

Index

SYMBOLS

:a (alphabetic string, matching), 535
***** (asterisk), 483, 534
\b elements, 533
:b (space or tab character, matching), 535
**** (backslash), 483, 535
{} (braces), 531, 534
^ (carat), 534
:d (single digit, matching), 535
\$ (dollar sign), 534
\e (escape character), 535
> (greater than sign any command), 543
\h (backspace character), 535
:h (hexadecimal numbers, matching), 535
(hash), 482
\n (line break character), 535
() (parentheses), 534
. (period), 235, 535
| (pipe character), 535
+ (plus sign), 534
:q (quoted string, matching), 535
? (question mark), 482, 534
[] (square brackets), 483, 534
\t (tab character), 535
~ (tilde character), 535
/// (triple forward slash), 156
:z (number, matching), 535

A

:a (alphabetic string, matching), 535
About screen, 331–332

abstract class

definitions, generating, 239
 Toolbox entity, 182

access

privileges, role-based security, 197
 rules, web site, 573
 shortcuts, XML resource file
 bitmap images and icons, 133
 ComponentResourceManager, 133–134
 My namespace, 133
 source control, described, 99

Accessibility group, sample macros, 353–354

Action, delegates, predefined, 296

Actions Pane, VSTO, 784–785

actions phase, smart tags, 786

Active Files List, accessing, 540–541

ActiveDocument member, 351

ActiveSync

CEAppMgr application, 629–632
 layer, 608–609

ActiveWindow member, 351

Add-in Manager, 425–426

adding

code, color indicating, 267
 item to project within current solution, 43–44

add-ins

Add-in Manager, 425–426
 AddNamedCommand2 method, creating named
 commands with, 435–436
 custom built, 426
 debugging, 436
 deploying, 436

add-ins (continued)

add-ins (continued)

- IDTCommandTarget interface
 - Exec method, 434
 - QueryStatus method, 433–434
- IDTExtensibility2 interface, 432–433
- registration (.AddIn configuration), 436
- startup load, disabling, 548
- tool windows, creating (CreateToolWindow2 method), 436
- Wizard, creating with, 427–432
- AddNamedCommand2 **method, 435–436**
- address-level debugging, 736**
- administrators, code-based security on own system, 196**
- Advanced Build Settings dialog, 658–659**
- Advanced Compiler Settings**
 - compilation constants, 656
 - dialog box, 654–655
 - Optimizations, 655
- algorithms, hashing**
 - described, 202
 - value, generating with SHA1Managed algorithm, 207–209
- alias**
 - code snippets, 250, 257, 258–259
 - extern, 308–309
 - namespace, 307
- All Languages section, Text Editor, 24**
- alphabetic string, matching, 535**
- alphabetical order, sorting commands in, 32**
- anonymous methods, C#, 303–304**
- AppDomain boundaries, 736**
- AppearanceEditorPart, **589**
- Application tab**
 - projects, Assembly Information button, 85–86
 - VB.NET application framework, 86–88
- application-level errors, 729**
- applications. See also device applications**
 - configurations, care when referencing, 112
 - DataSets, strongly typed, 390–391
 - handheld device keys, handling, 599
 - mail, sending from (SmtpClient class), 115–116
 - security
 - code-based, 196–197
 - described, 195
 - role-based, 197–199
 - settings, binding to control properties, described, 423–424

- VSTO
 - Actions Pane, 784–785
 - described, 777–778
 - new version, 778–780
 - Outlook Add-Ins, 787
 - sample project, 788–800
 - Smart Tags, 785–787
 - Visual Designer, 780–783
- web service
 - browsing data, 392–394
 - data source, 391–392
- Windows Mobile Notification Broker, 626–627
- architects, software**
 - application diagram, 807–808
 - deployment diagram, 810–811
 - logical datacenter diagram, 808–810
 - system diagram, 810
- arithmetic overflow/underflow, checking, 659**
- Array.ForEach **method, 296**
- Ask a Question command, 152–153**
- ASP.NET 2.0, Personal Web Site Starter Kit, 453–454**
- Assembly Information button, 85–86**
- assembly signing**
 - Global Assembly Cache, 368
 - strong-named assemblies, 367
 - in VS 2005, 368–369
- AssemblyInitialize **and** AssemblyCleanup
 - attributes, 753**
- Assertclass, UnitTesting **namespace, 751**
- assignment, use of variable prior to, 377**
- association, classes, 180, 182**
- asterisk (*), 483, 534**
- asymmetric key pairs, 204–206, 218**
- Asynchronous Processing, **SQL Server format, 362**
- AttachDBFilename, **SQL Server format, 362**
- attributes**
 - debugging
 - DebuggerBrowsable, 715–716
 - DebuggerDisplay, 716–717
 - DebuggerHidden, 717
 - DebuggerNonUserCode, 718
 - DebuggerStepThrough, 717–718
 - handheld devices, checking, 626
 - HTML tags, 559
 - obfuscation
 - Obfuscation, 228
 - ObfuscationAssembly, 227
- audio file, playing, 322**

authentication

- described, 201
- mode, web site, 572
- sender, guaranteeing, 203

author, sorting by, 150**automation. See also macros**

- add-ins
 - Add-in Manager, 425–426
 - AddNamedCommand2 method, creating named commands with, 435–436
 - custom built, 426
 - debugging, 436
 - deploying, 436
 - IDTCommandTarget interface, 433–434
 - IDTExtensibility2 interface, 432–433
 - registration (.AddIn configuration), 436
 - startup load, disabling, 548
 - tool windows, creating (CreateToolWindow2 method), 436
 - Wizard, creating with, 427–432
- assembly signing
 - Global Assembly Cache, 368
 - strong-named assemblies, 367
 - in VS 2005, 368–369
- code generation templates
 - item, 331–334
 - IWizard, 339–341
 - project setup, 337–339
 - project template, 335
 - starter, 342–344
 - template structure, 335–337
- connection strings
 - database tables, retrieving multiple, 363–364
 - encrypting, 364–366
 - in-code construction, 363–364
 - SQL Server format, 362–363
 - Windows utility (Data Link Properties dialog), 386
 - wizard, 357–361
- data binding
 - BindingNavigator, 398–400
 - BindingSource, 397–398
 - BindingSource chains, 401–406
 - changes, saving, 407–409
 - controls, interfaces, 520–522
 - data source selections, 400–401
 - DataGridView, 417–419
 - described, 395–396
 - Movie Collection Starter Kit, 452–453

- new items, inserting, 409–410
- validation, 410–417

Object Data Source

- described, 419–423
- IDataErrorInfo interface, 423
- starter kits
 - Card Game, 450–451
 - creating your own, 454
 - described, 449
 - Movie Collection, 452–453
 - Personal Web Site, 453–454
 - Screensaver, 451–452
- strongly typed datasets, 186–187
 - application, exposing via web service, 390–394
 - creating from existing database, 384–387
 - creating manually, 384
 - DataSet Designer, 387–390
 - objects, described, 383–384
- third-party extensions
 - code aids, 443–444
 - development environment enhancements,
 - CoolCommands for VS2005, 439–440
 - development environment enhancements, MZ-Tools, 440–442
 - documentation, GhostDoc for, 445–446
 - MZ-Tools, 440–442
 - TestDriven.NET, 446–447
 - testing and debugging, 446

Autos and Locals, Watch Windows, 694**Autos, Locals and Watch, Visual Studio 2005 window, 473****B**

- \b elements, 533**
- :b (space or tab character, matching), 535**
- backslash (\), 483, 535**
- backspace character (\h), 535**
- base address, DLL, 655, 659**
- batch building, 652**
- Bauer, Denis (File Disassembler add-in creator), 221**
- BehaviorEditorPart, 589–590**
- Between Windows keys, 478**
- binding, data**
 - BindingNavigator, 398–400
 - BindingSource, 397–398
 - BindingSource chains, 401–406
 - changes, saving, 407–409
 - controls, interfaces, 520–522

binding, data (continued)

data source selections, 400–401

`DataGridView`, 417–419

described, 395–396

Movie Collection Starter Kit, 452–453

new items, inserting, 409–410

validation, 410–417

binding, Data Controls, Visual Database Tools, 522–524

`BindingNavigator` control, 398

`BindingSource`

chains, 401–406

data binding, 397–398

bitmap images and icons, XML resource file, 133

Black Jack sample game, 450

blank error messages generated by Upgrade Wizard, 642

body area, code snippet, 249, 252

bookmarks

code regions, 269–271

functions and shortcut (Ctrl+W, K), 51

icons, 268

Visual Studio 2005 window, 475

Boolean condition, adding breaks for, 706

borders

form, 62

Web interface, displaying or hiding, 589

boundaries, word, finding, 533

braces {}, 531, 534

breakpoints

debugging, 689–690

deleting, 708

disabling, 708

disassembly, 697

filters, 25, 737

icon, 268

location, changing, 708–709

options listed, 25

setting, 703–705

window, 690–691

Breakpoints, Visual Studio 2005 window, 469

Breakpoints window, functions and shortcut (Ctrl+Alt+B), 51

Build and Run settings, Options screen, 22–23

Build Configuration options, My Project pages, 649

build process

C#

Advanced Build Settings dialog, 658–659

described, 657–658

color code indicating, 267

described, 654

MSBuild

described, 660

schema, 663–664

Visual Studio, how it uses, 660–662

options

batch building, 652

general, 649–652

macros, 354–355

manual dependencies, 652–653

Visual Basic Compile page

Advanced Compiler Settings, 654–656

Build Events, 656–657

described, 654

build, Team System automation, 814–818

building, macros, 354–355

business rules, validation, 416–417

button

click event, ID, 774–776

control, 35

handheld devices, 597

C

C#

add-in routines, 432–433

Advanced Build Settings dialog, 658–659

anonymous methods, 303–304

connection string, accessing, 361

customized warnings in

individual warnings, suppressing, 380

stopping solution from being built, 380

warning level, setting, 380–381

debugging, `DebuggerBrowsable` attribute, 715–716

decompiler, using, 221

described, 657–658

errors, Smart Compile Auto Correction, 373–374

events, custom, 300

generics

constraints, 288–289

consumption, 286

creation, 287

help menu and shortcuts, 144–145

IntelliSense, 240–241

iterators, 304–305

`Match` object, creating, 537

member list, viewing, 236

`My` namespace, 316–317

- naming conflicts
 - described, 306
 - extern alias, 308–309
 - global identifier, 307–308
 - namespace alias qualifier, 307
- Nullable type, 290–291
- operator, overloading, 293
- pragma warnings, 309
- property accessibility, 299
- Refactor! product, 274
- refactoring, 185
- Regex object, creating, 536
- static classes, 305–306
- static methods, 294–295
- stub completion, 236–237
- text editor, 23
- type conversions, 293–294
- XML comments, 156
- C++ build options, 651**
- CAB files, 628–629**
- Call Browser**
 - functions, 52
 - Visual Studio 2005 window, 463–464
- Call Stack window**
 - debugging, 694–695
 - described, 472
- camera, collecting image from, 625**
- caption bar, form, properties, changing, 61–62**
- carat (^), 534**
- Card Game starter kit, 450–451**
- CatalogZone **control**
 - DeclarativeCatalogPart, 591–592
 - described, 590–591
 - PageCatalogPart, 592
- certificate authority, 680–681**
- changes**
 - data binding, saving, 407–409
 - events fired after, 773
 - events fired before, 773
 - multiple developers, merging, 103–104
 - pending, source control and, 102–103
 - saving while building, 650
 - stop applying, 712
 - Visual Studio solution, saving, 22
- changes, pending**
 - Team Foundation Server
 - Check-in Notes, 107
 - Policy Warnings, 107–108
 - source files, 106
 - Visual Studio 2005 window, 467–468
 - Work Items, 107
- CheckBox **control, 35**
- CheckedListBox **control, 36**
- Check-in Notes, Pending Changes, Team Foundation Server, 107**
- checking out files, 102–103**
- child nodes, SQL Servers, displaying, 508–509**
- chord, shortcut, 52**
- class**
 - association, 182
 - declaration, code snippet, 245
 - library, adding reference to, 391
 - properties, viewing, 9–10
 - Servers node management, 494–496
 - string, representing with `TypeConverter`, 137–139
 - symbols, searching for, 489
 - Toolbox entity, 181
 - viewing multiple for associations, 180
- Class Designer**
 - class diagram file, 189
 - class diagram schema, 190
 - code generation
 - Class Details window, 182–183
 - described, 179–180
 - design surface, 180
 - exporting, 184
 - IntelliSense code generation, 191
 - Layout, 184
 - Properties window, 183–184
 - Toolbox
 - connectors, 182
 - entities, 181–182
- Class Details window, 182–183**
- Class Library project type, 84**
- Class View**
 - functions and shortcut (Ctrl+Shift+C), 50
 - Visual Studio 2005 window, 462
- ClassInitialize and ClassCleanup attributes, 753**
- Click to Update, 683**
- ClickOnce**
 - Click to Deploy, 678–683
 - Click to Update, 683
 - described, 92, 677
 - publishing, 94
 - security, 93, 681–682
- code**
 - analysis, projects, 94–95
 - current window, searching (Alt+I), 488

code (continued)

