

Contents

About This Book	1
Introduction.....	1
How this book is organized.....	4
Notational conventions used in this book.....	6
Getting the most from this book.....	7
About the recommendations made in this book.....	8
About the Warning and Disclaimer.....	8
About your license to use this book.....	8
Acknowledgments.....	9
<hr/>	
Getting Started with Mac OS X	10
Moving to Mac OS X	11
Planning the move to Mac OS X.....	11
How you install Mac OS X is a key to stability.....	12
Adjusting to Mac OS X.....	13
Related Links.....	15
Installing Tiger	17
Avoiding known Tiger problems.....	17
Installation issues.....	17
Post-Installation issues.....	19
Selecting a Tiger installation option.....	20
The author's Tiger upgrade process.....	22
Adjusting to Tiger.....	23
Feature comparisons and reviews.....	23
Significant changes from Panther.....	23
Significant changes from Jaguar.....	23
Related links.....	23
Learning Mac OS X	25
Books.....	25
Online help.....	25
Training.....	25
Web sites.....	26
Apple User Groups.....	26
To get deeper into Mac OS X.....	26
Related links.....	27
Maintaining Mac OS X	28
Routine maintenance.....	28
Maintenance myths.....	29

Upgrades: Planning, Researching, Buying, and Installing	31
Planning upgrades.....	31
Can my Mac be upgraded?.....	31
Will the upgrade affect my warranty?.....	32
Who should install the upgrade?.....	32
Researching upgrades	32
Buying upgrades.....	34
Installing upgrades	34
Buying a new Mac	35
Buying new	35
Buying a refurbished Mac	35
Buying a pre-owned Mac	35
Things to consider when buying a new Mac	36
Before putting your new Mac into service... ..	36
Related links.....	37
Moving to a New Mac	38
Moving to a new Mac with the Setup Assistant	38
Moving to a new Mac by the traditional method	40
The traditional method, step-by-step	41
Connect and copy procedures	43
Folders to copy to the new Mac	46
Related links.....	47
Providing Feedback	48
<hr/>	
Prevention and Preparation	49
An Ounce of Prevention	50
Do... ..	50
Do not... ..	51
Additional advice for laptop users.....	52
Backup and Recovery	54
About backup and recovery.....	54
Why you need a backup and recovery solution	54
What should you backup and when should you do it?.....	54
The author's backup and recovery solution	54
Duplicates and Backup Sets	56
FileVault and backup and recovery.....	60
Implementing backup and recovery in Mac OS X	60
Implementing backup and recovery in Mac OS 9.....	69
Recovery	70
Disaster recovery	71
Recovery using Duplicates	71
Recovery using Backup Sets	72
Related links.....	72
Create a Test Account	74
Creating a Test account.....	74
Using a Test account in troubleshooting.....	74
Related links	76
Disk Utilities	77
About disk utilities.....	77

Recommended disk utilities.....	79
Which disk utilities should I buy?.....	81
Related links.....	81
Error Codes	83
Lists of system error codes.....	83
Mac OS error codes.....	83
UNIX error codes.....	83
Finding unlisted error codes.....	83
Related Links.....	84
First Aid Folder	85
What is a First Aid folder?.....	85
Creating a First Aid folder.....	85
Related links.....	87
Obtaining Help Online	88
Questions about using your Mac.....	88
Questions about third-party applications.....	88
Questions not answered in Mac Help.....	88
Other sources of help online.....	91
Tips for using the AppleCare Knowledge Base.....	91
Related Links.....	92
Organizing Information About Your Mac	93
Organize computer and peripheral information.....	93
Protect important CDs and DVDs.....	93
Keep a Mac Diary.....	94
Protecting Against Power Problems	96
Why protect against power problems?.....	96
Protecting against power outages.....	96
Disconnecting the power is a last resort.....	96
Purchase an Uninterruptible Power Supply.....	97
How a UPS keeps your computer running during a power outage.....	97
Buying a UPS.....	98
Automatic shutdown software.....	100
Using a UPS.....	101
Protecting against power surges.....	101
General surge protection.....	101
Network surge protection.....	102
Recovering from power problems.....	102
Related links.....	103
Security	104
About security.....	104
Apple security updates.....	105
Physical security.....	105
Temporarily locking your Mac.....	105
Automatically log out after a period of inactivity.....	105
Smart Cards.....	106
Passwords.....	106
Choosing a secure password.....	106
The Open Firmware Password.....	107
The Master Password.....	107

Changing and resetting passwords.....	107
Keychains	108
Network security	108
AirPort network security	109
Routers	109
Firewalls.....	109
Router vs. firewall	110
Virtual Private Networks.....	110
Data security.....	111
Access Control Lists	111
Encrypted disk images.....	111
FileVault	112
Protecting Classic System files.....	112
Secure data removal	112
Secure Virtual Memory.....	113
Parental Controls.....	113
Detecting and avoiding malware and spyware.....	114
Related links.....	115
<hr/>	
Troubleshooting Mac OS X: A-Z.....	117
General Mac OS X Troubleshooting	121
The last change you made is usually the cause.....	121
If you suspect a software problem... ..	122
If you suspect a hardware problem.....	122
Use your warranties and support agreements.....	123
Seek help online	123
Related links.....	123
Applications	124
Applications in Mac OS X.....	124
Mac OS X applications.....	124
Classic applications	126
Microsoft Windows applications.....	126
Installing applications	126
Where to install applications	126
How to install applications.....	127
Installation log files.....	128
Associating documents with applications	128
Launch Services	128
Changing the preferred application that opens a document	130
Opening a document in an application other than its preferred application	132
Application preferences files.....	133
Preferences file locations.....	133
Preferences file names	134
Editing application preferences files	134
Preventing problems with applications	135
Finding new applications	135
Uninstalling applications.....	136
Troubleshooting applications.....	137
General application troubleshooting	137
Force Quit	139
Deleting application preferences files	139
Deleting Launch Services cache and preferences files	140

Resolving common problems with applications.....	141
Applications launch slowly	141
Application launches in Classic or Mac OS X unexpectedly	141
Application preferences reset to default values	142
Applications quit unexpectedly or fail to launch	142
Applications quit unexpectedly when printing	143
Applications are unresponsive	143
Cannot install an application	144
Documents open in the wrong applications	145
Error -10660 attempting to open a document	146
Reinstalling an application bundled with Mac OS X.....	147
Reinstalling a factory-installed application	147
System is slow or unresponsive during application installation	148
Users must register a previously-registered application	148
Related links.....	149
Archive and Install	151
About Archive and Install	151
Caveats for Archive and Install	151
Why using Archive and Install to downgrade can be problematic.....	152
Avoiding problems that lead to using Archive and Install.....	153
Performing an Archive and Install.....	153
Related links.....	154
AVI and DivX Files	155
About AVI and DivX files.....	155
Playing AVI and DivX files on Mac OS X.....	155
Related links.....	157
Burning CDs and DVDs	158
About burning CDs and DVDs.....	158
Successfully burning optical media.....	158
Burning basics	160
Restricting who can burn optical media	161
Unsupported burners	161
Troubleshooting burning CDs and DVDs	162
Resolving common problems burning CDs and DVDs.....	162
You cannot burn a CD or DVD	162
Error code -34 when attempting to burn a disc	163
Error code -43 when attempting to burn a disk	163
Error code -50 while burning a disc in iTunes	164
Error codes 0x80020022 or -2147352542	164
Error codes 0x80020025 or -2147352539	165
Error codes 0x80020060 or -2147352480	166
Error codes 0x8002006D or -2147352467.....	166
Optical media do not mount or appear on the desktop	167
Problems with DVD-RAM discs	168
Unknown Error alert while burning.....	169
Related links.....	169
Cache Cleaning	171
Side effects of System cache cleaning.....	172
Related links.....	173
Classic	174

