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iOS 5 Software—including
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Why I started the Missing Manual series.

People learn best when information is engaging, clearly written, and funny. Unfortunately, most computer books read like dry catalogs. That's why I created the Missing Manuals. They're entertaining, unafraid to state when a feature is useless or doesn't work right, and—oh, by the way—written by actual writers. And on every page, we answer the simple question: "What's this feature for?"

David Pogue is the New York Times **tech columnist, a bestselling author, and the creator of the Missing Manual series.**

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iPhone

The Missing Manual

Fifth Edition

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Contents

The Missing Credits	ix
Introduction	1

Part 1: The iPhone as Phone

Chapter 1: The Guided Tour 7

Sleep Switch (On/Off)	8
Home Button	12
Screen.	15
Cameras and Flash	18
Sensors	19
Headphone Jack.	20
Silencer Switch, Volume Keys	20
SIM Card Slot	21
Microphone, Speakerphone, Connector	23
Antenna Band	24
In the Box	25
Seven Basic Finger Techniques	26
Charging the iPhone	29
Battery Life Tips.	30
The Home Screen	32
Notifications	34

Chapter 2: Typing, Editing & Searching. 41

The Keyboard.	41
Connecting a Real Keyboard.	53
Cut, Copy, Paste	54
The Definitions Dictionary	58
Spotlight: Global Search.	58

Chapter 3: Phone Calls & FaceTime 63

Dialing from the Phone App	63
The Favorites List.	64
The Recents List	67
The Contacts List.	69
The Keypad	79
Answering Calls	80
Fun with Phone Calls	82
FaceTime.	87

Chapter 4: Speech Recognition—and Siri 91

Voice Control (iPhone 3GS, iPhone 4)	92
iPhone 4S: Speak to Type	96
iPhone 4S: Siri	103
Advanced Siri	120

Chapter 5: Voicemail, Texting & Other Phone Tricks. 125

Visual Voicemail	125
Text Messages (SMS)	130
iMessages	139
More Free Text Messages	141
Chat Programs	142
Call Waiting	142
Call Forwarding	144
Caller ID.	144
Bluetooth Earpieces and Car Kits	145
Custom Ringtones	147
GarageBand Ringtones	148
Talking Buttons—and Accessibility	149

Part 2: Pix, Flix & Apps**Chapter 6: The iPhone as iPod 159**

List Land	160
Playlists	160
Genius.	163
Artists, Songs, Albums.	164
Cover Flow.	167
The Now Playing Screen (Music)	168
Controlling Playback (Music)	169
Multi(music)tasking.	173
Bluetooth Stereo Headphones	174
Familiar iPod Features	176
The iTunes Store	178
The Videos App.	181

Chapter 7: Taking Photos, Shooting Video.	185
Taking Still Photos	185
Recording Video	195
Capturing the Screen.	200
Photo Stream	201
Opening Photos	206
Editing Photos	216
Printing Photos.	220
Photo Wallpaper	220
Three Ways to Send Photos or Videos	222
Headshots for Contacts	225
Geotagging	226
Chapter 8: All About Apps	229
Welcome to App Heaven	229
Two Ways to the App Store.	230
Organizing Your Apps	236
Folders	240
App Preferences	243
App Updates	243
How to Find Good Apps.	244
Multitasking.	247
AirPrint: Printing from the Phone.	251
Troubleshooting Apps	252
Chapter 9: The Built-In Apps.	255
Calculator	256
Calendar	257
Clock.	267
Compass.	272
Find My Friends	274
Game Center	279
iBooks.	283
Maps.	291
Newsstand.	304
Notes	307
Reminders.	309
Stocks.	314
Voice Memos	317
Weather	319
YouTube	320

Part 3: The iPhone Online**Chapter 10: Getting Online 325**

A Tale of Three Networks	326
Sequence of Connections	328
The List of Hotspots.	329
Commercial Hotspots	330
How to Turn Off 3G (AT&T iPhones)	331
Airplane Mode and WiFi Off Mode	331
Personal Hotspot (Tethering)	332
Twitter.	336

Chapter 11: The Web. 337

Safari Tour	337
Zooming and Scrolling	339
The Address Bar	341
Bookmarks.	343
The Reading List	346
Web Clips	347
The History List.	348
Tapping Links.	349
Saving Graphics	349
AutoFill	350
Searching the Web	351
Manipulating Multiple Pages	352
Reader.	354
RSS: The Missing Manual	356
Web Applications	359

