–101
 - searching in, 99–100
 - switching between, 94
 - templates for, 43–44
 - creating and customizing, 84–86
 - for mobile applications, 294–295
 - for web applications, 157–162
- Files window
 - for applets, 175
 - for compilation directories, 56–57
 - for debugging, 363
 - for EJB Modules, 202
 - for manifests, 60
 - for navigating, 38–39
 - for new projects, 31
 - for project structure, 19
 - for searches, 100
 - for targets, 63
 - for web applications, 154–155
- Fill constraint, 113
- Filter template, 159
- Filtering panels, 307
- Filters
 - for configuration-specific code, 307
 - for HTTP Monitor, 180–181
 - for libraries, 134
 - for package contents, 60–61
 - for tasks, 106–107
 - for web applications, 159
- Find dialog box, 99–100
- Find in Projects dialog box, 100–101
- Find Usages dialog box, 97, 104
- findByPrimaryKey method, 207, 243, 246
- Finder methods
 - for enterprise beans, 207–208
 - for entity beans, 246
- Finding. *See* Searching and replacing
- Finishing
 - Ant expressions, 66–67
 - Java statements, 73–74
 - code completion box display in, 77
 - shortcuts for, 77–78
 - working with, 75–76
 - tags, 162–164
- Fix Imports command, 86
- Fixed watches, 144–145
- Flow Designer, 321
 - component palettes in, 321–322
 - Inspector in, 322–323
 - property sheets in, 323–326
 - toolbars in, 326
- folder parameter for <action> element, 358
- Folders
 - in classpath, 46–47, 298
 - for importing projects, 34–37
- <folders> element, 359
- Font property, 326
- Fonts
 - changing, 90–91
 - in Flow Designer, 326
- Fonts and Colors dialog box, 90–91
- fork attribute, 351
- Form Editor, 109–110
- .form files, 61, 120
- Form Items category, 321
- Form Tester, 110
- format parameter for <action> element, 358
- Formatting code, 87
 - fonts and colors, 90–91
 - indentation, 88
 - rules for, 88–90
- formLogMessage method, 235–236
- Forms
 - GridBagLayout for, 111–113
 - Inspector windows for, 115
 - templates for, 43
- Forward Displayable property, 324
- Fragmentation, device, 289

- Free-form projects
 - command setup for selected files, 356–357
 - compile file for, 357–359
 - creating, 345–346
 - debugging
 - Apply Code Changes for, 363–365
 - Debug File command for, 361–363
 - setup for, 348–352
 - for web applications, 352–356
 - Run File command for, 360–361
 - targets in
 - custom menu items for, 366
 - JDKs, 365
 - mapping to commands, 347–348, 358
 - for selected files, 360–361
 - FTP for mobile application deployment, 328–329
- G**
- General category, 8, 28
 - Generate Javadoc command, 347–348
 - getTitle method, 325
 - Global Key Bindings dialog box, 77, 108
 - Go To menu, 95
 - Grid Height constraint, 113
 - Grid Width constraint, 113
 - Grid X constraint, 113
 - Grid Y constraint, 113
 - GridBagLayout
 - example of, 114–116
 - for forms, 111–113
 - limitations of, 113–114
 - GridBagLayout Customizer window, 112–116
 - Grouping breakpoints, 139
 - GUI forms, templates for, 43
- H**
- handleFault method, 235
 - handleRequest method, 234–235
 - handleResponse method, 234–236
 - Headless builds
 - environments for, 61–62
 - in Mobility projects, 339–340
 - Hiding
 - code sections, 93–94
 - projects, 49–50
 - toolbars, 108
 - home attribute, 332, 334
 - Home methods, 208
 - host attribute in free-form project debug target, 355
 - Host field in Attach dialog box, 131
 - HTML launcher files, 175–176
 - HTML template, 160
 - HTTP Monitor, 170
 - data analysis in, 181–184
 - for J2EE application servers, 280
 - replaying requests in, 184–186
 - setup for, 178–181
- I**
- Icons, MIDlets, 295
 - <ide-actions> element, 361, 363–364
 - ide-file-targets.xml file, 349, 353
 - Identifiers, abbreviations for, 81–83
 - Image dialog box, 325
 - Import Eclipse Project wizard, 371–374
 - Importing
 - classes and packages, 86
 - Eclipse projects. *See* Eclipse projects, importing
 - General and Web projects, 33–37
 - J2EE applications, 256–260
 - Mobility, 291–292
 - Incrementing MIDlet-versions, 330
 - Indentation engine, 88–89
 - Indenting blocks, 88
 - Insertion of closing characters, 73–74
 - Insertion point, moving, 92–93
 - Insets constraint, 113
 - Inspector in Flow Designer, 322–323
 - Inspector windows
 - contents of, 109–110
 - for forms, 115
 - Installing
 - Ant Debugger, 366
 - Eclipse Project Importer module, 370
 - Mobility Pack, 288
 - NetBeans IDE, 3
 - nonstandard emulator platforms, 331–336
 - Sun Java System Application Server, 188–189
 - Instance Name property, 324
 - Integrating version control commands, 22–24
 - Interfaces
 - for EJB Modules, 205
 - implementing methods from, 79