About Classic.....	174
The Classic Compatibility Environment	174
Starting Classic	175
Stopping Classic	176
Classic applications	176
Troubleshooting Classic	176
Resolving common Classic problems.....	177
Classic fails to launch	177
Classic cannot start because it is already running alert.....	180
Classic starts slowly.....	180
Classic applications are slow to launch	181
Classic applications perform slowly or quit unexpectedly	181
Classic application opens in Mac OS X instead of Mac OS 9.....	182
Cannot install a Classic application	183
Cannot print from a Classic application	183
Documents created in Classic applications open incorrectly	184
Related links.....	184
Console and Crash Logs	185
About Console	185
Troubleshooting with Console	187
Set up Console for troubleshooting.....	187
Checking Console for clues	187
Examining some common messages	188
About crash logs.....	194
Troubleshooting with crash logs	196
Viewing crash logs	196
Using and interpreting crash logs	196
Obtaining help with crash logs	198
Related links.....	199
Dashboard.....	200
About Dashboard.....	200
Opening and closing Dashboard.....	201
Widgets included with Tiger	201
Opening and closing widgets	202
Configuring a widget's preferences.....	203
Installing and removing widgets.....	203
Preferences files for Dashboard and widgets	204
Finding new widgets	204
Developing widgets.....	204
Troubleshooting Dashboard	205
Testing third-party widgets	205
Troubleshooting an individual widget.....	207
Reset Dashboard to defaults	208
Resolving common Dashboard problems.....	208
Ripple effect does not appear when adding widgets	208
Weather widget displays data for the wrong city.....	209
Widget consumes increasing amounts of memory	209
Widget displays no data.....	210
Related Links.....	210
Data Recovery.....	211
Data loss scenarios	211
You trashed important files but have not emptied the Trash	211

You trashed important files and emptied the Trash.....	211
You initialized your hard drive	212
Your hard drive has crashed or your Mac is severely damaged	212
Data recovery utilities	212
Data recovery services	213
Related links	213
Disk Images	214
About disk images	214
Troubleshooting disk images	216
Resolving common problems with disk images.....	216
Disk images fail to mount, error code -536870208	216
Error code -8058 duplicating a mounted disk image.....	217
Spotlight does not index disk images when mounted	218
Related links	218
The Dock	220
About the Dock	220
Troubleshooting the Dock.....	221
Resolving common Dock problems	221
I dropped 1,000 image files in the Dock! Now what?.....	221
Application launch problem? Replace its icon in the Dock	222
Related Links.....	222
Fast User Switching	223
About Fast User Switching	223
Enabling Fast User Switching	223
Restrictions of Fast User Switching	223
Performance and Fast User Switching	224
Resolving common Fast User Switching problems	225
Cube effect does not appear when switching users	225
FireWire drives unmount when switching users.....	225
Internet connection drops when switching users	225
User clamav appears in Fast User Switching menu extra	227
Related links	227
Fax	228
About Fax	228
Fax basics.....	228
Learning about Fax	228
Fax caveats.....	229
Is Fax ready for prime time?	229
Troubleshooting Fax.....	230
Resolving common Fax problems	230
Cannot access Address Book from the Fax window	230
Cannot set fax options when sending a fax	230
Changes to faxing preferences are not saved.	231
E-mail notification of received faxes does not work	231
Letters added to the beginning of fax numbers.....	232
Other computers cannot send faxes through your computer	232
Related links	233
FileVault	234
About FileVault	234
How FileVault works.....	234

FileVault cautions	235
FileVault restrictions and side effects	236
Should I enable FileVault?	236
Resolving common FileVault problems	237
Account appears to have been reset to a new account	237
Cannot enable or disable FileVault	238
Forgotten password for a FileVault-protected account	238
Related links	238
Finder	240
About Finder	240
Significant Finder changes in Panther	240
New Finder features in Tiger	241
Hidden and invisible files	242
Troubleshooting Finder	242
Delete Finder preferences	242
Resolving common Finder problems	246
Aliases to shared volumes, external drives vanish from Sidebar	246
Apple > Recent Items menu is not working	247
Apple menu items are duplicated	247
Broken alias to Library in Network folder	248
Ejecting a partition ejects the entire disk	248
Finder is slow when moving or copying many files	249
Finder quits unexpectedly or relaunches repeatedly after login	249
Finder quits unexpectedly or stops responding	250
Finder relaunches after Control-clicking an object	250
Finder relaunches when attempting to open a folder	251
Finder returns error code -10660 when opening a document	252
Finder > Services menu is blank or empty	253
Get Info comments from Mac OS 9 do not appear in Mac OS X	253
Network displays folder icon, eject button	253
Network view does not work	254
Restoring an object removed from the top half of the Sidebar	254
Significant delays changing Owner or Group in Get Info window	255
Spotlight Comments are not saved on remote volumes	255
Unable to copy, drag, move, or modify an object	256
Related links	256
Finding Corrupted Files	258
Anti-virus software	258
Backup and Recovery software	258
Related links	259
FireWire Problems	260
About FireWire	260
Resolving common FireWire problems	260
FireWire devices fail to mount	260
Unable to start up or boot from a FireWire drive	262
FireWire drive mounts in Mac OS X, but not in Mac OS 9	263
Problems copying large files to FireWire drives	263
Slow data transfer when videoconferencing	265
Related links	265
Floppy Drives	266
Are floppies dead?	266

Floppy drive support in Mac OS X.....	266
Formatting floppy disks with Disk Utility	267
Related links.....	267
Fonts	268
About fonts	268
Font management in Mac OS X.....	268
Font-management applications for Mac OS X	269
Previewing uninstalled fonts	270
Troubleshooting fonts	270
Corrupted fonts	270
Font cache corruption	271
Incompatible fonts.....	271
Missing or disabled fonts	272
Resolving common font problems	272
Mac OS 9 fonts are unavailable.....	272
Pasted text loses styles	273
Terminal window only displays the upper-left corner	273
Text appears garbled	274
Related links.....	274
Font Book	275
About Font Book.....	275
Key changes in Font Book 2.0	276
Before using Font Book	279
Avoiding common problems from misunderstanding Font Book.....	280
Troubleshooting Font Book	282
Quit and relaunch Font Book	282
Check permissions of your Fonts and FontCollections folders	282
Delete Font Book preferences	283
Reset Font Book	283
Resolving common Font Book problems.....	284
Cannot change fonts in the User collection	284
Personal font collections or libraries disappear	284
User collection always shown as off	285
Related links.....	286
Force Quit Applications, the Dock, or Finder	287
Force Quit applications.....	287
Force Quit an application using the Dock	287
Force Quit an application using the Force Quit window.....	287
Quit and relaunch the Dock	288
Relaunch Finder	288
Related Links.....	289
Freeing Space on Your Startup Disk	290
Determining available space on your startup disk.....	290
Simple ways to increase available space.....	290
What about moving my Home or Users folders?.....	293
Related Links.....	293
Freezes and Hangs	294
Troubleshooting freezes and hangs	294
An application is unresponsive, frozen, or hung	294
Your Mac is unresponsive, frozen, or hung.....	294