- extensions, third-party
 - CodeKeep utility, 443–444
 - Imports Sorter, 443
- forced reformat, 544
- generics
 - benefits of using, 285–286
 - C#, consumption, 286
 - constraints, 288–289
 - consumption, 286–287
 - creation, 287–288
- language-based projects, 527
- My namespace
 - in C#, 316–317
 - code generation, 188–189
 - code snippet, 316
 - components, 315
 - contextual, 317–320
 - described, 313–315
 - My.Application object, 320–321
 - My.Computer object, 321–325
 - My.Forms, 325
 - My.Request and My.Response, 325
 - My.Resources, 325–327
 - My.Settings, 327
 - My.User, 327
 - XML resource file, 133
- Nullable types, 289–291
- Partial types, 291–292
- refactoring
 - C#, 185
 - code generation, 185–186
 - VB.NET, 185
- regions
 - bookmarks, 269–271
 - color coding, 267–268
 - comments, 265
 - creating, 264–265
 - described, 263–264
 - margin icons, 268–269
 - outlining commands, 266–267
 - title, 265
 - using, 265–266
- sorting by, 150
- Team System analysis, 812
- Visual Basic block, converting, 647
- XML resource file
 - described, 134–135
 - ResourceReader and ResourceWriter, 135
 - ResxResourceReader and ResxResourceWriter, 135

Code Analysis custom views, writing, 825–828

Code Coverage Results window, Team System, 824–825

Code Coverage window, 473

Code Definition window

- described, 462–463
- functions and shortcut (Ctrl+, Ctrl+D), 51

code generation

- Class Designer
 - Class Details window, 182–183
 - class diagram file, 189
 - class diagram schema, 190
 - described, 179–180
 - design surface, 180
 - exporting, 184
 - IntelliSense code generation, 191
 - Layout, 184
 - Properties window, 183–184
 - Toolbox, 181–182
- Forms Designer, 187–188
- My Namespace, 188–189

object test bench

- entities, creating instance of, 192
- fields and properties, 193
- instance methods, 193–194
- static methods, invoking, 191–192
- project and item templates, 186
- refactoring, 185–186
- snippets, 185
- strongly typed datasets, 186–187

code generation templates

- creating
 - item template, 331–334
 - project template, 335
 - template structure, 335–337
- extending
 - IWizard, 339–341
 - project setup, 337–339
 - starter template, 342–344

code snippets

- aliases, 250, 257, 258–259
- body area, 249, 252
- in C# and J#, 248
- class declaration, 245
- creating manually, 249–254
- creating with VB Snippet Editor
 - replacements explained, 258–261
 - reviewing existing, 256–258
 - starting, 256
- described, 243
- generation, 185

- handheld device buttons, 597
- header, 249, 252
- Imports statement, 250, 257
- inserting, 239, 248
- library (Code Snippets Manager), 254–256
- managing with CodeKeep utility, 443–444
- My namespace, 316
- Notification bubble, 603
- Office programming, 783
- original, 243–244
- surround Refactor! with, 283–284
- testing, 254, 257–258
- Toolbox, adding, 244
- in Visual Basic, 245–248
- code-based security, 195, 196**
- Code/Designer, Visual Studio 2005 window, 458**
- CodeKeep utility, 443–444**
- Collapse to Definitions function, 266–267**
- collection, Converter delegate, applying, 297**
- CollectionAssert **class in the UnitTesting namespace, 752**
- color**
 - code, 267
 - GhostDoc documentation, 445
 - wavy underlines, changing, 234
- Color Picker, web components, 559–560**
- colors, environment options, 17–19**
- COM components**
 - adding, 34
 - described, 33
- ComboBox **control, 36**
- Command window, functions and shortcut (Ctrl+Alt+A), 51**
- Command Window, Visual Studio 2005 window, 464**
- CommandBars **member, 351**
- CommandLineArguments **member, 351**
- commands**
 - Control Outline window, 174–175
 - outlining, 266–267
 - sorting in alphabetical order, 32
- commands, grouped (macros)**
 - binding to keyboard shortcuts, 541–542
 - building and deploying, 354–355
 - creating
 - described, 347
 - recording issues, 348–349
 - temporary, recording, 348
 - DTE object
 - described, 351–353
 - sample macros, 353–354
 - editor, 349–351
 - Macro Explorer
 - described, 345–346
 - running macros, 346–347
 - Text Editor, 353
 - tracepoints, 710
- comments, in regions, 265**
- comments, XML**
 - adding, 156
 - described, 155
 - file, generating, 168–169
 - IntelliSense, 242
 - IntelliSense engine, 169–170
 - tags
 - availability, 156–157
 - <c>, 157
 - <code>, 157–158
 - <example>, 158–159
 - <exception>, 159–160
 - <include>, 160–161
 - <list>, 162–163
 - <para>, 163
 - <param>, 163–164
 - <paramref>, 164
 - <permission>, 165
 - <remarks>, 165
 - <returns>, 165–166
 - <see>, 166
 - <seealso>, 166–167
 - <summary>, 168
 - <typeparam>, 168
 - <value>, 168
- Community Forums (Microsoft), 152–153**
- Comparison, **delegates, predefined, 296–297**
- compilation, debugging, 655–656**
- Compile page, My Project pages, 654**
- Compile section, projects, 88–89**
- compiling, XML resource file, satellite (translating into foreign cultures), 132–133**
- completion lists, turning off in C# and J#, 240**
- ComponentResourceManager, **XML resource file, 133–134**
- conditions**
 - breakpoints, 706–708
 - IntelliSense, writing, 706
- confidentiality, cryptography, 201**
- conflicts, naming**
 - C#
 - described, 306
 - namespace alias qualifier, 307
 - extern alias, 308–309
 - global identifier, 307–308

Connect Timeout, **SQL Server format, 362**

connection strings

- database tables, retrieving multiple, 363–364
- encrypting, 364–366
- in-code construction, 363–364
- SQL Server format, 362–363
- Windows utility (Data Link Properties dialog), 386
- wizard, 357–361

connectors, Toolbox, Class Designer, 182

Console Application project type, 84

constant, TRACE, defining, 656

constraints, generics, 288–289

consumption

- C#, 286
- generics, 286–287

contact, selecting on handheld device, 625

container form controls

- adding, 72–73
- FlowLayoutPanel, 74
- Panel and SplitContainer, 73–74
- TableLayoutPanel, 75

Contents menu command, 145

context, interface, changing, 6

Continue statement, 310

control keys, information about, 323

Control Outline window

- described, 173–174
- extra commands, 174–175

control, properties, viewing, 9–10

ControlBox property, form caption bar, 62

controls

- forms, adding
 - described, 64–65
 - locking design, 69
 - multiple, automatic formatting of, 67–69
 - positioning and sizing guidelines, 65–66
 - properties, 69–71
 - vertically aligning text, 66–67
- SQL Mobile database
 - Customer information form, 615–617
 - described, 615
 - drop-down list, disabling, 622–623
 - employee information, 619–622
 - event handler, 617–618
 - summary and edit forms, 618–619

conversion issues, Visual Basic, 376

Converter delegate, applying, 297

CoolCommands for VS2005, 439–440

Copy Website tool, 684–685

correction, preemptive error

- C#, customized warnings in
 - individual warnings, suppressing, 380
 - stopping solution from being built, 380
 - warning level, setting, 380–381
- Smart Compile Auto Correction, 371–374
- Visual Basic, customized warnings in
 - described, 374–376
 - Duplicate or overlapping catch blocks condition, 379
 - function/operator without return value, 377–378
 - implicit conversion issues, 376
 - implicit type; object assumed, 377
 - instance variable accesses shared member, 378–379
 - late binding; call could fall at run time, 376–377
 - Recursive operator or property access condition, 379
 - Unused local variable condition, 378
 - use of variable prior to assignment, 377

counts, type proxies, 718–719

Courier New font, 18

CPU, targeting build output, 656

CreateAButton.snippet, 254

CreateButtonHelper code snippet, 254

CreateToolWindow2 method, 436

cryptography

- asymmetric key pairs, creating, 204–206
- decrypting symmetric key, 210–212
- encrypting and signing symmetric key, 207–209
- key containers, 217–218
- principles, 201
- receiving a message, 214–215
- SecureString class, 216–217
- sending a message, 212–214
- symmetric key, creating, 206–207
- techniques
 - asymmetric (public/private) keys, 203
 - goals, 204
 - hashing, 202
 - signing, 203
 - symmetric (secret) keys, 202–203
 - verifying key and signature, 209–210

CSS, Positioning options page, 557–558

current window, searching (Alt+I), 488

custom events, 300–301

custom settings provider, creating, 95–96

Customer information form, 615–617

D**:d (single digit, matching), 535****DAO, 639****data access layer, change to, 639****data binding**

BindingNavigator, 398–400

BindingSource, 397–398

BindingSource chains, 401–406

changes, saving, 407–409

controls, interfaces, 520–522

data source selections, 400–401

DataGridView, 417–419

described, 395–396

Movie Collection Starter Kit, 452–453

new items, inserting, 409–410

validation, 410–417

data controls

default control type, changing, 524

formatting, 567

Visual Database Tools

binding, 522–524

described, 522

data integrity, cryptography, 201**data, regular expressions replacing, 533–534****data source**

device applications

DataSet, 615–623

described, 613–615

user authentication, 563

web Menu control, 584

window, 475–476, 515–518

Data Source, SQL Server format, 362**database**

data controls, Toolbox

default control type, changing, 524

views, 522–524

DataSets, strongly typed

application, exposing via web service, 390–394

creating from existing database, 384–387

creating manually, 384

DataSet Designer, 387–390

objects, described, 383–384

diagrams, 514–515

multiple tables, retrieving with connection string,
363–364

SourceSafe, creating, 100

SQL Server, not attached, 362

Visual Database Tools

Data Sources window, 515–518

database diagrams, 514–515

described, 507–508

Server Explorer, 508–510

stored procedures and functions, 513–514

tables, editing, 510–511

views, 512–513

DataGridView, 71, 417–419**DataSet, 615–623****DataSet Designer, 387–390****datasets, strongly typed**

application, exposing via web service

browsing data, 392–394

described, 390–391

Web Service Data Source, 391–392

creating from existing database, 384–387

creating manually, 384

DataSet Designer, 387–390

described, 186–187

objects, described, 383–384

datatables, visualizing, 720–722**DataTips, debugging, 690****DateTimePicker control, 36****debug tab, projects**

illustrated, 89

start action buttons, 89

startup options, 89

unmanaged code and SQL Server, extending to
include, 90**debugging**

add-ins, 436

attributes

DebuggerBrowsable, 715–716

DebuggerDisplay, 716–717

DebuggerHidden, 717

DebuggerNonUserCode, 718

DebuggerStepThrough, 717–718

breakpoints

conditions, 706–708

deleting, 708

described, 689–690

disabling, 708

location, changing, 708–709

options listed, 25

setting, 703–705

window, 690–691

C# builds, 659

debugging (continued)

- Call Stack window, 694–695
 - code window
 - breakpoints, 689–690
 - DataTips, 690
 - described, 689
 - compilation, 655–656
 - DataTips, 690
 - described, 689
 - device applications, emulator, 605–606
 - edit and continue
 - rude edits, 712
 - stop applying changes, 712
 - errors that can't be replicated, 116–117
 - Exception Assistant
 - customizing, 699–700
 - unwinding exception, 700
 - exception handler, 698–699
 - execution point
 - described, 710–711
 - moving, 712
 - stepping in code (F11), 711
 - stepping out code (Shift + F11), 711
 - stepping over code (F10), 711
 - extensions, third-party
 - Regex Visualizer, 446
 - TestDriven.NET, 446–447
 - fields and properties, accessing, 193
 - Immediate Window, 692
 - macro, executing, 355
 - memory windows
 - disassembly, 697
 - four, 696–697
 - Registers window, 697
 - Modules window, 695–696
 - multi-monitor usage, 549
 - options, commonly used, 25–26
 - Output window, 691
 - Processes window, 696
 - saving changes to your object, 723
 - Script Explorer, 692–693
 - Threads window, 695
 - tracepoints
 - creating, 709–710
 - macros, 710
 - output messages, 710
 - type proxy, 718–720
 - visualizers, 720–722
 - Watch Windows
 - Autos and Locals, 694
 - four, 694
 - QuickWatch, 693
 - web application
 - break on errors, automatic, 727
 - described, 725–727
 - error handling, 728–729
 - while executing, 727–728
- decompilers, obfuscation, 221**
- decrypting symmetric key, 210–212**
- default channel, directing to port 8080, HTTP, 115**
- default control type, changing, database data controls, 524**
- DefaultSwitch, trace information source, 494**
- delegate, Toolbox entity, 182**
- delegates, predefined**
- Action, 296
 - Comparison, 296–297
 - Converter, 297
 - described, 295–296
 - EventHandler, 298–299
 - Predicate, 297–298
- deleting, breakpoints, 708**
- dependencies**
- deployment project, 671
 - implicit project, 47
 - manual, build process, 652–653
- deployment**
- add-ins, 436
 - ClickOnce
 - Click to Deploy, 678–683
 - Click to Update, 683
 - described, 677
 - Copy Website tool, 684–685
 - device applications
 - CAB files, 628–629
 - described, 627–628
 - MSI Installer, 629–632
 - diagram, Team System, 810–811
 - InfoPath 2003 toolkit solutions, 776
 - installers
 - building, 665–669
 - custom actions, 673–675
 - customizing, 669–673
 - web project, 675
 - Windows Service, 676–677
 - macros, 354–355