Internal Padding X and Y constraint, 113
Inverse code, 309–311

J

J2EE applications

- assembling, 253–256
- compliance in, 282–284
- configuration for, 188–190
- entity beans in. *See* Entity beans
- importing, 256–260
- Java BluePrints Solutions Catalog for. *See* Java BluePrints Solutions Catalog
- refactoring in, 284–285
- resource consumption in, 260–268
- runtime environment for. *See* Runtime environment for J2EE
- security management in, 268–269
 - registering users in, 270–274
 - simple declarative security in, 269
- web services for. *See* Web services

J2EE Server Integration APIs, 274

J2ME (Java 2 Platform, Micro Edition), 289

J2ME mobile applications. *See* Mobility projects

J2ME Wireless Toolkit platform, 288, 291, 297

JAR files

- for applets, 174, 176
- in classpath, 46–47, 298
- distribution, 305–306
- location of, 55–56
- manifests for, 60
- for web applications, 160–161

Java applications, general

- navigating files in, 91–94
- packages in
 - creating, 42–44
 - setting up and modifying, 17–18
- statement completion in, 73–74
 - code completion box display in, 77
 - shortcuts for, 77–78
 - working with, 75–76
- templates for, 4, 43

Java 2 Platform, Micro Edition (J2ME), 289

Java BluePrints Solutions Catalog, 191

- accessing, 192
- navigating, 192–194
- projects for
 - creating, 194–198
 - running, 197–198

Java Database Connectivity (JDBC)

- drivers for, 277–279
- resources for, 200

.java files, 61, 120

java folder, 203

Java Foundation Classes (JFC), 109

Java Naming and Directory Interface (JNDI), 200

Java Platform Manager, 45–46

Java Sources Classpath page, 346

Java virtual machine arguments, 59

JavaBeans object templates, 43

Javadoc documentation

- availability of, 47–48
- displaying, 86–87
- navigating to, 95
- referencing, 46

JavaServer Faces (JSF) technology, 280–281

javax.sql.DataSource interface, 261

JDBC (Java Database Connectivity)

- drivers for, 277–279
- resources for, 200

JDBC Connection Pool template, 277–278

JDKs

- documentation for, 86–87
- setting
 - for free-form projects, 345
 - for IDE, 45
 - for standard projects, 44–46
- stepping into, 133–134

JFC (Java Foundation Classes), 109

JMS messages, 266–268

JNDI (Java Naming and Directory Interface), 200

jpda.address property, 355

jpda.host property, 355

jpda.session.name property, 355

jpda.transport property, 355

JSF (JavaServer Faces) technology, 280–281

JSP

- abbreviation expansion for, 164–165
- checking for errors, 171–172
- debugging, 173
- for web applications, 159