Killing processes remotely using SSH.....	295
Manually forcing a shut down or restart.....	300
Recovering from a manual shut down or restart.....	300
Determining the cause of a freeze or hang	301
Resolving persistent application freezes.....	301
Resolving persistent System freezes.....	301
Related links.....	302
Hard Drive Sleep	303
About hard drive sleep.....	303
To sleep or not to sleep?.....	303
Energy Saver preferences and hard drive sleep.....	304
Issues with hard drive sleep.....	305
Troubleshooting hard drive sleep	306
Related links.....	308
Hardware Testing	309
Apple Hardware Test	309
Using the Apple Hardware Test.....	309
Loop Mode	310
RAM testing	310
Micromat TechTool Deluxe	311
Micromat TechTool Pro	311
USB software debuggers.....	312
Related Links.....	312
Help Viewer	314
About Help Viewer.....	314
Troubleshooting Help Viewer.....	315
Reset Help Viewer	315
Architectural changes in Help Viewer	316
Resolving common Help Viewer problems.....	317
Help Viewer quits unexpectedly or displays a blank window	317
Help Viewer displays a blank window after reset.....	318
Help Viewer does not list help for a specific application	319
iCal displays help for the incorrect version of iCal	320
Modem connects to the Internet when launching Help Viewer	320
Related links.....	320
Isolating Troublesome Peripherals	322
Related links.....	323
Kernel Panics	324
About kernel panics.....	324
General causes of kernel panics.....	325
Known causes of kernel panics	326
Troubleshooting kernel panics.....	327
Troubleshooting roadmap	327
Troubleshooting table.....	330
Using and interpreting panic logs	331
About panic logs	331
Troubleshooting with panic logs	333
Example 1: Simple Backtrace Analysis.....	333
Example 2: Examining kernel extensions in System Profiler	335
Example 3: No kernel-loadable modules listed in the Backtrace	337

Example 4: No trap value or usable backtrace	338
Example 5: Uncorrectable machine check, dual processors	339
Example 6: Uncorrectable machine check, incompatible card	340
Obtaining help with panic logs	341
Related links	342
Keyboards and Keyboard Shortcuts	343
About keyboards and keyboard shortcuts	343
Lists of keyboard shortcuts	343
Customizing keyboard shortcuts	343
Defining your own keyboard shortcuts	344
Keyboard caveats	344
Using function keys on laptops	344
Where is Key Caps?	344
Troubleshooting keyboards	345
Resolving common keyboard problems	347
Eject or Volume keys do not work	347
Images of keys appear on the screen while typing	347
Keyboard Setup Assistant reappears unexpectedly	348
Long delay between pressing keys and characters appearing	348
No visual feedback from Brightness, Eject, or Volume keys	349
Numeric keypad does not work	349
One key fails to work	349
Sounds accompany typing	350
Startup keyboard shortcuts do not work	350
Volume keys do not provide audible feedback	351
Related links	351
Keychains	352
About keychains	352
Keychain Access	352
Your default keychain	353
Keychain passwords and locking	354
Deleting a keychain	355
Keychain-related quirks and bugs	356
Troubleshooting keychains	357
Resolving common keychain problems	357
Frequently prompted for keychain password	357
Keychain Access search returns unexpected results	359
Resetting Safari removes Web site accounts and passwords from keychain	359
System keychain appears twice in the Keychains list	360
“Unable to display the password for this item. -8738” alert	362
Related links	362
Login	364
About login	364
Troubleshooting login problems	364
If you are using automatic login	364
Check Startup and Login Items	364
Resolving common login problems	365
Automatic login does not work after password reset	365
Cannot log in to your account	365
User clamav appears in the Login Window	366
Related links	366

Mac OS 9	367
Installing Mac OS 9 for Classic.....	367
Uninstalling Mac OS 9	367
If Mac OS 9 and Mac OS X are on the same partition...	367
If Mac OS 9 and Mac OS X are on different partitions...	369
Reinstalling Mac OS 9	369
Related links	370
Mac OS X Maintenance Scripts	371
About the Mac OS X maintenance scripts.....	371
Manually running the maintenance scripts	372
The easy way	372
The Terminal way	372
Why must I still run the maintenance scripts?.....	373
Reviewing the logs from maintenance scripts	374
Verifying when the maintenance scripts ran last	375
Related links	375
Mac OS X Standalone Updates	376
About Mac OS X standalone updates	376
Obtaining Mac OS X standalone updates	376
Planning to install standalone updates	376
Related links	377
Mac-Windows Integration	378
About Mac-Windows Integration.....	378
New Mac-Windows integration features in Tiger.....	378
Basics of Mac-Windows integration	379
Bonjour for Windows	379
Caveats and limitations of Mac-Windows Integration	379
File sharing	381
Printer sharing.....	382
Using Windows applications under Mac OS X.....	382
Windows Media files	382
Troubleshooting Mac-Windows Integration	383
Resolving common Mac-Windows integration problems.....	383
Error -36 connecting to a Windows server	383
Finder does not reflect additions to a Windows shared folder	384
Unable to copy files to a Windows computer from a Mac	384
Unable to connect to a Windows computer from a Mac	385
Unable to connect to a Mac from Windows a computer	385
Unable to find a Windows computer in the Network browser	385
Related links	386
Make Yourself the Owner of an Object	387
Determining ownership and permissions.....	387
Making yourself the owner of an object.....	388
Related links	388
Mouse Problems	389
Troubleshooting your mouse	389
Resolving common mouse problems	392
Black rectangle appears and follows the mouse pointer.....	392
Related links	393

NetInfo UID	394
Networking	395
About networking	395
Significant changes in networking under Tiger	395
New networking features in Tiger	396
Do I need a network?	397
Building a network	397
Connecting to the Internet	398
Internet connection sharing	399
File sharing	399
Networking in different locations	400
Remote access to your Mac	401
Troubleshooting networks	402
General network troubleshooting	402
Troubleshooting AirPort networks	403
Troubleshooting Internet connections	403
Troubleshooting file sharing	404
Troubleshooting VPNs	404
Resolving common networking problems	405
AirPort authentication settings lost on LEAP networks	405
AirPort does not share Internet connection	405
AirPort: Roaming clients lose IP Address	405
Dial-up connection and file sharing both fail	406
Dial-up: Internal modem not working	406
Dial-up: Kernel panic when sharing Internet connection	406
Ethernet port fails on PowerBook G4 “Double-Layer SD” models	407
File sharing: “Already Connected...” alert sharing with Mac OS 9	407
File sharing: Cannot connect to .local hostnames	408
File sharing and connecting to the Internet simultaneously	408
Internet connection sharing stops suddenly	408
Internet connection terminated unexpectedly	409
IP Configuration alert	410
VPN: Unable to connect via PPTP	410
Related links	411
Performance	413
Optimizing Mac OS X performance	413
RAM, RAM, and more RAM	413
Turn off the eye candy	413
Unleash the processor	414
Repair Permissions after installing new software	414
Disable the automatic protection features of utilities	414
Disable or remove unnecessary fonts	414
Perform regular maintenance	415
Run a lean Classic environment	415
Troubleshooting performance problems	415
Resolving common performance problems	416
Process kernel_task using high CPU	416
Processes mds and mdimport are using high CPU	417
System is slow or unresponsive during application installation	417
SystemUIServer shows high CPU usage or is frozen or hung	417
Other common performance problems	418
Related links	419

