



TECHNOLOGY IN ACTION™

Taking Your iPhone 4S to the Max

For iPhone 4S and Other iOS 5-Enabled iPhones

*FULLY LEVERAGE AND MAXIMIZE WHAT YOUR
IPHONE 4S OR EARLIER IOS 5-ENABLED IPHONE
HAVE TO OFFER NOW*



Michael Grothaus, Erica Sadun,
and Steve Sande

Taking Your iPhone to the Max, iOS 5 Edition



Michael Grothaus
Steve Sande
Erica Sadun

Apress®

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*Dedicated to the memory of Steven P. Jobs, without whom the iPhone
and this ebook would never have existed.*

— Steve, Erica, and Mike

Contents at a Glance

Contents.....	V
About the Authors.....	xiv
About the Technical Reviewer	xv
Part I: Setup.....	1
■ Chapter 1: Selecting, Buying, and Activating Your iPhone.....	3
■ Chapter 2: Putting Your Data and Media on the iPhone	27
Part II: Meet the Phone	63
■ Chapter 3: Interacting with Your New iPhone	65
■ Chapter 4: Placing Calls with iPhone	101
Part III: Getting Online	125
■ Chapter 5: Browsing with Mobile Safari	127
■ Chapter 6: Staying in Touch with FaceTime and Messages	157
■ Chapter 7: iPhone Mail	183
Part IV: Media and Shopping	213
■ Chapter 8: Touching Your Music	215
■ Chapter 9: Shopping at the iTunes Store	239
■ Chapter 10: Shopping at the App Store	257
■ Chapter 11: Reading Books and Newspapers with iBooks and Newsstand....	275
Part V: Photos, Video and the Camera	319
■ Chapter 12: Touching Your Photos and Videos	321
■ Chapter 13: Photographing and Recording the World Around You	365
Part VI: Accessories.....	383
■ Chapter 14: Staying on Time and Getting There with Clock, Calendar, and Maps.....	385
■ Chapter 15: Using Your Desk Set: Contacts, Calculator, Notes, Weather, Stocks, Voice Memos, and Reminders	425
Part VII: Preferences.....	455
■ Chapter 16: Customizing Your iPhone.....	457
Index.....	487

Contents

Contents at a Glance.....	iv
About the Authors.....	xiv
About the Technical Reviewer	xv
 Part I: Setup.....	 1
■ Chapter 1: Selecting, Buying, and Activating Your iPhone.....	3
Selecting Your iPhone	3
Considering System Requirements.....	5
Buying Your iPhone.....	5
Returns and Exchange Policies.....	7
Bringing Home Your iPhone	7
iPhone 4S Feature Overview.....	9
Activation at the Store	10
Preparing for Activation Through iTunes	11
Connecting Your iPhone to Your Computer	14
Activating Your iPhone (Nonstore Version)	15
The Activation Process	17
“PC-Free” Activation.....	18
Insuring and Repairing Your iPhone.....	20
Accessorizing Your iPhone.....	20
iPhone Bumpers and Cases	21
iPhone Skins	22
Power Adapters	23
Docks	23
Cables	24
Summary	25
■ Chapter 2: Putting Your Data and Media on the iPhone	27
Syncing	27
The iPhone iTunes Device Window	28
A Word on Syncing Your Data	30
Where Do I Get My Media From?	30
Remember to Apply Your Changes	32
The Tabs	32

The Summary Tab	33
The Apps Tab	40
The Ringtones Tab	44
Synchronization Options	45
The Music Tab	45
The Movies Tab	46
The TV Shows Tab	48
The Podcasts Tab	49
The Books Tab	51
The Photos Tab	53
The Info Tab	54
iTunes Device Settings	58
Restoring	61
Syncing via iCloud	61
Summary	62
Part II: Meet the Phone	63
■ Chapter 3: Interacting with Your New iPhone	65
Interaction Basics	65
The iPhone Language	66
The iPhone Sensors	69
iPhone Power Tricks	74
Changing iPhone Wallpapers	81
Organizing Apps with Folders	82
Using the iPhone Keyboard	84
Dictating Text	92
Using a Bluetooth Keyboard with Your iPhone	93
Using the iPhone Stereo Headset	95
Talking to Siri	97
Summary	98
■ Chapter 4: Placing Calls with iPhone	101
Checking the Cell Network Indicator	101
iPhone Basics	102
Launching the Phone app	102
Placing Calls	103
GSM versus CDMA	106
Placing Calls with Siri	107
Placing Calls with Voice Control	108
Answering Calls	109
Managing Calls	111
Managing Favorites	114
Using Visual Voicemail	115
Setting Up Your Voicemail Passcode	115
Choosing Your Greeting	116
Managing Voicemail Messages	116
Accessing Voicemail Files	118
Sending Voicemail Indirectly	118
Managing Ringtones and Other iPhone Alerts	119