Chapter 12: Email. 361

Setting Up Your Account	362
The “Two-Mailbox Problem”	365
Downloading Mail.	367
What to Do with a Message	370
Writing Messages	379
Surviving Email Overload	384

Part 4: Connections**Chapter 13: Syncing with iTunes 387**

The iTunes Window: What's Where	388
Five Ways to Get Music and Video	389
Playlists	394
Authorizing Computers	396
TV, Movies, and Movie Rentals	396
Automatic Syncing—with a Cable	397
12 Tabs to Glory	400
Info Tab (Contacts, Calendars, Settings)	402
The Apps Tab	409
The Tones Tab	410
The Music Tab	410
The Movies and TV Shows Tabs	412
The Podcasts and iTunes U Tabs	413
The Books Tab	413
The Photos Tab (Computer→iPhone)	414
One iPhone, Multiple Computers	417
One Computer, Multiple iPhones	418
One-Way Emergency Sync	419
WiFi Sync	420
Backing Up the iPhone	421

Chapter 14: iCloud 423

What iCloud Giveth	423
iCloud Sync	425
Photo Stream	427
Find My iPhone	428
Email	431
Video, Music, Apps: Locker in the Sky	431
iTunes Match	433
The Price of Free	434

Chapter 15: The Corporate iPhone 435

The Perks	435
Setup	437
Exchange + Your Stuff	441
A Word on Troubleshooting	446
Virtual Private Networking (VPN)	446

Chapter 16: Settings	449
Airplane Mode	450
WiFi	450
Carrier	451
Notifications	452
Location Services	452
Sounds	454
Brightness	456
Wallpaper	456
General	457
iCloud	468
Mail, Contacts, Calendars	468
Twitter	473
Phone	474
FaceTime	475
Safari	476
Messages	478
Music	479
Video	479
Photos	479
Notes	480
Store	481
App Preferences	482

Part 4: Appendixes

Appendix A: Signup and Setup	485
Buying a New iPhone	485
A New iPhone: "PC-Free" Setup	488
Upgrading an Older iPhone to iOS 5	491
Software Updates	491

Appendix B: Accessorizing the iPhone	493
Proper Shopping for the iPhone	493
Protecting Your iPhone	495
Making the iPhone Heard	497
Power to the iPhone	499
Health & Fitness	500
Snap-On Accessories	501
Video Output	502
iPod Accessories	502

Appendix C: Troubleshooting & Maintenance	503
First Rule: Install the Updates	503
Reset: Six Degrees of Desperation	504
iPhone Doesn't Turn On	506
Doesn't Show Up in iTunes	507
Phone and Internet Problems	507
Email Problems	508
Problems that Aren't Really Problems	509
iPod Problems	510
Warranty and Repair	511
The Battery Replacement Program	512
Where to Go from Here	512
Index	519

The Missing Credits



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Thanks to David Rogelberg and Tim O'Reilly for believing in the idea, and above all, to my family. They make these books—and everything else—possible.

—David Pogue

The Missing Manual Series

Missing Manual books are superbly written guides to computer products that don't come with printed manuals (which is just about all of them). Each book features a handcrafted index; cross-references to specific page numbers (not just "See Chapter 14"); and RepKover, a detached-spine binding that lets the book lie perfectly flat without the assistance of weights or cinder blocks.

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Introduction

How do you make the point that the iPhone has changed the world? The easy answer is “use statistics”—100 million sold, 500,000 downloadable programs on the iPhone App Store, 15 billion downloads.... Trouble is, those statistics get stale almost before you’ve finished typing them.

Maybe it’s better to talk about the aftermath. How since the iPhone came along, cell carriers (AT&T, Verizon, Sprint, and so on) have opened up the calcified, conservative way they used to consider new cellphone designs. How every phone and its brother now have a touchscreen. How BlackBerry, Google (Android) phones, and Windows 7 phones all have their own app stores. How, in essence, everybody wants to be the iPhone.

The thing is, they’ll never quite catch up technologically, because Apple is always moving, too. In October 2011, for example, it introduced the fifth iPhone model, the iPhone 4S. It looks identical to the previous model, the iPhone 4—but the guts are quite a bit different. The processor is much faster, the camera is much better, and there’s speech recognition. Not just dictation—you can actually *tell the phone what to do*.