Printing and Printer Sharing	420
About printing and printer sharing	420
New printing and printer sharing features in Tiger	420
Printing Basics	421
Compatible printers.....	421
Printer sharing	422
Enabling printer sharing.....	422
Disabling printer sharing.....	423
Information required by those sharing your printer.....	424
Sharing your printer with Mac OS X users	425
Sharing your printer with Mac OS 9 users.....	425
Sharing your printer with UNIX users	426
Sharing your printer with Windows users	426
Sharing a Windows printer with Tiger	428
Sharing a printer using an AirPort network.....	429
Troubleshooting printing and printer sharing	430
Troubleshooting printing.....	430
Troubleshooting printer sharing	431
Resolving common printing and printer sharing problems	432
Alert “server-error-service-unavailable” when adding a printer.....	432
Applications quit unexpectedly when printing	432
Cannot add a printer shared by a Windows computer.....	432
Cannot print envelopes from Address Book.....	433
Cannot print from a Classic application	433
Cannot print to a printer shared by a Windows computer.....	433
Delays opening the Print dialog	434
PostScript files do not print as expected.....	435
Preview prints only the first page of multipage TIFF documents	435
Print button, other buttons in Print dialog do not respond.....	436
Problems with Brother, Epson, HP, Lexmark, or Xerox printers.....	436
Windows shared printer name is garbled.....	437
Related links.....	438
Problems from Insufficient RAM and Free Disk Space	439
Memory management in Mac OS X	439
Problems from lack of RAM or startup disk space.....	440
Determining if your system is at risk.....	440
Determine the available space on your startup disk	441
Determine the amount of paging your system is performing	441
Permanently resolving the problems	442
Related links.....	442
Reinstall Mac OS X Using Erase and Install	443
Repair Disk Process	445
About Repair Disk.....	445
Use only Tiger-compatible disk utilities	445
Repairing your Mac OS X startup disk.....	445
Devices, partitions, and volumes in Disk Utility.....	445
General Repair Disk process.....	446
Repair your Mac OS X startup disk	447
Repair volumes other than your startup disk	448
Repair volumes using a bootable Duplicate	448
The emergency Repair Disk process	449
Related links.....	449

Repair Permissions Process	450
Repair Permissions from your startup disk	450
Repair Permissions from the Mac OS X install disc	451
Repair Permissions in Terminal	452
Resolving common problems with Repair Disk Permissions	452
Error: No valid packages (-9997)	452
Messages you can ignore	452
Related links	453
Resolving Disk, Permission, and Cache Corruption	454
Related links	455
Safe Mode	456
About Safe Mode	456
Safe Mode documentation	456
Performing a Safe Boot for Safe Mode	456
Side effects of Safe Mode	457
Safe Login	457
Side effects of Safe Login	458
Scanners	459
About scanners	459
Image Capture Architecture Device Module	459
Mac OS X-compatible TWAIN Data Source	460
Compatible scanners	460
Using unsupported scanners	460
Troubleshooting scanners	460
Related links	461
Sherlock	462
About Sherlock	462
Troubleshooting Sherlock	463
Resolving common Sherlock problems	464
Sherlock channels do not load properly	464
Sherlock fails to launch or quits unexpectedly	465
Related links	465
Shutdown	466
About shutdown	466
Selecting Shut Down	466
Obsolete methods of selecting Shut Down	466
Scheduling shutdown	466
Shutdown and Fast User Switching	467
Resolving common shutdown problems	467
Your Mac restarts after shutdown	467
Your Mac will not shut down	468
Related links	469
Sleep	470
About Sleep	470
New sleep features in Tiger	470
Sleep vs. Shut Down	471
Power management in Mac OS X	471
Troubleshooting sleep problems	472
Computer does not sleep or wakes immediately after sleep	472

Computer does not wake from sleep	474
Related links	475
Software Update	476
About Software Update	476
Should I update?	476
Obtaining large software updates	477
Preventing software update problems	478
Troubleshooting a software update	479
Problems from third-party system modifications or menu extras	480
Problems with third-party hardware	480
Recovering from a failed software update	481
Troubleshooting Software Update	482
Resolving common Software Update problems	482
Software Update quits when selected	482
Software Update quits unexpectedly when checking for, or installing, updates	483
Related links	483
Sound	485
About sound	485
Add alert sounds	485
Add audio input and output to your Mac	486
Add voices	486
Create a login sound	486
Record with Classic Applications	487
Troubleshooting sound	487
Resolving common sound problems	487
Connecting headphones does not mute the iSub	487
Distorted audio with PowerBook G4 (Double-Layer SD)	487
External speakers “pop” when waking from sleep	487
Griffin iMic does not work after upgrade to Tiger	488
iSub volume changes unexpectedly with system volume change	488
No sound from certain applications	488
No sound in Safe Mode	489
Related links	489
The Spinning Beach Ball of Death	490
Resolving common SBBOD problems	490
Frequent SBBODs in processor-intensive tasks	490
SBBOD appears for 30 to 35 seconds; your hard drives spin-up.	491
SBBOD appears when loading a Web page	491
The SBBOD appears when quitting a third-party application	492
SBBOD appears for reasons other than those above	493
Related Links	493
Spotlight	494
About Spotlight	494
How Spotlight works	494
Indexing: extracting metadata from files	495
Searching: querying metadata	499
Finding Spotlight plug-ins	501
Using Spotlight in Terminal	501
Stopping Spotlight indexing	502
Find: Spotlight’s power tool	505
Smart Folders	507

Raw Query	507
File system metadata	509
Spotlight and shared volumes	513
Where Spotlight excels and disappoints	515
Troubleshooting Spotlight	516
Verifying Spotlight indexing is enabled on a volume	517
Rebuilding the Spotlight metadata store	517
Resolving common Spotlight problems	520
Adding volumes to Privacy	520
Backup volumes are indexed while the backup is in progress	520
Console shows repeated “mdimportserver crashed” messages	522
Customizing the default criteria in Find	523
Delays while typing search criteria	523
Disk images are not indexed when mounted	524
Entourage performance issues and Spotlight	525
Files created in a specific application are not found	525
Finding hidden and invisible files	525
iCal events launched from search results do not open in iCal	526
Search terms are not highlighted in documents opened from search results	526
Spotlight indexes disks or volumes unexpectedly	527
Spotlight metadata store contains the file mds-crash-state	528
System Preferences search fails	528
SystemUIServer hangs or freezes during a Spotlight search	528
Unexpected or inaccurate search results	529
Volumes added to Privacy cannot be searched with Find	530
Related Links	531
Startup	535
About startup	535
The startup process	535
Avoiding common start up problems	535
Troubleshooting startup	536
Resolving common startup problems	536
Cannot start up after	536
Cannot start up in Mac OS 9	539
Computer starts up in Mac OS 9 instead of Mac OS X	539
Computer starts up to mac-boot message	540
Startup is slow	540
Startup Manager lists only one Mac OS on your startup disk	541
Startup tone does not sound	542
Startup tone sounds like breaking glass or musical beeps	542
Startup tone is too loud	543
Related links	544
Startup and Login Items	545
About Startup and Login Items	545
Startup Items	545
Login Items	545
Troubleshooting Startup and Login Items	546
Related links	547
System Preferences	549
About System Preferences	549
New System Preferences features in Tiger	549
Resolving common System Preferences problems	550

