My Android Phone





Craig James Johnston

FREE SAMPLE CHAPTER











My Android Phone



Craig James Johnston



800 East 96th Street, Indianapolis, Indiana 46240 USA

My Android™ Phone

Copyright © 2016 by Pearson Education, Inc.

All rights reserved. No part of this book shall be reproduced, stored in a retrieval system, or transmitted by any means, electronic, mechanical, photocopying, recording, or otherwise, without written permission from the publisher. No patent liability is assumed with respect to the use of the information contained herein. Although every precaution has been taken in the preparation of this book, the publisher and author assume no responsibility for errors or omissions. Nor is any liability assumed for damages resulting from the use of the information contained herein.

ISBN-13: 978-0-7897-5479-0 ISBN-10: 0-7897-5479-7

Library of Congress Control Number: 2015939337

First Printing: July 2015

Trademarks

All terms mentioned in this book that are known to be trademarks or service marks have been appropriately capitalized. Que Publishing cannot attest to the accuracy of this information. Use of a term in this book should not be regarded as affecting the validity of any trademark or service mark.

Warning and Disclaimer

Every effort has been made to make this book as complete and as accurate as possible, but no warranty or fitness is implied. The information provided is on an "as is" basis. The author and the publisher shall have neither liability nor responsibility to any person or entity with respect to any loss or damages arising from the information contained in this book.

Special Sales

For information about buying this title in bulk quantities, or for special sales opportunities (which may include electronic versions; custom cover designs; and content particular to your business, training goals, marketing focus, or branding interests), please contact our corporate sales department at corpsales@pearsoned.com or (800) 382-3419.

For government sales inquiries, please contact governmentsales@pearsoned.com.

For questions about sales outside the U.S., please contact international@pearsoned.com.

Editor-in-Chief

Greg Wiegand

Acquisitions Editor

Michelle Newcomb

Development Editor

Charlotte Kughen

Managing Editor

Kristy Hart

Senior Project Editor

Lori Lyons

Copy Editor

Karen Annett

Senior Indexer

Cheryl Lenser

Proofreader

Debbie Williams

Technical Editors

Vince Averello

Christian Kenyeres Chaim Krause

Editorial Assistant
Cindy Teeters

Senior Compositor

Gloria Schurick

Contents at a Glance

Prologue	Getting to Know Your Android Phone	3
Chapter 1	Phone, SMS, and MMS	53
Chapter 2	Contacts	83
Chapter 3	Audio, Video, and Movies	109
Chapter 4	Connecting to Bluetooth, Wi-Fi, and VPNs	167
Chapter 5	Email	195
Chapter 6	Browsing the Web with Chrome	225
Chapter 7	Google Now and Navigation	245
Chapter 8	Working with Date, Time, and Calendar	261
Chapter 9	Working with Android Apps	281
Chapter 10	Customizing Your Android Phone	295
Chapter 11	Google Wallet	323
Chapter 12	Books and Magazines	337
Chapter 13	Maintaining Your Android Phone and	
	Solving Problems	351
Chapter 14	Taking and Managing Pictures	365
Chapter 15	Using Your Android Phone with an Android	
	Wear Smartwatch	413
	Index	443

Table of Contents

Getting to Know Your Android	Phone 3
Your Android Phone's Externa	al Features
Front	
Back	
First-Time Setup	
Fundamentals of Android 5.0	(Lollipop)12
The Lock Screen	1
The Home Screen	10
The System Bar	20
Using Your Touchscreen	2
Using Your Keyboard	2
Edit Text	29
Menus	30
Switch Between Apps	3
Run Multiple Apps on the (Samsung Only)	Screen at the Same Time
	Your Phone3
= -	39
Add a Phone Guest User	40
Installing Synchronization So	ftware4
Install Android File Transfe	er (Apple Mac OS X)4
Install Google Music Mana	ger (Apple Mac)4
Install Google Music Mana	nger (Windows)4
Configure Music Manager	(Windows and Apple Mac)4
Freeing Up Memory	50
Move Apps	50
Phone, SMS, and MMS	53
	5
	54
	62
	6
	60
	6

Using SMS and MMS	71
Get to Know the Messenger App	72
Manage Settings for the Messenger App	73
Compose a Message	75
Attach a File to a Message	77
Receive a Message	79
Contacts	83
Adding Accounts	83
Add a Work Email Account	85
Navigating Contacts	90
Navigate Contacts	90
Adding and Managing Contacts	91
Add Contacts from an Email	92
Add a Contact Manually	93
Add a Contact from a vCard	94
Edit a Contact	96
Add a Contact Photo	97
Customize Contacts Settings	99
Manage Contact Groups	100
Choose Contacts to Display	101
Join and Separate Contacts	103
Adding a Contact to Your Home Screen	105
Audio, Video, and Movies	109
Using Google Play Music	109
Find Music	110
Purchase Music	111
Add Your Existing Music to Google Play M	usic112
Use the Google Play Music App	115
Work with Instant Mixes	121
Control Playback	123
Work and Listen to Music	125
Listen to Music with No Wireless Coverage	e 126
Change Google Play Music Settings	127
Recording Videos with the Camera Application	on 131
Record Video	131
Change Video Settings	133

	Buy and Rent Movies	143
	Buy TV Shows	146
	Use the Play Movies & TV App	148
	Copy Videos from Your Computer	151
	Watching Videos with YouTube	154
	Navigate the YouTube Main Screen	155
	Navigate the YouTube App	156
	Play a Video	158
	Upload a Video	159
	Change YouTube Settings	162
ır	necting to Bluetooth, Wi-Fi, and VPNs	167
	Connecting to Bluetooth Devices	167
	Pair with a New Bluetooth Device	168
	Manage Extra Bluetooth Options	170
	Change Bluetooth Device Options	171
	Working with Wi-Fi	172
	Connect to Wi-Fi	172
	Adjust Wi-Fi Network Options	175
	Set Advanced Wi-Fi Options	176
	Managing Virtual Private Networks (VPNs)	178
	Add a VPN	179
	Connect to a VPN	181
	Managing Near Field Communications (NFCs)	184
	Enable NFC and Android Beam	185
	Use Android Beam to Send Links to Content	187
	Use Android Beam to Send Real Files	188
	Managing Cellular Network Settings	189
	Change Mobile Settings	189
	Using Your Mobile Wi-Fi Hotspot	191
	Set Up and Start Your Mobile Wi-Fi Hotspot	191

 Play Videos
 134

 Share Videos
 137

 Delete Videos
 139

 Change Photos App Settings
 140

 Managing Movies and TV Shows
 143

5	Email	195
	Adding Accounts to Gmail	196
	Start Setting Up Accounts	196
	Add a Google Account	197
	Add a New POP3 or IMAP Account	198
	Add a Work Email Account	202
	Using the Gmail App	205
	Navigate the Gmail App	206
	Compose an Email	208
	Read an Email	211
	Customize Gmail App Settings	215
6	Browsing the Web with Chrome	225
	Navigating with Chrome	225
	Get Started with Chrome	226
	Use Web Page and Chrome Options	228
	Master Chrome Browser Tricks	230
	Managing Bookmarks and History	233
	Manage Bookmarks	233
	Manage Browsing History	235
	Customizing Browser Settings	236
7	Google Now and Navigation	245
	Using Google Now	245
	Use Google Now	247
	Set Up Google Now	248
	Navigating with Google Maps	252
	Get Directions	254
	Configure Google Maps Settings	256
	Use Offline Google Maps	258
8	Working with Date, Time, and Calendar	261
	Setting the Date and Time	261
	Using the Clock App	263
	Navigate the Clock App	263
	Manage Alarms	264
	Adjust Clock Settings	

	Using the Calendar App	268
	Get to Know the Calendar Main Screen	268
	Adjust Calendar Settings	270
	Use Quick Responses	273
	Add a New Event	274
	Respond to an Event Invitation	277
•	Working with Android Apps	281
	Configuring Google Wallet	281
	Finding and Installing Apps	282
	Navigate Google Play	282
	Install Free Apps	284
	Buy Apps	286
	Manage Apps	287
	Adjust Google Play Store Settings	289
)	Customizing Your Android Phone	295
	Changing Your Wallpaper	295
	Select Wallpaper from Pictures in the Photos Ap	р 296
	Use Live Wallpaper	297
	Choose Wallpaper	299
	Changing Your Keyboard	300
	Choose a New Keyboard	300
	Adding Widgets to Your Home Screens	303
	Add a Widget	303
	Remove and Move a Widget	305
	Customizing Language	306
	Choose a Different Language	306
	Adjusting Accessibility Settings	307
	Manage Accessibility Settings	307
	Modifying Sound and Notification Settings	310
	Modify Sound and Notification Settings	310
	Changing Display Settings	313
	Changing Security Settings	315

11	Google Wallet	323
	Setting Up Google Wallet	324
	Adding Methods of Payment	324
	Add a Credit Card or Checking Account	325
	Using Loyalty and Gift Cards	326
	Add an Existing Gift Card	326
	Add an Existing Loyalty Card	328
	Using Google Wallet	331
	Changing Google Wallet Settings	331
	Sending and Receiving Money	333
	Send Money	333
	Request Money	334
12	Books and Magazines	337
	Purchasing Books	337
	Navigate the Play Books App	338
	Buy Books	339
	Reading Books	340
	Purchasing Magazines and Newspapers	345
	Purchase or Subscribe to Publications	346
	Read a Publication	348
13	Maintaining Your Android Phone and	
	Solving Problems	351
	Updating Android	351
	Optimizing Battery Life	353
	Look After the Battery	353
	Determine What Is Using the Battery	354
	Controlling Apps and Memory	355
	Checking and Controlling Data Usage	358
	Set a Data Usage Warning	360
	Set a Data Usage Limit	361
	Caring for the Android Phone's Exterior	362
	Getting Help with Your Android Phone	362

14	Taking and Managing Pictures	365
	Using the Camera	365
	Adjust Camera Settings	368
	Take Regular Pictures	371
	Take Panoramic Pictures	372
	Take Photo Sphere (360 Panoramic) Pictures	375
	Take Lens Blur Pictures	377
	Viewing and Managing Your Photos	383
	Navigate Photos	383
	Delete Photo Albums	385
	Review and Share Pictures	386
	Edit Pictures	387
	Modify Photos App Settings	402
	Managing Photos with Your Computer	403
	Manually Manage Pictures	404
	Automatically Manage Pictures on a Mac	407
	Synchronizing Pictures Using Your Google Cloud	408
15	Using Your Android Phone with an Android Wear Smartwatch	413
	Setting Up Your Android Wear Watch	413
	Choosing Settings for Your Android Wear Watch	
	Navigate the Android Wear App	
	Using Your Android Wear Watch	
	Navigate Your Watch	
	Use Your Watch and Run Watch Apps	433
	Use Watch Functions and Watch Apps	

Index 443

About the Author

Craig James Johnston has been involved with technology since his high school days at Glenwood High in Durban, South Africa, when his school was given some Apple][Europluses. From that moment, technology captivated him, and he has owned, supported, evangelized, and written about it.

Craig has been involved in designing and supporting large-scale enterprise networks with integrated email and directory services since 1989. He has held many different IT-related positions in his career ranging from sales support engineer to mobile architect for a 40,000-smartphone infrastructure at a large bank.

You can see Craig's previously published work in his books *Professional BlackBerry*, and many books in the *My* series, covering devices from Apple, BlackBerry, HTC, Google, Motorola, and Samsung.

Craig also enjoys high-horsepower, high-speed vehicles and tries very hard to keep to the speed limit while driving them.

Originally from Durban, South Africa, Craig has lived in the United Kingdom, the San Francisco Bay Area, and New Jersey, where he now lives with his wife, Karen, and a couple of cats.

Craig would love to hear from you. Feel free to contact Craig about your experiences with *My Android Phone* at http://www.CraigsBooks.info.

All comments, suggestions, and feedback are welcome, including positive and negative.

Dedication

"I have noticed even people who claim everything is predestined, and that we can do nothing to change it, look before they cross the road."

—Stephen Hawking

Acknowledgments

I would like to express my deepest gratitude to the following people on the *My Android Phone* team who all worked extremely hard on this book:

Michelle Newcomb, my acquisitions editor who worked with me to give this project an edge as well as technical editors Vince Averello, Christian Kenyeres, and Chaim Krause, development editor Charlotte Kughen, project editor Lori Lyons, copy editor Karen Annett, compositor Gloria Schurick, indexer Cheryl Lenser, and proofreader Debbie Williams.

We Want to Hear from You!

As the reader of this book, you are our most important critic and commentator. We value your opinion and want to know what we're doing right, what we could do better, what areas you'd like to see us publish in, and any other words of wisdom you're willing to pass our way.

We welcome your comments. You can email or write to let us know what you did or didn't like about this book—as well as what we can do to make our books better.

Please note that we cannot help you with technical problems related to the topic of this book.

When you write, please be sure to include this book's title and author as well as your name and email address. We will carefully review your comments and share them with the author and editors who worked on the book.

Email: feedback@quepublishing.com

Mail: Que Publishing

ATTN: Reader Feedback 800 East 96th Street Indianapolis, IN 46240 USA

Reader Services

Visit our website and register this book at quepublishing.com/register for convenient access to any updates, downloads, or errata that might be available for this book.



In this chapter, you become familiar with the external features of a typical Android phone and the basics of getting started with the Android operating system. Topics include the following:

- → Your Android phone's external features
- → Fundamentals of Android 5.0 (Lollipop)
- → First-time setup
- → Synchronization software



Getting to Know Your Android Phone

You can start to get to know more about your Android phone by examining the external features, device features, and how Google's latest operating system—Android 5.0 (Lollipop)—works.

One important thing to remember about any Android phone bearing the Nexus name is that it is a pure Android phone with no wireless carrier or vendor modifications. This book refers to this unchanged version of Android, but where appropriate some vendor-specific information is included, too.

Your Android Phone's External Features

Becoming familiar with the external features of your Android phone is a good place to start because you will be using them often.

Front Light sensor Proximity sensor Front camera Say "Ok Google" . **Touchscreen Home button Back button** Overview button

Proximity sensor Detects when you place your phone against your head to talk, which causes it to turn off the screen so that your ear doesn't inadvertently activate things on the screen.

Light sensor Normally placed near the front camera, it adjusts the brightness of the screen based on the brightness of the ambient light.

Front camera Front-facing camera that you can use for video chat, taking self-portraits, and even unlocking your Android phone using your face.

Touchscreen The Android phone has a screen that incorporates 10-finger capacitive touch. The exact physical dimensions, technology used, and resolution of the screen differ depending on which vendor makes and sells the phone.

Back button Tap to go back one screen when using an application or menu. This virtual button is actually on the screen; however some vendors place a touch-sensitive Back button below the screen.

Overview button Previously called the Recent Apps button, tap it to see a list of recently used apps and switch between them. This virtual button is actually on the screen. Some vendors, such as Samsung, HTC, and others, modify Android so that this virtual button is removed. These vendors normally require that you touch and hold the Home button to see recent apps or they have a dedicated Recent Apps/Overview button under the screen.