More importantly, there’s a new, free version of the iPhone’s software, called iOS 5. (Why not “iPhone OS” anymore? Because the same operating system runs on the iPad and the iPod Touch. It’s not just for iPhones anymore, and saying “the iPhone/iPad/iPod Touch OS” takes too long.)

iOS 5 adds all kinds of new features people have been pining for: direct access to the camera from the Lock screen, a Notification Center that lists your messages, calls, and appointments with one finger-swipe, and so on.

Why is it so important? Because you can run iOS 5 on *older* iPhone models (the 4 and the 3GS) without having to buy the iPhone 4S. This book covers all three phones that can run the iOS 5 software: the iPhone 3GS, the iPhone 4, and the iPhone 4S.

About the iPhone

So what's the iPhone?

Well, it's a cellphone, obviously. But it's also a full-blown iPod, complete with a dazzling screen for watching videos. And the iPhone is also the best pocket Internet viewer you've ever seen. It shows fully formatted email (with attachments, thank you) and displays entire Web pages with fonts and design intact. It's tricked out with a tilt sensor, a proximity sensor, a light sensor, WiFi, Bluetooth, GPS, a gyroscope, and that amazing multitouch screen.

Furthermore, it's a calendar, an address book, a calculator, an alarm clock, a stopwatch, a stock tracker, a traffic reporter, an RSS reader, and a weather forecaster. It even stands in for a flashlight and, with the screen off, a pocket mirror.

But don't forget the App Store. Thanks to the hundreds of thousands of add-on programs that await there, the iPhone is also a fast, wicked-fun pocket computer. All those free or cheap programs can turn it into a medical reference, a musical keyboard, a time tracker, a remote control, a sleep monitor, a tip calculator, an ebook reader, and so on. And whoa, those games! Thousands of them, with smooth 3-D graphics and tilt control.

All of this sends the iPhone's utility and power through the roof. Calling it a phone is practically an insult.

(Apple probably should have called it an "iPod," but that name was taken.)

About the Carriers

For four years, the iPhone was exclusively an AT&T phone. But in early 2011, Verizon got the iPhone 4. Then, in the fall of 2011, AT&T, Verizon, *and* Sprint got the iPhone 4S.

In general, these companies' iPhone models look and work identically. There are just a couple of tiny differences to be aware of.

First, Verizon and Sprint rely on an older, more established cellular network type called CDMA. AT&T, on the other hand, uses a network type known as GSM.

Not many other countries use CDMA, but 220 countries and territories use GSM, including Europe. That's why the Verizon iPhone 4 doesn't work in most other countries.

The iPhone 4S, though, is a world phone. It contains both CDMA and GSM circuitry, so even the Verizon and Sprint models work in any other country.

If you want your iPhone to retain its usual phone number while you're traveling, you can pay Verizon/Sprint/AT&T some steep roaming charges. Otherwise, you can temporarily replace your original SIM card with one you've rented in your new country. In both cases, you have to call your main carrier ahead of time to get the OK.

There's one more GSM/CDMA difference to be aware of: You can't talk on a CDMA phone (Verizon or Sprint) while you're online. That is, if you're on a call, you can't simultaneously check a Web site or send email over the cellular network.

It's not such a big deal. Continuing processes like downloads and GPS navigation resume automatically when you end your call. You can still send and get text messages when you're on a call. And none of this applies when you're in a WiFi hotspot; in that case, you can call and surf simultaneously, no problem.

About This Book

By way of a printed guide to the iPhone, Apple provides only a fold-out leaflet. It's got a clever name—"Finger Tips"—but to learn your way around, you're expected to use an electronic PDF document. This PDF covers the basics well, but it's largely free of details, hacks, workarounds, tutorials, humor, and any acknowledgment of the iPhone's flaws. You can't mark your place, underline, or read it in the bathroom.

The purpose of this book, then, is to serve as the manual that should have accompanied the iPhone. (If you have an original iPhone or iPhone 3G, you really need one of this book's earlier editions. If you have an iPhone 3GS or iPhone 4, this book assumes that you've installed the free iOS 5 software; see Appendix A.)

Writing computer books can be an annoying job. You commit something to print, and then—bam—the software gets updated or revised, and suddenly your book is out of date.

That will certainly happen to this book. The iPhone is a *platform*. It's a computer, so Apple routinely updates and improves it by sending it new software bits. To picture where the iPhone will be five years from now, just look at how much better, sleeker, and more powerful today's iPod is than the original 2001 black-and-white brick.