Desktop & Screen Saver preferences problems	550
Display preferences: “out of frequency range”	550
Duplicate or missing preferences panes	551
Energy Saver preferences do not open	551
Lingering preference panes from uninstalled applications	552
Sharing preferences problems	553
Selecting a white desktop background color	553
Spotlight search of System Preferences fails	554
System Preferences fails to launch or quits unexpectedly	554
Related links	556
System Profiler	557
About System Profiler	557
New System Profiler features in Tiger	557
Launching System Profiler	557
Saving a text report from System Profiler	558
Resolving common System Profiler problems	558
System Profiler fails to launch	558
System Profiler fails to list some information	558
System Profiler fails to show changes dynamically	559
Related links	559
Terminating a Process	560
About terminating processes	560
Terminating a process using Activity Monitor	561
Terminating a process using Terminal	561
Related links	562
Trash	563
About Trash	563
Trash architecture in Mac OS X	563
Trash utilities for eradicating troublesome files	564
Troubleshooting Trash	564
Resolving common Trash problems	565
Trashing locked files	565
Files in use by other applications	566
Request to authenticate or insufficient permissions alert	567
Files dragged to the Trash “will be deleted immediately” alert	568
Recovered Items folder in the Trash	571
Removable media retains files from the Trash	571
Related links	572
VCD and SVCD Players	573
About VCD and SVCD	573
Creating VCDs and SVCDs with Mac OS X	573
Using VCDs and SVCDs with home DVD players	573
Mac OS X support for VCD and SVCD	574
Third-party players	574
Related links	574
Zeroing Volumes	575
About zeroing volumes	575
Zeroing volumes with Disk Utility	576
Zeroing a volume other than your startup disk	576
Zeroing your startup disk from your Mac OS X Install Disc	577

Zeroing your startup disk from a bootable Duplicate	578
Related links	579
<hr/>	
Appendices	580
Appendix 1: Significant Changes from Jaguar to Tiger	581
Applications and Utilities.....	581
Connecting to Servers	582
Favorites.....	582
File system journaling	582
Find and Find by Content	582
Gimp-Print	582
System Preferences	583
Terminal	584
Terminology	584
Related links	584
Appendix 2: System Logging	585
System logging in UNIX-based systems	585
Apple System Logging.....	587
Related links	588
Appendix 3: Tiger’s Spotlight Plug-ins	589
Related links	590
Appendix 4: Indexing Shared Volumes with Spotlight	591
The secret metadata store directory.....	591
Indexing a shared volume	592
Examining the local metadata store of a shared volume.....	593
Updating the local metadata store of a shared volume	594
Removing the local metadata store of a shared volume	595
Related links	595
Appendix 5: Spotlight and Hidden or Invisible Files	596
Hidden and invisible files defined	596
Anomalies in searching for invisible files.....	597
Anomalies in searching for hidden files	598
Related links	599
Glossary	600
Index	607
Colophon	619

Index

Symbols

.aif 486
 .aiff 485
 .app 242
 .dfont 268
 .DS_Store 251, 380
 .Mac 93, 468
 .plist 134
 .sparseimage 237
 .Spotlight-V100 495
 .wav 486
 /etc 537
 /etc/master.passwd 537
 /tmp 430
 /var 537
 3ivx 155
 802.11 109, 398, 605

A

About This Mac 557
Accelerate Your Mac 26
Access Control Lists 111, 116
ACLs 111, 116
Active Directory 383
Activity Monitor 415, 441–442, 560, 581
Address Book 420, 433
ADSL 398, 403, 409, 600
Advanced Encryption Standard 112, 234
AES 112, 234, 600
AFP 20, 395, 399, 600
AIFF 485
AirPort
 base station printer 429–430
 disabling 53, 400
 Dual Ethernet (Snow) 396, 404

 Graphite 396, 404
 Internet connection sharing 405
 Internet connection via 398
 kernel panic 326
 LEAP 405
 networks 397
 PPPoE over AirPort 396
 preferred networks 396
 remote access 402
 requirements 398
 roaming 405
 security 109, 115
 Snow 396, 404
 third-party cards 412
 Tiger installation and 18
 troubleshooting 403
 turn off 53, 400
 VPNs and 404
AirPort Express 396, 403
AirPort Extreme 326, 396, 398, 400, 404
America Online 398
anti-virus 115, 560
AOL 398, 600
Apple
 Apple Store 123
 Developer Connection 26
 Discussions 26, 33, 89
 feedback 48
 Retail Stores 25, 329
 security updates 105
 user groups 26
AppleCare Knowledge Base 88, 91–92
AppleCare Protection Plan 50, 123
AppleScript 124, 125
AppleScript Studio 125
AppleTalk 20, 395, 399
Apple Double Format 380
Apple Hardware Test 309–311
Apple Menu 14
Apple System Logging 187, 587

Apple System Profiler 581

applications 124–150

- AppleScript 125
- BSD 125
- bundle 127
- Classic 126, 176, 181–184
- Cocoa 124
- crash logs 195
- default 128–133, 145
- error code -10660 146
- fail to launch 142, 222
- finding new 135
- installing 51, 126–127, 144, 148
- Java 125
- launch slowly 141
- Mac OS X 124–126
- Microsoft Windows 126
- opens in wrong Mac OS 141
- packages 127
- preferences files 133–134, 139–140, 142
- preferred 128–133, 145
- preventing problems with 135
- quit unexpectedly 142–143
- reinstalling 147–148
- repeated registration 148
- stop responding 143
- troubleshooting 137–148
- uninstalling 19, 51, 136–137
- unresponsive 143–144
- WebObjects 125
- wrong application opens 145
- X11 125–126

Archive and Install 20, 151–154

asl(3) 587

Audio MIDI Setup 487, 489

automount 562

AVI 155–157, 600

B

backup and recovery 54–73

- Backup Set 56–58
- bootable Duplicate 56–58
- FileVault 60
- for Mac OS 9 69
- for Mac OS X 60–68
- recovery 70–71
- Spotlight and 520–521
- what and when 28, 50, 54

beach ball 490–493

black rectangles 392

Bluetooth

- disabling 53, 400
- faxing via 229
- networks 395, 398, 411
- sleep and 472, 474
- turn off 53, 400

blue screen 536

Bonjour 395, 411

Bonjour for Windows 379, 386, 430

bootable 600

boot volume 600

broadband 398, 403

BSD 125, 600

bundle 600

burning 158–170

- Burn Folders 159, 241
- CDs 158–161
- DVD-RAM 168–169
- DVDs 158–161
- error codes 163–166
- factors affecting 160
- Fast User Switching and 160
- iTunes 161
- player compatibility 159
- restricting who can 114, 161
- SuperDrive 159, 170
- supported burners 161
- SVCDs 159, 573
- troubleshooting 162–169
- unsupported burners 161–162
- VCDs 159, 573
- Windows compatibility 159

Burn Folders 159, 241

C

cable modem 398, 403

cache cleaning 29, 50, 171–173, 271, 455

Carbon 125

CATV 600

CDs

- burning 158–161
- multisession 160
- protecting 93–94
- Spotlight and 497
- troubleshooting 162–169

Cepstral 486

Charismac Discribe 161

clamav 227, 366

ClamXav 115, 227, 366

Classic 174–184

- already running alert 180

- applications 126, 176, 181–184
- cannot print 433
- environment 174–175
- Exposé and 175
- fails to launch 177–180
- Fast User Switching and 180
- fonts 175, 184
- menu extra 175
- performance 415
- preferences 176, 179
- protecting System files 112
- recording with 487
- slow to launch 180
- starting 175
- stopping 176
- troubleshooting 176–184