- project
 - files, 670–671
 - Solution Explorer, adding, 666
- Publish Website item on Build menu, 684
- web applications, 569–571
- XCopy, 684
- description**
 - attribute, 749
 - sitewide, 580
- Description, **snippet**
 - creating, 249
 - editing, 259–260
- design preferences, forms, 63–64**
- design skin, device applications**
 - described, 596
 - orientation, 596–597
- design surface, Class Designer, code generation, 180**
- design time layout, 8**
- designer files, XML resource file, customizing, 140**
- Developer Express Refactor! product**
 - C# developer support, 274
 - code, surrounding with snippet, 283–284
 - described, 273
 - downloading, 273
 - encapsulate field, 277–278
 - existing method, adapting to accept additional parameter, 282–283
 - extract interface, 279–280
 - extract method, 275–277
 - method, generating at later stage, 283
 - promote to parameter, 282–283
 - remove parameters, 281
 - rename support, 282
 - reordering parameters, 280–281
 - surround with snippet, 283–284
 - VB.NET developer support, 274–275
- developer tools**
 - HTML Designer, 557–558
 - web applications
 - described, 577–579
 - HTML text editors, 556–557
- developers, software**
 - build automation, 814–818
 - code analysis, 812
 - described, 811
 - performance analysis, 812–814
- development environment extensions, third-party**
 - CoolCommands for VS2005, 439–440
 - MZ-Tools, 440–442
- device applications**
 - data source
 - DataSet, 615–623
 - described, 613–615
 - ResultSet, 623
 - debugging
 - device, 606–607
 - emulator, 605–606
 - deployment
 - CAB files, 628–629
 - described, 627–628
 - MSI Installer, 629–632
 - design skin
 - buttons, 597
 - described, 596
 - orientation, 596–597
 - Device Emulator Manager
 - connecting, 608
 - cradling, 608–609
 - described, 607–608
 - Device Options window, 610–611
 - .NET Compact Framework versions
 - choosing, 594–595
 - compatibility, 595
 - described, 594
 - Project Settings window, 609–610
 - SDF, 632
 - smart project, creating, 593–594
 - Solution Explorer, 595–596
 - Toolbox tabs
 - described, 598
 - mobile controls, 599–605
 - standard controls, 598
 - Windows Mobile 5.0
 - managed APIs, 624–626
 - Notification Broker, 626–627
 - SDK download, 623–624
- Device Emulator Manager**
 - connecting, 608
 - cradling, 608–609
 - described, 607–608
- Device Options window, device applications, 610–611**
- disabling, breakpoints, 708**
- disassembly**
 - address-level debugging, 736
 - breakpoints, 697
 - memory windows, 697
 - window, 471
- displaying, Design Skin, portable devices, 596**

DisplayMode member

DisplayMode **member, 351**

dissassembler, MSIL (Microsoft Intermediary Language), 219–220

DLL

- base address, 659
- compiling, 655

DMA Transport layer, 610

docking

- BindingNavigator control, 398
- IDE elements, 8

document

- environment options, 17
- searching
 - Quick Find (Ctrl +F), Find and Replace, 480–481
 - Quick Replace, 481
- smart, 777

Document Explorer, Help, 145–147

Document Outline window

- functions and shortcut (Ctrl+Alt+T), 51
- HTML, 171–173
- workspace control, 464

documentation, InfoPath 2003 toolkit, 776

Documents and Lists menu, 805

Documents and Settings **path, 21**

Documents **member, 351**

dollar sign (\$), 534

Dotfuscator, 222–225

DownloadFile, **324**

Draw a Pie Chart snippet, 245–247

drop-down list, SQL Mobile database, disabling, 622–623

DTE object

- described, 351–353
- macros, sample, 353–354

Duplicate or overlapping catch blocks

condition, 379

dynamic compilation, web applications, 554

Dynamic Help, 145, 147–148

E

\e (escape character), 535

edit and continue

- rude edits, 712
- stop applying changes, 712

Edit and Continue option, native .NET code, debugging, 26

edit forms, SQL Mobile database, 618–619

editing

- Data Source schema, 518–520
- database tables, Visual Database Tools, 510–511
- Description, snippet, 259–260
- foreign key relationships, 512
- Shortcut, snippet, 259–260
- Title, snippet, 259

editors

- file, choosing different, 539–540
- fonts, 70
- macros, 349–351
- Properties, 70
- Snippet Editor, 249

EditorZone **control**

- AppearanceEditorPart, 589
- BehaviorEditorPart, 589–590
- described, 588–589
- LayoutEditorPart, 590
- PropertyGridEditorPart, 590

e-mail

- handheld devices, 625–626
- passwords, recovering, 565–566

employee information, SQL Mobile database, 619–622

emulator, device applications, 605–606

encapsulate field, Refactor!, 277–278

encrypting

- connection strings, 364–366
- symmetric key, 207–209

#End Region, **364**

entities

- Class Designer, 181–182
- code generation, creating instance of, 192

enum (enumeration), Toolbox entity, 182

environment options

- described, 16–17
- document settings, 17
- fonts and colors, 17–19
- keyboard shortcuts, 19–20
- Task List, 20–21

environment settings, source control, repositories, 99

Error Correction Options, 372

error correction, preemptive

- C#, customized warnings in
 - individual warnings, suppressing, 380
 - stopping solution from being built, 380
- warning level, setting, 380–381
- Smart Compile Auto Correction, 371–374

Visual Basic, customized warnings in
 described, 374–376
 Duplicate or overlapping catch blocks
 condition, 379
 function/operator without return value, 377–378
 implicit conversion issues, 376
 implicit type; object assumed, 377
 instance variable accesses shared member,
 378–379
 late binding; call could fall at run time, 376–377
 Recursive operator `or` property access
 condition, 379
 Unused local variable condition, 378
 use of variable prior to assignment, 377

Error List

described, 13
 functions and shortcut (Ctrl+W, Ctrl+E), 50
 Visual Studio 2005 window, 460–461
errors. See also debugging; testing
 blank messages generated by Upgrade Wizard, 642
 building projects, 650
 C#, building, 659
 can't be replicated, 116–117
 HTTP codes
 redirecting, 726–727
 status, 732
 messages, customizing, 732–733
 smart tag, displaying with IntelliSense, 234–235
 upgrade
 Task List, 643–644
 Visual Basic code block, converting, 647
 Upgrade Output, 644–645
 user authentication components, 563–564
 warning messages generated by Visual Basic 6, 639
 web applications, handling
 application-level errors, 729
 page-level errors, 728–729

escape character (\e), 535

escape wildcard expression (\), 483

event handler

Form Options, 771
 generating, 237, 498
 iterating through new events, 499
 SQL Mobile database, 617–618

Event Logs, 492–494

`EventHandler`, delegates, predefined, 298–299

events, Servers node management, 496–499

Events view, Properties view, toggling between, 10

Excel (Microsoft)

code files, writing, 782–783
 controls, customizing, 782
 tools, viewing, 781
 VSTO project, creating, 779

Exception Assistant

break on errors, automatic, 727
 unwinding exception, 700
 XML file, 699–700

exception handler, debugging, 698–699

Exceptions dialog window, displaying (Ctrl+Alt+E), 19

`Exec method`, `IDTCommandTarget` interface, 434

execution point

described, 710–711
 moving, 712
 stepping in code (F11), 711
 stepping out code (Shift + F11), 711
 stepping over code (F10), 711

existing method, adapting to accept additional parameter, 282–283

`ExpectedException` attribute, 752–753

Export Template Wizard, 332–333, 335

exporting, Class Details window, 184

expressions, regular

described, 529, 532–533
 Find and Replace, 530–531
 in .NET programming
 Match object, 537
 MatchCollection, 537–538
 Regex class, 536–537
 replacing substrings (`Replace` method), 538
 programming, 530
 Quick Find and Replace dialog options, 483
 replacing data, 533–534
 Smart Tags, Visual Studio Tools for Office, 531–532
 syntax, 534–535

extensions. See InfoPath 2003 toolkit; Team System; VSTO

extensions, third-party

code aids
 CodeKeep utility, 443–444
 Imports Sorter, 443
 development environment enhancements,
 CoolCommands for VS2005, 439–440
 development environment enhancements, MZ-Tools,
 440–442
 documentation, GhostDoc for, 445–446
 MZ-Tools, 440–442

extensions, third-party (continued)

- testing and debugging
 - Regex Visualizer, 446
 - TestDriven.NET, 446–447

extern alias, naming conflicts, 308–309

external code, attributed, 717

extract method, Refactor!, 275–277

F

F1 key, Help, 143–144

facts, unit testing

- CollectionAssert class in the UnitTesting namespace, 752
- described, 750–751
- ExpectedException attribute, 752–753

fallback process, 132

Favorites window, Help, 151

feedback, handheld devices, 602–605

fields, code generation, 193

File Disassembler add-in, 221

file format

- projects, 84
- solutions, 81

filename, Go To Find Combo, 543

files

- Active Files List, accessing, 540–541
- checking in and out, 102
- class diagram, 189
- deployment project, 670–671
- editors, choosing different, 539–540
- hierarchical lists, 8
- IDE, viewing, 8–9
- properties, viewing, 9–10
- remote location, accessing, 324
- Show All Files button, 9
- source, matching original versions, 26
- splitting single type across multiple, 41
- tab row, opening with, 12
- version, pinning, 104–105
- Windows Explorer temporary solution, deleting, 41
- XML comments, generating, 168–169

Fill method, 388

filtering, Help results, 150

filters, breakpoint, 25, 737

finalizing, web applications, 569–571

Find and Replace

- Find in Files
 - described, 484
 - dialog options, 484–485

- Find Results window, 485–486
 - opening (Ctrl+Shift+F), 484
- options, 489–490
- Quick Find and Replace dialog options
 - described, 481–482
 - regular expressions, 483
 - wildcards, 482–483
- Quick Find (Ctrl +F), 480–481
- Quick Replace, 481
- regular expressions, 530–531
- tiers, 479–480

Find in Files

- described, 484
- dialog options, 484–485
- Find Results window, 485–486
- opening (Ctrl+Shift+F), 484

Find Results, Visual Studio 2005 window, 463

Find Symbol, 489

Fixed3D form border, 62

FixedDialog form border, 62

FixedSingle form border, 62

fixed-size window or special border, forms, 62

FixedToolWindow form border, 62

FlowLayoutPanel, container controls, 74

folder

- bookmarks, creating, 270
- snippets, adding to library, 255, 261
- templates, 334, 335–336

folders, searching. See Find in Files

fonts

- editor, 70
- environment options, 17–19
- size
 - changing, 541–542
 - macro adjusting, 353–354

forced reformat of code, IDE shortcuts, 544

Ford, Sara (Microsoft worker), 545

foreign cultures, translating into

- advantages of, 130
- groups of cultures, 131
- loading, 132

foreign key, relationships, editing, 512

formatting

- data controls, 567
- user authentication, 563
- web application controls, 558–559

forms

- caption bar properties, 61–62
- container controls
 - FlowLayoutPanel, 74

Panel and SplitContainer, 73–74
 TableLayoutPanel, 75
 controls, adding
 container, 72–73
 described, 64–65
 locking design, 69
 multiple, automatic formatting of, 67–69
 positioning and sizing guidelines, 65–66
 properties, 69–71
 vertically aligning text, 66–67
 default created by application, 60–61
 design preferences, 63–64
 fixed-size window or special border, 62
 InfoPath 2003 toolkit
 adding code to, 768–773
 field events, 773–774
 ListView control, 72–73
 properties
 changing, 59–62
 viewing, 9–10
 service-based components, 71
 size, changing, 59
 sizing, 59–60
 smart tag tasks, 71–72
 splash screen, selecting, 87–88

Forms Designer, code generation, 187–188

Forms namespace, 625

forms, Windows, Control Outline view, 173–174

Forward/Backward keys, 476–477

framework, startup, accessing, 114

FTP

Site location type, 553
 web applications, 552
 web solutions, creating, 42

full screen monitor mode, 476

function

calls, enabling implicit, 25–26, 737
 database windows, Visual Database Tools, 513–514
 IntelliSense name, checking, 704
 name, Go To Find Combo, 543
 without return value, 377–378

G

generate method stub, Refactor!, 283

GenerateMagicNumber method, 224

generating code. See also code generation templates

Class Designer
 Class Details window, 182–183
 class diagram file, 189

class diagram schema, 190
 described, 179–180
 design surface, 180
 exporting, 184
 IntelliSense code generation, 191
 Layout, 184
 Properties window, 183–184
 Toolbox, 181–182
 Forms Designer, 187–188
 My Namespace, 188–189
 object test bench
 entities, creating instance of, 192
 fields and properties, 193
 instance methods, 193–194
 static methods, invoking, 191–192
 project and item templates, 186
 refactoring, 185–186
 snippets, 185
 strongly typed datasets, 186–187

generics

benefits of using, 285–286
 C#, consumption, 286
 constraints, 288–289
 consumption, 286–287
 creation, 287–288