Home button Tap to go to the Home screen. The application that you are using continues to run in the background. This virtual button is actually on the screen; however, some vendors, such as Samsung, HTC, and others, place an actual physical Home button below the screen.

Menu button Some vendors, such as Samsung, HTC, and others, keep the Menu button even though it is a hold-over from a much older version of Android. Tap the Menu button to see a context-aware menu of options based on the screen or app you are using.

Button Placement

Google creates Android, and in older versions of Android, many devices that ran Android used physical buttons and even featured trackballs for navigation. More recent versions of Android have moved the physical buttons onto the screen as virtual buttons. Android also no longer has a Menu button (virtual or not), opting for a Menu icon in each app. However some vendors, such as Samsung, HTC, and others, have chosen to implement buttons using their own design. Samsung has chosen to keep the physical Home button on all its devices. Samsung (as well as some other vendors) also has kept the Back and Overview/Recent Apps buttons below the screen. Depending on the model of phone you own, you may have an Overview/Recent Apps button or a Menu button. These are some variations you might see.







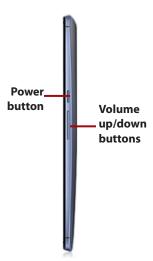
Microphone Used for video and audio calls (using apps such as Skype or Google Talk) and recording video. The actual placement of this microphone differs between manufacturers. This microphone is also used for noise cancelling while you are on a phone call.

3.5 mm headphone jack Used with third-party headsets so that you can enjoy music and talk on the phone. The actual placement of the headphone jack differs based on the manufacturer of the phone.

Micro-USB port Used to synchronize your Android phone to your desktop computer and charge it. The placement of the Micro-USB port differs based on the manufacturer of the phone. Some manufacturers are starting to include a Micro-USB 3 port, which is slightly longer. Your Android phone's Micro-USB port may include technology that allows you to plug your phone directly into your TV to play content on it.

LED camera flash Illuminates the area when you're taking photos or recording video. In this example the LED flash is contained in the ring around the camera; however, the vast majority of Android phones have an LED flash either alongside or under the camera.

Rear camera Rear-facing camera. The exact lens type, sensor resolution, and aperture differ based on who makes and sells the phone.



Power button Press once to wake your Android phone. Press and hold for 1 second to reveal a menu of choices. Depending on the manufacturer of the phone, the choices enable you to put your Android phone into silent mode, airplane mode, or power it off completely. The location of the Power button differs based on the phone manufacturer.

Volume up/down buttons Control the audio volume on calls and while playing audio and video. The location of the volume buttons differs based on the phone manufacturer.

Other Sensors and Radios

Your Android phone includes a Wi-Fi (WLAN) radio for connecting to your home or office networks or to Wi-Fi hotspots in airports, coffee shops, and even on planes. It also has a Bluetooth radio for connecting Bluetooth accessories such as headsets. Most Android phones include a Near Field Communications (NFC) radio for mobile payments and swapping information between other Android devices. On the sensor front, your Android phone probably has an accelerometer for detecting movement, a compass for directional awareness,

a gyroscope for assisting with movement detection and gaming, a Global Positioning System (GPS) for detecting where you are on the planet, and, in some cases, a Hall Sensor for detecting a magnetic field. Finally, your Android phone will include radios for connecting to cellular voice and data networks. These could include GSM, GPRS, CDMA, WCDMA, and LTE.

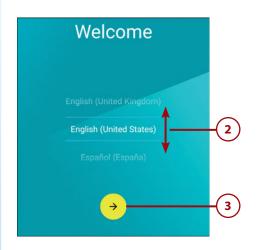
First-Time Setup

Before setting up your new Android phone, it is advisable that you have a Google account. This is because your Android phone running Android is tightly integrated into Google and enables you to store your content in the Google Cloud, including any books and music you buy or movies you rent. If you do not already have a Google account, head to https://accounts.google.com on your desktop computer and sign up for one.

You Need Connectivity

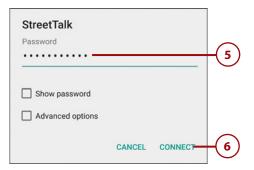
You need to connect to a Wi-Fi network, or make sure that your Android phone can connect to the cellular data network, when using the following steps to set it up. It is recommended that you connect to a Wi-Fi network due to the amount of data that may be used after the phone finishes its setup and starts updating apps.

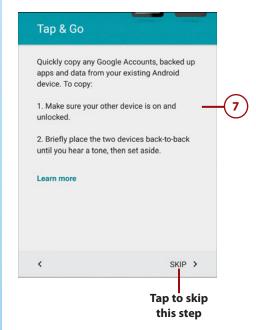
- 1. Press the Power button until you see the animation start playing.
- Swipe up or down to change your location if needed.
- **3.** Tap to start the setup process.



- 4. Select a Wi-Fi network to connect to. If you are not in range of a Wi-Fi network, or would rather use your cellular data, tap Skip, and continue with step 7.
- **5.** Type in the Wi-Fi network password (if a password is required).
- **6.** Tap Connect.
- 7. If you have another Android device (phone or smartphone) running Android 5.0 (Lollipop) and you want to transfer the data from it to your new phone, follow the instructions on this screen, or tap Skip to continue.



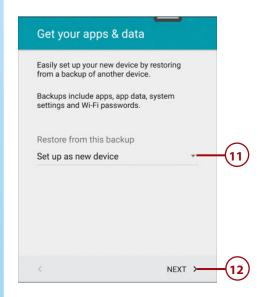




- **8.** Enter your Gmail email address if you already have a Gmail account and tap Next.
- **9.** Enter your Google account password.
- 10. Tap Next.
- 11. Tap to choose one of your other Android devices to restore data from, or choose Set Up as New Device to continue setting this phone up as a new Android phone.
- **12.** Tap Next to continue.



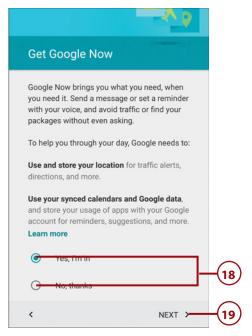




- 13. Check this box if you want to back up your phone's data so that it can be restored to a new Android phone or smartphone in the future.
- 14. Check this box if you are okay with Google collecting information about your geographic location at any time. Although Google keeps this information safe, if you are concerned about privacy rights, you should uncheck this box.
- 15. Check this box if you are okay with your phone scanning for Wi-Fi networks even if you have the Wi-Fi radio turned off. This helps improve location accuracy.
- 16. Check this box if you are okay letting Google collect diagnostic information about your phone and the apps running on it.
- 17. Tap Next to continue.
- 18. Choose whether you want to let Google use and store your location, and have access to your calendar and data so that it can allow you to use Google Now.

 Learn more about Google Now in Chapter 7.
- **19.** Tap Next to complete your phone setup.





Extra Setup Steps for Some Phones

Many vendors that make Android phones modify them so that they include special services and features unique to their brand of phone—for example, separate app stores, special cloud services that provide backup and restore services, and other unique brand-only features. Normally, these features require that you have an account with the vendor itself in addition to having your Google account. Some phone vendors include extra apps such as Dropbox and use those services to back up your phone or store the pictures you take with the camera. During the phone setup, you might be asked to enter your vendor-specific account details (or create a new account) or participate in extra services such as Dropbox.

Fundamentals of Android 5.0 (Lollipop)

Your Android phone is run by an operating system called Android. This book covers the latest version of Android, called Android 5.0 (also called Android Lollipop). Some manufacturers of Android phones modify Android to provide a unique experience. For example Samsung's modifications are called TouchWiz, and HTC's modifications are called Sense UI. Where appropriate, this book covers these differences.

The Lock Screen

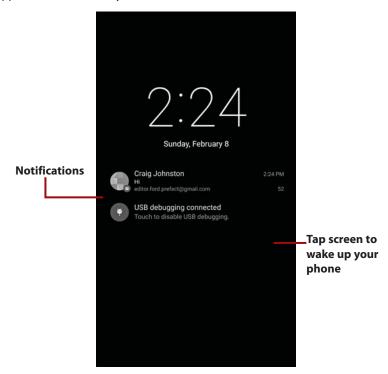
If you haven't used your Android phone for a while, the screen goes blank to conserve battery power. Here is how to interact with the Lock screen.

- Press the Power button to wake up your Android phone. Some phones have a physical Home button (as discussed earlier), and in these instances, pressing the physical Home button also wakes up your phone.
- **2.** Swipe up anywhere on the screen to unlock your phone.



Ambient Display

Some Android phones include a feature called Ambient Display. If you tap the screen twice or pick up your phone, you see a dimmed version of the Lock screen showing your notifications. Tapping the screen while the Ambient Display is visible wakes up your phone fully, but if you just leave it or put it back down, the Ambient Display screen disappears. New notifications also briefly appear on-screen as they arrive.



Lock Screen Differences

Some manufacturers modify Android to create their own experience, and one of the tweaks is how the Lock screen works. For example, on Samsung phones, you can swipe randomly in any direction to unlock the phone, and to launch the Phone or Camera apps, you drag the respective icons upward. HTC is another example. On its phones' Lock screens, you see a row of icons plus the Lock icon. To unlock the HTC phone, you drag the Lock icon upward. To launch apps, drag the App icon upward.

Talk to Your Phone While It's Sleeping

As long as it is plugged into power, you can speak to your phone and give it commands, even while it is sleeping. Just say "OK Google" to make your phone wake up and listen for commands. You can search your phone or the Internet, or give commands to send an email, add reminders, and many other things. To enable this feature, go to Settings, Language & Input, Voice Input, tap the cog icon to the right of Enhanced Google Services, tap "OK Google" Detection, and make sure that all three switches are in the on position.

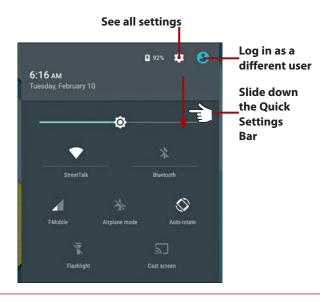


Work with Notifications on the Lock Screen

With Android 5.0 (Lollipop) you can work with notifications right on the Lock screen. Tapping a notification takes you straight to the app that created it. Read more about notifications later in this section.

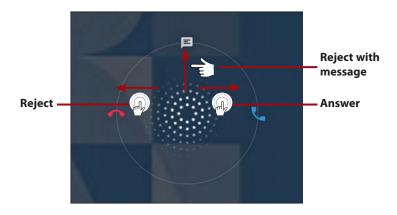
Work with Android Settings on the Lock Screen

With Android 5.0 (Lollipop) you can work with settings (such as Airplane Mode, turning Wi-Fi on or off, and so on) right on the Lock screen. To work with settings, pull down the Quick Settings Bar by swiping down from the top of the screen with two fingers to view and change commonly used settings. Tap the Settings icon to see a full list of settings. Tap the User icon to log in as a different phone user, a guest phone user, or create a new phone user. Read more about phone users later in this chapter in the "Setting Up Multiple Users on Your Phone" section.



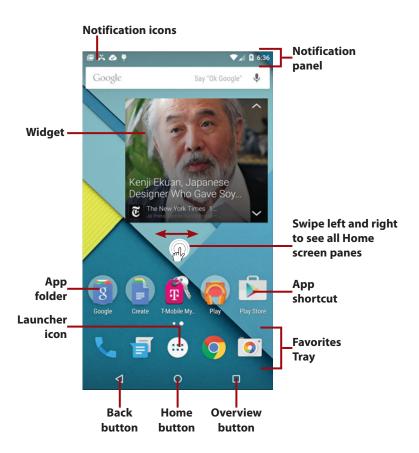
Answering a Call from the Lock Screen

If your phone is locked when a call comes in, you have three choices: Drag the phone icon right to answer the call, drag it left to reject the call, or drag it up to reject the call and send a preset text message (SMS) to the caller.



The Home Screen

After you unlock your Android phone, you are presented with the middle Home screen pane. Your Android phone typically has five Home screen panes. The Home screen panes contain application shortcuts, a Launcher icon, a Notification panel, shortcuts, a Favorites Tray, and widgets.



Notification panel The Notification panel shows information about Bluetooth, Wi-Fi, and cellular coverage, as well as the battery level and time. The Notification panel also serves as a place in which apps can alert or notify you using notification icons.

Notification icons Notification icons appear in the Notification panel when an app needs to alert or notify you of something. For example, the phone app can show the new email icon indicating that you have new unread emails.

Widgets Widgets are mini apps that run right on the Home screen panes. They are specially designed to provide functionality and real-time information. An example of a widget is one that shows the current weather or provides search capability. You can move and resize widgets.

App shortcut Tapping an app shortcut launches the associated app.

App folders App folders are groups of apps that you can use to organize and declutter your screen.

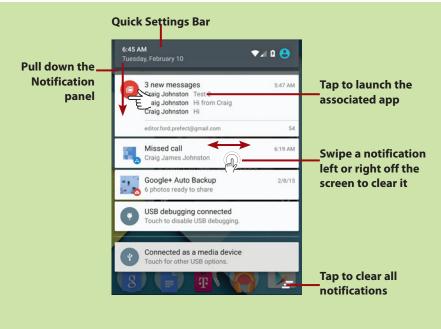
Favorites Tray The Favorites Tray is visible on all Home screen panes. You can drag apps to the Favorites Tray so that they are available no matter which Home screen pane you are looking at. You can rearrange and move apps in the Favorites Tray.

Launcher icon Tap to show application icons for all applications that you have installed on your Android phone. The exact appearance and placement of the Launcher icon may differ on your phone, but it is usually an icon made up of a grid of dots or squares and may appear in the middle of the Favorites Tray or to the right.

>>>Go Further

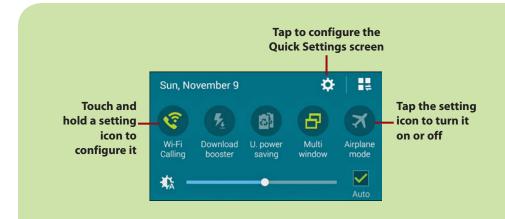
WORKING WITH NOTIFICATIONS AND QUICK SETTINGS

To interact with notifications that appear in the Notification panel, place one finger above the top of the screen and swipe down to reveal the notifications. Swipe each individual notification off the screen to the left or right to clear them one by one. Using two fingers, drag down on a notification to expand it. You can also work with settings (such as Airplane Mode or turning Wi-Fi on or off). To work with settings, tap the Quick Settings Bar to view and change commonly used settings. Tap the Settings icon to see a full list of settings. If you want to get to Quick Settings right away, use two fingers and swipe down from the top of the screen. The Quick Settings Bar slides down with the notifications underneath it. Swiping down to see notifications and Quick Settings works on any screen and while running any app.





Some phones modify the way that Quick Settings works. For example, on a Samsung phone, when you swipe down with two fingers you see a lot more Quick Settings icons. To control how many you see, tap the pencil icon. To configure a setting like Bluetooth, touch and hold the setting icon. Tap the icon to turn the setting on or off.