CLI 601

Clock 581

Cocktail 14, 171, 372

Cocoa 124

CODEC 155, 601

Connect to Server 240, 582

Console 185–199, 581

contextual menu items 250

Control Strip 14

Core Audio 488

Core Image 208

CPU 601

Create Archive 291

Creator codes 601

cube effect 225

CUPS 430–431, 601

D

Dashboard 200–210

databases 498

data recovery 211–213

Data Rescue II 213

data security 111–113

defragmenting 29, 78

desktop background 413, 550, 553

DHCP 402

dial-up 398, 403, 406–407, 409, 477

Dictionary 114

DIMM 601

disaster recovery 71

disclaimer 8

Discribe 161

diskutil 79

DiskWarrior 80

Disk Copy 14, 214, 581

disk images 111, 214–219, 524

disk utilities 77–82, 212

Disk Utility 79–80

- disable journaling 79

- disk images 111

- error codes 447–448, 452

- floppy disks 267

- Live Verification 80

- overlapped extent allocation 79

- Repair Disk 445–449

- Repair Permissions 450–453

- SMART diagnostics 79

display 550–551

DivX 155–157, 177, 601

Dock 14, 114, 220–222, 287–288, 413

donationware 601

DriveSavers Data Recovery 213

DSL 398, 403, 409, 601

Duplicate 56–58

DVD-RAM 168–169, 497

DVDs 93–94, 158–169, 497

DVD Player 574

DVD Studio Pro 158, 169

DVI port 467

Dynamic DNS 402

Dynamic Host Configuration Protocol 402

E

EasyFind 515, 526

education 25–27

EMC Dantz Retrospect 54, 60

encryption

- AES 600

- data 111

- FileVault 112, 234

- Wi-Fi networks 109

Energy Saver 470, 473

Entourage 498, 525

Erase and Install 20, 443–444

error codes

- burning 163–166

- disk images 216–217

- Disk Utility 447–448, 452

- Finder 252

- Mac OS X 83–84

- Repair Disk 447–448

Repair Permissions 452

Ethernet 396, 397

Exposé 175, 343

extensions 601

Extensis Suitcase 269

F

F-keys 344

FAQ 601

Fast User Switching 112, 223–227, 235

FAT16 263

FAT32 263

Favorites 241, 582

Fax 228–233

FAXstf 229

feedback 48

Fibre Channel 473

files

corrupted 258–259

hidden 242, 292, 497, 525, 596

invisible 242, 292, 497, 525, 596

FileVault 112, 234–239

backup and recovery 60

repairing Home directory 237, 449, 455

file sharing 381–382, 399–400, 404, 408

file system consistency check 80

file system journaling 78–79, 582

Final Cut Express 236

Final Cut Pro 236

Find 499, 505–507, 523, 530

Finder 240–257

.DS_Store files 251

alias issues 246, 248

Apple menu issues 247

application associations 128–133

Burn Folders 241

changes in 240–242

Connect to Server 240

contextual menu items 250

drag and drop 256

ejecting a partition 248–249

error code -10660 252

Favorites 241, 582

Find 241

Get Info comments 241, 253

hidden files 242

invisible files 242

Network 253–254

Network Browser 240

preferences 242

quits unexpectedly 249–252

relaunch 288

relaunches 249–252

Services menu 191, 253

Sidebar 242, 246, 254

Simple Finder 114

slideshow 242

slow 249, 255

Smart Folders 241

Spotlight Comments 241, 253, 255

stops responding 250

troubleshooting 242–256

firewall 109–110

FireWire 260–265, 322–323

devices fail to mount 260–261

hard drives 56, 225, 260–265

IP over FireWire 397

Target Disk Mode 40, 44, 397, 527

firmware 12, 301, 471, 601

First Aid folder 85–87

flashing question mark 536, 540

Flash drives 471

floppy disks 266–267

FontAgent Pro 269

FontDoctor 271

fonts 175, 184, 268–274, 414

Font Book 269, 275–286

Font Reserve 269

Force Quit 287

FreeBSD 27, 371

freeware 601

Freezes and Hangs 294–302

fsck 80, 81

FTP 601

function keys 344

G

GarageBand 236

Get Info comments 241, 253

GIMP 601

Gimp-Print 420, 582, 601

Google 33, 84, 91, 338, 462

GPRS 398, 601

grey screen 536

Griffin iMic 486, 488

GUI 602

H

hardware

- Apple Hardware Test 309–311
- testing 309–313
- troubleshooting 122–123
- upgrading 31–37, 170, 486

hard disks

- available space 290, 441
- data recovery 211–213
- defragmenting 78
- ejecting 248
- erasing 575–579
- FireWire 260–265
- freeing space 290–293
- journaling 78, 582
- NTFS format 263, 379
- partitioning 15, 63
- repairing 445–449
- sleep 303–308
- unmounting 248
- zeroing 575–579

hdiutil 216

Help 25–27, 88–92

Help Book 5, 316

Help Viewer 5, 314–321

HFS+ 111

HFS Plus 111

HotSync 224

HTTP 602

HTTPS 602

hyperlinks 5

I

iCal 320, 486, 498, 526

iChat 114

iDisk 468

iDVD 158, 161, 169

IEEE 109, 397, 602

iKey 344

iLife 147

Image Capture 459, 461

iMic 486, 488

iMovie 236

indexing 495–498

- disk images 524
- progress indicators 498
- shared volumes 513–514, 591–595
- stopping 502–505

unexpectedly 527–528

verifying enabled 517

installation package 602

Internet

- connecting to 398
- connection sharing 326, 399
- safety for children 113–114
- troubleshooting 403

Internet Explorer 14, 20

Internet Service Provider 93, 398, 602

IOHDIXController 217

IP 397–398, 402, 602

ipfw 110

iPhoto 19, 158, 169, 292

iPod 535

IPSec 110

ISP 93, 398, 602

iSub 487, 488

iSync 20

iTunes 19, 161, 169, 292, 414

J

Jaguar 23, 581–584

Java 125

journaling 78–79, 582

K

Kerberos 378

kernel 324

kernel_task 416

kernel extension 324

kernel panics 324–342

- panic logs 331–341
- troubleshooting 327–331

keyboard 343–351

- Apple Wireless Keyboard 345, 351, 390, 457
- brightness key 344, 349
- cleaning and disassembly 347
- eject key 347, 349
- Exposé 343
- F-keys 344
- function keys 344
- images of keys appear 347
- Keyboard Viewer 344
- Key Caps 344
- KVM switchbox 347, 350, 602
- no visual feedback 349
- one key fails to work 349

- shortcuts 343–344, 350
- sounds when typing 350
- volume keys 347, 349

Keyboard Viewer 344, 581

Keychains 108, 352–363

- bugs 356–357
- corrupted 357
- default 353
- deleting 355–356
- locking 354–355, 358
- password 354, 357–359
- resetting 357
- Reset Safari and 359
- searching 357, 359
- System 352, 360–361, 363
- troubleshooting 357–362
- unlocking 354–355, 358
- X509Anchors 352

Keychain Access 352, 581

Keychain First Aid 353

Key Caps 344, 581

kill 298, 562

killall 298

KVM switchbox 347, 350, 602

L

L2TP over IPSec 110

LAN 398, 403, 602

Language localizations 292

laptops

- function keys 344
- general advice 52, 94
- surge protection 101
- traveling with 52, 401