Adding Custom Ringtones.....	119
Advanced Phone Preferences	121
iPhone Codes	121
Basic iPhone Information.....	122
Service Shortcuts.....	122
Summary	122
Part III: Getting Online	125
■ Chapter 5: Browsing with Mobile Safari	127
Getting Started with Wi-Fi	127
Checking Your Wi-Fi Connection.....	128
Choosing a Wi-Fi Network	128
Connecting to a Protected Network.....	129
Asking to Join a Network.....	130
Getting Started with 3G Data Connections.....	131
Getting Started with the Safari Web Browser	133
Entering URLs	135
Searching the Web.....	136
Searching for Text on a Web Page.....	137
Entering Text.....	138
Following Links	139
Changing Orientation	141
Scrolling, Zooming, and Other Viewing Skills	141
Working with Pages	142
Working with Bookmarks.....	143
Selecting Bookmarks.....	144
Editing Bookmarks.....	145
Saving Bookmarks and Sharing Web Pages	147
Eliminating Clutter with Reader	149
Building Up Your Reading List.....	150
Customizing Safari Settings.....	152
The iPhone and Flash Videos	154
Summary	155
■ Chapter 6: Staying in Touch with FaceTime and Messages	157
The Camera Hardware	157
Front Camera	157
Rear Camera	158
Getting Started with FaceTime	158
Signing In	158
Navigating Your FaceTime Contacts	164
Favorites	164
Recents	166
Contacts.....	167
Placing and Receiving a FaceTime Call	167
Other FaceTime Calling Options.....	170
FaceTime Settings	172
Getting Started with Messages.....	173
Reading Conversations	174

Deleting and Forwarding Individual iMessages	175
Deleting Entire Conversations	177
Sending a New iMessage	177
Attaching a Photo, Video, or Contact to an Messages	178
Messages Settings	180
Using Messages with Siri	181
Summary	182
Chapter 7: iPhone Mail	183
Compatibility	183
POP	183
SMTP	184
IMAP	184
Microsoft Exchange	185
Adding Mail Accounts to iPhone	185
Adding Accounts with iTunes	186
Adding Accounts from Your Phone	187
E-mail Provider Setup	188
Removing Accounts from iPhone	190
Mail Basic Settings	191
Audible Mail Alerts	194
Getting Started with iPhone Mail	194
Inboxes	195
Accounts	196
Using Mailboxes	196
Reading and Navigating Through Mail	198
Bottom Icons	199
Top Icons	199
Embedded Links	200
Viewing Attachments	203
Sending Mail	205
Addressing E-mail	206
Entering a Subject	207
Editing the Message	207
Saving a Draft	208
Sending E-mail	208
Writing and Sending Mail with Siri	208
Creating Mail	208
Checking Mail	210
Responding to Mail	210
Summary	211
Part IV: Media and Shopping	213
Chapter 8: Touching Your Music	215
The Music Application	215
Browsing Media	216
Editing Your Browse Buttons	218
Navigating the Category Screens	219
Playing Audio	220

Album View	223
Cover Flow	225
Creating Playlists	226
Searching	231
Going Beyond the Music App	232
Saving Energy	232
Display Music Playback Controls When in Another App	233
Adding a Sleep Timer	233
Adjusting Music Settings	234
Choosing Headphones	236
Summary	236
Chapter 9: Shopping at the iTunes Store	239
Connecting to the iTunes Store	239
Signing in to Your iTunes Account	240
Browsing Through the iTunes Store	241
The Music Store	242
Exploring the Top Tens	243
The Video Store	246
The Podcasts, Audiobooks, and iTunes U Stores	248
Searching the iTunes Store	248
Purchased	249
Downloads	250
Redeeming Codes	251
Transferring Purchased Items to Your Computer	251
Getting Free Music and Videos	252
Getting Social with Ping	252
Summary	255
Chapter 10: Shopping at the App Store	257
Connecting to the App Store	257
Signing in to Your App Store Account	258
Browsing Through the App Store	259
Featured	259
Categories	261
Top 25	262
Exploring an App's Information Page	263
Buying and Downloading Apps	265
Searching the App Store	266
Downloading Updates and Previously Purchased Apps	267
Redeeming Gift Certificates and Codes	270
Transferring Purchased Items to Your Computer	270
Buying Apps Through iTunes on Your PC	270
Getting Your Game on in Game Center	271
Summary	272
Chapter 11: Reading Books and Newspapers with iBooks and Newsstand....	275
iBooks App	275
View a Book's Info Page	276
Syncing Books	276