GetData method, 388

GetObject method, 352, 723

GhostDoc documentation, 445–446

Global Assembly Cache, 368

global identifier, naming conflicts, 307–308

Global keyword, 311

GMT time, 322

Go To Find Combo, > (greater than sign any command), 543

graphics

resources, projects, 91
 selecting on handheld device, 625

gray background, 27

greater than sign any command (>), 543

green code margin, 267

groups

of cultures, XML resource file, 131
 List view, displaying, 30
 Toolbox, 29–31

H

\h (backspace character), 535

:h (hexadecimal numbers, matching), 535

hackers, code-based security, 196

handheld device applications

- data source
 - DataSet, 615–623
 - described, 613–615
 - ResultSet, 623
- debugging
 - device, 606–607
 - emulator, 605–606
- deployment
 - CAB files, 628–629
 - described, 627–628
 - MSI Installer, 629–632
- design skin
 - buttons, 597
 - described, 596
 - orientation, 596–597
- Device Emulator Manager
 - connecting, 608
 - cradling, 608–609
 - described, 607–608
- Device Options window, 610–611
- .NET Compact Framework versions
 - choosing, 594–595
 - compatibility, 595
 - described, 594
- Project Settings window, 609–610
- SDF, 632
- smart project, creating, 593–594
- Solution Explorer, 595–596
- Toolbox tabs
 - described, 598
 - mobile controls, 599–605
 - standard controls, 598
- Windows Mobile 5.0
 - managed APIs, 624–626
 - Notification Broker, 626–627
 - SDK download, 623–624

hardware button, mobile controls, 599

hash (#), 482

hashing

- described, 202
- value, generating with SHA1Managed algorithm, 207–209

header, **code snippet, 249, 252**

Help

- Ask a Question command, 152–153
- C# menu and shortcuts, 144–145
- customizing
 - Keyboard group, 152
 - online, preference for, 151

- Document Explorer, 145–147
- Dynamic Help, 147–148
- F1 key, 143–144
- Favorites window, 151
- Search window
 - described, 148–149
 - filtering results, 150
 - sorting results, 149–150
- table of contents or search page within system, 144–145

Help Favorites menu command, 145

HelpButton **property, form caption bar, 62**

hidden items, Solution Explorer, showing, 40–41

hidden Options screen settings, viewing, 15–16

hiding, code section, 266

hierarchical lists, file, 8

highlighting while debugging, 737

History, Visual Studio 2005 window, 466–467

host controls, 782

host name, SQL Server, 362

How Do I menu command, 144

HTML

- details, displaying, 578–579
- Document Outline view, 171–173
- Notification bubble, 603–605
- text editors, 556–557
- web applications, navigating, 554
- web controls, editing, 558–559

HTML Designer, 557–558

HTTP

- default channel, directing to port 8080, 115
- error codes
 - redirecting, 726–727
 - status, 732
- request and response information, accessing, 325
- web applications, 552
- web solutions, creating, 42

icons

- bookmarks, 268
- breakpoint, 268
- resources, projects, 91
- Toolbox, showing without label, 30

ID, button click event, 774–776

IDataErrorInfo **interface, 423**

IDE (Integrated Development Environment)

- basic layout, 6–8
- default layout, 11
- docking elements, 8

- macros, 349–350
- multi-monitor layouts, 548–549
- opening, 3–5
- projects and files, viewing, 8–9
- Properties window, 9–11
- shortcuts
 - Active Files List, accessing, 540–541
 - font size, changing, 541–542
 - forced reformat of code, 544
 - Go To Find Combo, 543–544
 - Open With dialog box, 539–540
 - rectangular selections, making, 542
 - word wrapping, 544
- user interface, 6
- windows, additional, 13
- working space, 12
- `IDTCommandTarget` **interface**
 - `Exec` method, 434
 - `QueryStatus` method, 433–434
- `IDTExtensibility2` **interface, 432–433**
- ILDasm, 219–220**
- images**
 - resources, projects, 91
 - selecting on handheld device, 625
- Immediate Window**
 - debugging, 692
 - described, 470
 - functions and shortcut (Ctrl+G), 52
- implicit type, Visual Basic, 377**
- Imports Sorter code aid, 443**
- `Imports` **statement, code snippet, 250, 257**
- Incremental Search, 488**
- Index menu command, 145**
- Index Results menu command, 145**
- InfoPath 2003 toolkit**
 - deploying solutions, 776
 - documentation, 776
 - forms, adding code to
 - button click event, 774–776
 - field events, 773–774
 - form-related events, 768–773
 - managed solution, creating
 - described, 763–765
 - generated solution, 765–766
 - Visual Studio, switching between, 767–768
 - obfuscation, 776
- inheritance connector, 182**
- inheritance, following execution path. See Call Stack window**
- Initial Catalog, **SQL Server format, 362**
- initializing and cleaning up, unit testing**
 - `AssemblyInitialize` and `AssemblyCleanup`
 - attributes, 753
 - `ClassInitialize` and `ClassCleanup`
 - attributes, 753
 - `TestInitialize` and `TestCleanup`
 - attributes, 753
- input forms**
 - caption bar properties, 61–62
 - container controls
 - `FlowLayoutPanel`, 74
 - `Panel` and `SplitContainer`, 73–74
 - `TableLayoutPanel`, 75
 - controls, adding
 - container, 72–73
 - described, 64–65
 - locking design, 69
 - multiple, automatic formatting of, 67–69
 - positioning and sizing guidelines, 65–66
 - properties, 69–71
 - vertically aligning text, 66–67
 - default created by application, 60–61
 - design preferences, 63–64
 - fixed-size window or special border, 62
 - InfoPath 2003 toolkit
 - adding code to, 768–773
 - field events, 773–774
 - `ListView` control, 72–73
 - properties, changing, 59–62
 - properties, viewing, 9–10
 - service-based components, 71
 - size, changing, 59
 - sizing, 59–60
 - smart tag tasks, 71–72
 - splash screen, selecting, 87–88
- inserting, code snippets (Ctrl+K, Ctrl+X), 248**
- installation, user interface, 672–673**
- installers**
 - custom actions, 673–675
 - deployment
 - building, 665–669
 - customizing, 669–673
 - Setup Wizard, building, 665–666
 - web project, 675
 - Windows Service, 676–677
- instance**
 - methods, object test bench code generation, 193–194
 - single, 86
 - variable accesses shared member, 378–379
- integer overflow checks, 655**

Integrated Development Environment (IDE)

- basic layout, 6–8
- default layout, 11
- docking elements, 8
- macros, 349–350
- multi-monitor layouts, 548–549
- opening, 3–5
- projects and files, viewing, 8–9
- Properties window, 9–11
- shortcuts
 - Active Files List, accessing, 540–541
 - font size, changing, 541–542
 - forced reformat of code, 544
 - Go To Find Combo, 543–544
 - Open With dialog box, 539–540
 - rectangular selections, making, 542
 - word wrapping, 544
- user interface, 6
- windows, additional, 13
- working space, 12

Integrated Security, **SQL Server format, 362**

IntelliSense. *See also* code snippets

- adding your own, 242
- C# and J# options, 240–241
- code generation, 191
- completing words and phrases
 - list members, 235–236
 - stub completion, 236–237
- conditions, writing, 706
- described, 233–234
- function name, checking, 704
- general, 234–235
- general options, 238–240
- parameter information, 238
- Quick Info, 238
- Smart Compile Auto Correction, 371–374
- XML comments, 169–170, 242

interface

- context, changing, 6
- data source selections, 400–401
- deployment project, 677
- IDE, 6
- implicit implementation, generating, 239
- installation, 672–673
- response time, maintaining with threads, 695
- toolbars, adding, 7
- Toolbox entity, 182
- Visual Database Tools
 - Data Binding controls, 520–522
 - editing Data Source schema, 518–520
- web site administration, 571

international applications, translating

- advantages of, 130
- groups of cultures, 131
- loading, 132

Internet, help via, **151–152**

Interval property, **639**

invariant culture, **131**

IP address, SQL Server, **362**

IsInRole method, **198–199**

IsMatch method, **536**

IsNot operator, **310–311**

IsSaveAs flag, **772**

item

- MSBuild schema, 663
- templates, creating, 331–332

iteration

- C#, 304–305
- hit count, 707
- new events, 499

IWizard, **339–341**

J

J#

- code snippets, 248
- IntelliSense, 240–241

JIT optimization, suppressing, **738**

Just My Code option, debugging, **718, 737**

K

keyboard

- environment option shortcuts, 19–20
- help, customizing, 152
- shortcuts
 - Go to Find Combo, 543
 - macros, assigning, 541–542

keys

- adding while installing files, registry, 670
- containers, 217–218
- decrypting symmetric, 210–212
- handheld device, handling, 599
- verifying, 209–210
- workspace navigation
 - Between Windows, 478
 - Forward/Backward, 476–477
 - Next/Previous Task, 477–478

key-value pairs, web site administration, **574**

keyword, color-coding, **547–548**

L**Label control, 36****label, Toolbox icons, showing without, 30****Language Filter, 146–147****languages. See also individual languages listed by name**

C#, building, 659

projects based in, 527

statement completion, IntelliSense, 240

late binding, 376–377**launching (deployment)**

add-ins, 436

ClickOnce

Click to Deploy, 678–683

Click to Update, 683

described, 677

Copy Website tool, 684–685

device applications

CAB files, 628–629

described, 627–628

MSI Installer, 629–632

diagram, Team System, 810–811

InfoPath 2003 toolkit solutions, 776

installers

building, 665–669

custom actions, 673–675

customizing, 669–673

web project, 675

Windows Service, 676–677

macros, 354–355

project

files, 670–671

Solution Explorer, adding, 666

Publish Website item on Build menu, 684

web applications, 569–571

XCopy, 684

Layout, Class Details window, 184**LayoutEditorPart, 590****library**

class, adding reference to, 391

code snippets, 254–256

DLL

base address, 659

compiling, 655

line break character (\n), 535**line, first of code, 265****LinkLabel control, 36****Lippert, Eric (Visual Basic .NET Code Security Handbook), 199****list members, IntelliSense completing words and phrases, 235–236****List view, groups, displaying, 30****ListBox control, 36****List.ForEach method, 296****lists, specific action performing (Action delegate), 296****ListView control, 36, 72–73****Literal tag**

Snippet Editor, 258–259

structure, code snippets, 250–251, 252–253

tab defining, 257

literal, wildcard search (\), 483**Load event of form, 393****load testing, Team System, 819–822****locale, sorting by, 150****LocaleID member, 351****location, breakpoints, changing, 708–709****locking design, form controls, 69****log file**

Upgrade Wizard, 642

writing information to, 493

logic, renaming symbols to obscure. See obfuscation**LoginStatus control, 565****LoginView object, Toolbox, 566****Look at These File Types drop-down list, 484–485****loop, point of execution, moving to end of (Continue statement), 310****Lucida Console font, 18****M****Macro Explorer**

described, 345–346

running macros, 346–347

Visual Studio 2005 window, 468

macro viruses, detecting, 778–779**macros**

binding to keyboard shortcuts, 541–542

building and deploying, 354–355

creating

described, 347

recording issues, 348–349

temporary, recording, 348

DTE object

described, 351–353

sample macros, 353–354

editor, 349–351

Macro Explorer

described, 345–346

running macros, 346–347

Text Editor, 353

tracepoints, 710

mail

- handheld devices, 625–626
- passwords, recovering, 565–566
- mail, sending from application (SMTPClient class), 115–116**
- MainWindow member, 351
- managed APIs, Windows Mobile 5.0**
 - configuration, 624–625
 - Forms namespace, 625
 - PocketOutlook namespace, 625–626
 - Status namespace, 626
 - Telephony namespace, 626
- managed code, ignoring all but, 25**
- managed solution, InfoPath 2003 toolkit**
 - described, 763–765
 - generated solution, 765–766
 - Visual Studio, switching between, 767–768
- managed/native boundaries, 736**
- management classes, 494–496**
- management events, 496–499**
- manual dependencies, build process, 652–653**
- manual testing, Team System, 818–819**
- margin icons, visual indicators, 268–269**
- MaskedTextBox control, 36
- Master/Detail content pages, web applications, 568–569**
- Match method, 536
- Match object, 537
- MatchCollection, 537–538
- Matches method, 536
- MaximizeButton property, form caption bar, 61
- member body, code snippet, 245**
- member declaration, code snippet, 245, 260**
- member list, selecting in C# and J#, 240–241**
- Memory, Visual Studio 2005 window, 471**
- memory windows, debugging**
 - disassembly, 697
 - four, 696–697
 - Registers window, 697
- Menu control, 584–585
- merging changes, multiple developers, 103–104**
- Message Queues node, Server Explorer, 499–501**
- methods, strongly typed, 361**
- Microsoft Community Forums, 152–153**
- Microsoft Excel**
 - code files, writing, 782–783
 - controls, customizing, 782
 - tools, viewing, 781
 - VSTO project, creating, 779