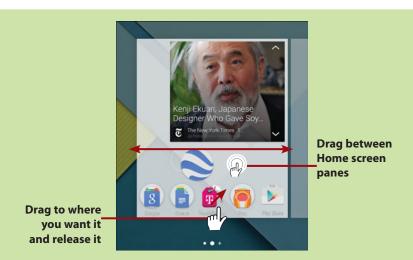


>>>Go Further

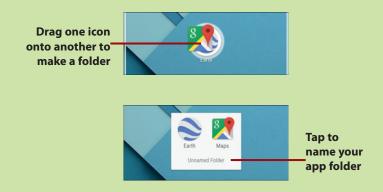
CREATING APP SHORTCUTS AND APP FOLDERS

Tap the Launcher icon to see all your apps. Touch and hold on the app you want to make a shortcut for. After the Home screen appears, drag the app shortcut to where you want it on the Home screen, drag it to an app folder to add it to the folder, or drag it left or right off the screen to move it between Home screen panes. If your Home screen panes are all full and there is no space for the app shortcut, keep dragging the icon to the right until you see an empty Home screen pane. This creates a new Home screen pane. Release the icon to place it.





To create a new app folder, simply drag one app shortcut onto another one. An app folder is created automatically. To name your new app folder, tap the folder to open it, and tap Unnamed Folder to enter your custom name.



The System Bar

Your Android phone running Android 5.0 (Lollipop) has no physical buttons. Instead it has an area of the screen set aside for virtual buttons. This area is called the System bar. The System bar includes the Back, Home, and Recent Apps virtual buttons.

My Phone Doesn't Have a System Bar

Although Google's Android operating system is designed to use virtual buttons in the System bar, some phone vendors have chosen to use physical and touch-sensitive buttons below the screen. Because the buttons are below the screen, there is no need to have a System bar. Refer to the "Button Placement" margin note earlier in this chapter for more information.



System bar Reserved area of the screen where virtual buttons are displayed.

Back button Tap to go back one screen in an app or back one step while navigating Android.

Home button Tap to exit what you are doing and return to the Home screen. Your app continues to run in the background.

Overview button Previously called the Recent Apps button, tap to see your recently used apps, switch between them, and close them.

The Leftmost Home Screen Pane

While on the Home screen view, if you keep swiping right until you see the leftmost Home screen pane, you are likely to find an app running there—typically Google Now (which is covered in Chapter 7, "Google Now and Navigation"). However, on some Android phones, instead of Google Now you might find an app called Flipboard (Samsung phones) or an app called Highlights (HTC phones).

Using Your Touchscreen

You mostly interact with your Android phone by touching the screen—what's known as making gestures on the screen. You can tap, touch and hold, swipe, pinch, unpinch, and double-tap.



Tap To start an application, tap its icon. Tap a menu item to select it. Tap the letters of the onscreen keyboard to type.



Touch and hold Touch and hold to interact with an object. For example, if you touch and hold a blank area of the Home screen, a menu pops up. If you touch and hold an icon, you can reposition it with your finger.



Drag Dragging always starts with a touch and hold. For example, if you touch and hold the Notification panel, you can drag it down to read all the notification messages.



Swipe or slide Swipe or slide the screen to scroll quickly. To swipe or slide, move your finger across the screen quickly. Be careful not to touch and hold before you swipe or you will reposition something. You can also swipe to clear notifications or close apps when viewing the recent apps.



Double-tap Double-tapping is like double-clicking a mouse on a desktop computer. Tap the screen twice in quick succession. For example, you can double-tap a web page to zoom in to part of that page.



Pinch To zoom in and out of images and pages, place your thumb and forefinger on the screen. Pinch them together to zoom out or spread them apart (unpinch) to zoom in. Applications such as Browser, Photos, and Maps support pinching.

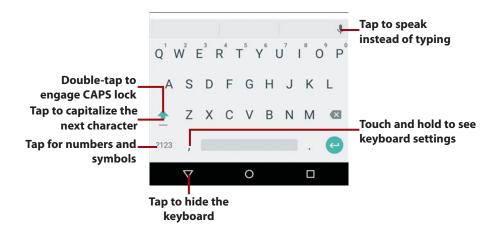


Rotate the screen If you rotate your Android phone from an upright position to being on its left or right side, the screen switches from portrait view to landscape view. Most applications honor the screen orientation. The Home screens and Launcher do not.

Using Your Keyboard

Your Android phone has a virtual (onscreen) keyboard for those times when you need to enter text. You might be a little wary of a keyboard that has no physical keys, but you will be pleasantly surprised at how well it works.

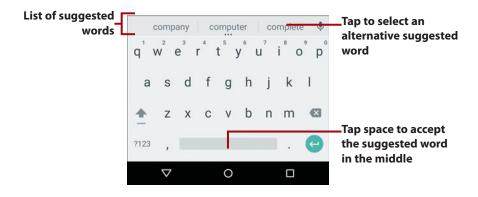
Most apps automatically show the keyboard when you need to enter text. If the keyboard does not appear, tap the area where you want to type and the keyboard slides up ready for use.



Keyboard Quick Tips

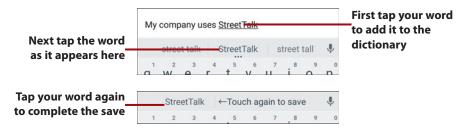
If you are typing an email address or a website address, the keyboard shows a button labeled .COM. If you tap it, you type .COM, but if you touch and hold it, you can choose between .EDU, .GOV, .ORG, and .NET. If you touch and hold the Return key, the cursor jumps to the next field. This is useful if you fill out forms on a website or move between fields in an app. If you touch and hold the comma key, you can change the language and keyboard settings. Some manufacturers of Android phones have moved the settings key to an adjacent key, sometimes combining it with the microphone key. The microphone key, used for dictation, that is normally on the top-right of the keyboard is moved to the bottom row of keys by some manufacturers.

Using the virtual keyboard as you type, your Android phone makes word suggestions. Think of this as similar to the spell checker you would see in a word processor. Your Android phone uses a dictionary of words to guess what you are typing. If the word you were going to type is highlighted, tap the space or period to select it. If you can see the word in the list but it is not highlighted, tap the word to select it.



Add Your Word

If you type a word that you know is correct, you can add it to your personal dictionary so that the next time you type it, your Android phone won't try to correct it. To do this, after you type the word, but before you tap space, you'll notice that your word is underlined. Tap the underlined word and your word appears in the middle of the suggested words area. Tap the word to add it to your personal dictionary. Tap it once more to complete the action.



To make the next letter you type a capital letter, tap the Shift key. To make all letters capitals (or CAPS), double-tap the Shift key to engage CAPS Lock. Tap Shift again to disengage CAPS Lock.

To type numbers or symbols, tap the Symbols key.

When on the Numbers and Symbols screen, tap the Symbols key to see extra symbols. Tap the ABC key to return to the regular keyboard.



To enter an accented character, touch and hold any vowel or the C, N, or S keys. A small window opens enabling you to select an accented or alternative character. Slide your finger over the accented character you want to use, and lift your finger to type it.



To reveal other alternative characters, tap and hold any other letter, number, or symbol.

Want a Larger Keyboard?

Turn your Android phone sideways to switch to a landscape keyboard. The landscape keyboard has larger keys and is easier to type on.



>>>**Go Further**SAMSUNG ONE-HANDED TYPING

Some Android phones are pretty large and unlike smaller phones that have 4-inch or 4.7-inch screens, you cannot comfortably type with one hand. Samsung addresses this on the larger phones by enabling you to put the keyboard into one-handed typing mode. This mode squashes the keyboard so that you can type with one thumb. To enable one-handed mode, touch and hold the microphone key (to the right of the Sym key), then tap the stacked keyboard icon. Drag the shrunken keyboard anywhere on the screen where it is comfortable for you to type with one hand. To exit one-handed mode, touch and hold the microphone key (to the right of the Sym key), then tap the stacked keyboard icon.



Dictation: Speak Instead of Typing

Your Android phone can turn your voice into text. It uses Google's speech recognition service, which means that you must have a connection to the cellular network or a Wi-Fi network to use it.

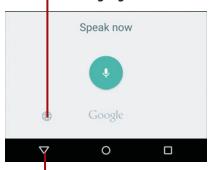
- Tap the microphone key. Some manufacturers of Android phones have moved the microphone key to the bottom row on the keyboard.
- Wait until you see Speak Now, and then start saying what you want to be typed. You can speak the punctuation by saying "comma," "question mark," "exclamation mark," or "exclamation point."
- 3. Stop speaking to finish dictation.

Swipe to Type

Instead of typing on the keyboard in the traditional way by touching each letter individually, you can swipe over the letters in one continuous movement. This is called Gesture Typing. It is enabled by default; to use it, just start swiping your finger over the letters of the word you want to type. As you swipe your finger, you see a trail following your finger. Lift your finger after each word. To add a space, swipe over the space bar or just start the next word and let the keyboard add the space for you. To type a double letter (as in the word "pool"), loop around that letter on the keyboard.



Tap to select a different dictation language



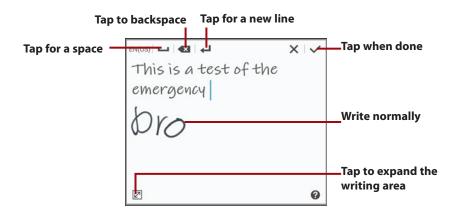
Tap to cancel voice dictation



Samsung Writing Instead of Typing

Some larger Android phones, such as the Samsung Galaxy Note 4, come with a stylus. Samsung calls their stylus the S Pen. Instead of typing on the keyboard, you can use handwriting recognition to write. To enable Handwriting mode, pull out the S Pen from its holder and tap the Back key to dismiss the Air Command window. Then hover the S Pen over the screen in the text area until you see the handwriting icon. Tap the icon with your S Pen. Any text you have typed appears to be in handwriting. Now write in your own handwriting on the screen and it is turned into text. Tap Done to return to typing.





First email on my new phone

I'd like to show it to you.

PASTE

I'm enjoying my new portable so far. What are you doing or dinnel morrow night?

REPLACE...

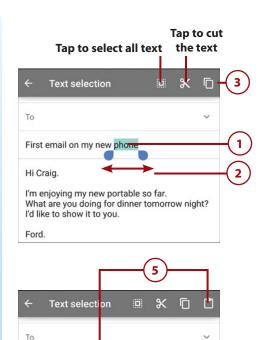
Hi Craig.

Ford.

Edit Text

After you enter text, you can edit it by cutting, copying, or pasting the text. Here is how to select and copy text and then paste over a word with the copied text.

- While you are typing, tap and hold a word you want to copy.
 The word highlights in blue, and you see end markers on either side of the word.
- Slide the blue end markers until you have selected all the text you want to copy. In this example, just one word has been highlighted.
- Tap to copy the text. You can also cut the text. This example demonstrates copying text.
- **4.** Touch and hold the word you want to paste over.
- **5.** Tap the word Paste or tap the paste icon.



Simpler Copy/Paste

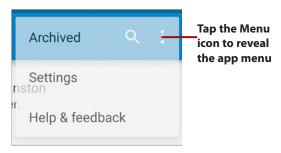
You might want to just copy some text and paste it somewhere else, instead of pasting it over a word. To do this, after you have copied the text, tap once in the text area, and move the single blue marker to where you want to paste the text. Tap the blue marker again, and tap Paste.



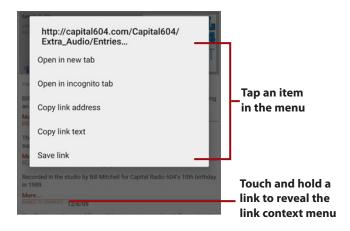
Menus

Your Android phone has two types of menus: app menus and context menus. Let's go over what each one does.

Most applications have a Menu icon, which enables you to make changes or take actions within that application. The Menu icon should always appear in the top-right corner of an app; however, it can sometimes appear in the System bar next to the Recent Apps button or elsewhere in the app. Remember that some phones have a physical Menu button below the screen and might not have the onscreen Menu icon.



A context menu applies to an item on the screen. If you touch and hold something on the screen (in this example, a link on a web page), a context menu appears. The items on the context menu are based on the type of object you tapped.



Switch Between Apps

Your Android phone has an icon called the Overview icon. This icon is always on the System bar at the bottom of your screen. You can use this icon to switch between apps, close apps, and force them to quit if they have stopped responding. The Overview screen also allows you to switch between different Chrome web browser tabs and close them.

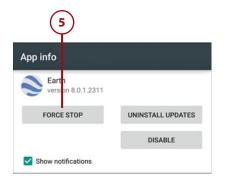
1. Tap the Overview icon.

Where Is My Overview Button?

The Overview icon/button may be a physical button on your phone positioned below the screen. Phones without the Overview button normally require that you double-tap the Home button to see the Overview screen. Sometimes the Overview button is called the Recent Apps button.

- 2. Scroll up and down the list of recent apps and Chrome browser tabs.
- **3.** Swipe an app or Chrome browser tab left or right off the screen to close it.
- 4. Touch and hold an app's icon to reveal the app's information screen. If you touch and hold the icon of a Chrome browser tab, you see the Chrome app info.
- **5.** Tap to force an app to close if it has stopped responding.



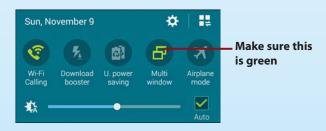


Run Multiple Apps on the Screen at the Same Time (Samsung Only)

Some larger Samsung phones have a feature called Multi Window that allows certain apps to run on the same screen at the same time. They can either run in a split-screen configuration, in multiple separate small windows, or a combination of both.

Make Sure Multi Window Is Fnabled

Before you start this section, make sure that Multi Window is enabled in the Quick Settings.



Two Apps Together on a Split-Screen

This section describes how to run two apps at the same time in a split-screen configuration.

1. Touch and hold the Back button to see apps that support Multi Window.



2. Drag an app onto the screen and release it. Since this is the first app you are choosing, it fills the screen.



Some Apps Want To Be Popups

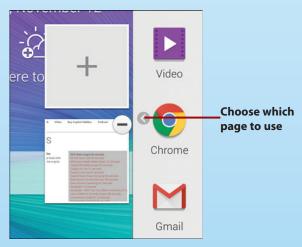
When you drag an app onto the screen in step 2, the app might want to be a pop-up app. Pop-up apps start by running in a small separate window on the screen instead of either filling the top or bottom of the screen. Unfortunately it is not clear which apps always want to start in pop-up mode, and which always start in split-screen mode. The next section covers pop-up apps.



App wants to start as a popup

Multi-Page Apps

Some of the app icons have a small left arrow next to them. This indicates that the app is already running and has multiple pages open. An example of this is a web browser like Chrome. You may have many different websites open each in their own tabs. If you tap the little arrow, you can choose which open pages you want to drag onto the multi-window screen.

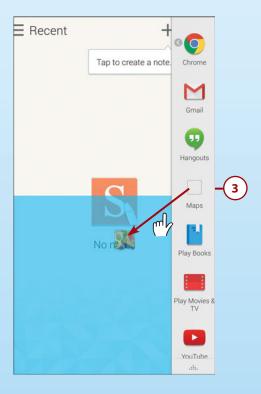


It's Not All Good

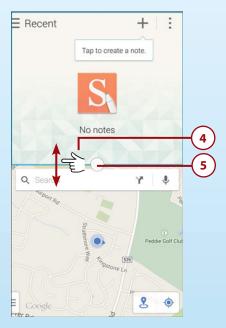
Not All Apps Support Multi Window

Apps must be specially written to take advantage of Multi Window mode. This means that you might not see the apps you are looking for until the developer updates the app to support Samsung's Multi Window mode.