iBookstore.....	277
View a Book's Info Page	282
ePub Books	283
Navigating Your Bookshelf.....	285
Rearranging the Order of Your Books	288
Deleting Your Books.....	288
Sorting Your Books into Collections.....	289
Creating New Collections.....	290
Navigating Between Your Collections	293
Reading Books	295
Turning Pages.....	297
Adjusting Brightness.....	298
Adjusting Font, Font Size, and Page Color	299
Searching Text.....	300
Bookmarking a Page.....	301
Interacting with Text.....	302
Accessing the Table of Contents, Bookmarks, and Notes	305
Having a Book Read to You	307
Syncing PDFs	307
Navigating the PDF Bookshelf.....	309
Navigating and Reading PDFs.....	310
Using the Contact Sheet	311
Settings.....	314
Newsstand	316
Summary	317
Part V: Photos, Video and the Camera	319
■ Chapter 12: Touching Your Photos and Videos	321
Working with Photos.....	321
Syncing Photos from Your Computer	321
Saving Photos from Mail and Safari.....	322
Navigating Your Photos in the Photos App.....	323
Touching and Viewing Your Albums and Photos.....	328
Touching and Viewing Albums.....	328
Touching and Viewing Photos.....	329
Viewing Your Photos as a Slideshow	331
Other Slideshow Settings	332
Sharing Your Photos	333
Managing Photos	337
Editing Your Photos.....	339
iPhone Video Applications.....	343
Video Playback.....	346
YouTube	348
Playing YouTube Videos.....	349
Finding YouTube Videos.....	350
Customizing the YouTube Buttons Bar.....	351
Viewing Video Info Screens	353
The Videos App	354

Deleting Videos on the Go	356
Getting Videos	356
Video Settings	357
Watching Videos on the Web with Safari	358
Streaming Video to Your Apple TV with AirPlay	359
Video Accessories	361
Summary	362
Chapter 13: Photographing and Recording the World Around You	365
The Camera Hardware	365
Front Camera	366
Rear Camera	366
Real-World Use	367
Navigating the Camera App	367
Taking Still Pictures	369
Recording Video	372
Accessing Your Camera from the Lock Screen	373
Viewing Your Camera Roll	374
Viewing Individual Photos	375
Viewing Videos	377
Editing Your Video	378
Sharing Your Video	379
Uploading Images to Your Computer	381
Summary	382
Part VI: Accessories.....	383
Chapter 14: Staying on Time and Getting There with Clock, Calendar, and Maps.....	385
Using the Clock Tools.....	385
World Clock.....	386
Alarm	388
Stopwatch.....	390
Timer.....	391
Working with the Calendar	392
Switching Calendar Views	393
Adding Events	397
Editing and Removing Events	401
Synchronizing Calendars with Your Computer	401
Exploring with Maps	402
Getting Around the Maps Screen	402
Navigating Maps	404
Gestures.....	404
Changing Map Views	405
Finding Locations.....	406
Current Location	410
Bookmarking and Viewing Saved Locations.....	412
Dropping a Pin	412
Bookmarking.....	413
Directions and Traffic.....	414

Directions.....	414
Traffic.....	418
Maps Tips	420
Find a Lost iPhone	420
Find a Friend.....	422
Summary	423
■ Chapter 15: Using Your Desk Set: Contacts, Calculator, Notes, Weather, Stocks, Voice Memos, and Reminders	425
Synchronizing Your Address Book with Your Computer	425
Choosing Sync Options	426
Replacing Contacts	426
Working with the Contacts Application.....	427
Finding Contacts	427
Adding Contacts.....	429
Managing Custom Labels	432
Editing and Removing Contacts	433
Using the Calculator.....	433
Taking Notes	435
Syncing Notes.....	436
Checking the Weather.....	437
Viewing Weather Info.....	438
Weather Tips.....	439
Monitoring Stocks.....	439
Dictating Voice Memos	443
Setting Reminders	448
Summary	452
Part VII: Preferences.....	455
■ Chapter 16: Customizing Your iPhone.....	457
Six Important Settings	458
Airplane Mode.....	458
Twitter.....	459
Sounds.....	460
Brightness.....	462
Wallpaper.....	463
Location Services.....	464
Other Good-to-Know Settings.....	466
“About” Your iPhone	467
Software Update	467
Usage.....	468
iTunes Wi-Fi Sync	469
Network	469
Bluetooth.....	470
Auto-Lock.....	470
Restrictions.....	471
Date and Time.....	473
Keyboard.....	474
International.....	475