Microsoft Intermediary Language (MSIL)

- described, 219
- dissassembler, 219–220

Microsoft .NET

- assembly, importance of, 367
- code-based security, 195
- DataSets, strongly typed, 383
- framework, caution about obfuscating, 225
- native code, debugging with Edit and Continue
 - option, 26
- programming, regular expressions
 - Match object, 537
 - MatchCollection, 537–538
 - Regex class, 536–537
 - replacing substrings (Replace method), 538
- upgrading to Visual Studio 2005, 637–638

Microsoft .NET Compact Framework versions

- choosing, 594–595
- compatibility, 595
- described, 594

Microsoft Office tools, 806–807. See also InfoPath 2003 Toolkit; IntelliSense; VSTO

Microsoft Windows

- Application, project type, 84
- built-in roles, 199
- references, adding in Solution Explorer, 45
- registry, accessing, 324–325
- utility (Data Link Properties dialog), connection strings, 386

Microsoft Windows Mobile 5.0

- compatibility, 595
- configuration, testing, XML, 624–625
- device applications, managed APIs, 624–626
- download, Pocket PC, 623
- emulator, 605
- managed APIs
 - configuration, 624–625
 - Forms namespace, 625
 - PocketOutlook namespace, 625–626
 - Status namespace, 626
 - Telephony namespace, 626
- SDK download, 623–624
- testing, 606–607

Microsoft Windows Registry

- accessing, 324–325
- keys, adding while installing files, 670
- keyword color-coding, 547–548
- right-click new solution, 545–546
- vertical guidelines, 544–545

Microsoft Windows Service

- installers, 676–677
- projects, 318

Microsoft Word

- test generating, 818
- Visual Designer, 780–783
- VSTO project, creating, 779

MID (multiple-document interface), 16

MinimizeButton **property, form caption bar, 61**

mobile controls, Toolbox tabs

- hardware button, 599
- Notification bubble, 602–605
- SIP, 600–602

Mode **member, 351**

module, **Toolbox entity, 182**

Modules window, **472, 695–696**

monitor, **full screen mode, 476**

MonthCalendar **control, 36**

Movie Collection Starter Kit, **452–453**

MSBuild

- automation, 814
- described, 660
- project, 651–652
- schema
 - items, 663
 - properties, 663
 - Targets, 663–664
 - tasks, 664
- Visual Studio, how it uses, 660–662

mscorlib.dll, **referencing, 659**

MSDN, **Visual Studio start page, 457**

MSI Installer, **629–632**

MSIL (Microsoft Intermediary Language)

- described, 219
- dissassembler, 219–220

multi-monitor layouts, **548–549**

multiple developers

- checking out files, 102–103
- merging changes, 103–104
- pinning versions, 104–105
- source code repository, viewing, 100–101
- version history, 104

MultipleActiveResultSets **property, 363–364**

MultipleActiveResultSets, **SQL Server**

format, 363

multiple-document interface (MID), **16**

My namespace

- in C#, 316–317
- code generation, 188–189

code snippet, 316

components, 315

contextual, 317–320

described, 313–315

My.Application object, 320–321

My.Computer object

described, 321

My.Computer.Audio, 322

My.Computer.Clipboard, 322

My.Computer.Clock, 322

My.Computer.FileSystem, 323

My.Computer.Info, 323

My.Computer.Keyboard, 323–324

My.Computer.Mouse, 324

My.Computer.Network object, 324

My.Computer.Ports object, 324

My.Computer.Registry object, 324–325

My.Forms, 325

My.Request and My.Response, 325

My.Resources, 325–327

My.Settings, 327

My.User, 327

XML resource file, 133

My Project pages

Build Configuration options, 649

Compile page, 654

My.Application **object, 315, 320–321**

My.Computer **object**

described, 315, 321

My.Computer.Audio, 322

My.Computer.Clipboard, 322

My.Computer.Clock, 322

My.Computer.FileSystem, 323

My.Computer.Info, 323

My.Computer.Keyboard, 323–324

My.Computer.Mouse, 324

My.Computer.Network object, 324

My.Computer.Ports object, 324

My.Computer.Registry object, 324–325

My.Forms, **315, 325**

My.Log, **315**

My.Request, **315, 325**

My.Resources, **315, 325–327**

My.Response, **315, 325**

My.Settings, **315, 327**

My.User, **315, 327**

My.WebServices, **315**

MZ-Tools, 440–442

N

\n (line break character), 535

namespace

- alias qualifier, 307
- extern alias, 308–309
- program logic, use in, 530

namespace, My

- in C#, 316–317
- code generation, 188–189
- code snippet, 316
- components, 315
- contextual, 317–320
- described, 313–315
- My.Application object, 320–321
- My.Computer object
 - described, 321
 - My.Computer.Audio, 322
 - My.Computer.Clipboard, 322
 - My.Computer.Clock, 322
 - My.Computer.FileSystem, 323
 - My.Computer.Info, 323
 - My.Computer.Keyboard, 323–324
 - My.Computer.Mouse, 324
 - My.Computer.Network object, 324
 - My.Computer.Ports object, 324
 - My.Computer.Registry object, 324–325
- My.Forms, 325
- My.Request and My.Response, 325
- My.Resources, 325–327
- My.Settings, 327
- My.User, 327
- XML resource file, 133

naming conflicts

- C#
 - described, 306
 - namespace alias qualifier, 307
- extern alias, 308–309
- global identifier, 307–308

naming, XML resource file, 130

narrowing type conversion, 293

navigation buttons, Wizard component, 561

navigation components, web application controls, 562–563

navigation, sitemap, described, 579

.NET

- assembly, importance of, 367
- code-based security, 195
- DataSets, strongly typed, 383
- framework, caution about obfuscating, 225

native code, debugging with Edit and Continue option, 26

programming, regular expressions

- Match object, 537
- MatchCollection, 537–538
- Regex class, 536–537
- replacing substrings (Replace method), 538
- upgrading to Visual Studio 2005, 637–638

.NET Compact Framework versions

- choosing, 594–595
- compatibility, 595
- described, 594

neutral culture, 131

new items, inserting, data binding, 409–410

Next/Previous Task keys, 477–478

nodes, Server Explorer, 491

non-repudiation, described, 201

Notification bubble, 602–605

Nullable types, 289–291

numbers, Go To Find Combo, 543

NumericUpDown control, 36

O

obfuscation

- attributes
 - Obfuscation, 228
 - ObfuscationAssembly, 227
- decompilers, 221
- Dotfuscator, 222–225
- InfoPath 2003 toolkit, 776
- MSIL disassembler, 219–220
- reflection, 225
- strongly named assemblies, 225–227

Object Browser, Visual Studio 2005 window, 461

Object Data Source

- described, 419–423
- IDataErrorInfo interface, 423

Object Test Bench

- code generation, instance methods, 193–194
- workspace control, 465

Object Test Branch, 51

objects

- DataSets, strongly typed, 383–384
- saving debugging changes to your, 723
- symbols, searching for, 489
- tooltip, displaying while debugging, 716–717

Office (Microsoft) tools, 806–807. See also InfoPath 2003 Toolkit; IntelliSense; VSTO

On Context Change event, 770

On Error statement, 646
On Load event, 769
On Sign event, 770
On Switch Views event, 769
 OnConnection routine, 433
one character in set ([]), 483
online Help, 151
Open With dialog box, 539–540
operator
 overloading, 292–293
 without return value, 377–378
 Operator keyword, 292–293
Optimizations, 655
Option Explicit and Option Strict compile warnings, 374–375
Option Script setting, Options screen, 23
Options screen
 access, 15
 Build and Run settings, 22–23
 debugging
 commonly used, 25–26
 Edit and Continue option, 26–27
 environment options
 described, 16–17
 document settings, 17
 fonts and colors, 17–19
 keyboard shortcuts, 19–20
 Task List, 20–21
 hidden settings, viewing, 15–16
 Option Script setting, 23
 project locations
 customizing, 22
 default, 21
 Text Editor
 All Languages section, 24
 described, 23
orientation, Pocket PC, changing from portrait to landscape, 596–597
outlining commands, code regions, 266–267
Outlook Add-Ins, 787
output messages, tracepoints, 710
output tracing, 731–732
Output window
 debugging, 691
 described, 13
 functions and shortcut (Ctrl+Alt+O), 51
 workspace control, 463
Output Window text, redirecting, 738
 Owner attribute, 749

P

PageCatalogPart, 592
pages, HTML, 171–173
 Panel and SplitContainer controls, 73–74
parameters
 adapting existing method to accept additional, 282–283
 information, IntelliSense, 238
 list, function call (Ctrl+Shift+Space or Ctrl+Shift+I), 239
 readability, reordering, 280–281
parentheses ([]), 534
partial classes, 41
passwords
 changes, forcing, 565
 recovering forgotten, 565
 SQL Server, 362, 363
Pending Changes
 source control and, 102–103
 Team Foundation Server
 Check-in Notes, 107
 Policy Warnings, 107–108
 source files, 106
 Visual Studio 2005 window, 467–468
 Work Items, 107
Performance Counters, Server Explorer, 501–504
Performance Explorer, Visual Studio 2005 window, 465
performance, Team System analysis, 812–814
period (.), 235, 535
Personal Web Site Starter Kit, 453–454, 555–556
phone calls, initiating, 626
phrases, IntelliSense completing, 235–236
PIAs (Primary Interop Assemblies), 788
 PictureBox control, 37
pictures
 resources, projects, 91
 selecting on handheld device, 625
 Ping, 324
pinning development versions, 104–105
pipe character (|), 535
plain text, test generating, 818
plug-ins, 98–99
plus sign (+), 534
Pocket PC
 described, 606
 emulators, 606
 orientation, changing from portrait to landscape, 596–597
 Windows Mobile download, 623

PocketOutlook namespace, **625–626**

point of execution, moving to end of loop (Continue statement), 310

Policy Warnings, Pending Changes, Team Foundation Server, 107–108

port 8080, 115

portable device applications

data source

DataSet, 615–623

described, 613–615

ResultSet, 623

debugging

device, 606–607

emulator, 605–606

deployment

CAB files, 628–629

described, 627–628

MSI Installer, 629–632

design skin

buttons, 597

described, 596

orientation, 596–597

Device Emulator Manager

connecting, 608

cradling, 608–609

described, 607–608

Device Options window, 610–611

.NET Compact Framework versions

choosing, 594–595

compatibility, 595

described, 594

Project Settings window, 609–610

SDF, 632

smart project, creating, 593–594

Solution Explorer, 595–596

Toolbox tabs

described, 598

mobile controls, 599–605

standard controls, 598

Windows Mobile 5.0

managed APIs, 624–626

Notification Broker, 626–627

SDK download, 623–624

positioning and sizing guidelines, form controls, 65–66

Positioning options page, 557–558

pragma warnings, C#, 309

`Predicate` delegate, 297–298

preemptive error correction

C#, customized warnings in

individual warnings, suppressing, 380

stopping solution from being built, 380

warning level, setting, 380–381

Smart Compile Auto Correction, 371–374

Visual Basic, customized warnings in

described, 374–376

Duplicate or overlapping catch blocks

condition, 379

function/operator without return value, 377–378

implicit conversion issues, 376

implicit type; object assumed, 377

instance variable accesses shared member, 378–379

late binding; call could fall at run time, 376–377

Recursive operator or property access

condition, 379

Unused local variable condition, 378

use of variable prior to assignment, 377

Primary Interop Assemblies (PIAs), 788

priorities, Task List, 20–21

`Priority` attribute, 750

private members, unit testing, 758–759

problems. See also debugging; testing

blank messages generated by Upgrade Wizard, 642

building projects, 650

C#, building, 659

can't be replicated, 116–117

HTTP codes

redirecting, 726–727

status, 732

messages, customizing, 732–733

smart tag, displaying with IntelliSense, 234–235

upgrade

Task List, 643–644

Visual Basic code block, converting, 647

Upgrade Output, 644–645

user authentication components, 563–564

warning messages generated by Visual Basic 6, 639

web applications, handling

application-level errors, 729

page-level errors, 728–729

procedural names, symbols, searching for, 489

process templates, customizing, Team System, 828–830

Processes Window

debugging, 696

workspace control, 471

program logic, namespace, use in, 530

programmer, Solution Explorer view, changing, 5

programming

keyword, Go To Find Combo, 543

regular expressions, 530

programs. See also device applications

- configurations, care when referencing, 112
- DataSets, strongly typed, 390–391
- handheld device keys, handling, 599
- mail, sending from (`SmtplibClient` class), 115–116
- security
 - code-based, 196–197
 - described, 195
 - role-based, 197–199
- settings, binding to control properties, described, 423–424
- VSTO
 - Actions Pane, 784–785
 - described, 777–778
 - new version, 778–780
 - Outlook Add-Ins, 787
 - sample project, 788–800
 - Smart Tags, 785–787
 - Visual Designer, 780–783
- web service
 - browsing data, 392–394
 - data source, 391–392
- Windows Mobile Notification Broker, 626–627