3. Drag another app to either the top or bottom half of the screen and release it. If the multi-window pane on the right of the screen disappears before you complete step 3, touch and hold the Back button to see the pane again.



- Drag the circle up or down to give more or less room to each app. 4.
- Tap the circle to reveal extra Multi Window features.

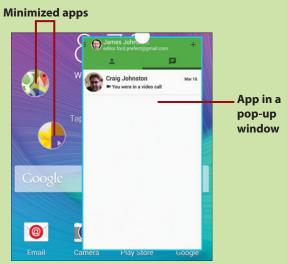


- Tap to swap the position of the apps on the screen. 6.
- 7. Tap to enable dragging content between windows (like text or images).
- Tap to minimize the selected app to a small draggable circle on the screen 8.
- Tap to maximize the selected app to full screen. 9.
- 10. Tap to close the app in the selected window.



>>>Go Further MINIMIZED APPS

When you choose to minimize an app as seen in step 8, the app shrinks to a small circle on the screen. You can drag the minimized app anywhere on the screen. If you touch and hold the app, a trash can icon appears allowing you to close the app. If you tap the minimized app it enlarges to a pop-up window instead of maximizing back to its original window in the split-screen. You can then continue working on the app in its small window. Minimized apps continue to be shown no matter what screen you are on and what app you are running.



More Than One App in Each Window

When you use Multi Window, the screen is split into two windows—one at the top and one at the bottom. You can drag an app to either the top or bottom window. You can actually drag more than one app into each window. Follow steps 1 through 3 from the "Two Apps Together on a Split Screen" task, and simply drag the new app on top of the one that's already there. The only downside to this is that you can only work with the last app that was dragged to the window. Even though the previous apps are there and running, you cannot switch to them. Your only course of action is to close the app on top and continue working on the previous app in the same window.

>>>Go Further

PRESETTING PAIRS OF APPS

You can create preset pairs of apps. This enables you to quickly open two apps on the screen without first dragging them onto the screen manually each time you open Multi Window. To do this, open the two apps that you want to work with (if you have more than one app in each window, only the one visible is added to the pair). Tap the Multi Window up arrow and tap Create. A new icon is added to the list of multi-window apps with the name of both apps. In the future when you open the Multi Window list, your preset app pairs are right at the top.





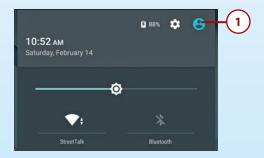
Setting Up Multiple Users on Your Phone

Your Android phone may have the capability to support multiple users. This enables you to share your phone among co-workers, family members, or friends, with each person having his own unique login, apps, photos, videos, and settings. Your phone can support up to eight users. Some phone vendors do not support this option.

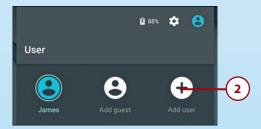
Add a New Phone User

A phone user can have their own apps, photos, videos, wallpapers, and do anything on the phone with the exception of removing other users and factory resetting the phone. To add other users, the original owner of the phone must be logged in and needs to use the following steps. The user being added should also be present at the time the new user profile is created.

1. Pull down the Quick Settings Bar, and tap the User icon.



2. Tap Add User.



3. Tap OK. Your phone switches to the Lock screen, which is ready for you to start the new user process.



4. Swipe the Lock icon upward to unlock your phone.



5. Hand the phone to the person who will be setting up her account. She can now follow the steps in the "First-Time Setup" section earlier in this chapter.

How to Switch Between Phone Users

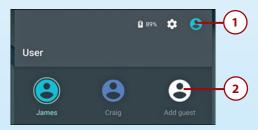
To switch between phone users, pull down the Quick Settings Bar on the Lock screen, Home screen, or while running any app, and tap the User icon. Tap the user you want to switch to.



Add a Phone Guest User

A phone guest user can use the phone like a regular user, however their information is not permanently saved. There can only be one guest account, and it can either be reused by the same guest or wiped for a new guest.

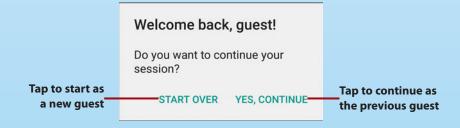
1. Pull down the Quick Settings Bar, and tap the User icon.



- 2. Tap Add Guest.
- **3.** Hand the phone to the guest. No setup is required.

Continue as a Guest or Start Over

If you previously added a guest user and allowed someone to use it, the guest account remains untouched until your guest wants to use it again. If the same person wants to continue where he left off, when he switches to the guest user he is asked to either start over or continue. If he taps continue, the guest session continues where it left off. However if you are allowing a new person to use the guest user, she must tap Start Over to wipe the previous guest session and start fresh.



>>>Go Further

LET YOUR CHILDREN USE YOUR PHONE SAFELY

When you add a new user, the user has his own Google account and full access to all apps that he installs while he is logged in to the phone. A restricted profile is a copy of your own login profile, but the apps and content are restricted. You can imagine using restricted profiles for your children who might not have their own Google accounts and who should not have access to all apps. By creating a restricted profile, you can decide which apps and content the person may access, but you don't have to worry about having to set up a whole new user on your phone. Restricted profiles appear like new users, but they actually function under your user account with restrictions in place. To add a restricted profile, go into Settings, tap Users, tap Add User or Profile, and tap Restricted Profile. If you haven't already set a screen lock, you are asked to set one now. This is to protect your account so nobody can switch to it from a restricted profile. After you set your screen lock, you set up the restricted profile. Please note that as of the writing of this book, there appears to be a bug preventing you from adding restricted profiles on Android phones; however, the feature does currently work on Android tablets. Google will likely fix this bug soon.



Installing Synchronization Software

Because your Android phone is tightly integrated with Google and its services, all media that you purchase on your phone is stored in the Google Cloud and accessible anywhere and anytime. However, you might have a lot of music on your computer that you need to copy to your Google cloud, so you need to install the Google Music Manager software or the Android File Transfer app for your Mac to copy any file back and forth.

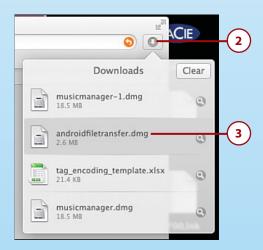
Install Android File Transfer (Apple Mac OS X)

You need only the Android File Transfer app when using an Android phone on an Apple Mac running OS X, and only if you think you want to drag files to and from your phone using Finder.

1. From your Mac, browse to http://www.android.com/filetransfer/ and download the Android File Transfer app.



- 2. Click the downloads icon to reveal your downloaded files.
- 3. Double-click the androidfiletransfer.dmg file in your Safari Downloads.



4. Drag the green Android to the Applications shortcut to install the app.



Install Google Music Manager (Apple Mac)

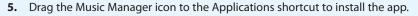
Don't install Google Music Manager unless you plan to upload files from your computer to the Google Music cloud.

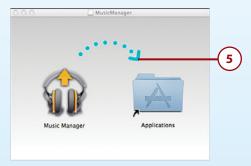
- **1.** Visit https://play.google.com/music/listen#manager_pl from your desktop web browser, and log in to your Google account if prompted.
- 2. Click to download Music Manager.



- 3. Click the downloads icon to reveal your downloaded files.
- 4. Double-click the musicmanager.dmg file in your Safari Downloads.







6. Double-click the Music Manager icon in the Applications folder.



Skip to the "Configure Music Manager" section later in the chapter to complete the installation.

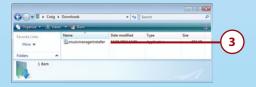
Install Google Music Manager (Windows)

Don't install Google Music Manager unless you plan to upload files from your computer to the Google Music cloud.

- 1. Visit https://music.google.com/music/listen#manager_pl from your desktop web browser, and log in to your Google account if prompted.
- 2. Click to download Music Manager.



3. Double-click the musicmanagerinstaller app in your Downloads folder and then follow the steps in the next section.



Configure Music Manager (Windows and Apple Mac)

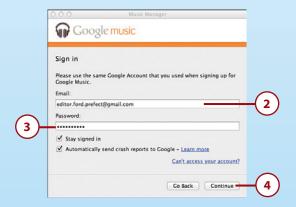
1. Click Continue.

Prologue

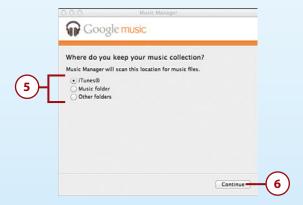
Enter your Google (Gmail) email address.



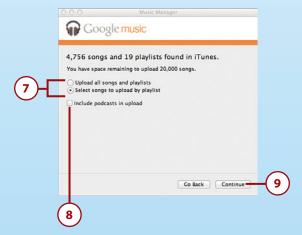
- Enter your Google (Gmail) password.
- Click Continue.



- 5. Choose where you keep your music.
- 6. Click Continue.



- 7. Choose whether to upload all your music or just some of your playlists. Remember that you can upload only 50,000 songs for free. Skip to step 12 if you choose to upload all music.
- 8. Check if you want to also upload podcasts.
- 9. Click Continue.



- Select one or more playlists of music.
- 11. Click Continue.

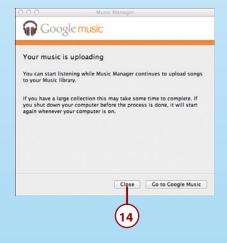


12. Choose whether you want to automatically upload any new music that is added to your computer.



- 13. Click Continue and your files start uploading.
- 14. Click Close.





>>>Go Further

OTHER SYNC SOFTWARE

Manufacturers of Android phones may provide their own synchronization software that's specific to their brand of phone. For example, HTC provides software called HTC Sync Manager. You can download it from http://www.htc.com/us/support/software/htc-sync-manager.aspx.

Samsung provides its own software called Kies. You can download it from http://www.samsung.com/us/kies/





Freeing Up Memory

If you have installed a Secure Digital card (SD card) then you have the ability to move media and parts of some apps to the SD card to free up memory on your Android phone.

Move Apps

Not all apps support being moved to the SD card (external memory), and even apps that do support this feature only move part of themselves to the SD card.

- 1. Touch and hold an app you want to move to the SD card
- **2.** Drag the app to the App Info icon.
- 3. Tap Move to SD card.

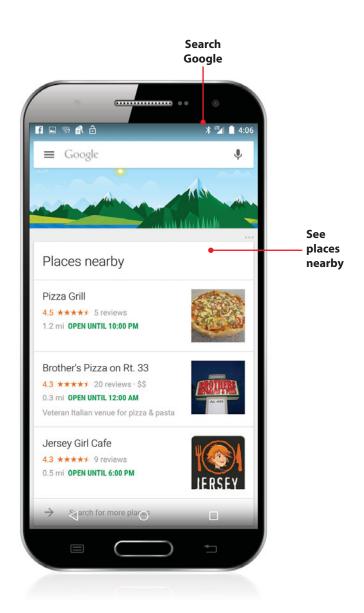






>>>Go Further MOVE DOCUMENTS AND MEDIA

You can also move documents, media, and other file types from your Android phone's main memory to an SD card using a third-party file manager. Search the Google Play Store for "my files" or "file manager," and you can download and use a file manager to move files between your phone's main memory and external memory. Some Android phones come with file manager apps preinstalled. For example, Samsung phones come with the My Files file manager, and HTC phones come with the File Manager app.



In this chapter, you find out how to use Google Maps, Navigation, and Google Now. Topics include the following:

- → Staying up to date with Google Now
- → Navigating with Google Maps
- → Taking map data offline

7

Google Now and Navigation

You can use your Android phone as a GPS navigation device while you walk or drive around. Your phone also includes an app called Google Now that provides all the information you need when you need it.

Using Google Now

You can access Google Now from the Lock screen or from any screen, which enables you to search the Internet. Google Now provides you with information such as how long it takes to drive to work and the scores from your favorite teams.

Accessing Google Now

You can access Google Now from any app or the Home screen pane by swiping from the bottom of the screen up onto the screen and toward the word Google. If you are on the Home screen, you can also swipe all the way to the left to see Google Now. It is the leftmost Home screen pane.

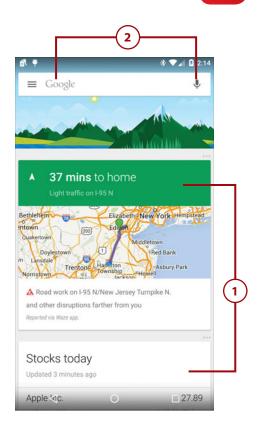


Swipe up from the bottom of the screen

Use Google Now

After you access Google Now, you can see current information, or search the Internet.

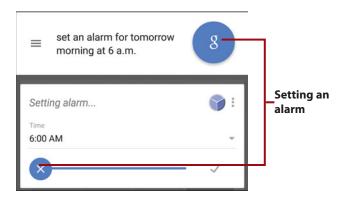
- Cards automatically appear based on your settings. Examples of these cards are scores for the sports teams you follow, upcoming meetings, weather in the location where you work, and traffic on the way to work.
- 2. Tap the Microphone icon to speak a search term or to command Google Now to do something. You can also type your search terms.
- **3.** Information relevant to your search appears.





Commanding Google Now

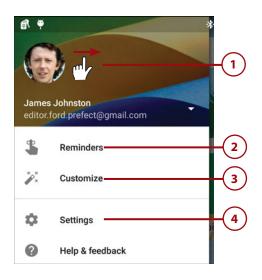
In addition to searching the Internet using Google Now, you can command Google Now to do things for you. For example, you can tell Google Now to set an alarm for you, compose a text message, or even send an email. This is just a small list of the types of things you can have Google Now do for you. To see a comprehensive list of commands, visit http://trendblog.net/list-of-google-now-voice-commands-infographic/.



Set Up Google Now

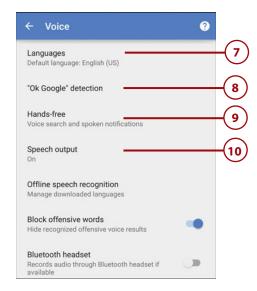
For Google Now to work for you, you need to set it up correctly. This also means sharing your location information with Google.

- Swipe in from the left side of the screen to reveal the menu.
- Tap to add and manage reminders. After adding a reminder, Google Now notifies you of the activity when the reminder is due.
- Tap Customize to customize what kinds of Google Now cards are displayed. This includes choosing sports teams, stocks, places, and TV and video.
- **4.** Tap Settings.