Accessibility476

 VoiceOver477

 Zoom478

 Large Text478

 White on Black478

 Speak Selection479

 Speak Auto-text479

 Mono Audio479

 Assistive Touch479

 Triple-Click Home480

Reset.....481

iCloud483

Third-Party App Settings.....484

Summary484

Index 487

About the Authors



Michael Grothaus is an American novelist and journalist living in London. He was first introduced to Apple computers in film school and went on to use them for years to create award-winning films. However, after discovering many of Hollywood's dirty little secrets while working for 20th Century Fox, he left and spent five years with Apple as a consultant. He's since moved to London and earned his MA in Creative Writing. His first novel, *Epiphany Jones*, is a story about trafficking and America's addiction to celebrity. Currently, Michael is a staff writer at AOL's popular tech news site The Unofficial Apple Weblog (TUAW.com), where he writes about all things Mac. Additionally, Michael has written several other books for Apress, including *Taking Your iPod touch to the*

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About the Technical Reviewer



Dave Caolo is an author and the Managing Editor at The Unofficial Apple Weblog, TUAW.com. Previous to his career as a writer, Dave spent 8 years as the IT Director at a Mac-friendly residential school in Massachusetts. Today, Dave can be found geeking out with his Macs and spending time with his kids, wife, and Boston Terrier, Batgirl. Learn more at <http://davecaolo.com>.

Part



Setup

Selecting, Buying, and Activating Your iPhone

Now that Apple's iPhone has been out for a number of years, you may have seen horror stories in the press about how an iPhone is going to cost you thousands of dollars over its lifetime. You have to buy the iPhone, pay for activation, and fork out money for expensive monthly service voice, data, and text plans (not to mention taxes and other fees). If you decide to back out any time during the standard two-year mobile phone contract, you're going to hand over even more money in early termination fees.

Well, there's more than a grain of truth to what you read. Since you're going to be spending a couple thousand dollars over the next few years, you need to know what you're doing when you buy that iPhone. If you're weighing the choice of whether to purchase an iPhone and trying to figure out exactly how much you're going to be paying, this chapter is for you. You'll also discover the down-and-dirty secrets of iPhone activation, plan selection, and even return policies. This chapter contains all the basic facts you need to select, buy, and activate your iPhone.

Selecting Your iPhone

At any given time, there are relatively few models of iPhones available. As of the publication of this book, all of them come with iOS 5, representing a new generation of the operating system software that powers the features of the iPhone. Usually you'll see an entry-level iPhone or two with fewer features and less storage, as well as a new top-of-the-line model.

How do you choose the model that's right for you? It all comes down to two factors: cameras and storage. The iPhone 4S has a high-resolution 8-megapixel camera with a flash that can shoot 1080p high-definition (HD) video, while the original iPhone 4 has a 5-megapixel camera (also with a flash) that will shoot 720p HD video. If you don't need a front-facing camera that allows you to take self-portraits or make FaceTime video calls, you can even get an iPhone 3GS with a 3-megapixel camera. As for storage, you need

to decide whether you want to double the purchase price of your phone for a few more gigabytes of storage. I recommend getting as much storage as you can. If you load a lot of movies and videos onto your device, you can run out of space on a top-of-the-line iPhone very quickly.

The iPhone 4S tops out storage at a whopping 64 GB, while the iPhone 4 and iPhone 3GS are now available with only 8 GB of storage. iPhone 4S devices are also available in 16 GB and 32 GB models.

Here are some questions to ask yourself while selecting the model of iPhone to purchase:

How big is your music library? If your library is small, a unit with less storage might be fine. If it's large, the extra space on some iPhone models helps to store additional music and podcasts.

How many videos do you want to carry around? A single two-hour movie may occupy more than a gigabyte of storage. If you travel a lot, especially on airplanes, you may want to pay more to store additional movies and TV shows with those extra gigabytes.

Do you plan on using your iPhone as your primary camera and camcorder? If you do, then look at the more sophisticated models with higher resolution, flash, and HD video capabilities. If you already carry a digital camera or camcorder with you on a regular basis or don't frequently shoot photos or video with your existing phone, a free (in many countries) iPhone 3GS or low-cost iPhone 4 may be fine. For budding videographers who plan to take a lot of HD video or photographers who want the best possible optics and resolution, the iPhone 4S is the right choice.