JSP template, 159

JSR-101 services, 218

JSR-109 services, 217, 229

Jump lists, 95–96

- JUnit
 - for headless build environments, 62
 - templates for, 43
- JVM options, 276–277
- jvmarg parameter, 351
- K**
- Key classes for entity beans, 244
- Keyboard shortcuts
 - for Ant targets, 67–69
 - for code completion, 77–78
 - for macros, 84
 - for navigating, 39
 - for Source Editor, 108–109
 - for switching between open files, 94
 - for text selection, 89
- Keywords, abbreviations for, 81–83
- L**
- Layout managers
 - GridBagLayout
 - example of, 114–116
 - for forms, 111–113
 - limitations of, 113–114
 - support for, 111
- Layout property, 326
- Lazy Initialized property, 324
- Libraries
 - in Ant, 337–339
 - creating, 47–48
 - documentation for, 87
 - for EJB Modules, 204–205
 - for headless build environments, 62
 - JSE, 280
 - stepping into, 133–134
 - for web applications, 157–162
- Libraries Folder property, 259
- Library Manager, 47–48, 161
- Life-cycle methods
 - for enterprise beans, 207
 - for entity beans, 244
- Line breakpoints, 126, 135–136
- Line by line code execution, 132
- Line numbers, displaying, 74
- {lineNumber} substitution code, 141
- literal attribute, 228
- Local Address field, 131
- Local interfaces for EJB Modules, 205
- Local variables, breakpoints on, 138
- Local Variables window, 22
 - in Ant scripts, 366
 - description of, 128
 - variables in
 - changing value of, 145
 - displaying, 143–144
 - monitoring, 144–145
 - watches for, 144
- Localization Support Class templates, 295, 314–315
- Location
 - of compiled classes and JAR files, 55–56
 - in Mobility projects, 290
 - classes, 314–316
 - resources, 306–307
 - of new projects, 31
- Locator strategies, 262–263
- <login-config> element, 269, 272
- Logs
 - for breakpoints, 140–141
 - for J2EE application servers, 274–275
- Lookup code, 264
- M**
- Macros
 - creating and using, 83–84
 - template, 85
- Main classes
 - debugging outside of, 131
 - setting and changing in standard projects, 58–59
 - setting and changing in free-form projects, 351–352
- Main project, setting 48
- Manage Preprocessor Block dialog box, 308–310
- manifest.file property, 60
- manifest.mf file, 60
- Manifests for JAR files, 60
- Mapping
 - debug-fix targets, 364–365
 - debug-selected-file targets, 363
 - run-selected-file targets, 361
 - schemas for persistence models, 246–249
 - sources to outputs, 349
 - targets to commands, 347–348, 358
- Matching words in files, 78

- MDBs (message-driven beans), 200, 266
- Members, viewing and navigating, 92
- Menu items for Ant targets, 67–69, 366
- Merge conflicts in metadata files, 52–53
- Message-driven beans (MDBs), 200, 266
- Message Handler template, 160
- Message handlers, 160, 232–238
- message.properties file, 315–316
- MessageHandler class, 234–236
- Messages
 - for breakpoints, 141–142
 - JMS, 266–268
 - for WSDL documents, 227
- Messages Bundle Name field, 315
- Metadata, project, 19, 64–65
 - merge conflicts in, 52–53
 - sharing, 51–52
- {methodNumber} substitution code, 141
- Methods
 - breakpoints on, 137
 - in Call Stack window, 146
 - in enterprise beans, 207–211
 - finding, 96–98
 - from implemented interfaces, 79
 - overriding, 78–79
 - renaming, 98–99
 - signatures of, 103
- microedition.locale property, 315
- MIDlet class, 289
- MIDlet file type, 295
- MIDlet-versions, 330
- MIDP (Mobile Information Device Profile)
 - canvases in, 294–295
 - purpose of, 289
- MIDP Palette Manager dialog box, 317
- MIDP template category, 28
- MIDP Visual Designer, 316
 - application building in, 317–321
 - component palette objects in, 317
 - Flow Designer in, 321–326
 - Screen Designer in, 327–328
 - visual design creation in, 316
- Mobile Application template, 290
- Mobile Device screen, 319
- Mobile Information Device Profile (MIDP)
 - canvases in, 294–295
 - purpose of, 289
- Mobility category, 8
- Mobility Pack
 - add-on installer for, 3
 - downloading and installing, 288
 - working with, 289
- Mobility projects, 288
 - Ant in, 336–339
 - classpath for, 296–298
 - configurations for
 - abilities of, 312–314
 - active, 301–302
 - creating, 299–300
 - customizing, 300–301
 - reusing, 302–303
 - specific code for, 307–312
 - templates for, 303
 - creating, 290
 - debugging, 298–299
 - dependencies in, 304–305
 - deploying applications in, 328–330
 - distribution JAR files content in, 305–306
 - emulator platforms for, 296–298, 331–336
 - headless builds in, 339–340
 - importing, 291–292
 - information for, 341
 - localizing applications in, 314–316
 - MIDlet-version in, 330
 - MIDP Visual Designer for. *See* MIDP Visual Designer
 - nonstandard emulator platforms for, 331–336
 - resource handling for, 306–307
 - setting up, 288
 - structure of, 293–294
 - templates for, 294–295
- Modifying. *See* Editing
- Monitoring
 - HTTP transactions, 177–178
 - data analysis in, 181–184
 - HTTP Monitor setup for, 178–181
 - replaying HTTP requests, 184–186
 - threads, 146–148
 - variables and expressions, 143–146
- Move Class command, 104
- Moving
 - build and dist folders, 56
 - classes, 17, 101–102
 - insertion points, 92–93
 - windows, 24