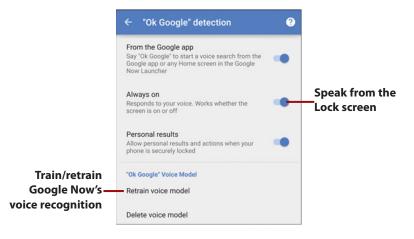
- 5. Tap to manage what Google Now can search for. This can include apps you have installed, bookmarks and web history in the Chrome web browser, your contacts, Google Play Books, Movies & TV, and Music.
- **6.** Tap Voice to manage how and when Google Now responds to your voice.
- **7.** Tap to choose the languages that Google Now responds to.
- 8. Tap to choose when Google
 Now should be listening for you
 to say "OK Google," which is the
 key phrase that launches Google
 Now. You can choose to have
 Google Now listening only from
 the Google Now app, from any
 screen, or from the Lock screen.
- 9. Tap to choose whether Google Now works when your phone is locked, and how it should listen for your commands. You can choose to let Google Now use a paired Bluetooth device, a headset connected by a cable, or both.
- 10. Tap to choose when Google Now speaks back to you. Your choices are On (which means always), Off (which means never), or only when you are using a handsfree device (such as a Bluetooth headset or your car's built-in Bluetooth connection). Some phones may not include the "Off" choice here.



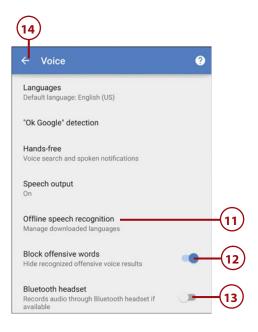


Beware of Others Speaking to Your Phone

Be careful about deciding when Google Now can listen for commands. If you allow Google Now to listen for "OK Google" on any screen (which means on any screen plus while running any app), the only drawback could be battery life suffering, but if you let Google Now listen for "OK Google" from the Lock screen, there is the potential for someone else to instruct your phone to do things. Even though when you enable this feature, you are asked to say "OK Google" three times so that Google Now can become familiar with your voice, it is possible for others to command your phone to send emails, read emails back to them, and so on.

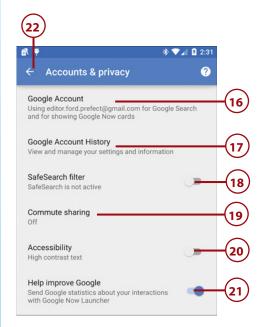


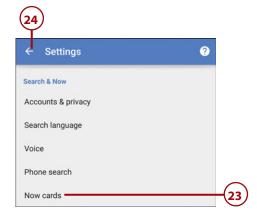
- 11. Tap to manage whether Google Now speech recognition can work even when there is no Internet connection. This is achieved by downloading one or more languages to your phone.
- **12.** Tap to block offensive words being spoken when search results are returned by voice.
- Tap to allow Google Now to record your voice using your Bluetooth headset or built-in car Bluetooth.
- **14.** Tap to save your changes and return to the main Google Now Settings screen.



- **15.** Tap Accounts & Privacy.
- **16.** Tap to choose which of your Google accounts (if you have more than one) you want to use for Google Now.
- 17. Tap to manage whether apps can share your data with Google and clear any data that apps on your phone have shared with Google.
- **18.** Tap to enable or disable the SafeSearch Filter that blocks offensive content.
- 19. Tap to choose whether you want to share your commute status, such as when you leave for home or leave for work. People need to be in your Google+ Circles to receive your Commute updates.
- **20.** Tap to enable or disable high-contrast text if you have a vision disability.
- 21. Tap to enable or disable Google Now sending Google information on how you use Google Now.
- **22.** Tap to save your changes and return to the main Google Now Settings screen.
- 23. Tap to manage how Google Now alerts you when new cards are ready, and choose the ringtone that plays when they are ready to view.
- **24.** Tap to save your changes and return to Google Now.







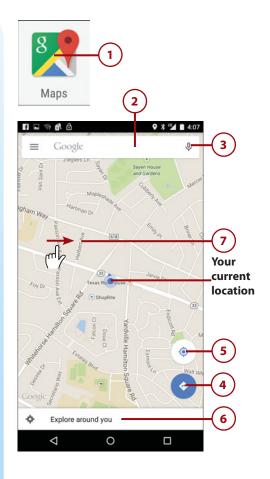
Telling Google Maps Where You Live and Work

Google Now can be even more effective if you configure your work and home addresses in Google Maps. Google Now uses that information to tell you things like how long your commute to work will be, whether there is heavy traffic on the route, and so on. See step 3 in the "Configure Google Maps Settings" task later in this chapter on how to do that.

Navigating with Google Maps

Google Maps enables you to see where you are on a map, find points of interest close to you, get driving or walking directions, and review extra layers of information, such as a Satellite view.

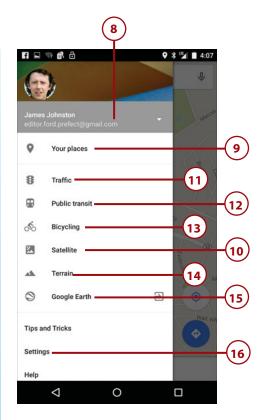
- 1. Tap to launch Google Maps.
- **2.** Tap to type a search term, the name of a business, or an address.
- **3.** Tap to speak a search term, the name of a business, or an address.
- 4. Tap to get walking or driving directions from one location to another. You can also choose to use public transit or biking paths to get to your destination.
- Tap to switch between the topdown view that always points North, and the 3D view that follows the direction your phone is pointing.
- **6.** Tap to explore what's around your current location.
- Swipe in from the left of the screen to reveal the menu.



How To Explore Around You

When you tap Explore Around You, you are presented with restaurants and businesses within a 20-minute drive and a time of day. The time of day should be the current time of day (for example, "Morning") and that determines the search criteria for restaurants. For example, if it's morning, the screen will show nearby restaurants that serve breakfast. Where possible, a star rating is provided for each restaurant so you can quickly see if it is rated highly. Tapping on a restaurant or business shows more information about it, including the address, hours of operation, the menu (if available), and the ability to quickly get directions. You can also tap the star icon to save the restaurant to your favorites, and in the future the restaurant will be displayed with a star on the map.

- **8.** Tap to switch to a different Google account for use with Google Maps.
- Tap to see your work and home address, plus addresses you have recently searched for, and any places you have saved to your favorites.
- **10.** Tap to toggle between the Map view and the Satellite view.
- Tap to show the current traffic conditions on the Map view or Satellite view.
- Tap to show all public transport locations on the Map view or Satellite view.
- **13.** Tap to show all bicycling routes on the Map view or Satellite view.
- **14.** Tap to see the Terrain view.
- **15.** Tap to launch the Google Earth app.
- **16.** Tap to change the settings for Google Maps.



Changing Google Maps Settings

See the "Configure Google Maps Settings" task later in this chapter for more information about customizing Google Maps.

Get Directions

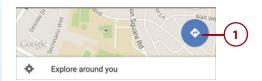
You can use Google Maps to get directions to where you want to go.

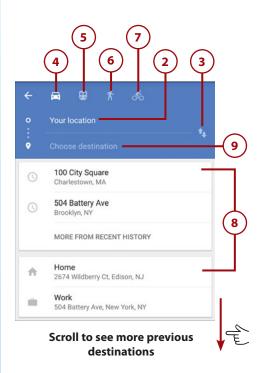
- 1. Tap the Directions icon.
- Tap to set the starting point or leave it as Your Location (which is where you are now).
- **3.** Tap to flip the start and end points.
- **4.** Tap to use driving directions.
- **5.** Tap to use public transportation.

Using Public Transportation

If you choose to use public transportation to get to your destination, you have two extra options to use. You can choose the type of public transportation to use, including bus, subway, train, or tram/light rail. You can also choose the best route (fewer transfers and less walking).

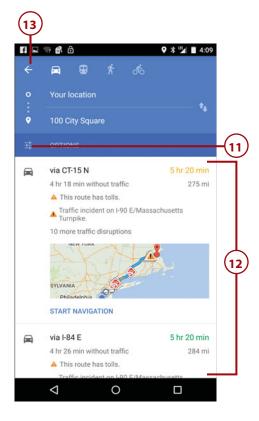
- **6.** Tap to walk to your destination.
- **7.** Tap to use bike paths (if available).
- **8.** Tap to choose a previous destination. If you need to type the address of your destination, skip to step 9; if not, skip to step 10.
- **9.** Type or speak the destination address.





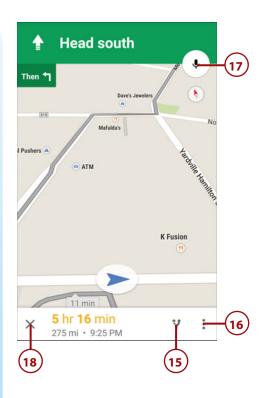
- 10. Tap to make changes to your route, including choosing alternative routes to travel and modifying options (such as avoiding toll roads). If you are happy with the route as is, skip to step 14.
- **11.** Tap to decide whether you want to avoid highways, tolls, or ferries.
- **12.** Tap to choose an alternative route. If you choose an alternative route, the screen automatically returns to the Map view.
- **13.** Tap to return to the Map view.
- **14.** Tap to start the navigation.





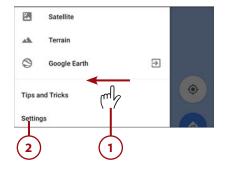


- **15.** Tap to see and select alternative routes as they appear on the map.
- **16.** Tap the Menu icon to mute the voice guidance, show traffic conditions, choose the Satellite view, and show the entire route alternatives.
- 17. Tap to speak commands such as "Show alternative route," "How's traffic ahead?" or "What time will I get there?"
- **18.** Tap to cancel the route.



Configure Google Maps Settings

- **1.** Swipe in from the left side of the screen.
- **2.** Tap Settings.



- 3. Tap to edit your work and home addresses. Telling Maps your home and work addresses is important for Google Now to work more efficiently, but it also helps you quickly plan new routes to work and home.
- 4. Tap to enable or disable the capability for your phone to report its location. You can also choose the accuracy of your location by changing the mode.
- Tap to improve your location accuracy if you think that your phone is not reporting it correctly.
- 6. Tap to see addresses you have looked up and received directions to. You can also delete items in this list.
- 7. Tap to set the distance unit of measure. You can either set it to Automatic so that Google Maps adjusts it based on where you are on the planet, or you can manually set it.
- 8. Tap to change the volume level for the voice that speaks the turn-by-turn directions, and choose whether you want to always start navigation using the Tilt Map. The Tilt Map presents the view as if you are looking ahead from behind the navigation arrow.
- Tap to save your changes and return to the main Google Maps screen.



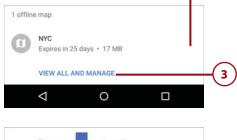
Use Offline Google Maps

Google Maps enables you to download small parts of the global map to your phone. This is useful if you are traveling and need an electronic map but cannot connect to a network to download it in real time.

- 1. Swipe in from the left of the screen.
- 2. Tap Your Places.
- 3. Scroll down to the bottom of the Your Places screen, and tap View All and Manage. If you have never saved an offline map, skip to step 4.
- 4. Tap Save a New Offline Map.
- 5. Pan around to find the area of the map you want to save offline.
- **6.** Pinch to zoom out or unpinch to zoom in to the area of the map you want to save offline.
- 7. Tap Save when the area of the map fills the screen.



Tap to view previously saved maps







8. Type a name for the offline map and tap Save.



How Much Map Can I Take Offline?

When selecting the area of the map to take offline, you are limited to approximately 100Mb of map data. You don't need to worry about the size of the data because if you have selected an area that is too large, Google Maps gives you a warning.



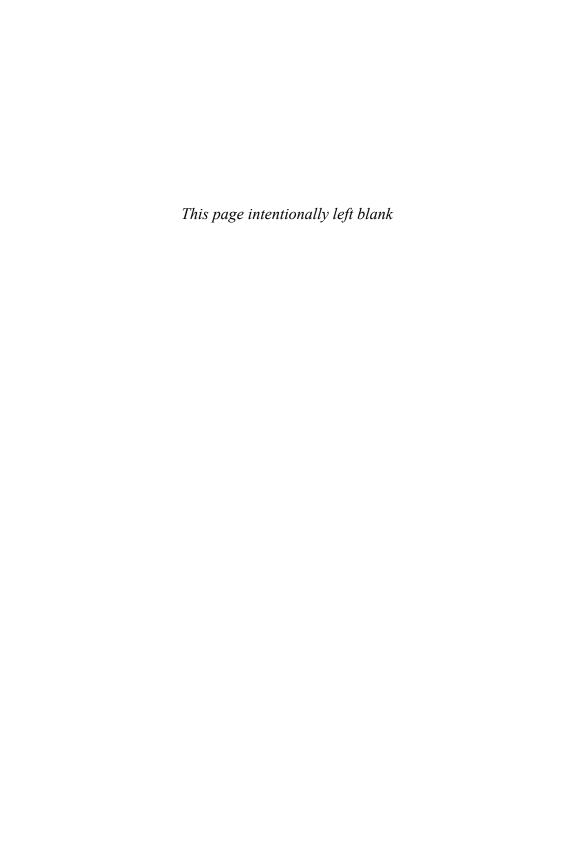


It's Not All Good

Offline Maps Have Limited Use

If you download some map data to your phone, you can use it to zoom in and out of the area you downloaded. You can also see where you are on the map in real time even though you have no network coverage. You cannot, however, get turn-by-turn directions within the downloaded map area. You also cannot search for things in the downloaded map area or see points of interest.

So how useful is having map data already downloaded to your phone? Because offline maps are already downloaded, they help when you have a network connection and are getting driving directions because Google Maps does not need to download the map data in real time, which could save you a lot of money in data roaming charges.