Is the thought of making video calls exciting to you? For some people, just answering a regular cell phone call is a challenge. But if you love to have regular face-to-face conversations with friends and relatives, then you may want to consider the iPhone 4 or 4S with the built-in FaceTime video-calling feature and front-facing camera.

Do you need to carry lots of data? Many iPhone apps use iTunes data storage and can synchronize files with your computer. Whether that data consists of presentation slideshows, project management files, or some other information that you need at your fingertips, the size of the data being stored can add up quickly. If you think you might need to do this, maybe the extra gigabytes on a more expensive iPhone model could be put to good use.

How long do you intend to keep this iPhone? If you're an early adopter who likes to trade up at the earliest possible opportunity whenever Apple offers a new model of iPhone, you may want to "buy in cheap" each time the new models are released and sell your old iPhone on the aftermarket. If you'd rather get the most use out of the iPhone over the longest period of time, then paying more up front means you won't outgrow the iPhone quite as fast.

Considering System Requirements

With the release of the fifth-generation iPhone operating system, iOS 5, you no longer need to think about your computer system requirements. In fact, iOS 5 makes it possible to live in a post-PC world—use an iPhone for your mobile device and an iPad for work requiring a larger screen, synchronize the two through Apple's iCloud, and everything works out beautifully.

However, you'll most likely want to synchronize your iOS 5 phone with either a Mac or a PC, since most people still own personal computers and want to keep all of their devices synced with the latest information. To do so, you'll want to have iTunes installed on your Mac or Windows PC in order to have control over the various synchronization options.

For the versions of iTunes available at the time of publication, the computer system requirements are as follows:

- A Mac computer running OS X 10.5, or a Windows computer with Windows 7, Vista, or XP Home or Professional with Service Pack 2 or newer.
- iTunes Store account.
- Broadband Internet access to use the iTunes Store.
- If you own an older computer, you may want to check the latest hardware requirements for iTunes at www.apple.com/itunes/download.

Buying Your iPhone

Once you've decided what iPhone model to buy (Figure 1–1), you're probably ready to pull out your credit card and buy that phone as quickly as possible. So, where you should buy it? At an AT&T store or at an Apple Store? A "big box" store like Best Buy? How about a discount store like Target or Walmart? Or should you purchase it online? You might be surprised to learn that your choice does matter.



Figure 1–1. *The Apple iPhone 4S (bottom) and iPhone 4 (top) are typical of the models of iPhones available at any particular point in time.*

Although it's possible to purchase an iPhone from any number of online stores, I recommend buying your iPhone in person at a store. You can ask questions. You can make human connections. You can have your iPhone activated and ready for calling when you leave the store. If something goes wrong with your purchase, you have a person who's there to help you work through it.

The sad fact of the matter is that a significant, although small, percentage of iPhone purchases go awry. Some people end up with a screen flaw, such as dead screen pixels. It's not an uncommon problem, and if found soon after purchase, it may involve a trade-in for a new unit. Others may have problems with their antennas or with activating their service. The chances of resolving these issues may be better if you have a real person to help.

As for the question of Apple or a carrier, I lean slightly toward buying at an Apple Store. It's an Apple product you're buying, and the Apple staff members are more knowledgeable about their products. Apple employees are happy to activate and set up your iPhone for you.

Apple Stores usually replace defective iPhones regardless of their point of purchase, and if you have problems with your phone service, you can go to any of the carrier's store locations whether you purchased your phone there or not; it's the service you're dealing with, not the physical iPhone unit.

Returns and Exchange Policies

The return policy for iPhones has improved since the release of the phone. If you're not happy with your iPhone purchase, you can return the undamaged phone to an Apple Store or the Apple online store within 30 days of purchase for a full refund. You must return the phone in the original packaging, including all the accessories, manuals, and documentation, and you won't be charged a restocking fee.

If you purchased your iPhone at a cellular carrier store, things aren't as rosy. A restocking fee will generally be applied to the return, unless you purchased it without service and the phone box was never opened.

As for discount and "big box" stores, the return and exchange policy varies. Before you make your purchase, be sure that you know exactly how returns and exchanges are handled. My personal preference is to get that policy in writing; it's usually printed out on the receipts that accompany your purchase.

Any return might involve an early termination fee (ETF) being levied against you by your cellular carrier. iPhones are available on many different carriers around the world. I recommend talking with your carrier or at least visiting their web site to determine the exact return policy and applicable ETF for your situation. An ETF can be quite expensive—for AT&T Wireless, canceling your contract after 30 days can cost you \$315.