- Multiple configurations for Mobility projects, 308–309
- Multiple windows in debugging, 149–150
- N**
- <name> element, 359
- __NAME__ macro, 85
- Name and Location page
 - for EJB modules, 202, 258–259
 - for free-form projects, 345
 - for general Java projects, 4–5, 8, 30–31
 - for J2EE applications, 253–254, 256–257
 - for MIDP canvases, 295
 - for Mobility projects, 290, 315
 - for web applications, 11, 31–32
- name attribute, 332, 335
- Name field, 131
- Names
 - applets, 175
 - enterprise beans, 285
 - finding occurrences of class, 96–98
 - in importing projects, 34–35
 - MIDlets, 295
 - MIDP canvases, 295
 - in nonstandard J2ME emulators, 332–335
 - projects, 31, 290
 - renaming classes, 98–99
- N**
- Navigating
 - to compiler error sources, 20
 - Java BluePrints Solutions Catalog, 192–194
 - Java files, 91–94
 - members, 92
 - projects, 37–41
 - in Source Editor, 94–96
- Navigator window, 6, 91–93
- .nbattrr files, 61
- nbbrowse element, 356
- nbjpdacconnect task, 355
- nbjpdareload task, 364
- nbjpdastart task, 351
- nbproject folder, 40
 - for file location, 55
 - for manifests, 60
 - for versions, 51–52
 - for web applications, 154
- netbeans.home property, 351, 355
- New Ability dialog box, 314
- New Breakpoint dialog box, 136–139
- New File wizard, 15–16
 - for applets, 174
 - for enterprise beans, 206
 - for entity beans, 241–242, 250–252
 - for J2EE resources, 262
 - for JDBC Connection Pool template, 277–278
 - for Mobility projects, 294
 - for packages, 42
 - for SOAP message handlers, 233
- New Library dialog box, 47
- New Message Handler page, 233
- New Principal Name dialog box, 272
- New Project wizard
 - for EJB modules, 201–202, 258–260
 - for importing projects, 34–36
 - for J2EE applications, 253–254, 256–257
 - for Java BluePrints Solutions Catalog, 197
 - for Mobility projects, 292
 - for new general Java projects, 4–6, 8, 11, 29–30
 - template descriptions, 28–29
 - for web applications, 31–32
- New Property Pattern dialog box, 80
- New Session Bean page, 206
- New Watch dialog box, 144
- New Web Application wizard, 31–32
- New Web Service wizard, 222
- Nodes, jumping to, 96
- Non-caching locator strategies, 262
- Nonstandard emulator platforms, 331–336
- Notes, tracking, 103–107
- NullLayout forms, 111
- O**
- obfuscated folder, 293
- Obfuscation in Mobility projects, 289
- Objects
 - for component palette, 317
 - templates for, 43
- onMessage methods, 208
- Open files, switching between, 94
- Opening Source Editor, 72–73
- Operations for web services, 223–224
- Optional APIs field, 297
- Options dialog box, 8
- Other templates, 44
- Output window, 6–7

- for build output, 57–58
 - for compiler errors, 20
- Outputs, mapping sources to, 349
- Override and Implement Methods dialog box, 78–79
- Overriding
 - methods, 78–79
 - targets, 64
- P**
- __PACKAGE__ macro, 85
- __PACKAGE__ AND __NAME__ macro, 85
- __PACKAGE__ AND __NAME__ SLASHES __ macro, 85
- __PACKAGE__ SLASHES __ macro, 85
- Packages
 - for applets, 176
 - compiling, 54
 - creating, 42–44
 - filtering contents of, 60–61
 - for MIDlets, 295
 - for MIDP canvases, 295
 - moving classes to, 101–102
 - setting up and modifying, 17–18
- Packages field, 315
- Palette Manager, 110
- Palette window, 110
- Parameters
 - for debugger, 130
 - for method signatures, 103
 - for web applications, 173
- Parentheses (), automatic insertion of, 73
- Passwords
 - in application deployment, 330
 - in security, 270, 273
- pattern parameter for <action> element, 358
- Pause command, 132
- Permissions for applets, 176–177
- Persistence models, mapping schemas to, 246–249
- platform element, 332
- Platform Management dialog box, 331
- Platforms,
 - emulator
 - changing, 296–298
 - for Mobility projects, 331–336
 - Java. *See* JDKs
- Plus signs (+) for concatenating strings, 74
- Port field, 131
- Post-Callback Method property, 324
- Post-Callback Method Name property, 324
- post-compile targets, 63
- Post-Creation Code property, 120
- Post-Init Code property, 121
- Pre-Callback Method property, 324
- pre-compile targets, 63
- Pre-Creation Code property, 120
- Pre-Init Code property, 121
- preprocessed folder, 293
- Preprocessors, 289
- Preverification, 289
- preverified folder, 293
- preverifycmd attribute, 333–334
- Primary key classes for entity beans, 244
- Priority of tasks, 106
- Private files in web applications, 158
- private.properties file, 52
- Privileges in security, 268–269
- profile element for XML, 335
- Profiler, add-on installer for, 3
- Program counter, 125
- Project Configuration Manager dialog box, 299–300
- Project page, 30
- Project Properties dialog box
 - for applets, 176–177
 - for classpath, 13–14, 59
 - for compilation, 19, 53–54
 - for dependencies, 304–305
 - for deployment, 328–329
 - for emulator platforms, 296–297
 - for free-form projects, 346
 - for J2EE applications, 254–255
 - for JAR files, 306
 - for Java virtual machine arguments, 59
 - for JDK versions, 44–45
 - for main class, 58
 - for mapping sources to outputs, 349
 - for menu items for targets, 366
 - for MIDlet-versions, 330
 - for Mobility projects, 313–314
 - classpath, 298
 - configurations, 300–303
 - for running projects, 20
 - for runtime arguments, 59
 - for target JDKs, 365
 - for web services, 219
- project.properties file, 52, 55, 60