LaunchCFM 562

launchd 373, 375

Launch Services 128–129, 140–141, 149, 252

LCD 471

LCP 602

LDAP 537, 602

Lightweight Directory Access Protocol 537

Little Snitch 110, 115

locations 400

login 106, 364–366, 486

Login Items 364, 545–548

logs

- asl.log 187, 587
- console.log 185, 586
- crash logs 194–199

- installation 128

- maintenance scripts 374–375

- panic logs 196, 331–341

- system.log 185, 586

- system logging 585–588

M

Mac

- buying 35–36

- hardware upgrades 31–37

- integrating with Windows 378–386

- models and specifications 37

- record keeping 93–95

- remote access 401–402

- set up new 38–47

Mac-Windows Integration 378–386

MacAcademy 25

MacJanitor 372

MacMonkies 87

MacUpdate 14, 135, 462

MacVCD X 574

MacWindows 26, 382, 383

Mac Diary 94

Mac OS 9 367–370

- backup and recovery 69

- disks fail to mount 263

- fonts 272

- installing for Classic 367

- reinstalling 369–370

- remote access using 402

- start up in 535, 539

- uninstalling 367–369

Mac OS Extended 111, 510, 576–578

- disk images 215

- FireWire drives 263–264

- floppy disks 267

- Windows computers 380

Mac OS Standard 267

Mac OS X

- applications 124–125

- background processes 560–561

- backup and recovery 60–65

- books 25

- build information 377, 558

- burners 161–162

- changes from Mac OS 9 13–15

- Classic mode 174–184

- documentation 26

- error codes 83–84

- installing 11–16, 17–24

- learning 25–27

- maintenance 28–30
 - memory management 439
 - Microsoft Windows and 378–386
 - multithreading 196
 - performance 413–419
 - power management 471
 - preventing problems 50–53
 - printers 421
 - processes 560–561
 - reinstalling 151–154, 443–444
 - scanners 460
 - security 104–116
 - updates 376–377
 - version 558
 - Web sites 26
 - Xcode Tools 86
 - Mac OS X Hints** 26, 91
 - Mail** 19, 114, 291, 485–486, 583
 - maintenance scripts** 28, 371–375
 - malware** 114
 - man pages** 27
 - MasterJuggler** 269
 - mdfind** 501
 - mdimport** 417, 501
 - mdimportserver** 522
 - mdls** 501
 - mds** 417, 496, 503
 - mds-crash-state** 496, 528
 - mdutil** 501
 - memory card readers** 306
 - Memtest** 311
 - menu extras** 52, 417, 602
 - metadata** 495
 - metadata store** 495–496, 517–519
 - Microsoft Entourage** 498, 525
 - Microsoft Internet Explorer** 14, 20
 - Microsoft Office** 492
 - Microsoft Virtual PC for Mac** 126, 382
 - Microsoft Windows**
 - applications 126, 382
 - base station printers 429–430
 - file sharing 381–382
 - integrating with Macs 378–386
 - sharing Mac printers 426–428
 - sharing Windows printers 428–429
 - Migration Assistant** 21, 38
 - MIME** 602
 - modem**
 - ADSL 403
 - Bluetooth 229
 - cable modem 398, 403
 - diagnostics 396
 - DSL 403
 - Fax 228
 - international use 401
 - not working 406
 - PCMCIA 229
 - PC Card 229
 - USB 536
 - Monolingual** 292
 - mouse** 389–393
 - Apple Mighty Mouse 389, 391
 - Apple Wireless Mouse 390, 393
 - black rectangles 392
- ## N
- nagware** 603
 - NAT** 109, 402
 - NetInfo Manager** 105, 394
 - networks** 395–412
 - assessing need for 397
 - building 397–398
 - connection monitor 110, 115
 - international travel and 401
 - locations 400
 - remote access 401
 - security 108–111
 - troubleshooting 402–410
 - Network Address Translation** 109, 402
 - Network Browser** 240, 582
 - Network Diagnostics** 396
 - Network Utility** 403
 - NFS** 603
 - Norton AntiVirus** 19, 115
 - notational conventions** 6
 - NTFS** 263, 379
 - NTLMv1** 378
 - NTLMv2** 378
 - Nudge** 384
 - NVRAM** 122, 603
- ## O
- O'Reilly & Associates, Inc.** 26
 - OmniDisk Sweeper** 292
 - OpenSSH** 604
 - open firmware** 107
 - OSXFAQ** 26, 91
 - ownership** 387–388