Bringing Home Your iPhone

Once you buy your iPhone, it's time to take it home, unpack it, and set it up. iPhone packaging (see Figure 1-2) is a small work of art. The iPhone ships in a box containing the phone, a USB connector cable, a USB power adapter, those famous white earbuds, and a packet of documentation. Each of these items is important and will help you in your day-to-day use.



Figure 1–2. *The content of that nice iPhone box usually consists of a USB-to-dock connector cable (left), a USB power adapter (right), and a stereo headset (bottom). You can find your complimentary Apple sticker in a packet inside the box.*

Cable: The USB cable attaches your iPhone to either your computer or the USB power adapter. With past versions of the iPhone, the cable was useful for charging the battery and for activating and syncing the phone. Now it's possible to activate your phone without syncing to a computer, but you'll still need to use the cable for charging.

USB power adapter: The power adapter included with your iPhone plugs directly into the wall and allows you to charge your iPhone. It offers a single USB port. To use it, just connect your iPhone to the adapter using the USB cable. The adapter supplies the 5 volts required for powering USB devices. Third-party power adapters are also available for charging multiple devices or charging in an automobile.

Stereo headset (earbuds): The earbuds included with the iPhone differ slightly from those included with iPods. This stereo headset contains a built-in microphone and switch. The microphone allows you to take calls on your iPhone without holding the phone up to your ear, and the switch allows you to end calls as well as control music playback. The switch is also used to initiate the Siri Intelligent Assistant or Voice Control of your iPhone.

NOTE: The features of older or newer models of the iPhone may vary from what you see in the following feature overview.

iPhone 4S Feature Overview

The iPhone 4S is similar to earlier iPhones in terms of external features. The top of the iPhone houses a jack into which you can plug your earbuds and a Sleep/Wake button that is used to power on and off certain features. The bottom of your iPhone has a built-in speaker and microphone and an indented slot for connecting to a dock or USB cable. The iPhone's front has a receiver (earpiece) on top, which you use to listen to phone calls, a large touchscreen, and a single Home button. On the right side of the iPhone as you look at the screen is a Subscriber Identity Module (SIM) tray where your phone's SIM card is stored. You do not see the interactive screen shown in Figure 1–3 until you have activated your iPhone.



Figure 1-3. *iPhone 4S feature overview*

Activation at the Store

If you purchase an iPhone at an Apple or cellular service provider store in the Apple Stores in the United States and many other countries, you'll find that the activation process is taken care of in the store at the time you pay for the phone.

After you've made your choice as to the model of iPhone you want to purchase and have picked out accessories (cases, cables, and other goodies) to go with it, it's time to pay for the goods. When the Apple Store associate scans the iPhone box with an iOS-based point-of-sale device, the device immediately starts asking questions that you'll need to answer. Among those questions are the following:

- Are you a current customer of a particular mobile phone company that features the iPhone? If so, what is your telephone number?
- Are you coming over from another cell phone company? If so, what company, and what is your telephone number?
- What voice, data, and text plan would you like to sign up for?
- If you are not eligible for a phone upgrade on your existing plan, are you willing to pay the extra cost to buy the unsubsidized phone? (Many carriers subsidize the cost of the phone, knowing that you'll more than pay them back in your monthly subscription fees.)

In the case of an existing iPhone owner upgrading to a newer iPhone, the point-of-sale device checks your existing phone number and immediately lets the Apple Store associate know whether you're eligible for an upgrade. There's usually a nominal fee associated with the upgrade, and you are asked whether you want to accept that fee. The associate then displays your existing voice, data, and text plans, and you are asked whether you want to stay with those plans or change to a different plan. Of course, you'll also need to swipe the credit card that you'll use to pay for the phone and the plan, and your signature is required on the point-of-sale device.

After you agree to the terms and conditions of the carrier's plan and the use of Apple's hardware and software, your new iPhone is activated. Note that if you have an existing phone, the service to it is cut off immediately.

Activating your iPhone at an Apple or a carrier store has another benefit. Most of the stores have a set of cables and special software that are used to transfer all your settings, data, addresses, photos, and more from your existing phone to the iPhone. This is especially important if you are getting your first iPhone and coming over from another phone platform.

Until the iPhone has been fully activated, you are not able to make calls except for emergency (911) calls. With iOS 5, activation can now be done completely on your iPhone without requiring synchronization to a computer. In the next section, I describe how to activate your phone through iTunes on a computer, and the "PC-free" activation follows that.