- project.xml file, 62, 356
 - <action> element in, 358
 - properties in, 357, 359
 - targets in, 361
 - Projects, 26–28
 - classpath for, 44
 - compiling. *See* Compiling
 - creating, 10–12, 29–33
 - displaying and hiding, 49–50
 - documentation referencing in, 46
 - for EJB Modules, 201–204
 - importing, 33–37
 - for Java BluePrints Solutions Catalog, 194–198
 - JDK versions for, 44–45
 - main, 48
 - manifests for, 60
 - metadata and build results in, 19
 - Mobility. *See* Mobility projects
 - modifying, building, and running, 6–8
 - navigating, 37–41
 - outside of IDE, 61–62
 - packages and files in, 42–44
 - running, 6–8, 20, 58–59
 - setting up, 4–6
 - structure of, 40–41, 48–49
 - subprojects, 49
 - templates for, 10, 28–29
 - version control for, 50–53
 - Projects window, 6
 - for classpath, 46–47
 - for compilation, 54
 - for EJB Modules, 202, 205–206
 - for emulator platforms, 296–297
 - for entity beans, 241–243, 250
 - for finder methods, 246
 - for hiding projects, 49–50
 - for J2EE applications, 254–255
 - for J2EE methods, 207–210
 - for JDK versions, 45
 - for libraries, 48
 - for main projects, 27–28
 - for MIDP Visual Designer, 316
 - for Mobility projects, 298
 - for navigating, 37–39
 - for new projects, 31
 - for packages, 42
 - for project structure, 40–41
 - purpose of, 12
 - for read/write properties, 80
 - for running projects, 20
 - for searches, 100
 - for SOAP message handlers, 233, 236–237
 - for subprojects, 49
 - for Tomcat servers, 170
 - for Verifier, 283–284
 - for version control, 50–51
 - for web applications, 153–155, 157, 171–173
 - for web services, 218, 223–224, 229
 - Properties and Properties dialog box
 - of components, 117
 - for HTTP Monitor, 179
 - for J2EE application servers, 280
 - for JVM nodes, 276–277
 - in project.xml, 359
 - of projects. *See* Project Properties dialog box
 - <properties> element, 359
 - Properties window, 110
 - <property> element, 359
 - <property-file> element, 359
 - property parameter for <action> element, 358
 - Property sheets in Flow Designer, 323–326
 - Proxies, setting, 3–4
- Q**
- __QUOTES__ macro, 85
- R**
- Radio Buttons property, 324
 - Read/write properties, 79–81
 - Realign Components item, 326
 - Recorded Macro dialog box, 84
 - Recording macros, 83–84
 - Redeploying web applications, 169
 - Refactor Code for Moved Class dialog box, 17, 101–102
 - Refactoring
 - commands, 104
 - enterprise beans, 284–286
 - web components, 166–167
 - Refactoring window
 - for moving elements, 102
 - for name changes, 98–99
 - for read/write properties, 79–81
 - Reference Problems dialog box, 375