Index

work email accounts

Symbols

3.5 mm headphone jack, 6360 panoramic pictures (Photo Spheres) sharing, 387, 397 shooting, 375-376

A

ABC key, 24
accelerometer, 7
accented characters,
typing, 25
accepting calls, 62
accessibility settings,
customizing, 307-309
accessing VPNs, 183
Access Point Names
(APNs), 190
accounts
adding, 83
determining what
to synchronize, 89

social media accounts, 84 troubleshooting contact information, 86 **Exchange accounts** adding, 202-205 customizing email settings, 221-222 Google accounts adding, 8, 197-198 customizing email settings, 217-218 multiple accounts, 197-198 synchronizing, 198, 218 Google Wallet accounts, configuring, 281-282 **IMAP** accounts adding, 198-202 customizing email settings, 219-220 POP3 accounts adding, 198-202 customizing email settings, 219-220 removing, 89

adding, 85-89, 202-205 customizing email settings, 221-222 synchronizing contacts with, 85-89 accuracy of location settings, 143 ActiveSync setup, 86 address bar (Chrome), entering data, 239 administration, Remote Security Administration, 87 Agenda view (Calendar app), 269 on Android Wear watches, 436 alarms (Clock app) on Android Wear watches, 418, 437 configuring, 266-267 duration, 267 managing, 264-266

volume, 267

installing, 414

albums, filtering music by (Google Play Music app), 117	navigating, 417 notifications, 415-416 synchronizing data with	for bike rides/runs/ workouts, 420 closing, 31, 356-357
Album tab (Google Play Music app), 117	Android Wear watches, 415, 424	determining data usage, 358-359
alerts (Calendar app) expanding, 273 previewing in Android Wear app, 423	Android Wear watches, 413. See also Android Wear apps, installing, 426-427 battery usage, viewing,	file management, 51 filtering, 290 force closing, 31 Galaxy Apps store, 292 in-app purchases, 287
All Access subscription service (Google Play Music app), 115, 127	424-425 configuring general settings, 431-433	installing Android Wear watches, 426-427
always-on VPNs, 184	initial setup, 413-416	non-Google Play Store
Amazon.com app store, 292	downloading music, 128	apps, 291
Ambient Display, 13, 314	features, 427	limiting data usage, 361 minimized apps, 37
Android	memory usage,	moving to external
blogs, 362	viewing, 425 navigating, 428-430	memory, 358
cleaning exterior, 362	notifications, 438-439	moving to SD (Secure
updating, 351-352	playing music, 439-441	Digital) cards, 50
Android 5.0 (Lollipop), 12	Sunlight mode, 430	multiple apps per
Android Beam	synchronizing data with,	window, 37
defining, 186	415, 424	multi-window mode, 32-38
enabling, 185-186	Theater mode, 430	notification settings, 312
sending	types of, 416 voice actions, 434-438	pinning, 320
files, 188 links to content, 187	waking up, 433	preset pairs, 38
troubleshooting beaming	Androinica, 362	re-installing, 291
files, 188	answering calls on Lock	setting data usage
sharing video, 138	screen, 15	warnings, 360 starting on Android Wear
Android Central, 362	antennas (NFC), 95	watches, 434, 437
Android Device Manager,		synchronizing with
319	APNs (Access Point Names), 190	Android Wear
Android File Transfer app		watches, 424
installing on Mac OS X,	app folders, 17 creating, 20	uninstalling, 289
43-44	_	updating, 288-290 usage during phone
moving photos, 404	app menus, 30	calls, 60
Mac OS X, 405	app shortcuts, 17	usage information, 318
Windows, 406	creating, 19	viewing information
Android Guys, 362	Apple Mac OS X. <i>See</i> Mac OS X	screen, 31
Android Wear app. See also		viewing purchased/
Android Wear watches	appointments. See events	downloaded, 283
configuring general settings,	apps. See also Google	Article View (Play Newsstand
general settings, 422-424	Play Store; names of specific apps	app), 349
voice actions, 418-420 watch faces, 421-422	Amazon.com app store, 292	artists, filtering music by (Google Play Music app), 117

445

selecting views,

268-269

Artists tab (Google Play Music app), 117	beaming. See also Android Beam contact information via	Google Play Store, 283, 286-287 books, 338-340
Assisted Dialing, 70	NFC, 95-96	with Google Wallet app
attaching	music between Android	configuring, 324, 332
files to text messages,	devices, 130	credit cards, 111,
77-79	bike rides, starting on	145-147, 325
inserting versus, 210	Android Wear watches,	gift cards, 326-327
attachments (email)	419-420	Google Wallet Balance,
adding, 209-211 downloading, 218-219,	black-and-white style	333
222	(photos), 396	loyalty cards, 328-330 steps for, 331
audio. See music	blocking pop-up	Tap and Pay setup, 326
	windows, 242	movies, 143-146
Auto Awesome feature, 142	blogs, Android, 362	music, 111-112
Auto Backup, 140	Bluetooth, 167	publications, 346-347
Autofill forms feature	customizing, 170-171	TV shows, 146-147
(Chrome), 238	disconnecting	
automatically uploading	devices, 172	C
music, 113	pairing with, 168-169	
automatic picture manage-	Android Wear	cable, synchronizing
ment (Mac OS X), 407	watches, 415	media, 130
automatic retrieval of MMS	pairing codes, 169 reverse pairing, 170	caching music, 128
messages, 75	profiles, 171	Calendar app
automatic screen rotation,	radio, 7	alerts, expanding, 273
enabling/disabling, 308	renaming devices, 171	configuring settings,
	sharing video, 138-139	270-272
В	tethering, 192	events
	unpairing, 171	adding, 274-277 in Android Wear app,
Back button, 5, 21	bookmarks	424
backup services	Chrome, 226, 233-235	canceled, 279
Auto Backup, 140	Play Books app, 343	color coding, 270
photos and video, 141	books. <i>See</i> Google Play	configuring settings,
backward/forward	Books app	271
scrolling main screen	brightness	deleting, 277
(Calendar app), 268	of photos, 391-392 of screen, 263, 314	editing, 277 notifications, setting,
battery		272
battery care tips, 353	browsers. See Chrome	responding to invita-
Battery Saver feature, 355 care and maintenance,	browsing Play Store for	tions, 277-279
353	Android Wear watch	first day of the week,
optimizing, 353-355	apps, 420	choosing, 271
viewing usage, 354-355,	button placement, 5	home time zones, 271
424-425	buying	main screen, 268 hiding calendars, 270
Battery Saver feature, 355	apps	scrolling backward/
BCC (Blind Carbon Copy),	Amazon.com app store, 292	forward, 268
208	C	selecting views

Galaxy Apps store, 292

208

Quick Responses editing, 272 sending, 273 ringtones, 272 synchronizing calendars, 272 Title, People, and Places Wizard, 274 week numbers, showing/ hiding, 271	taking pictures, 371-372 on HTC phones, 381-383 Lens Blur pictures, 377-379 panoramic pictures, 372-375 Photo Spheres, 375-376 on Samsung phones, 379-381 video	wallpaper, 295-296 finding wallpaper, 298 from Photos app, 296-297 live wallpaper, 297-298 Lock screen versus Home screen, 299 static wallpaper, 299 checking accounts, adding to Google Wallet, 111,
Caller ID, configuring, 69	configuring settings,	145-147, 325
call forwarding, 69 calling cars on Android Wear watches, 419, 437	133-134 recording, 131-132 zooming in/out, 367-368	Chrome address bar, entering data, 239
calls answering on Lock screen, 15	camera modes (Samsung), 379-381	Autofill forms feature, 238 bookmarks, 226, 233-235 browser tabs, 227
app usage during, 60 conference calls, 66-67	canceled events (Calendar app), 279 capitalizing letters, 24	browsing history, 235-236 cookies, 242 crash reports, sending,
dialing, 54 contacts, 59 keypad, 57	CAPS Lock, 24 captions, 307	239 customizing settings, 228-229, 236-241
pauses and waits, 57 Recents tab, 56 searching contacts, 55	cars, calling on Android Wear watches, 419, 437	encryption, 237 Google Translate, 241
speaking search terms,	Cast Screen feature, 315	Incognito browser tab, 228
55-56 dragging/dropping items in, 61	CC (Carbon Copy), 208 cellular networks changing settings,	JavaScript, enabling/ disabling, 241 landscape orientation,
receiving accepting calls, 62 missed calls, 65-66 rejecting calls, 64	189-190 selecting network opera- tors manually, 191	231 launching, 225 passwords, saving, 238
sending Quick Responses, 64-65	cellular usage, viewing, 359 Center Focus style (photos),	personal information, security and, 240
on Samsung phones, extra features, 63	399 certificates, installing, 176,	phones without, 243 pinch to zoom feature,
call waiting, configuring, 69	318	232 pop-up blocking, 242
camera (physical) front-facing camera, 4 LED camera flash, 7 photos. <i>See</i> photos rear-facing camera, 7	changing. See also configuring accessibility settings, 307-309 display settings, 313-314	portrait orientation, 230 Privacy settings, 238 resizing text, 240 synchronization, enabling/disabling, 237
Camera app configuring settings, 368-371 focusing, 372 navigating, 365-367 pinch to zoom, 367-368	keyboard, 300-302 language, 306 security settings, 315-318 sound and notification settings, 310-313 volume, 311	tabs, 227 alternative to default behavior, 238 viewing, 230 web addresses, typing, 226

contacts 447

websites enabling/disabling location information access, 240 links, actions on, 243 printing pages, 229 Reduce Data Usage, 242 refreshing, 226 sharing addresses, 229 zooming in/out screen, 232-233 Chromecast, 164, 315 cleaning phone exterior/ screen, 362 client certificates, 86 Clock app alarms duration, 267 managing, 264-266 volume, 267 configuring, 266-267	composing email, 208 text messages, 75-76 conference calls, 66-67 configuring. See also changing accessibility settings, 307-309 Android Wear app general settings, 422-424 voice actions, 418-420 watch faces, 421-422 Android Wear watches general settings, 431-433 initial setup, 413-416 Bluetooth, 170-171 Calendar, 270-272 Camera, 133-134, 368-371 Chrome, 228-229, 236-241 Clock, 266-267	Play Movies & TV, 150-151 Play Music, 124, 127-129 security settings, 315-318 sound and notification settings, 310-313 Tap and Pay (Google Wallet), 326 YouTube, 162 connected TVs, viewing video, 163 connecting to Bluetooth devices, 167-171 to VPNs, 181-184 to Wi-Fi, 172-174 mobile Wi-Fi hotspots, 191-193 Passpoint, 178 contact pictures, setting photos as, 387 contact recognition, enabling, 436
navigating, 263 screen, dimming, 263 snooze period, setting, 267	Contacts, 99 display settings, 313-314 Gmail, 215-216	contacts. <i>See also</i> Contacts app adding to Contacts app, 90
closing apps, 31, 356-357 Cloud (Google) streaming music from, 112 synchronizing photos with, 408-409	Exchange accounts, 221-222 Google accounts, 217-218 POP3/IMAP accounts, 219-220 Google Maps, 252,	via email, 92 to Home screen, 105 manually, 93 via vCards, 94 beaming info via NFC, 95-96
color coding events (Calendar app), 270 color filters for black-and- white photos, 396	256-257 Google Music Manager, 46-49 Google Now, 248-251	dialing calls, 59 display information, customizing, 99 editing, 96-97 exporting, 94, 107
color inversion, 309 color saturation of photos, 391-392	Google Play Store, 289-291 Google Wallet, 281-282, 324, 332	favorites, marking, 90 groups, creating, 100 hiding/displaying,
color space correction, 309 .COM key, 23 comma key, changing language settings, 23 commands in Google Now, 248 compass, 7	keyboard, 300-302 language, 306 Lock screen settings, 14 Messenger, 73-74 mobile Wi-Fi hotspots, 191-193 Phone, 68-70 Photos, 140-142, 402-403 Play Books, 342	importing, 107 joining, 103 photos, adding, 97 removing, 89 searching to dial calls, 55 separating, 104 sharing, 94

sharing information, 94, 107 shortcuts, 105	data roaming	dictation mode, 26-27 on Android Wear watches 420, 434
sort order, changing, 68, 99 synchronizing from work email account, 85-89 troubleshooting, 86	enabling/disabling, 190 selecting network operators manually, 191 data usage	dictionary adding words to, 24 word suggestions from, 23
Contacts app. See also contacts accounts adding, 83-89	determining in apps, 358-359 limiting, 361 setting warnings, 360	digital zoom feature (Camera app), 367-368 dimming screen (Clock app), 263
removing, 89 troubleshooting, 86 customizing settings, 99 dialing calls, 59 navigating, 90-91	date. See also Calendar app setting, 261-262 synchronizing, 262 Daydream mode, 314 DCIM\Camera folder,	directions on Android Wear watches, 436 Google Maps, 254-256 disabling. <i>See</i> enabling
Container apps, 84	405-407	disconnecting
context menus, 30 contrast of photos, adjusting,	debit cards. See checking accounts; credit cards	Bluetooth devices, 172 conference callers, 67
391-392	default SMS/MMS app, changing, 81	disliking/liking music (Google Play Music app),
conversations (Gmail), 212 cookies, Chrome and, 242	deleting	123
copying	accounts, 89	displaying. See viewing
text, 29 text messages, 80	bookmarks in Chrome, 234	display settings, customizing 313-314
videos from computer Mac OS X, 153-154	events from Calendar app, 277 photo albums, 385	documents, moving to SD (Secure Digital) cards, 51
Windows OS, 151-153	playlists in Google Play	double-tapping, 22
corporate calendars, adding events, 277	Music app, 120-121 shortcuts, 106	doubleTwist app, synchroniz- ing media with, 130
crash reports (Chrome), 239 credit cards, adding info to Google Wallet app, 111, 145-147, 325	text messages, 80 video in Photos app, 139 VPNs, 183 widgets, 305	downloading apps from Google Play Store free apps, 284-285
cropping photos, 98, 388	delivery reports, 75	permissions, 285
customizing wallpaper, 295-296 finding wallpaper, 298	device administrators, 319 dialing phone calls, 54 contacts, 59	viewing downloaded apps, 283 books in Play Books app, 344
live wallpaper, 297-298 Lock screen versus Home screen, 299 from Photos app, 296-297 static wallpaper, 299	keypad, 57 pauses and waits, 57 Recents tab, 56 searching contacts, 55 speaking search terms, 55-56	email attachments, 218-219, 222 free books, 339-340 Google Wallet, 323 magazines via Play Newsstand app, 348

movies, viewing download progress, 146 music to Android Wear smartwatch, 128 from Google Play Music app, 114 dragging/dropping	text, 29 video properties in YouTube app, 160 VPNs, 183 email. See also Gmail app accounts adding, 196 client certificates, 86	enabling Ambient Display, 314 Android Beam, 185-186 automatic screen rotation, 308 captions, 307 color inversion, 309 color space correction,
icons, 22 in phone calls, 61	removing, 89 synchronizing to	309 contact recognition, 436
dramatic style (photos), 395 DTMF (Dual Tone Multi Frequency) Tones, 70	Contacts app, 85-89 adding contacts from, 92 addresses in text	data roaming, 190 High Contrast Text, 307 large text, 307 magnification gestures,
Dual Persona apps, 84	messages, 80 attachments adding, 209-211	307 NFC, 185-186
E	downloading, 218-219, 222	S Beam, 186 Smart Lock feature, 316 spoken passwords, 309
ebooks. <i>See</i> Google Play Books app	inserting versus, 210 BCC, 208 CC, 208	Switch Access, 307 TalkBack, 307
editing bookmarks in Chrome,	composing, 208 forwarding, 213	trust agents, 318 encryption, 316
234 contacts, 96-97	important emails, determining, 214	Chrome, 237 entering text
events in Calendar app, 277 notifications for events, 276	marking as spam, 214 notifications, 217, 222 printing, 214 reading, 211-213	dictation mode, 26-27 with gestures, 27 handwriting mode, 28 with keyboard, 23-25
photos, 387-389 applying filters, 390 black-and-white style,	replying to, 212 on Android Wear watches, 438	Enterprise Mobile Manage- ment (EMM), 319
396 Center Focus style, 399	event invitations, 277-279	equalizer (Google Play Music app), 129
dramatic style, 395 fine-tuning, 391-392 HDR Landscape style, 397 Retrolux style, 398 reverting to original, 389 sharpness, 393 Tilt Shift style, 400 vintage style, 394 playlists in Google Play Music app, 120-121 Quick Responses in Calendar app, 272 to calls, 65	resizing text, 216 RTF, 211 security, 202 sending, 208 from Android Wear watches, 436 signatures, 217-221 what to synchronize, 204-205 Email app, 195 EMM (Enterprise Mobile Management), 319 emoticons in text messages, 76	events (Calendar app) adding, 274-277 canceled, 279 color coding, 270 configuring settings, 271 deleting, 277 editing, 277 notifications, 272 responding to invitations 277-279 Title, People, and Places Wizard, 274 viewing in Android Wear app, 424