ProgressBar control, 36**project and item templates, code generation, 186****Project Explorer, macros, 350****Project Guidance, 803–804****project, searching, 480–481****Project Settings window, 609–610****projects**

- Application tab
 - Assembly Information button, 85–86
 - VB.NET application framework, 86–88
- code analysis, 94–95
- Compile section, 88–89
- custom settings provider, creating, 95–96
- debug tab
 - illustrated, 89
 - start action buttons, 89
 - startup options, 89
 - unmanaged code and SQL Server, extending to include, 90
- file format, 84
- IDE, viewing, 8–9
- locations
 - customizing, 22
 - default, 21
- new, creating, 6
- properties, 84
- publishing, 94

- references, 90–91
- resources, 91
- security, 93
- settings, 91–92
- setup, 337–339
- Signing tab, 92
- solutions, relationship to, 79–80
- template, 335
- types, 84
- Visual Database Tools
 - code language-based, managing, 527
 - script-based, 526–527

properties

- accessibility, 299–300
- `BindingNavigator` control, 399
- caption bar, form, 61–62
- class, viewing, 9–10
- code generation, 193
- code snippets, 257
- deployment projects, 668–669
- evaluating, 737
- evaluation during debugging, 25–26
- form
 - changing, 59–62
 - controls, 69–71
- `ListView` control, 72
- MSBuild schema, 663
- projects, 84
- queries, building, 390
- Solution Explorer, 46–47
- solutions
 - common, 82
 - configurations, 82–83
 - described, 81–82
 - unit testing, 756–757
 - VB.NET accessibility, 300
- Web Parts
 - custom, creating, 590
 - editing, 589

Properties member, 351, 353**Properties window**

- Class Details window, 183–184
- described, 9–10
- functions and shortcut (F4), 50
- workspace controls, 459

Property Manager, Visual Studio 2005 window, 465–466**PropertyGridEditorPart, 590****proportional fonts, 19****Publish Website item on Build menu, 684****publishing, ClickOnce deployment model, 94**

Q

:q (quoted string, matching), 535

queries

- Predicate delegate, 297–298
- properties, 390
- views, 512–513

Query Builder window, 388–389

`QueryStatus` method, **433–434**

question mark (?), 482, 534

Quick Find and Replace dialog options

- described, 481–482
- regular expressions, 483
- wildcards, 482–483

Quick Find (Ctrl +F), Find and Replace, 480–481

Quick Info, IntelliSense, 238

Quick Replace, 481

QuickWatch, 693

R

`RadioButton` control, **36**

rank, sorting by, 150

rating, sorting by, 150

readability, parameters, reordering, 280–281

receiving a message, 214–215

recognition phase, smart tags, 786

recording macros, potential problems, 348–349

rectangular selections, making, 542

Recursive operator or property access
condition, **379**

Refactor! product (Developer Express)

- C# developer support, 274
- code, surrounding with snippet, 283–284
- described, 273
- downloading, 273
- encapsulate field, 277–278
- existing method, adapting to accept additional parameter, 282–283
- extract interface, 279–280
- extract method, 275–277
- method, generating at later stage, 283
- promote to parameter, 282–283
- remove parameters, 281
- rename support, 282
- reordering parameters, 280–281
- surround with snippet, 283–284
- VB.NET developer support, 274–275

refactoring

- C#, 185
- code generation, 185–186
- VB.NET, 185

references

- add-ins, 433
- application configurations, 112
- class, adding to library, 391
- My objects, accessing, 316–317
- projects, 90–91
- system framework, code snippets, 257

reflection, obfuscation, 225

Reflector decompiler, 221

`Regex` object

- creating, 536
- `Replace` method, 533
- text matching, 530

Regex Visualizer extension, 446

`#Region`, **364**

regions

- bookmarks, 269–271
- comments, 265
- creating, 264–265
- described, 263–264
- outlining commands, 266–267
- title, 265
- using, 265–266
- visual indicators
 - color coding, 267–268
 - margin icons, 268–269

Registers window, 470, 697

registration (.AddIn configuration), add-ins, 436

Registry (Microsoft Windows)

- accessing, 324–325
- keys, adding while installing files, 670
- keyword color-coding, 547–548
- right-click new solution, 545–546
- vertical guidelines, 544–545

regular expressions

- described, 529, 532–533
- Find and Replace, 530–531
- in .NET programming
 - `Match` object, 537
 - `MatchCollection`, 537–538
 - `Regex` class, 536–537
 - replacing substrings (`Replace` method), 538
- programming, 530

- Quick Find and Replace dialog options, 483
- replacing data, 533–534
- Smart Tags, Visual Studio Tools for Office, 531–532
- syntax, 534–535
- relationships, foreign key, editing, 512**
- remote computer, file, accessing, 324**
- remote location, assessing, 324**
- Remote Site location type, 553**
- remove server, connecting, 553**
- rename, Refactor!, 282**
- Replace in Files (Ctrl+Shift+H), 486–487**
- Replace **method, 533, 536, 538**
- replacements, code snippets, 257, 258–261**
- reports**
 - performance, Team System analysis, 812–814
 - Server Explorer counters, 501–504
 - Upgrade Output, checking, 645–646
- repositories**
 - benefits of using, 97
 - source control
 - creating, 100–101
 - environment settings, 99
 - plug-in settings, 99
 - selecting, 98
 - solution, adding, 101
- request information, HTTP, 325**
- resource descriptor file, XML, 826–827**
- resource editor, opening, 129**
- resource file, XML**
 - access shortcuts
 - bitmap images and icons, 133
 - ComponentResourceManager, 133–134
 - My namespace, 133
 - accessing with resource manager, 130
 - adding and modifying, 129
 - advantages of using, 125–127
 - coding
 - described, 134–135
 - ResourceReader and ResourceWriter, 135
 - ResxResourceReader and ResxResourceWriter, 135
 - customizing
 - designer files, 140
 - serializing, 136
 - TypeConverter class, 137–139
 - files, embedding as, 130
 - naming, 130
 - resx file, 128–129
 - satellite
 - advantages of, 130
 - compiling, 132–133
 - creating, 131–132
 - groups of cultures, 131
 - loading, 132
 - security concerns, 136
 - resource manager, XML resource file, 130**
 - Resource View window**
 - functions and shortcut (Ctrl+Shift+E), 51
 - workspace controls, 466
 - ResourceReader and ResourceWriter, XML
 - resource file, 135**
 - response information, HTTP, 325**
 - response time, user interface, 695**
 - ResultSet data source, 623**
 - resx file, XML resource file, 128–129**
 - ResxResourceReader and ResxResourceWriter,
 - XML resource file, 135**
 - RetrieveContacts **web method, 394**
 - RichTextBox **control, 37**
 - Roeder, Lutz (Reflector decompiler creator), 221**
 - roles**
 - access privileges, 197
 - web site authentication, 572
 - RSS feeds, consuming, 451–452**
 - rude edits, edit and continue, 712**
 - runtime layout, 8**

S

 - satellite (translating into foreign cultures), XML resource file**
 - advantages of, 130
 - groups of cultures, 131
 - loading, 132
 - Save My.Settings on Shutdown, 86**
 - SaveEvent **argument, 771**
 - saving**
 - changes (Ctrl+Shift+S), 19
 - changes while building, 650
 - CreateAButton.snippet, 254
 - data binding changes, 407–409
 - debugging changes to your object, 723
 - Visual Studio solution changes, 22
 - schema**
 - class diagram, 190
 - editing Data Source, 518–520
 - XML, converting into strongly typed DataSet, 384

Screensaver starter kit, 451–452

Script Explorer

debugging, 692–693

Visual Studio 2005 window, 470

scripts, Visual Database Tools, 526–527

SDF (Smart Devices Framework), 623–624, 632

searches

criteria, query, Predicate delegate, 297–298

document, 479

Help

described, 148–149

sorting results, 149–150

menu command, 144

SecureString class, 216–217

security. See also code generation; cryptography;

obfuscation

application

code-based, 196–197

described, 195

role-based, 197–199

ClickOnce deployment model, 93, 681–682

decompiler, risk of using, 221

permissions, 165

strong-named assemblies, 367

web site administration, 572–573

XML resource file concerns, 136

self-updating Windows applications, building. See

ClickOnce

sender

authentication, guaranteeing, 203

message, cryptography, 212–214

SendKeys method, 324

serial ports, exposing, 324

serialization assemblies, generating, 656

serializing, XML resource file, 136

Server Explorer

functions and shortcut (Ctrl+Alt+S), 50

Message Queues node, 499–501

nodes, 491

Performance Counters, 501–504

Servers node

described, 492

Event Logs, 492–494

management classes, 494–496

management events, 496–499

Services node, 504–505

Visual Database Tools, database windows, 508–510

Visual Studio 2005 window, 460

server, source support, enabling, 737

Servers node, Server Explorer

described, 492

Event Logs, 492–494

management classes, 494–496

management events, 496–499

Settings string, 327

Setup Wizard, installer, building, 665–666

SHA1Managed algorithm, 207–209

SharePoint Portal, 805–806

Shelving, Team Foundation Server,

source control, 108

Shortcut, snippet

creating, 249

editing, 259–260

Show All Files button, 9

Show method, 722

ShowIcon property, form caption bar, 61

Shutdown events, 87

signature, verifying, 209–210

signing, assembly

Global Assembly Cache, 368

strong-named assemblies, 367

in VS 2005, 368–369

Signing tab, projects, 92

single character wildcard (?), 482

single digit wildcard (#), 482

SIP (Soft Input Panel), 600–602

site administration, web applications, interface, 571

sitemap, providing navigation with

Menu control, 584–585

SiteMapResolve event, 582–584

web applications, described, 579

web.sitemap, 579–581

SiteMapPath control, 581–582

SiteMapResolve event, 582–584

Sizable form border, 62

SizableToolWindow form border, 62

size

font

changing, 541–542

macro adjusting, 353–354

form

changing, 59

controls, 65–66

Smart Compile Auto Correction, 371–374

Smart Device CAB Project, 628

Smart Devices Framework (SDF), 623–624, 632

smart documents, 777**smart project, device applications, creating, 593–594****smart tag**

- DataGridView tasks, illustrated, 71
- Error Correction Options, 372
- errors, displaying with IntelliSense, 234–235
- task pane, 522
- VSTO
 - described, 785–787
 - regular expressions, 531–532

Smartphone, 595, 623**SmtplibClient class, 115–116****SnipLines layout mode, 63, 65****Snippet Editor**

- replacements, 258–261
- usefulness, 249

snippets, code

- aliases, 250, 257, 258–259
- body area, 249, 252
- in C# and J#, 248
- class declaration, 245
- creating manually, 249–254
- creating with VB Snippet Editor
 - replacements explained, 258–261
 - reviewing existing, 256–258
 - starting, 256
- described, 243
- generation, 185
- handheld device buttons, 597
- header, 249, 252
- Imports statement, 250, 257
- inserting, 239, 248
- library (Code Snippets Manager), 254–256
- managing with CodeKeep utility, 443–444
- My namespace, 316
- Notification bubble, 603
- Office programming, 783
- original, 243–244
- surround Refactor! with, 283–284
- testing, 254, 257–258
- Toolbox, adding, 244
- in Visual Basic, 245–248

.snk (strong-name key) file, 368**Soft Input Panel (SIP), 600–602****software. See also device applications**

- configurations, care when referencing, 112
- DataSets, strongly typed, 390–391
- handheld device keys, handling, 599
- mail, sending from (SmtplibClient class), 115–116

security

- code-based, 196–197
- described, 195
- role-based, 197–199
- settings, binding to control properties, described, 423–424

VSTO

- Actions Pane, 784–785
- described, 777–778
- new version, 778–780
- Outlook Add-Ins, 787
- sample project, 788–800
- Smart Tags, 785–787
- Visual Designer, 780–783
- web service
 - browsing data, 392–394
 - data source, 391–392
- Windows Mobile Notification Broker, 626–627

software architects

- application diagram, 807–808
- deployment diagram, 810–811
- logical datacenter diagram, 808–810
- system diagram, 810

software developers

- build automation, 814–818
- code analysis, 812
- described, 811
- performance analysis, 812–814

software testers

- Code Coverage Results window, 824–825
- load testing, 819–822
- manual testing, 818–819
- Test Manager window, 823
- Test Results window, 823–824
- Test Runs window, 825
- Test View window, 822
- unit testing, 818
- web testing, 818

Solution Explorer

- adding new item to project, 43–44
- contents, customizing, 39–40
- CoolCommands for VS2005, 439–440
- deployment project
 - adding, 666
 - customizing, 669–670
- device applications, 595–596
- functions and shortcut (Ctrl+Alt+L), 50
- hidden items, showing, 40–41
- MSBuild, 660

Solution Explorer (continued)

- programmer view, changing, 5
- properties, setting, 46–47
- resource editor, opening, 129
- source control status, adjusting, 101
- temporary solutions, 41–42
- toolbar, 9
- Visual Studio 2005 window, 458–459
- Web references, adding, 46
- web solutions, 42–43
- Windows references, adding, 45