- References
 - to documentation, 46
 - in Eclipse projects, 376–377
 - external, 47–48
 - Registering
 - classpath items, 345
 - SJSAS server in the IDE, 189
 - users, 270–274
 - versioned directories, 23
 - Regular expressions, searching with 99
 - Related code, navigating to, 95
 - Relationships for entity beans, 245
 - Removing and deleting
 - abbreviations, 83
 - breakpoints, 136, 140
 - HTTP records, 184
 - menu items and shortcuts, 68
 - task tags, 106
 - Rename command, 104
 - Renaming
 - elements, 98–99
 - enterprise beans, 285
 - Replacing items. *See* Searching and replacing
 - Replaying HTTP requests, 184–186
 - Request Edit Property dialog box, 186
 - Request Parameters property, 173
 - Requests, HTTP
 - displaying, 181–184
 - replaying, 184–186
 - Resolve Missing Server Problem dialog box, 196–197
 - Resolve Reference Problems dialog box, 377
 - Resources
 - in Flow Designer, 321
 - in J2EE applications, 260–268
 - in Mobility projects, 306–307
 - in web applications, 158, 160–161
 - Resources category, 321
 - Reusing Mobility project configurations, 302–303
 - Rich clients
 - building, 109–111
 - component behavior and appearance in, 117
 - customizing code in, 120–121
 - GridBagLayout for, 111–116
 - layout managers for, 111
 - Roles in security, 268–269, 272
 - RPC formats, 228
 - Rules, formatting, 88–90
 - Run File command, 360–361
 - Run Project command, 347–348
 - run-selected-file target
 - creating, 360–361
 - mapping, 361
 - Runtime environment for J2EE, 274
 - Ant for, 281–282
 - JavaServer Faces technology for, 280–281
 - JDBC drivers for, 277–279
 - JVM options for, 276–277
 - properties for, 280
 - server logs for, 274–275
 - server management in, 275–276
 - Run to Cursor command, 133
 - Runcmd attribute, 333–334
 - Running
 - Ant targets, 66
 - applets, 175–176
 - projects, 6–8, 20, 58
 - Java BluePrints Solutions Catalog, 197–198
 - outside of IDE, 61–62
 - settings for, 58–59
 - tests, 21
 - Runtime arguments, 59
 - Runtime classpath, 59
 - Runtime window, 20, 270
- S**
- Sample code, 8, 191–198
 - Samples template category, 28
 - Save Project As Configuration Template dialog box, 303
 - Saving build output, 57–58
 - Schemas
 - for free-form projects, 348
 - mapping to persistence models, 246–249
 - SCP for application deployment, 329–330
 - Screen Designer, 318, 327–328
 - Screens category, 321
 - Scripts. *See* Ant and Ant scripts
 - Scrolling windows, 92–93
 - Searching and replacing, 96
 - character combinations, 99–100
 - finding Java code elements, 96–98
 - multiple files, 100–101
 - renaming code elements, 98–99
 - words in files, 78
 - Sections, hiding, 93–94

- <security-constraint> element, 269, 272
- Security management, 268–269
 - registering users in, 270–274
 - simple declarative security, 269
- <security-role> element, 269, 272
- SEI (Service Endpoint Interface), 221
- Select Database Tables page, 251
- Select Message Destination dialog box, 267–268
- Select methods in enterprise beans, 208
- Select Operation to Invoke dialog box, 220
- Select Project JAR Files dialog box, 304
- Select Source Event page, 118–119
- Selected files, command setup for, 356–357
- Selections
 - block, 310
 - text, 89
- Semicolons (;) for statements, 73
- Send JMS Message command, 266–268
- Sending JMS messages, 266–268
- sendJMSTestinationName method, 268
- server parameter, 130
- Servers
 - for J2EE development, 188–190
 - logs for, 274–275
 - managing, 275–276
 - registering in IDE, 32
 - of web applications, 32
- Service Endpoint Interface (SEI), 221
- Service Locator template, 262
- Services, web. *See* Web services
- Servlet template, 159
- Servlets
 - from JSP files, 172
 - for web applications, 158–160
- Session enterprise beans, 200
- Sessions window, 128
- Setup directory for EJB Module, 203
- Setup Wizard for proxies, 4
- Sharing metadata, 51–52
- Shortcuts
 - for Ant targets, 67–69
 - for code completion, 77–78
 - for macros, 84
 - for navigating, 39
 - for Source Editor, 108–109
 - for switching between open files, 94
 - for text selection, 89
- Signatures of methods, 103
- Simple declarative security, 269
- Simple Object Access Protocol (SOAP)
 - message handlers for, 232–236
 - for web services, 216, 228
- Size
 - fonts, 90
 - windows, 24
- SJSAS (Sun Java System Application Server), 2–3, 188, 152–153, 188–190
- Skeleton targets, 357–358
- Snap to Grid item, 326
- SOAP (Simple Object Access Protocol)
 - message handlers for, 232–236
 - for web services, 216, 228
- Solution tab, 193–194
- Sorting tasks, 105–106
- Source directories, compiling into, 56–57
- Source Editor, 6–7, 16–17
 - abbreviations for, 81–83
 - closing characters in, 73–74
 - for code snippets. *See* Code and code snippets
 - for configuration-specific code blocks, 307
 - description of, 16
 - for debugging. *See* Debugging
 - for deployment descriptors, 166
 - expression completion in, 66
 - for finder methods, 246
 - fonts and colors in, 90–91
 - formatting in, 87–91
 - for J2EE methods, 207–211
 - for J2EE resources, 261
 - keyboard shortcuts for, 108–109
 - navigating, 94–96
 - opening, 72–73
 - for read/write properties, 80
 - for running projects, 20
 - scrolling, 92–93
 - searching and replacing in. *See* Searching and replacing
 - space for, 108
 - splitting, 107–108
- Source Package Folders page, 346
- Source Packages node, 15, 17
- sourcepath attribute, 351, 356
- Sources, mapping to outputs, 349
- Sources window
 - for debugging, 133–134
 - description of, 128