P

P2P 603

Pacifist 147–148

package 602

pageins 439

pageouts 439

paging 439

PalmSource HotSync 224

panic logs 196, 331–341

Panther 23

Parental Controls 113–114

partition 15, 63, 248, 603

passwords 106–109, 365

Password Assistant 106

path 603

pathname 603

PCI cards 33, 471, 473

PCMCIA 229, 603

PC Card 229

performance 413–419

Classic 415

Dashboard and 414

desktop background and 413

Fast User Switching and 224

FileVault and 236

Finder 249, 255

fonts and 280, 414

iTunes visuals and 414

kernel_task 416

mdimport 417

mds 417

menu extras and 417

optimizing 413–415

paging and 441

RAM 413, 439

spinning beach ball of death 490–493

Spotlight and 417

SystemUIServer 417

Widgets and 414

peripherals 31–37, 322–323

permissions

changing ownership 387–388

repairing 30, 50, 450–453

troubleshooting 455

PlaySnd 486

plug-ins

Spotlight 495, 501, 525

third-party 19, 76, 138

pmsset 304, 306

PMU 102, 123, 262, 603

Point-to-Point Tunneling Protocol 110, 410

ports 110

POST 542

power-on self-test 542

PowerPC 342

power outages

protecting against 96–99

recovering from 102

power surges 101–102

PPD 421, 603

PPP 398, 402, 403, 603

PPPoE 396, 398, 403, 603

PPTP 110, 410

PRAM 122, 603

prebinding 30, 190

preferences files 133–134

Preview 435

Previous Systems folder 152

printers

base station printer 429–430

sharing 421, 422–430

supported 421, 429

unsupported 421

Printer Setup Utility 420–421, 430, 432, 434, 437–438

printer sharing 422–430

base station printer 429–430

disabling 423–424

enabling 422–423

Fax and 229

troubleshooting 431

Windows printers 428–429

with Mac OS 9 425

with Mac OS X 425

with UNIX 426

with Windows 426–428

printing 420–438

Confidential Print 420

envelopes 420

Reset Printing System 229, 420

troubleshooting 430–437

Print Center 421, 581

processes 560–562

Process Viewer 581

prohibitory sign 536

Property List Editor 86

Q

Quartz Extreme 225

QuickTime 155, 177, 188, 224, 574

R

RAID 538

RAM 310–311, 413, 439–442, 558, 603

Raw Query 507–509

recommendations 8

reinstalling

applications 147–148

Mac OS 9 369–370

Mac OS X 151–154, 443–444

Rember 311

remote access 401–402

Rendezvous 395

Repair Disk 445–449, 455

Repair Permissions 30, 50, 450–453, 455

Reset Printing System 420

ResExcellence 26

restart 96, 300, 467

Retrospect 54

ripple effect 208

root 52

routers 109, 404, 408

Roxio Toast 161, 573

S

Safari 19, 114, 359, 583

Safe Boot 456

Safe Login 457–458

Safe Mode 456–458, 489

SATA 604

SBBOD 490–493, 604

scanners 459–461

screen saver 471, 550

SCSI 161, 473, 604

searching 499–501, 529–530

SecureMac 105

security 104–116

anti-virus 115

Confidential Print 420

data 111–113

downloads 115

FileVault 112, 234–239

Keychains 108, 352–363

networks 108–111

new applications 115

Parental Controls 113–114

passwords 106–109

physical 105

spyware 110, 114

Startup Items 115, 535

updates 105

serial number 558

Services menu 191

Setup Assistant 21, 38–39

shareware 604

Sherlock 14, 462–465

shutdown 299, 466–469, 471

SilverFast 460

Simple Finder 114

sleep 303–308, 322, 375, 470–475, 487

slideshow 242

SMART 77, 604

Smart Folders 507

SMB/CIFS 378, 604

SMU 102, 123, 262, 604

Software Update 476–484

deciding to update 476–477

downloading 477

failed updates 481–482

preventing problems 478–479

problems after 479–482

SOHO 604

sound 485–489

alert sounds 485–486

audio input 486

audio output 486, 488

distorted 487

external speakers pop 487

from keyboard 350

iSub 487, 488

login sound 486

recording in Classic 487

Safe Mode and 489

troubleshooting 487–489

voices 486

Sound Recorder 487

spinning beach ball of death 305, 490–493

Spotlight 494–534

backup and recovery 520–521

CDs 497

databases 498

delays, freezes, hangs 523–524, 528–529

disk images 218, 524

DVD-RAM 497

DVDs 497

file system metadata 509–512

Find 499, 505–507, 523, 530

- FireWire Target Disk Mode and 527
 - hidden files 497, 525, 596–599
 - iCal 498, 526
 - icon 499
 - indexing 495–498, 502–505, 517–519, 527
 - invisible files 497, 525, 596–599
 - limitations 515–516
 - mdfind 501
 - mdimport 501
 - mdimportserver 522
 - mdls 501
 - mdu 496, 503
 - mdu-crash-state 496, 528
 - mdutil 501
 - menu 499
 - metadata store 495–496, 517–519
 - Microsoft Entourage and 498, 525
 - plug-ins 495, 501, 525, 589–590
 - Privacy 496, 502–505, 506, 520, 530
 - Raw Query 507–509
 - rebuilding indices 517–519
 - searching 499–501, 529–530
 - shared volumes 513–514, 591–595
 - Smart Folders 241, 507
 - Spotlight Comments 241, 253, 255
 - SystemUIServer 528
 - System files 497, 515
 - System Preferences search 528, 549, 554
 - Terminal commands 501
 - troubleshooting 516–531
 - Uniform Type Identifiers 531
 - window 499
 - spyware** 110, 114
 - SSH** 294, 401, 604
 - startup** 535–544
 - blue screen 536
 - cannot 536–538
 - FireWire drive 262
 - flashing question mark 536, 540
 - grey screen 536
 - mac-boot message 540
 - Mac OS 9 535, 539
 - power-on self-test 542
 - process 535
 - prohibitory sign 536
 - RAID 538
 - security 535
 - slow 540
 - tone 542–543
 - USB drive 535
 - USB modem 536
 - Startup Items** 115, 364, 545–548
 - Startup Manager** 59, 72, 541
 - startup tone** 542–543
 - StuffIt** 15, 20, 291
 - sudo** 52
 - Suitcase** 269
 - SuperDrive**
 - aftermarket 170, 306, 474
 - DVD-RAM 168
 - firmware update 17, 159, 165
 - media 159
 - support agreements** 123
 - surge protection** 101–102
 - SVCD** 159, 573–574, 604
 - swap files** 439
 - Symantec Norton AntiVirus** 19, 115
 - syslog(1)** 587
 - syslog(3)** 585
 - syslogd** 586, 587
 - SystemUIServer** 417, 528
 - system logging** 585–588
 - System Preferences** 549–556
 - changes from Jaguar 583
 - Desktop & Screen Saver 550, 553
 - Displays 550–551
 - duplicates 551
 - Energy Saver 551–552
 - missing 551
 - quits unexpectedly 554–555
 - removing preference panes 552–553
 - Sharing 553
 - Software Update 482–483
 - Spotlight search 528, 549, 554
 - System Profiler** 557–559
- ## T
- TBCP** 604
 - TCP/IP** 604
 - TechTool Deluxe** 311
 - TechTool Pro** 80, 212, 311
 - Terminal** 25–27, 51, 273, 584
 - Test Account** 74–76
 - text-to-speech** 486
 - The X Lab** 8, 26, 91
 - thrashing** 442
 - Tiger** 17–24
 - Tiger Cache Cleaner** 171, 372
 - tile** 605
 - TinkerTool** 14, 413
 - TKIP** 605

- Toast** 161, 573
 - top** 298, 441, 561
 - trackpad** 393
 - training** 25–27
 - Trash** 563–572
 - architecture 563–564
 - authentication request 567
 - cannot add files to 568–570
 - deleted immediately alert 568–570
 - desktop vs. Dock 15
 - files in use alert 566–567
 - insufficient permissions 567
 - locked files 565
 - Recovered Items 571
 - recovering files from 211
 - removable media 571
 - resolving common problems 565–571
 - Secure Empty Trash 211
 - troubleshooting 564–565
 - utilities 564
 - Trash It!** 564
 - troubleshooting**
 - AirPort 403
 - applications 137–148
 - burning 162–169
 - CDs 162–169
 - Classic 176–184
 - corrupted files 258–259
 - Dashboard 205–210
 - disk images 216–219
 - Dock 221–222
 - DVDs 162–169
 - Fast User Switching 225–227
 - Fax 230–232
 - FileVault 237–238
 - file sharing 404
 - Finder 242–256
 - FireWire 260–264, 322–323
 - fonts 270–274
 - Font Book 282–285
 - freezes and hangs 294–302
 - general procedure 121–123
 - hardware 122–123, 309–313
 - hard disks 454–455
 - hard drive sleep 306–308
 - Help Viewer 315–320
 - Internet connections 403
 - kernel panics 327–331
 - keyboards 345–351
 - keychains 357–362
 - login 364–366
 - mouse 389–393
 - networks 402–410
 - passwords 106–109
 - performance 413–419
 - peripherals 322–323
 - permissions 450–453
 - printer sharing 431
 - printing 430–437
 - Sherlock 462–465
 - shutdown 466–469
 - sleep 472–474
 - software 122
 - Software Update 482–483
 - software updates 479–482
 - sound 487–489
 - spinning beach ball of death 490–493
 - Spotlight 516–531
 - startup 536–543
 - System Preferences 549–556
 - System Profiler 558–559
 - Trash 564–565
 - USB 322–323
 - Windows file sharing 383
 - TruBlueEnvironment** 562
 - TWAIN** 460
 - Type codes** 605
- ## U
- UFS** 605
 - Uniform Type Identifier** 531, 605
 - uninstalling**
 - applications 136–137
 - Mac OS 9 367–369
 - Uninterruptible Power Supply** 97–100
 - UNIX** 371
 - update prebinding** 30
 - UPS** 97–100, 605
 - USB** 312, 322–323, 467
 - users**
 - moving to a new Mac 38–47
 - restricting capabilities 113–114
 - UTC** 588
 - UTI** 531, 605
- ## V
- VCD** 159, 573–574, 605
 - VersionTracker** 14, 135, 462
 - VideoHelp** 157, 574
 - Virtual Memory** 439
 - Virtual Network Computing** 401

Virtual PC 126, 382
Virtual Private Networks 110–111, 378, 398, 404, 410
virus 114
VISE Installer 417
VLC 155, 574
VM 439
VNC 401
VoiceOver 392
voices 486
volume 605
VPN 110–111, 378, 398, 404, 410
VueScan 460

W

W3C 605
warranties 32, 123
WebDAV 378, 605
WebObjects 125
WEP 109, 605
WhatSize 292
Wi-Fi 109, 397, 400, 605
Wi-Fi Protected Access 109
Wi-Fi Protected Access 2 109
widgets 200–210

- closing 202
- developing 204
- finding new 204
- included with Tiger 201
- installing 203
- opening 202
- preferences 203, 204–205
- refreshing 207
- removing 203

WiebeTech 265
Windows

- base station printers 429–430
- file sharing 381–382
- sharing Mac printers 426–428
- sharing Windows printers 428–429

Windows Media files 382
Wired Equivalent Privacy 109
WPA 109, 605
WPA2 109, 606
WWW 606

X

X.509 352

X11 125–126
Xcode Tools 22, 86
XML 134, 606
X Lab, The 8, 26, 91
X Window System 126

Y

Yasu 171, 372

Z

zeroing 575–579
Zero Out Data 576