Solution member, 351

solutions

- file format, 81
- projects, relationship to, 79–80
- properties
 - common, 82
 - configurations, 82–83
 - described, 81–82

sound, 91

source

- address-level debugging, 736
- files, matching original versions, 26
- server support, enabling, 737
- sorting by, 150

source control

- accessing, described, 99
- files, checking in and out, 102
- merging changes, 103–104
- pending changes, 102–103
- pinning file version, 104–105
- repositories
 - benefits of using, 97
 - creating, 100–101
 - environment settings, 99
 - plug-in settings, 99
 - selecting, 98
 - solution, adding, 101
- repository, history, 1034
- status, adjusting in Solution Explorer, 101
- with Team Foundation Server
 - Pending Changes, 106–108
 - Shelving, 108
 - Source Control Explorer, 105–106

Source Control Explorer

- source control, 105–106
- Visual Studio 2005 window, 467
- workspace control, 806–807

SourceSafe

- adding solution, 101
- database, creating, 100

specific culture, 131

splash screen, form, selecting, 87–88

Split method, 536

splitting Tool Windows workspace, 57–58

SQL Mobile database

- connection, 613–615
- controls, adding to design surface
 - Customer information form, 615–617
 - described, 615
 - drop-down list, disabling, 622–623
 - employee information, 619–622
 - event handler, 617–618
 - summary and edit forms, 618–619
- ResultSet, 623

SQL Server

- child nodes, displaying, 508–509
- mobile devices, binding data to, 613
- unattached, 362

square brackets ([]), 483, 534

stale code, 27

Standard toolbar, 6–7

start action buttons, debug tab, 89

Start Options page, Web site, 569

Start page

- Tools menu, disabling, 457–458
- Visual Studio 2005 window, 457–458

starter kits

- Card Game, 450–451
- creating your own, 454
- described, 449
- Movie Collection, 452–453
- Personal Web Site, 453–454
- Screensaver, 451–452

starter template, 342–344

Startup events, 87

startup, framework, accessing, 114

startup load, disabling, 548

startup options, debug tab, 89

statement completion, IntelliSense, 240

static classes, C#, 305–306

static methods, code generation, invoking, 191–192

static methods, reasons to avoid, 294–295

status

- HTTP, 732
- source control, adjusting in Solution Explorer, 101

- subscription, 743–744
 - work item team tracking, 804–805
 - Status namespace, 626
 - StatusBar member, 352
 - stepping in code (F11), 711
 - stepping out code (Shift + F11), 711
 - stepping over code (F10), execution point, 711
 - stored procedures, database windows, Visual Database Tools, 513–514
 - StringAssert class in the UnitTesting namespace, 751
 - strings
 - representing with TypeConverter, 137–139
 - visualizing, 720–722
 - strings, connection
 - database tables, retrieving multiple, 363–364
 - encrypting, 364–366
 - in-code construction, 363–364
 - SQL Server format, 362–363
 - Windows utility (Data Link Properties dialog), 386
 - wizard, 357–361
 - strongly named assemblies, obfuscation, 225–227
 - strongly typed datasets
 - application, exposing via web service
 - browsing data, 392–394
 - described, 390–391
 - Web Service Data Source, 391–392
 - creating from existing database, 384–387
 - creating manually, 384
 - DataSet Designer, 387–390
 - described, 186–187
 - objects, described, 383–384
 - strongly typed methods, 361
 - strong-name key (.snk) file, 368
 - strong-named assemblies, security, 367
 - structure, Toolbox entity, 182
 - stub completion, C#, 236–237
 - Style Builder, web components, 560
 - subscription
 - data, adding, 754–755
 - status, returning, 743–744
 - substrings, replacing (Replace method), 538
 - Summary Line, 265
 - summary, SQL Mobile database, 618–619
 - symbols
 - searching for, 489
 - warn if none at launch, 738
 - symmetric (secret) keys, 202–203, 206–207
 - system diagram, Team System, 810
 - system framework, code snippets, 257
 - System namespace, referencing, 659
 - system sounds, playing, 322
- ## T
- tab character (\t), 535
 - tab, Literal tag, 257
 - tab row, file, opening with, 12
 - table of contents or search page within system, Help, 144–145
 - TableLayoutPanel, container controls, 75
 - tables
 - database, retrieving multiple with connection string, 363–364
 - Visual Database Tools, 510–511
 - tags, Smart Tags, 785–787
 - tags, XML comment
 - availability, 156–157
 - <c>, 157
 - <code>, 157–158
 - <example>, 158–159
 - <exception>, 159–160
 - <include>, 160–161
 - <list>, 162–163
 - <para>, 163
 - <param>, 163–164
 - <paramref>, 164
 - <permission>, 165
 - <remarks>, 165
 - <returns>, 165–166
 - <see>, 166
 - <seealso>, 166–167
 - <summary>, 168
 - <typeparam>, 168
 - <value>, 168
 - Tahoma font, 19
 - Targets, MSBuild schema, 663–664
 - Task List
 - as customized version of Bookmarks, 271
 - environment options, 20–21
 - Upgrade Output, 643–644
 - Visual Studio 2005 window, 461–462
 - window, 51–52
 - task pane, smart tag, 522
 - tasks, MSBuild schema, 664
 - TCP Connect Transport option, 610
 - Team Build, 474–475, 814

Team Explorer, Visual Studio 2005 window, 469

Team Foundation Server

- Pending Changes
 - Check-in Notes, 107
 - Policy Warnings, 107–108
 - source files, 106
 - Work Items, 107
- Policy Warnings, Pending Changes, 107–108
- source control
 - Shelving, 108
 - Source Control Explorer, 105–106

Team System

- Code Analysis custom views, writing, 825–828
- for everyone
 - Office integration, 806–807
 - Project Guidance, 803–804
 - SharePoint Portal, 805–806
 - Source Control Explorer, 806–807
 - Team Explorer, 801–803
 - Work Item Tracking, 804–805
- process templates, customizing, 828–830
- for software architects
 - application diagram, 807–808
 - deployment diagram, 810–811
 - logical datacenter diagram, 808–810
 - system diagram, 810
- for software developers
 - build automation, 814–818
 - code analysis, 812
 - described, 811
 - performance analysis, 812–814
- for software testers
 - Code Coverage Results window, 824–825
 - load testing, 819–822
 - manual testing, 818–819
 - Test Manager window, 823
 - Test Results window, 823–824
 - Test Runs window, 825
 - Test View window, 822
 - unit testing, 818
 - web testing, 818

Telephony namespace, 626

templates

- folder, 334, 335–336
- item, creating, 331–332
- project and item, 186
- structure, 335–337
- Team Foundation process, described, 802–803
- Team System process, customizing, 828–830

temporary macros, recording, 348

temporary solution files, deleting, 41

test data, Visual Database Tools, managing, 524–526

Test Manager window, 474, 823

Test Results window, 473–474, 823–824

Test Runs window, 475, 825

Test View window, 474, 822

test-and-cast technique, 311–312

TestClass attribute, 749

TestContext object, unit testing

- data, 754–755
- described, 753
- writing test output, 755–756

TestDriven.NET extension, 446–447

testers, software

- Code Coverage Results window, 824–825
- load testing, 819–822
- manual testing, 818–819
- Test Manager window, 823
- Test Results window, 823–824
- Test Runs window, 825
- Test View window, 822
- unit testing, 818
- web testing, 818

testing

- code snippets, 254, 257–258
- extensions, third-party
 - Regex Visualizer, 446
 - TestDriven.NET, 446–447
 - Windows Mobile 5.0, 606–607

TestInitialize and TestCleanup attributes, 753

TestMethod attribute, 749

text

- form, vertically aligning, 66–67
- handheld device input, 600–602
- matching Regex object, 530

text editor

- All Languages section, 24
- C#, 23
- described, 23
- macro, 353
- settings, 18

TextBox control, 36

third-party extensions

- code aids
 - CodeKeep utility, 443–444
 - Imports Sorter, 443
- development environment enhancements,
 - CoolCommands for VS2005, 439–440
- development environment enhancements, MZ-Tools, 440–442

documentation, GhostDoc for, 445–446

MZ-Tools, 440–442

testing and debugging

 Regex Visualizer, 446

 TestDriven.NET, 446–447

threads, 472, 695

tiers, Find and Replace, 479–480

tilde character (~), 535

Timeout **attribute, 750**

Timer **control, 639**

title

code snippet

 creating, 249

 editing, 259

region, 265

site map, 580

sorting by, 150

Web interface, displaying or hiding, 589

tooggling, bookmarks, 269

Tool Windows

creating (CreateToolWindow2 method), 436

displaying, 49–50

exporting settings, 55–57

list of available, 50–52

moving, 52–55

splitting workspace, 57–58

toolbar

adding to interface, 7

Solution Explorer, 9

Toolbox

Class Designer

 connectors, 182

 entities, 181–182

code snippets, adding, 244

components

 adding, 33–34

 arranging, 31–33

database data controls

 default control type, changing, 524

 smart tag task pane, 522

 views, 522–524

described, 11

device applications

 described, 598

 hardware button, 599

 Notification bubble, 602–605

 standard controls, 598

elements, commonly used, 35–37

entity, classes, 181

functions and shortcut (Ctrl+Alt+X), 50

groups, 29–31

LoginView object, 566

Visual Studio 2005 window, 459

web navigation controls, 562

Tools menu

AddNamedCommand2 method, 435–436

Start page, disabling, 457–458

tools, third-party

code aids

 CodeKeep utility, 443–444

 Imports Sorter, 443

development environment enhancements,

 CoolCommands for VS2005, 439–440

development environment enhancements, MZ-Tools,
440–442

documentation, GhostDoc for, 445–446

MZ-Tools, 440–442

testing and debugging

 Regex Visualizer, 446

 TestDriven.NET, 446–447

tooltips

described, 719

displaying shortcut (Ctrl+I), 238, 239

object, displaying while debugging, 716–717

visualizers versus, 720–721

ToolWindows **member, 352**

topic date, sorting by, 150

ToString() **function calls, 737**

TRACE, constant, defining, 656

**trace statements, errors that can't be replicated,
116–117**

Trace Viewer, 732

tracepoints

creating, 709–710

icon, 268

macros, 710

output messages, 710

tracing, web application

application-level, 731

custom-built messages, 732–733

page-level, 729–730

Trace Viewer, 732

tracing output, 731–732

TreeView **component, 562–563**

TreeView **control, 37**

triple forward slash (///), 156

True, IsNot **operator, 310–311**

type conversions, 293–294

type proxies, 718–720

TypeConverter, **representing strings with, 137–139**

typefaces

- editor, 70
- environment options, 17–19
- size
 - changing, 541–542
 - macro adjusting, 353–354

types, extern alias, 308–309

U

Undockable Tool Windows, 548

UnhandledException event, 87

unit testing

- asserting facts
 - Assertclass, 751
 - CollectionAssert class, 752
 - described, 750–751
 - ExpectedException attribute, 752–753
 - StringAssert class, 751
- attributes
 - description, 749
 - Owner, 749
 - Priority, 750
 - TestClass, 749
 - TestMethod, 749
 - Timeout, 750
 - WorkItem, 750
- custom properties, 756–757
- described, 743–748
- initializing and cleaning up
 - AssemblyInitialize and AssemblyCleanup attributes, 753
 - ClassInitialize and ClassCleanup attributes, 753
 - TestInitialize and TestCleanup attributes, 753
- private members, 758–759
- Team System, 818
- TestContext object
 - data, 754–755
 - described, 753
 - writing test output, 755–756

Universal Data Link files, editing, 386

unmanaged code and SQL Server, extending to include, 90

Unused local variable condition, 378

Unused References button, 91

Upgrade Output

- Task List, 643–644
- unflagged issues, 646–647

Upgrade Project Wizard, upgrading to Visual Studio 2005, 640–642

Upgrade Wizard, 639

upgrading to Visual Studio 2005

- incompatible elements, 638–639
- .NET, 637–638
- original code, changing, 639–640
- Upgrade Output, checking
 - errors and warnings, 644–645
 - report, 645–646
 - Task List, 643–644
 - unflagged issues, 646–647
- Upgrade Project Wizard, 640–642
- Upgrade Visual Basic 6 tool, 647

UploadFile, 324

URL

- details, generating additional from sitemap, 582–584
- site map, 580

U.S. date format, matching, 536–537

user

- ID, SQL Server, 362, 363
- notification and feedback, handheld devices, 602–605
- web site authentication, 572

User Accounts Event Query node, 498

user authentication

- Data Source, 563
- errors, 563–564

user controls

- forms, adding
 - described, 64–65
 - locking design, 69
 - multiple, automatic formatting of, 67–69
 - positioning and sizing guidelines, 65–66
 - properties, 69–71
 - vertically aligning text, 66–67
- SQL Mobile database
 - Customer information form, 615–617
 - described, 615
 - drop-down list, disabling, 622–623
 - employee information, 619–622
 - event handler, 617–618
 - summary and edit forms, 618–619

user input forms

- caption bar properties, 61–62
- container controls
 - FlowLayoutPanel, 74
 - Panel and SplitContainer, 73–74
 - TableLayoutPanel, 75