- Specify Target Operation page, 118–119
 - Specify WTK Project page, 292
 - Splitting
 - Source Editor, 107–108
 - strings, 74
 - src folder, 40
 - src.folders property, 355
 - Statements, completing, 73–74
 - code completion box display in, 77
 - shortcuts for, 77–78
 - working with, 75–76
 - Stepping through code, 125, 131–134, 366
 - Strings
 - in Flow Designer, 325
 - splitting, 74
 - Structure
 - of EJB modules, 203
 - of Mobility projects, 293–294
 - of projects, 40–41, 48–49
 - of web applications, 32, 155–156
 - style attribute, 228
 - Subprojects, 14–15, 49
 - Substitution codes, 141–142
 - Subtargets, 63–64
 - sun-ejb-jar.xml file, 247–249, 252
 - Sun Java System Application Server (SJSAS),
 - 2–3, 188, 152–153, 188–190
 - sun-web.xml file, 271–273
 - suspend parameter, 130
 - Suspending threads, 148
 - Switching
 - between open files, 94
 - threads, 147
 - Synchronize dialog box, 79
- T**
- Tag File template, 160
 - Tag Handler template, 160
 - Tag library descriptor (TLD) files, 161–162
 - Tag Library Descriptor template, 160
 - Tags and tag libraries
 - adding, 161–162
 - completing, 162–164
 - debugging, 173
 - Target Displayable property, 324
 - Targets in Ant scripts
 - adding, 63–64
 - Debug Project command in free-form projects, 349–352, 361–365
 - JDK used in free-form 365
 - mapping to IDE commands, 347–348, 358
 - menu items for, 67–69, 366
 - running, 66
 - for selected files in free-form projects, 360–361
 - shortcuts for, 67–69
 - Compile File command in free-form project, 357–358
 - Tasks
 - Ant
 - for free-form projects, 348–356
 - javac, 348, 352, 365
 - for Mobility Pack, 337–339
 - nbpjdaconnect, 355
 - nbpjdareload, 364
 - for SJSAS, 281–282
 - user
 - filtering, 106–107
 - priority of, 106
 - tags for, 105–106
 - Templates, 10, 28–29
 - for applets, 174–175
 - creating and customizing, 84–86
 - for files, 43–44
 - for localizing applications, 314–315
 - for mobile application files, 294–295
 - for Mobility project configurations, 303
 - for projects, 10, 28–29
 - for web application files, 159–160
 - Temporary build classes, 294
 - test folder
 - contents of, 40
 - for web applications, 154
 - Test Project command, 347–348
 - Test Web Service Operation dialog box, 232, 237
 - Tests
 - creating and running, 21
 - for web applications, 171–173
 - for web services, 230–232
 - Text selection
 - for Mobility projects, 310
 - shortcuts for, 89
 - {threadName} substitution code, 142
 - Threads
 - breakpoints on, 138–139
 - monitoring and controlling, 146–148