messages, 76

Exchange accounts adding, 202-205 customizing email
settings, 221-222
Explore Around You feature (Google Maps), 253
exporting contacts, 107
external features of phone, 3-8
external memory, moving apps to, 358
F
Facebook accounts, adding, 84 video, sharing, 138-139
fast forwarding/rewinding music, 124
favorites, marking contacts as, 90
Favorites Tray, 17
FDN (Fixed Dialing Number), 71
features, 4-8
file management apps, 51
File Manager app, 51
files
attaching to text messages, 77-79 moving to SD (Secure Digital) cards, 51 sending via Android Beam, 188
filtering apps, 290 filters
IIICIO

applying to photos, 390 color filters for black-andwhite photos, 396 wallpaper, 298 fingerprint readers, 317 first day of the week (Calendar app), choosing, 271

finding

books, 339

music, 110

first-time setup of phone, 8-12 Fixed Dialing Number (FDN), flash for camera, 7 Flipboard, 21 Flowing text (Play Books app), 343 focusing photos, 372 Center Focus style, 399 folders app folders, 17, 20 uploading music to Google Music Manager, 114 font size, setting, 314 force closing apps, 31 foreign currencies, purchasing apps from Google Play with, 286 forgetting Wi-Fi connections, 175 forward/backward scrolling main screen (Calendar app), 268 forwarding calls, 69 email, 213 text messages, 80 free apps, downloading from Google Play Store, 284-285 free books, downloading,

free music in Google Play

freeing memory usage, 50-51

Music app, 111

front-facing camera, 4

full screen video, playing,

339-340

159

Galaxy Apps store, 292 Gallery app, 143, 401 genre, filtering music by, 117 Genres tab (Google Play Music app), 117 gestures double-tapping, 22 dragging, 22 entering text via, 27 for notifications, 17 pinching, 22 for Quick Settings, 17-19 sliding, 22 swiping, 22 touching, 22 touching and holding, 22 Gesture Typing, 27 gift cards, adding/redeeming in Google Wallet app, 326-327 Global Positioning System (GPS), 8 Gmail app, 195. See also email advanced options, 213 conversations, 212 customizing settings, 215-216 Exchange accounts, 221-222

Google accounts, 217-218 POP3/IMAP accounts, 219-220 Google accounts adding, 197-198

multiple accounts,

synchronizing, 198, 218

197-198

labels, 208

launching, 206 manual configuration, 199 navigating, 206-207 POP3/IMAP accounts, adding, 198-202 Priority Inbox, 218 starred email, 208 usernames and passwords, 200 video, sharing, 138 work email accounts, adding, 202-205

Google+, sharing video, 138 Google accounts adding, 197-198 creating, 8 customizing email settings, 217-218 multiple accounts, 197-198 synchronizing, 198, 218	searching with, 247 security, 250 Google Play Books app book reviews, 340 bookmarks, 343 customizing view, 342 downloading books, 344 free books, 339-340 Flowing text, 343	launching, 110 liking/disliking music, 123 listening to music offline, 126 while working, 125-126 Listen Now screen, 115 My Library, 117 navigating, 115-116 next/previous songs,
Google Cloud Print, 214	free book samples, 340	jumping to, 123 Notification panel,
Google Drive, sharing video, 138	launching, 338 moving to specific pages, 341	125-126 pausing music, 123
Google Hangouts, 73 changing default SMS/ MMS app, 81	navigating, 338 Original pages, 343 purchasing books,	playback, customizing, 124, 129 playlists, 118-119
Google Maps configuring, 252, 256-257 directions, getting, 254-256 Explore Around You feature, 253 Google Now, coordinating with, 252, 257 launching, 252 offline usage, 258-259 options, viewing, 252-253 public transportation options, viewing, 254 voice command, 252 Google Maps Micro watch app, 418 Google Music Manager adding existing music to Google Play Music app, 112-113 configuring, 46-49 installing for Mac OS X, 44-45	reading books, 340-341 saving books, 344 searching for books, 339 sharing links, 343 translating text, 343-344 writing notes, 343-344 Google Play Movies & TV app configuring settings, 150-151 launching, 148-149 Google Play Music app, 109 adding existing music to, 112-114 Album tab, 117 on Android Wear watches, 418 Artists tab, 117 changing views, 117 controlling playback, 123-126, 129 customizing settings, 124, 127-129	creating, 119, 124 editing, 120-121 viewing, 124 previous/next songs, jumping to, 123 purchasing music, 111-112 queues, 124-125 repeating music, 124 rewinding/fast forwarding music, 124 shuffling music, 124 song information, viewing, 118 Song tab, 117 Google Play Newsstand app, 345 Article View versus Page view, 349 downloading publications, 348 launching, 345 purchasing publications, 346-347
for Windows, 45 Google Now, 21 accessing, 245-247 commands, 248 configuring, 248-251 Google Maps, coordinating with, 252, 257 initial setup, 11 languages, selecting, 249 listening settings, 249-250	disliking/liking music, 123 downloading music from, 114 fast forwarding/rewind- ing music, 124 filtering music, 117 finding music, 110 free music, 111 Genres tab, 117 graphic equalizer, 129 Instant Mixes, 121-124	reading publications, 348-349 scrolling through publica- tions, 345 subscribing to publica- tions, 346-347 Google Play Store, 282 beaming content from, 187 browsing for Android

Wear watch apps, 420
configuring settings,
289-291
downloaded apps,
viewing, 283
filtering apps, 290
installing apps
free apps, 284-285
permissions, 285
re-installing apps, 291
uninstalling apps, 289
managing apps, 287-288 movies
buying, 143-146
renting, 143-146
music, sending links to,
130
navigating, 282-284
purchasing apps, 286-287
foreign currencies, 286
searching, 283
TV shows, buying,
146-147
updating apps, 288-290
wallpaper, finding, 298
Google Translate, 241
Google Wallet
accounts, configuring,
281-282
configuring, 324, 332
credit cards, 111, 145-147
325
downloading, 323
gift cards, 326-327
Google Wallet Balance,
333
loyalty cards, 328-330 NFC (Near Field
Communications), 323
requesting money, 334-335
sending money, 333-334
steps for using, 331
Tap and Pay setup, 326
Google Wallet Balance, 333
Google website, 362
•
GPS (Global Positioning
System), 8
graphic equalizer (Google

Play Music app), 129 gray icons for voice actions, 419 groups, creating contact groups, 100 group text messaging, 74 guest users, creating, 40-41 gyroscope, 8 Hall Sensor (magnetic fields), 8 handwriting mode, 28 Hangouts app. See Google Hangouts hardware button placement, 5 external features of phone, 3-8 HDR Landscape style (photos), 397 headphone jack, 6 heart rate, viewing on Android Wear watches, 418, 435 help, resources for, 362 hidden networks, adding, 173 hiding calendars, 270 contacts, 101-102 keyboard, 23 week numbers (Calendar app), 271 High Contrast Text, 307 Highlights, 21 history, Chrome browsing, 235-236 Home button, 5, 21 Home screens app folders, creating, 20 app shortcuts, creating,

19

contacts, adding to, 105 features, 16-17 leftmost pane contents, notification gestures, 17 Quick Settings gestures, 17-19 System bar, 20-21 wallpaper, 299 widgets adding, 303-304 moving, 305 removing, 305 resizing, 305 home time zones (Calendar app), 271 hotspots, 191-193 HTC phones File Manager app, 51 Highlights, 21 HTC Sync Manager, 49, 409 People app, 91 Phone app variations, 58 Sense UI, 12 unlocking, 13 Zoe app, 381-383 HTC Sync Manager, 49, 409



icons dragging, 22 gray icons for voice actions, 419 Launcher icon, 17 notification icons, 16 touching, 22 touching and holding, 22 image quality, changing in Camera pp, 370 images. See also icons; photos dragging/dropping in phone calls, 61 synchronizing with Google cloud, 408 wallpaper, finding, 298

453

IMAP accounts adding, 198-202 customizing email settings, 219-220 important emails, Gmail's determination of, 214	JavaScript, enabling/ disabling in Chrome, 241 joining contacts, 103	Camera app, 366 Chrome, 225 Gmail app, 206 Photos app, 383 Play Movies & TV app, 148-149
importing contacts, 107	jumping to specific pages in	YouTube app, 155
in-app purchases, 287	books, 341	LED camera flash, 7
Incognito browser tab (Chrome), 228	K	Lens Blur pictures, shooting, 377-379
initial setup of phone, 8-12	keyboard	letters, capitalizing, 24
inserting, attaching versus,	accented characters,	light sensor, 4
210	typing, 25	liking/disliking music, 123
installing	capitalizing letters, 24	limiting data usage, 361
Android File Transfer, 43-44	customizing, 300-302 displaying, 22-23 entering text, 23	LinkedIn accounts, adding, 84
Android updates, 351-352 Android Wear app, 414 apps Android Wear watches, 426-427 free apps, 284-285 non-Google Play Store apps, 291 re-installing, 291	Gesture Typing, 27 hiding, 23 landscape keyboard, 25 one-handed keyboard, 26 settings, 23 specialty keys, 23 keypad, dialing calls, 57 Kies, 49	links Chrome, actions on, 243 music links, sending to Google Play, 130 sending via Android Beam, 187 sharing from Play Books app, 343 in text messages, 80
<i>uninstalling, 289</i> certificates, 176, 318 Google Music Manager	synchronizing photos with, 410	listening settings (Google Now), 249-250
for Mac OS X, 44-45 for Windows, 45	L	listening to music offline, 126
watch faces, 421	labels (Gmail), 208, 218	Listen Now screen (Google Play Music app), 115
Instant Mixes, 116 Google Play Music app,	landscape keyboard,	live wallpaper, 297-298
121-125	switching to, 25	location information
Internet browser, 243. <i>See</i> also Chrome	landscape orientation Calendar app, 268 Chrome, 231	access (websites), enabling/ disabling in Chrome, 240
interruptions from notifications, customizing, 311-313	photos, 397	location services settings, accuracy of, 143
invitations to events, responding to, 277-279 IP addresses, Wi-Fi and,	language customizing, 306 selecting via Google Now, 249	turn-by-turn directions on Android Wear watches, 436
177-178	large text, 307	Lock screen answering calls, 15
	Launcher icon, 17	configuring settings on,
	launching Android Wear app, 417 apps on Android Wear	14 display settings, 316 notifications on, 14

watches, 434, 437

unlocking, 12-13 voice commands, 14 VPN Lock screen PINs, 179-180 wallpaper, 299 loyalty cards, adding info to Google Wallet app, 328-330	battery, 353 battery care tips, 353 Battery Saver feature, 355 viewing battery usage, 354-355 cleaning Android exterior, 362	deleting messages, 80 forwarding messages, 80 MMS messages, automatic retrieval, 75 overview, 72 receiving messages, 79-80 scheduling messages, 76 size limits, 77
M	updating Android, 351-352	microphone, 6 microphone key, 23
MAC addresses, Wi-Fi and,	manually adding contacts to Contacts app, 93	Micro-USB port, 6
177-178 Mac OS X	manually closing apps, 357	minimized apps, 37
Android File Transfer, installing, 43-44	manually configuring email, 199	Miracast, 314 missed calls, 65-66
Google Music Manager configuring, 46-49 installing, 44-45 moving photos automatically, 407 manually, 405 videos, copying from computer, 153-154 magazines. See Google Play Newsstand app magnetic field sensor, 8 magnification gestures, 307 mail. See email main screen (Calendar app), 268 hiding calendars, 270 scrolling backward, 268 selecting views, 268-269	manually joining contacts, 103 manually separating contacts, 104 manual picture management, 404 Mac OS X, 405 Windows, 406 marking email as spam, 214 MDM (Mobile Device Management), 84 memory usage closing apps that use too much memory, 356-357 freeing, 50-51 moving apps to external memory, 358 viewing on Android Wear watches, 425	MMS (Multimedia Message Service), 71 automatic message retrieval, 75 changing default SMS/ MMS app, 81 mobile data, disabling, 190 Mobile Device Management (MDM), 84 mobile networks. See cellular networks mobile Wi-Fi hotspots, 191-193 money (Google Wallet) requesting, 334-335 sending, 333-334 Month and Agenda view (Calendar app), 269
Main screen (YouTube app), 155	Menu button, 5	Month view (Calendar app), 269
maintenance apps closing, 356-357 determining data usage, 358-359 limiting data usage, 361 moving to external memory, 358 setting data usage warnings, 360	menus, types of, 30 messages. See email; text messaging Messenger app attaching files, 77-79 changing default SMS/ MMS app, 81 composing messages, 75-76 configuring settings, 73-74	movies buying, 143-146 copying from computer Mac OSX, 153-154 Windows OS, 151-153 Google Play Movies & TV app configuring settings, 150-151 launching, 148-149 playing full screen, 159

455

renting, 143-146 synchronizing, 130 viewing download progress, 146 moving apps to external memory, 50, 358 files to SD (Secure Digital) cards, 51 photos automatically, 407 photos manually, 404 Mac OS X, 405 Windows, 406 to specific pages in books, 341 widgets, 305 Multimedia Message Service. See MMS (Multimedia Message Service) multimedia. See movies; music; video multi-page apps, 34 multiple apps per window, 37	streaming configuring settings, 129 from cloud, 112 synchronizing, 130 My Android Phone book site, 362 My Files app, 51 My Library (Google Play Music app), 117 N naming Bluetooth devices, 171 bookmarks in Chrome, 234 playlists in Google Play Music app, 125 VPNs, 180 navigating Android Wear app, 417 Android Wear watches, 428-430	NFC. See NFC (Near Field Communications) VPNs. See VPNs (virtual private networks) Wi-Fi. See Wi-Fi WPS (Wi-Fi Protected Setup), 174 newspapers. See Google Play Newsstand app next/previous songs, jumping to, 123 Nexus Player, 315 NFC (Near Field Communications), 95 contacts beaming information, 95-96 exporting, 107 importing, 107 defining, 184 enabling, 185-186 files, sending, 188 Google Wallet, 323 links to content, sending,
multiple users, 38 creating new, 39-40 guest users, 40-41 restricted profiles, 42 switching, 40 multiple videos, sharing, 139 multi-window mode, 32-38 music. See also Google Play Music app beaming between Android devices, 130 caching, 128 downloading to Android Wear smartwatch, 128 Google Play Store, sending links to, 130 playing on Android Wear watches, 437-441 controlling playback, 123-126, 129 on TV, 164	Camera app, 365-367 Clock app, 263 Contacts app, 90-91 Gmail app, 206-207 Google Play Music app, 115-116 Google Play Store, 282-284 Photos app, 383-385 Play Books app, 338 YouTube app, 156-157 Near Field Communications. See NFC (Near Field Communications) network operators, selecting manually, 191 networks cellular changing settings, 189-190 selecting network operators manually, 191	nusic, beaming between devices, 130 radio, 7 NFC tags, Wi-Fi information on, 175 noise-cancelling microphone, 6 non-Google Play Store apps, installing, 291 notes dictating on Android Wear watches, 420, 434 writing in Play Books app, 343-344 Notification panel, 16 Google Play Music app, 125-126 notification icons, 16 notifications Android Wear app, 415-416, 423 Android Wear watches, 428, 438-439

customizing settings, 310-313 email, 217, 222 for events editing, 276 setting, 272 gestures for, 17 reading on Lock screen, 14 numbers, typing, 24



offline, using Google Maps, 258-259
one-handed keyboard, 26
opening bookmarks in Chrome, 234
optical zoom feature
(Camera app), 367-368
optimizing battery life, 353-355
Original pages (Play Books app), 343
original photo, reverting to, 389
Overview button, 5, 21, 31



pages in books, moving to

specific pages, 341
Page View (Play Newsstand app), 349
pairing Bluetooth devices, 168-169
Android Wear watches, 415
pairing codes, 169
reverse pairing, 170
pairs of apps, presetting, 38
panoramic pictures
Photo Spheres, 375-376
sharing, 387

shooting, 372-375

parental controls, restricted profiles, 42 Passpoint, 178 passwords Chrome encryption, 237 saving passwords, 238 Gmail app, 200 Remote Security Administration, 87 settings, Google Play Store, 290 spoken passwords, 309 visibility, 317 VPNs, 182 pasting text, 29 Path video, sharing, 138 pauses when dialing calls, 57 pausing music, 123 payments, making via Google Wallet app configuring, 324, 332 credit cards, 111, 145-147, 325 gift cards, 326-327 Google Wallet Balance, loyalty cards, 328-330 steps for, 331 Tap and Pay setup, 326 PDF, printing email, 214 People app. See Contacts app permissions, installing Google Play apps, 285 personal information Chrome security, 240 location information access (websites). enabling/disabling in Chrome, 240