- controls, adding
 - container, 72–73
 - described, 64–65
 - locking design, 69
 - multiple, automatic formatting of, 67–69
 - positioning and sizing guidelines, 65–66
 - properties, 69–71
 - vertically aligning text, 66–67
 - default created by application, 60–61
 - design preferences, 63–64
 - fixed-size window or special border, 62
 - InfoPath 2003 toolkit
 - adding code to, 768–773
 - field events, 773–774
 - ListView control, 72–73
 - properties, changing, 59–62
 - properties, viewing, 9–10
 - service-based components, 71
 - size, changing, 59
 - sizing, 59–60
 - smart tag tasks, 71–72
 - splash screen, selecting, 87–88
 - user interface**
 - context, changing, 6
 - data source selections, 400–401
 - deployment project, 677
 - IDE, 6
 - implicit implementation, generating, 239
 - installation, 672–673
 - response time, maintaining with threads, 695
 - toolbars, adding, 7
 - Toolbox entity, 182
 - Visual Database Tools
 - Data Binding controls, 520–522
 - editing Data Source schema, 518–520
 - web site administration, 571
 - using **statement, namespace alias, 307**
- V**
- validation**
 - data binding, 410–417
 - events fired after, 773
 - variable, use prior to assignment, 377**
 - VB Snippet Editor**
 - reviewing existing snippets, 256–258
 - starting, 256
 - VB.NET**
 - application framework, 86–88
 - assembly, importance of, 367
 - code-based security, 195
 - connection string, accessing, 361
 - Continue statement, 310
 - DataSets, strongly typed, 383
 - described, 309
 - events, custom, 300–301
 - framework, caution about obfuscating, 225
 - generics
 - constraints, 288–289
 - consumption, 286
 - creation, 287–288
 - Nullable type, 291
 - Global keyword, 311
 - IsNot operator, 310–311
 - My Namespace, 188–189
 - native code, debugging with Edit and Continue option, 26
 - operator, overloading, 293
 - programming, regular expressions
 - Match object, 537
 - MatchCollection, 537–538
 - Regex class, 536–537
 - replacing substrings (Replace method), 538
 - property accessibility, 300
 - Refactor! support, 274–275
 - refactoring, 185
 - static methods, 295
 - TryCast keyword, 311–312
 - type conversions, 294
 - upgrading to Visual Studio 2005, 637–638
 - Version Control folder, 829–830**
 - version history, multiple developers, 104**
 - vertical guidelines, Registry hacks, 544–545**
 - Vertical Tab Group, 548**
 - View Class Diagram menu item, 179**
 - view, Solution Explorer, changing, 5**
 - views**
 - Code Analysis, writing, 825–828
 - queries, 512–513
 - Toolbox database data controls, 522–524
 - virtual directories, application configurations, care when referencing, 112**
 - Visual Basic**
 - code block, converting, 647
 - code snippets, 245–248
 - customized warnings in
 - described, 374–376
 - Duplicate or overlapping catch blocks condition, 379
 - function/operator without return value, 377–378
 - implicit conversion issues, 376

Visual Basic (continued)

Visual Basic (continued)

- implicit type; object assumed, 377
- instance variable accesses shared member, 378–379
- late binding; call could fail at run time, 376–377
- Recursive operator or property access condition, 379
- Unused local variable condition, 378
- use of variable prior to assignment, 377
- help menu and shortcuts, 144–145
- member list, viewing, 235–236
- XML comments, adding, 156

Visual Basic 6 warning messages, 639

Visual Basic Compile page

- Advanced Compiler Settings
 - compilation constants, 656
 - dialog box, 654–655
 - Optimizations, 655
- Build Events, 656–657
- build process, described, 654

Visual Basic .NET Code Security Handbook (Lippert), 199

Visual Database Tools

- Data Controls
 - binding, 522–524
 - default control type, changing, 524
 - described, 522
- database windows
 - Data Sources window, 515–518
 - database diagrams, 514–515
 - described, 507–508
 - relationships, editing, 512
 - Server Explorer, 508–510
 - stored procedures and functions, 513–514
 - tables, editing, 510–511
 - views, 512–513
- interfaces
 - Data Binding controls, 520–522
 - editing Data Source schema, 518–520
- projects
 - code language-based, managing, 527
 - script-based, 526–527
- test data, managing, 524–526

Visual Designer

- control design, 781–782
- described, 780–781
- writing code, 782–783

Visual Studio

- InfoPath 2003 toolkit, switching between, 767–768
- solution changes, saving, 22
- start page, MSDN, 457

Visual Studio 2005 windows, workspace control

- Autos, Locals and Watch, 473
 - Bookmarks, 475
 - Breakpoints, 469
 - Call Browser, 463–464
 - Call Stack, 472
 - Class View, 462
 - Code Coverage, 473
 - Code Definition, 462–463
 - Code/Designer, 458
 - Command Window, 464
 - Data Sources, 475–476
 - Disassembly, 471
 - Document Outline, 464
 - Error List, 460–461
 - Find Results, 463
 - History, 466–467
 - Immediate, 470
 - Macro Explorer, 468
 - Memory, 471
 - Modules, 472
 - Object Browser, 461
 - Object Test Bench, 465
 - Output, 463
 - Pending Changes, 467–468
 - Performance Explorer, 465
 - Processes, 471
 - Properties, 459
 - Property Manager, 465–466
 - Registers, 470
 - Resource View, 466
 - Script Explorer, 470
 - Server Explorer, 460
 - Solution Explorer, 458–459
 - Source Control Explorer, 467
 - Start page, 457–458
 - Task List, 461–462
 - Team Builds, 474–475
 - Team Explorer, 469
 - Test Manager, 474
 - Test Results, 473–474
 - Test Runs, 475
 - Test View, 474
 - Threads, 472
 - Toolbox, 459
 - web browser, 468–469
- #### visualizers, tooltips versus, 720–721
- #### VSTO (Visual Studio Tools for Office)
- Actions Pane, 784–785
 - described, 777–778

- new version, 778–780
- Outlook Add-Ins, 787
- sample project, 788–800
- Smart Tags, 785–787
- Visual Designer
 - control design, 781–782
 - described, 780–781
 - writing code, 782–783

W

warning level, C#, setting, 380–381

warning messages generated by Visual Basic 6, errors, 639

warnings

- disabling and restoring (Pragma statement), 309
- Upgrade Output, 644–645

Watch Windows

- Autos and Locals, 694
- four, 694
- QuickWatch, 693

wavy underlines. See IntelliSense

web applications

- controls
 - data controls, 567
 - described, 560–561
 - formatting, 558–559
 - general property settings, 559–560
 - Navigation components, 562–563
 - user authentication components, 563–567
 - Wizard component, 561
- debugging
 - break on errors, automatic, 727
 - described, 725–727
 - error handling, 728–729
 - tracing, 729–733
 - while executing, 727–728
- developer tools
 - described, 577–579
 - HTML Designer, 557–558
 - HTML text editors, 556–557
- error handling
 - application-level errors, 729
 - page-level errors, 728–729
- finalizing and deploying, 569–571
- Master/Detail content pages, 568–569
- project types, 84
- projects, creating
 - described, 551–554
 - dynamic compilation, 554

- Personal Web Site Starter Kit, 555–556
- web services, 555

site administration

- configuration settings, 574
- interface, 571
- key-value pairs (settings specific to applications), 574
- security, 572–573

sitemap, providing navigation with
described, 579

- Menu control, 584–585

- SiteMapPath control, 581–582

- SiteMapResolve event, 582–584

- web.sitemap, 579–581

tracing, custom-built messages, 732–733

Web Parts controls and pages

- CatalogZone control, 590–592

- described, 585–586

- EditorZone control, 588–590

- WebPartManager, 586–588

Website menu, 558

web browser, Visual Studio 2005 window, 468–469

Web interface, displaying or hiding, 589

Web Parts controls and pages

- CatalogZone control

- DeclarativeCatalogPart, 591–592

- described, 590–591

- PageCatalogPart, 592

described, 585–586

- EditorZone control

- AppearanceEditorPart, 589

- BehaviorEditorPart, 589–590

- described, 588–589

- LayoutEditorPart, 590

- PropertyGridEditorPart, 590

WebPartManager, 586–588

web services

- DataSets, strongly typed, 390–391

- projects, creating, 555

web site

- administration

- configuration settings, 574

- key-value pairs (settings specific to applications), 574

- authentication mode, 572

web solutions, Solution Explorer, 42–43

web testing, Team System, 818

web.config file

- configuration file, encrypting, 364

- debugging, 726–727

WebPartManager, **586–588**

Website menu, 558

web.sitemap, **579–581**

widening type conversion, 293

**wildcards, Quick Find and Replace dialog options,
Find and Replace, 482–483**

window, fixed-size on form, 62

Windows Explorer, temporary solution files, deleting, 41

windows, IDE, 13

Windows member, **352**

Windows (Microsoft)

Application, project type, 84

built-in roles, 199

references, adding in Solution Explorer, 45

Registry, accessing, 324–325

utility (Data Link Properties dialog), connection
strings, 386

Windows Mobile 5.0 (Microsoft)

compatibility, 595

configuration, testing, XML, 624–625

device applications, managed APIs, 624–626

download, Pocket PC, 623

emulator, 605

managed APIs

configuration, 624–625

Forms namespace, 625

PocketOutlook namespace, 625–626

Status namespace, 626

Telephony namespace, 626

SDK download, 623–624

testing, 606–607

Windows Mobile Notification Broker, 626–627

Windows Registry (Microsoft)

accessing, 324–325

keys, adding while installing files, 670

keyword color-coding, 547–548

right-click new solution, 545–546

vertical guidelines, 544–545

Windows Service (Microsoft), 676–677

wizard

add-ins, creating with, 427–432

component, navigation buttons, 561

connection strings, 357–361

word, boundaries, finding, 533

Word (Microsoft)

test generating, 818

Visual Designer, 780–783

VSTO project, creating, 779

words

completing (Ctrl+Space), 239

IntelliSense completing, 235–236

wrapping, IDE shortcuts, 544

work item team tracking, 804–805

**Work Items, Team Foundation Server, Pending
Changes, 107**

WorkItem attribute, **750**

workspace control, Visual Studio 2005 windows

Autos, Locals and Watch, 473

Bookmarks, 475

Breakpoints, 469

Call Browser, 463–464

Call Stack, 472

Class View, 462

Code Coverage, 473

Code Definition, 462–463

Code/Designer, 458

Command Window, 464

Data Sources, 475–476

Disassembly, 471

Document Outline, 464

Error List, 460–461

Find Results, 463

History, 466–467

Immediate, 470

Macro Explorer, 468

Memory, 471

Modules, 472

Object Browser, 461

Object Test Bench, 465

Output, 463

Pending Changes, 467–468

Performance Explorer, 465

Processes, 471

Properties, 459

Property Manager, 465–466

Registers, 470

Resource View, 466

Script Explorer, 470

Server Explorer, 460

Solution Explorer, 458–459

Source Control Explorer, 467

Start page, 457–458

Task List, 461–462

Team Builds, 474–475

Team Explorer, 469

Test Manager, 474

Test Results, 473–474

Test Runs, 475

Test View, 474

Threads, 472

Toolbox, 459

web browser, 468–469

workspace navigation

- Full Screen mode, 476
- keys
 - Between Windows, 478
 - Forward/Backward, 476–477
 - Next/Previous Task, 477–478

WriteException **method**, 493

X**XCOPY deployment**, 684**XML. See also code snippets**

- class diagram schema, 190
- configuration settings, customized, 119–120
- Exception Assistant file, 699–700
- MSBuild project file, 661–662
- resource descriptor file, 826–827
- schema, converting into strongly typed DataSet, 384
- structured data, containing in configuration files, 116
- web.sitemap, 579–581
- Windows Mobile configuration, testing, 624–625

XML comments

- adding, 156
- described, 155
- file, generating, 168–169
- IntelliSense, 242
- IntelliSense engine, 169–170
- tags
 - availability, 156–157
 - <c>, 157
 - <code>, 157–158
 - <example>, 158–159
 - <exception>, 159–160
 - <include>, 160–161
 - <list>, 162–163
 - <para>, 163
 - <param>, 163–164
 - <paramref>, 164
 - <permission>, 165
 - <remarks>, 165
 - <returns>, 165–166
 - <see>, 166

- <seealso>, 166–167
- <summary>, 168
- <typeparam>, 168
- <value>, 168

XML resource file

- access shortcuts
 - bitmap images and icons, 133
 - ComponentResourceManager, 133–134
 - My namespace, 133
- accessing with resource manager, 130
- adding and modifying, 129
- advantages of using, 125–127
- coding
 - described, 134–135
 - ResourceReader and ResourceWriter, 135
 - ResxResourceReader and ResxResourceWriter, 135
- customizing
 - designer files, 140
 - serializing, 136
 - TypeConverter class, 137–139
- files, embedding as, 130
- naming, 130
- resx file, 128–129
- satellite
 - advantages of, 130
 - compiling, 132–133
 - creating, 131–132
 - groups of cultures, 131
 - loading, 132
 - security concerns, 136

XP visual styles, 86**Y****yellow code margin**, 267**Z****:z (number, matching)**, 535**zero or more characters, wildcard matching (*)**, 483