Preparing for Activation Through iTunes

You have unpacked your iPhone but haven't yet connected it to iTunes. Now is a good time to review the data on your computer. When your iPhone is activated for the first time, it synchronizes with iTunes and, depending on your computer, to your e-mail accounts, your calendars, and so forth. Before you begin, here are some items you may want to review and clean up so your iPhone begins life with the freshest possible data:

Contacts: The iPhone can sync with Microsoft Outlook 2007 or 2010 on Windows, Address Book, Outlook or Entourage on a Macintosh, and Yahoo! Address Book on the Internet. To prepare for your first sync, review your existing contacts, and make sure they're up-to-date with current phone numbers and e-mail addresses. If you use another program to manage contacts, consider migrating your contacts to one of these solutions. If you'd rather not, that's OK too. You can add contact information directly to your iPhone, although it's not as convenient as having the information automatically loaded for you.

Calendar: Your iPhone can synchronize with computer-based calendars just like it does with contacts. iPhone supports iCal, Outlook, Gmail, and Entourage calendars on the Mac and Outlook 2007 and 2010 calendars on Windows. Get your calendars into shape before your first synchronization, and you'll be ready to immediately manage your schedule both from your computer and from your iPhone.

E-mail: Your iPhone works with most e-mail providers including Yahoo! Mail, Gmail, AOL, and of course Apple's iCloud mail. If your e-mail provider uses the industry-standard POP3 and IMAP services, your service will work with iPhone. You may want to establish new accounts with these providers before you activate your iPhone. That way, they'll load onto your unit the first time you synchronize. You can always add new e-mail accounts later, but it's nice to have them all set up and available for use right away.

NOTE: iPhone owners who use Microsoft Exchange as an e-mail, contacts, and calendar server will be happy to hear that their phone can tie into a Microsoft Exchange ActiveSync server with no problems.

Media: Current iPhone models offer relatively small storage space when compared to, for example, iPod Classic's generous 160GB hard drive. To make the most of this limited space, set up playlists for your favorite songs and podcasts, and consider removing TV shows and movies from your device once you've watched them. You can store all of your media in iCloud and download it when needed, so why load all items onto your iPhone at once? Since, in all likelihood, you won't be able to synchronize your entire media library to your new iPhone because of storage constraints, invest time now in organizing your media to find those items you most want to have on hand.

Software and OS: You should update to iTunes 10.5 or newer before you attempt to activate your iPhone. And, if you're using a Macintosh, updating your computer to Mac OS X 10.7 "Lion" ensures that you'll be able to take advantage of all the latest features. It is possible to run iTunes 10.5 on a Mac running OS X 10.5.8, so that is the oldest version of the Mac operating system that is usable with the iPhone. You can download the latest version of iTunes from Apple at www.apple.com/itunes/download. Remember that the system requirements may change at any time, so be sure to check the web page mentioned earlier: www.apple.com/iphone/specs.html.

iTunes account: Apple requires a current iTunes account to activate your iPhone. If you do not already have one, you must sign up for a U.S. account with the iTunes Store. This requires a U.S. address and credit card. Here are the steps you'll need to follow in order to create that new iTunes account:

1. Launch the iTunes application, and wait for it to load.
2. Locate iTunes Store in the sidebar on the left side of the iTunes window. Click iTunes Store, and wait for the store window to load. Your Windows computer or Mac must be connected to the Internet for this to happen, since all storefront information is stored on Apple's servers.
3. Find and click the Sign In button in the top-right corner of the screen. iTunes displays the sign-in screen shown in Figure 1–4. If you currently have an iTunes account, enter your Apple ID and password, and then click the Sign In button to sign into iTunes. No iTunes account? Click the Create New Account button, and follow the remaining steps to create your iTunes account.