Therefore, you should think of this book the way you think of the first iPhone: as a darned good start. To keep in touch with updates we make to it as developments unfold, drop in to the book's Errata/Changes page. (Go to www.missingmanuals.com, click this book's name, and then click [View/Submit Errata](#).)

Tip Writing a book about the iPhone is a study in exasperation, because the darned thing is a moving target. Apple updates the iPhone's software fairly often, piping in new features, bug fixes, speed-ups, and so on.

This book covers the iPhone's 5.0.1 software. There will be a 5.0.2, and a 5.0.3, and so on. Check this book's page at www.missingmanuals.com to read about those updates when they occur.

About the Outline

iPhone: The Missing Manual is divided into five parts, each containing several chapters:

- Part 1, **The iPhone as Phone**, covers everything related to phone calls: dialing, answering, voice control, voicemail, conference calling, text messaging, MMS, and the Contacts (address book) program. It's also where you can read about FaceTime, the iPhone's video-calling feature, and Siri, the "virtual assistant" in the iPhone 4S.
- Part 2, **Pix, Flix & Apps**, is dedicated to the iPhone's built-in software programs, with a special emphasis on its multimedia abilities: playing music, podcasts, movies, TV shows, and photos; capturing photos and videos; navigating with GPS; reading ebooks; and so on. These chapters also cover app management: installing, organizing, and quitting apps—and, of course, the iPhone's special version of multitasking.
- Part 3, **The iPhone Online**, is a detailed exploration of the iPhone's third talent: its ability to get you onto the Internet, either over a WiFi hotspot connection or via the cellular network. It's all here: email, Web browsing, and *tethering* (that is, letting your phone serve as a sort of Internet antenna for your laptop).
- Part 4, **Connections**, describes the world beyond the iPhone itself—like the copy of iTunes on your Mac or PC that can fill up the iPhone with music, videos, and photos, and syncing the calendar, address book, and mail settings. These chapters also cover the iPhone's control panel, the

Settings program; and how the iPhone syncs wirelessly with corporate networks using Microsoft Exchange ActiveSync—or with your own computers using Apple’s iCloud service.

- Part 5, **Appendixes**, contains three reference chapters. Appendix A walks you through the setup process; Appendix B is a tour of accessories like chargers, car adapters, and carrying cases; and Appendix C is a master compendium of troubleshooting, maintenance, and battery information.

About→These→Arrows

Throughout this book, and throughout the Missing Manual series, you’ll find sentences like this one: Tap **Settings**→**Airplane Mode**→**On**. That’s shorthand for a much longer instruction that directs you to open three nested screens in sequence, like this: “Tap the **Settings** button. On the next screen, tap **Airplane Mode**. On the screen after that, tap **On**.” (In this book, tappable things on the screen are printed in orange to make them stand out.)

Similarly, this kind of arrow shorthand helps to simplify the business of choosing commands in menus on your Mac or PC, like **File**→**Print**.

About MissingManuals.com

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The Guided Tour

If you'd never seen all the videos and photos of the iPhone, and you found it lying on someone's desk, you might not guess it was a phone (let alone an iPod/Web browser/alarm clock/stopwatch/voice recorder/musical instrument/compass). You can't see any antenna, mouthpiece, or earpiece—and, goodness knows, there are no number keys for dialing.

It's all there, though, hidden inside this sleek glass-and-metal slab.



For the rest of this book, and for the rest of your life with the iPhone, you'll be expected to know what's meant by, for example, "the Home button" and "the Sleep switch." A guided tour, therefore, is in order. Keep hands and feet inside the tram at all times.

Sleep Switch (On/Off)

On the top-right edge of the iPhone, you'll find a silver metal button shaped like a dash. This, ladies and gents, is the Sleep switch.



It has several functions:

- **Sleep/Wake.** Tapping it once puts the iPhone to sleep—into Standby mode, ready for incoming calls but consuming very little power. Tapping it again turns on the screen so it's ready for action.
- **On/Off.** The same switch can also turn the iPhone off completely so it consumes no power at all; incoming calls get dumped into voicemail. You might turn the iPhone off whenever you're not going to use it for a few days.

To turn the iPhone off, press the Sleep switch for 3 seconds. The screen changes to say *slide to power off*. Confirm your decision by placing a fingertip on the right-pointing red arrow and sliding to the right. The device shuts off completely.

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