- Threads window
 - description of, 128
 - working with, 146–148
 - `__TIME__` macro, 85
 - Timeout field, 131
 - TLD (tag library descriptor) files, 161–162
 - To Do Settings dialog box, 106
 - To Do window, 105
 - TODO comments, 118, 352
 - Tomcat servers
 - deploying to, 169–170
 - structure of, 155
 - Toolbars
 - in Flow Designer, 326
 - hiding, 108
 - in Screen Designer, 328
 - Top-down approach for entity beans, 241–249
 - toString methods, value of, 145
 - Tracking notes, 103–107
 - Transactions
 - in enterprise beans, 200
 - HTTP, 177–178
 - data analysis in, 181–184
 - for J2EE application servers, 280
 - replaying requests in, 184–186
 - setup for, 178–181
 - Transitions in Flow Designer, 326
 - transport attribute, 130, 351, 356
 - Transport field, 131
 - Tree view in HTTP Monitor, 183–184
 - Type attribute, 333
- U**
- Undeploying web applications, 169
 - Unified Emulator Interface (UEI), 297, 331
 - Universal Discovery, Description and Integration (UDDI) registry, 219
 - Usages window, 97–98
 - use attribute, 228
 - Use Database command, 265
 - `__USER__` macro, 85
 - user.properties.file file, 340
 - Usernames
 - in application deployment, 330
 - in security, 270, 273
 - Users, registering, 270–274
- V**
- Variables
 - breakpoints on, 138
 - changing value of, 145
 - displaying, 143–144, 146
 - monitoring, 144–145
 - watches for, 144
 - {variableType} substitution code, 142
 - {variableValue} substitution code, 142
 - VCSs (version control systems), 50–51
 - merge conflicts in, 52–53
 - metadata sharing for, 51–52
 - VendorSpecificBluetoothAPI ability, 312
 - Verifier tool, 282–284
 - version attribute for XML, 335
 - Version control commands, integrating, 22–24
 - Version control systems (VCSs), 50–51
 - merge conflicts in, 52–53
 - metadata sharing for, 51–52
 - Versioning Manager, 23, 50–51
 - Versions
 - changing JDK, 44–45
 - in importing projects, 35
 - MIDlet, 330
 - for Mobility configurations, 335
 - of J2EE technology, 33
 - Viewers, applet, 175
 - Visible resources, 268
 - Visual editor, 243
 - Visualization of code blocks, 310
- W**
- WAR (Web Archive) files
 - for applets, 176
 - creating, 169
 - customizing contents of, 168–169
 - for J2EE applications, 254
 - Watches window, 143–144
 - description of, 128
 - displaying values in, 145
 - monitoring objects in, 144–145
 - setting watches in, 144
 - Web Application Listener template, 160
 - Web applications, 152–153
 - abbreviation expansion in, 164–165
 - applets. *See* Applets

- component refactoring for, 166–167
 - creating, 31–33
 - debugging, 171–173, 352–356
 - default browsers for, 177
 - deploying, 168–170
 - deployment descriptors for, 166–167
 - external resources for, 158, 160–161
 - files and libraries for, 157–162
 - JavaServer Faces technology for, 280–281
 - monitoring HTTP transactions, 177–178
 - data analysis in, 181–184
 - HTTP Monitor setup for, 178–181
 - replaying HTTP requests, 184–186
 - parameters for, 173
 - representation of, 153–156
 - structure of, 32, 155–156
 - tag completion for, 162–164
 - templates for, 43, 159–160
 - testing, 171–173
- Web Archive (WAR) files
- for applets, 176
 - creating, 169
 - customizing contents of, 168–169
 - for J2EE applications, 254
- Web category, 8
- web.docbase.dir property, 355
- web folder, 40
- WEB-INF folder, 155
- Web Service Client template, 160
- Web Service Registry tool, 230
- Web Service template, 160
- Web services, 216
- compiling, 224–226
 - consuming, 216–221
 - creating, 222–223, 226–227
 - within EJB modules, 229
 - implementing, 221
 - message handlers for, 232–238
 - operations for, 223–224
 - testing, 230–232
 - types of, 228
- Web Services Client wizard, 216–217
- Web Services Description Language (WSDL), 216, 226–227
- Web Sources page, 346
- Web template category, 28
- web.xml file, 218–219, 222
- WebDAV, 330
- webservice-description.xml file, 222
- webservices.xml file, 236–237
- Weight X constraint, 113
- Weight Y constraint, 113
- Windows
- for debugging, 127, 149–150
 - managing, 24
 - scrolling, 92–93
- Wireless Toolkit platform, 288, 291, 297
- With Existing Ant Script template, 10, 345
- With Existing Sources template, 10, 33
- Words in files, matching, 78
- Wscmpile tool, 219, 224–226
- WSDL (Web Services Description Language), 216, 226–227
- X**
- Xdebug parameter, 130
- XML
- templates for, 43
 - for web services, 216, 228
- XML editor, 212–213
- Xnoagent parameter, 130
 - Xrunjdpw parameter, 130