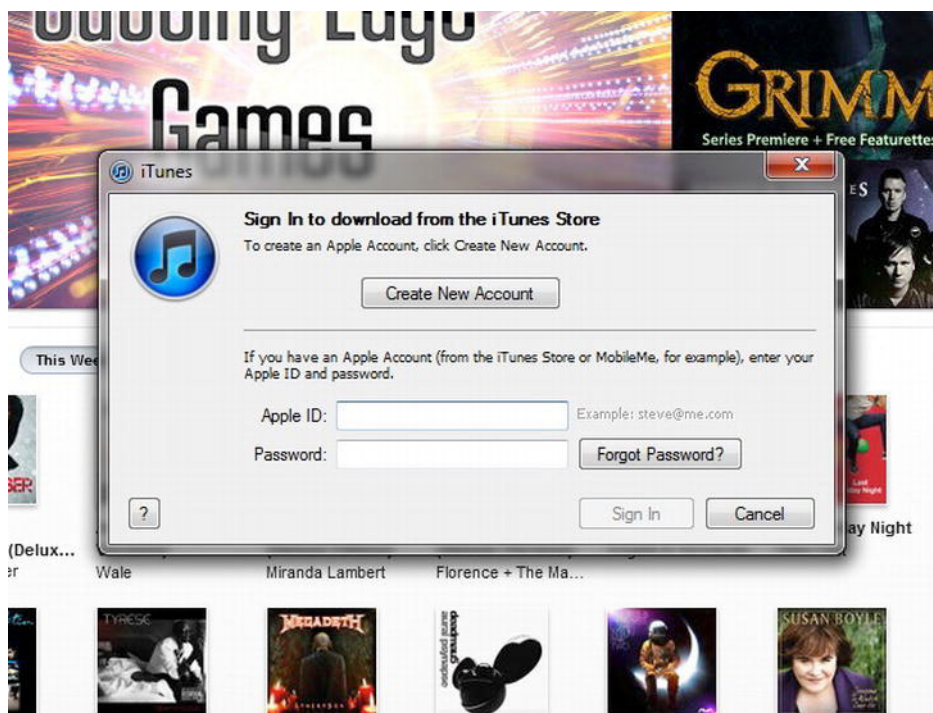


Figure 1–4. Use the iTunes Sign In window to access iTunes with your existing account or begin the process of creating a new account.

4. Click Create New Account. The screen clears and displays a message welcoming you to the iTunes Store. Click Continue to start the process of creating your account.

5. Review the terms of service, check the box that says “I have read and agree to the iTunes Terms and Conditions and Apple’s Privacy Policy,” and then click Continue. A new window appears prompting you to create your account.
6. Enter your e-mail address and a password. You must enter the password twice to verify that it was typed correctly. You also need to enter a security question—something only you would know the answer to, such as “What was the name of my third-grade teacher?” or “What color was my first car?” Supply the answer to that question in the next space, and then enter your date of birth. Finally, review the questions about opting into e-mail notifications, and then click Continue.
7. A payment information screen now appears. You’ll need to enter a valid form of payment, either a credit card or a PayPal account. For a credit card, you must enter the card number, CVV number, and billing information. Those must match in order to complete account creation. If you choose to use PayPal, your web browser launches, and you’re asked to log into the PayPal account to verify that you’re a valid member. Finally, you can also choose to use an iTunes gift card or certificate as a form of payment by entering the redemption code on the card. Once the payment information has been entered, click the Continue button.

After following these steps, iTunes displays a screen congratulating you on creating the new account, and you’ll also receive a confirmation e-mail at the address you specified during sign-up. The e-mail welcomes you to the iTunes Store and thoughtfully provides the customer service web address. In case you ever need it, that address is www.apple.com/support/itunes/.

Connecting Your iPhone to Your Computer

Once you have an active iTunes account, it’s time to unpack your iPhone and connect it to your computer. Follow along with these steps of connecting to your computer in preparation for service activation:

1. Remove the iPhone from its box, take off the plastic factory wrapping, and remove the USB-to-dock connector cable.
2. Locate the two ends of the USB-to-dock connector cable. One is thin and marked with a standard three-pronged USB symbol, while the other is wide and marked with a rectangle with a line inside of it.
3. Connect the thin end of the cable to a spare USB 2.0 port on your computer.
4. Orient your phone with the screen facing you and the Home button pointing toward you (see Figure 1–5).



Figure 1–5. Plug the USB-to-dock connector cable into the iPhone with the rectangle mark facing you.

5. Locate the universal dock connector on the bottom of your iPhone. It's that rectangular hole about an inch wide that is located under the Home button. Gently yet firmly push the cable into the dock connector without twisting or forcing the connection. iTunes launches, and your iPhone should automatically power on.

If your iPhone doesn't automatically power on and display either a white Apple logo or a Connect to iTunes message, press and hold the Sleep/Wake button on the top of the iPhone—it's the button on the top right of the iPhone. After a few seconds, the iPhone should wake up and display the white Apple logo as it powers on. If the iPhone doesn't respond with some sort of message on the display, contact the store where you purchased the phone.

Activating Your iPhone (Nonstore Version)

Until you activate your iPhone, you won't be able to use it for anything except calls to emergency services. All you'll see initially is a prompt directing you to connect to iTunes. Activating the iPhone involves nothing more than selecting a service plan and registering your phone with your cellular carrier. In theory, this process is simple, and it works properly for the vast majority of new iPhone owners. However, if you're porting a number from another carrier or selecting a less popular plan, it can take a while to get your iPhone "on the air."