Phone app, 53. See also

conference calls, 66-67

configuring settings,

Contacts app

68-70

dialing calls, 54 contacts, 59 keypad, 57 pauses and waits, 57 Recents tab. 56 searching contacts, 55 speaking search terms, 55-56 receiving calls accepting calls, 62 missed calls, 65-66 rejecting calls, 64 sending Quick Responses, 64-65 variations by manufacturer, 58 phone calls. See calls phone numbers in text messages, 80 photo albums, deleting, 385 Photo Spheres (360 panoramic pictures), 375-376 sharing, 387, 397 photos. See also Photos app attaching to email, 209-211 to text messages, 77-79 Auto Backup, 140 backup services, 141 contacts, adding to, 97-98 cropping, 98, 388 editing, 387-389 applying filters, 390 black-and-white style, 396 Center Focus style, 399 dramatic style, 395 fine-tuning, 391-392 HDR Landscape style, 397 Retrolux style, 398 reverting to original, 389 sharpness, 393 Tilt Shift style, 400 vintage style, 394 focusing, 372 moving automatically (Mac OS X), 407

moving manually, 404 Mac OS X, 405 Windows, 406 photo albums, deleting, 385 rotating, 388 setting as wallpaper, 296-297, 387	physical layer, 178 Pictures folder, 405-407 pinching, 22 pinch to zoom feature Camera app, 367-368 Chrome, 232 pinning apps, 320	portrait orientation (Chrome), 230 power button, 7 preset pairs of apps, 38 previewing live wallpaper, 298 widgets, 304
sharing, 386 Photo Spheres, 387, 397 shooting, 371-372 on HTC phones, 381-383 Lens Blur pictures, 377-379	PINs, Lock screen (VPNs), 179-180 playback (music), controlling, 123-126, 129 Play Books app. <i>See</i> Google	previous/next songs, jumping to, 123 printing email, 214 web pages, 229 Priority Inbox (Gmail), 218
panoramic pictures, 372-375 Photo Spheres, 375-376 on Samsung phones, 379-381 while recording video, 132 synchronizing with Google Cloud, 408-409 with HTC Sync Manager, 409 with Samsung Kies, 410 viewing, 386 storage locations, 135-136, 384 wallpaper, changing, 295-296 live wallpaper, 297-298 Lock screen versus Home screen, 299 static wallpaper, 299	Play Books app playing music on Android Wear watches, 437-441 on TV, 164 video full screen, 159 Photos app, 134-137 on TV, 164 YouTube video, 158-159 playlists (Google Play Music app), 118-119 creating, 119, 124 deleting, 120-121 editing, 120-121 viewing, 124 Play Movies & TV app. See Google Play Movies & TV app Play Music app. See Google Play Music app	privacy settings Chrome, 238 initial setup, 11 problems, solving. See troubleshooting profiles Bluetooth profiles, 171 VPN profiles, adding, 180 promotional emails, 206 proxies, 242 proximity sensor, 4 publications. See Google Play Newsstand app public transportation options, viewing in Google Maps, 254 purchasing. See buying
Photos app. See also photos configuring settings, 140-142, 402-403 deleting photo albums, 385 navigating, 383-385 storage locations, 135-136, 384 video deleting, 139 playing, 134-137 sharing, 137-139 uploading, 139	Play Newsstand app. See Google Play Newsstand app Play Store. See Google Play Store POP3 accounts adding, 198-202 customizing email settings, 219-220 pop-up apps, 33 pop-up blocking, 242	queues (music), 124-125 Quick Responses, 272 Calendar app editing in, 272 sending, 273 sending to calls, 64-65 Quick Settings, gestures for, 17-19

R
Radio Frequency Identification (RFID), 184
radios, 7-8, 95
Radio Stations. <i>See</i> Instant Mixes
Reader View in Internet browser, 243
reading books, 340-341 email
determining important emails, 214 with Gmail app,
witii Ginali арр, 211-213
free book samples, 340 publications, 348-349 reviews (books), 340
read reports, 75
rear-facing camera, 7
receiving calls accepting calls, 62
missed calls, 65-66 rejecting calls, 64 sending Quick Responses, 64-65
text messages, 79-80
Recent Apps button, 5, 21
Recents tab, dialing calls, 56
recording video, 131-132
recurring events, creating, 275
redeeming gift cards in Google Wallet app, 326-327
Reduce Data Usage, 242
refreshing websites in Chrome, 226
re-installing apps, 291
rejecting calls, 64
reminders, creating on Android Wear watches, 435
Remote Security Administration, 87

removing. <i>See</i> deleting
renaming Bluetooth devices, 171 bookmarks in Chrome, 234
renting movies, 143-146
repeating music, 124
replying to email on Android Wear watches, 438 with Gmail app, 212
repositioning shortcuts, 106
requesting money via Google Wallet, 334-335
resizing text in Chrome, 240 widgets, 305
resolution, changing in Camera app, 370
responding to Gmail event invitations, 277-279
restoring deleted video, 139
restricted profiles, creating, 42
Retrolux style (photos), 398
Return key, 23
reverse pairing Bluetooth devices, 170
Reversi app, 434
reverting to original photo, 389
reviews (books), reading via Play Books app, 340
rewinding/fast forwarding music, 124
RFID (Radio Frequency Identification), NFC as, 184
ringtones Calendar app, 272 changing, 68 choosing, 311
roaming enabling/disabling, 190 selecting network operators manually, 191

rotating
photos, 388
screen, 22
RTF (Rich Text Formatting) in
email, 211
RunKeeper app, 420
runs, starting on Android
Wear watches, 419-420,
435

S

S Beam

enabling, 186 troubleshooting beaming files, 188 S Pen (Samsung phones), 28 Samsung Kies, 49 synchronizing photos with, 410 Samsung phones camera modes, 379-381 Contacts app, 91 extra features during calls, 63 Flipboard, 21 Galaxy Apps store, 292 handwriting mode, 28 Kies, 49, 410 Month and Agenda view (Calendar app), 269 multi-window mode, 32-38 My Files app, 51 one-handed keyboard, 26 Phone app variations, 58 Quick Settings gestures, S Beam, enabling, 186 Service Loading feature, 74 TouchWiz, 12 troubleshooting beaming files, 188 unlocking, 13 wallpaper, 299 saturation of photos, 391-392

settings **459**

saving attachments to text messages, 80 bookmarks in Chrome, 234-235 books in Play Books app, 344 contact groups, 100 passwords in Chrome, 238 scaling text, 242 Schedule view (Calendar app), 269	pop-up blocking, 242 Remote Security Administration, 87 spoken passwords, 309 websites, browsing in secret, 228 selecting views in Calendar app, 268-269 watch faces, 421-422, 432 Selective Focus pictures (Samsung), shooting, 379 sending	app memory usage, 355-357 battery usage, 354-355 Bluetooth general settings, 170-171 pairing devices, 168 Calendar app, 270-272 Camera app, 368-371 video settings, 133-134 cellular networks, 189-190 Chrome, 228-229, 236-241
scheduling text messages, 76	email	Clock app
screen brightness, adjusting, 263 cleaning, 362 pinning, 320	from Android Wear watches, 436 with Gmail app, 208 files via Android Beam, 188	alarms, 264-266 general settings, 266-267 configuring on Lock
screen rotation, 314 enabling/disabling, 308	links via Android Beam, 187	screen, 14 Contacts app, 99
scrolling magazines via Play Newsstand app, 345 main screen (Calendar app), 268	money via Google Wallet, 333-334 Quick Responses <i>Calendar app, 273</i>	data usage, 358-359 display settings, 313-314 Gmail adding accounts, 196 advanced options, 213
SD (Secure Digital) cards moving apps to, 50 moving files to, 51	to calls, 64-65 text messages from Android Wear watches, 435	Exchange account settings, 221-222 general settings, 215-216
searching	Sense UI, 12	Google accounts,
books via Play Books app, 339 contacts to dial calls, 55 with Google Now, 247 Google Play Store, 283 speaking search terms, 55-56	sensors, 4, 7-8 separating contacts, 104 Service Loading feature (Samsung), 74 settings accessibility settings,	197-198, 217-218 POP3/IMAP accounts, 198-202, 219-220 work email accounts, 202-205 Google Maps, 256-257 Google Now, 248-251
security client certificates, 86 customizing settings, 315-318 email, 202 Google Now, 250 location information access (websites), enabling/disabling in Chrome, 240 personal information and Chrome, 240	307-309 Android Wear app general settings, 422-424 voice actions, 418-420 watch faces, 421-422 Android Wear watches general settings, 431-433 initial setup, 413-416 voice action usage, 434-438	Google Play Music app general settings, 127-129 graphic equalizer settings, 129 playback settings, 124 Google Play Store, 289-291 Google Wallet, 281-282 general settings, 332 security, 324 keyboard, 23, 300-302 language, 306

location settings, accuracy of, 143	photos, 386 Photo Spheres, 387, 397	smiley faces in text messages, 76
Messenger app, 73-74 multiple users	text messages, 80 video	SMS (Short Message Service). See text messaging
creating new, 39-40 guest users, 40-41	Bluetooth, 139 Photos app, 137-139	snooze period (Clock app), setting, 267
restricted profiles, 42 switching, 40 multi-window mode, 32	web page addresses in Chrome, 229	social media accounts, adding, 84
NFC, enabling, 185-186	sharpness of photos, 393	solving problems. See
Phone app, 68-70	Shift key, 24	troubleshooting
Photos app, 140-142 black-and-white style, 396 Center Focus style, 399	shooting photos, 371-372 on HTC phones, 381-383 Lens Blur pictures, 377-379 panoramic pictures,	songs. <i>See also</i> music filtering music by, 117 information, viewing, 118 Song tab (Google Play Music
configuring, 402-403 dramatic style, 395	372-375	app), 117
HDR Landscape style,	Photo Spheres, 375-376	sorting contacts, 68, 99
397 Retrolux style, 398 Tilt Shift style, 400	on Samsung photos, 379-381	sound and notification set- tings, customizing, 310-313
vintage style, 394	shortcuts app shortcuts, 17, 19	spam, marking email as, 214
Play Books app, 342-343	contacts, adding to Home	speaking search terms, 55-56
Play Movies & TV app, 150-151	screen, 105 removing, 106	specialty keys on keyboard, 23
Quick Settings, gestures	repositioning, 106	split-screen apps, 32-36
for, 17-19 security settings, 315-318	Short Message Service (SMS).	spoken passwords, 309
sound and notification	See text messaging	SSIDs, 173
settings, 310-313	showing. See viewing	SSL, 202
voice commands in sleep	shuffling music, 124	starred email (Gmail), 208
mode, 14 VPNs	signatures (email), 217-221	starting
accessing quickly, 183	SIM card locks, 317	Android Wear watches,
adding VPNs, 179-180	size limits	433
Wi-Fi	attaching files to text messages, 79	apps on Android Wear watches, 434, 437
advanced network options, 176-177	text messages, 77	bike rides, 419-420
connecting to Wi-Fi, 172	sizing text Chrome, 240	mobile Wi-Fi hotspots, 191-193
mobile Wi-Fi hotspots,	Gmail app, 216	runs, 419-420, 435
191-193	Sleep mode (Wi-Fi), 176	stopwatch, 434, 437
<i>network options, 175</i> YouTube app, 162	keeping Wi-Fi on during,	workouts, 420
	177	static wallpaper, 299
setup of phone, 8-12	voice commands, 14	steps (walking), viewing on
sharing contact information, 94,	sleep settings, 314	Android Wear watches, 419, 435
107	sliding, 22	stopping apps, 356-357
links from Play Books app, 343	Smart Lock, 316, 318-319	11 Jan 19

time **461**

stopwatches on Android Wear watches, 419, 434, 437 storage locations for photos, 135-136, 384	contacts determining what to synchronize, 89 troubleshooting con- tact information, 86	handwriting mode, 28 with keyboard, 23-25 Flowing text (Play Books app), 343 font size, setting, 314
Story View (Play Newsstand app), 349	from work email account, 85-89 date/time, 262	High Contrast Text, 307 large text, 307 resizing
streaming music configuring settings, 129 from cloud, 112	Google accounts, 198, 218 movies, 130	Chrome, 240 Gmail app, 216 scaling, 242
styles (photos) black-and-white style, 396 Center Focus style, 399 dramatic style, 395 HDR Landscape style, 397 Retrolux style, 398 Tilt Shift style, 400 vintage style, 394	music, 130 photos with Google Cloud, 408-409 with HTC Sync Manager, 409 with Samsung Kies, 410 TV shows, 130	translating Chrome, 241 Play Books app, 343-344 text messaging, 71. See also MMS (Multimedia Message Service) attaching files, 77-79
subscribing to publications, 346-347	work email account, 204-205, 221-222	changing default SMS/ MMS app, 81
Sunlight mode (Android Wear watch), 430	System Bar, 20-21	composing messages, 75-76 deleting messages, 80
swiping, 22 Google Play Music app views, changing, 117 in video, 159	tabs, Chrome, 227 alternative to default	delivery reports, 75 forwarding messages, 80 group texts, 74 Messenger app
Switch Access, 307-308	behavior, 238	configuring settings,
switching between users, 40	viewing, 230	73-74
symbols, typing, 24	taking photos. See shooting photos	<i>overview, 72</i> read reports, 75
Symbols key, 24	TalkBack, 307	receiving messages, 79-80
synchronization software Android File Transfer, installing, 43-44	Tap and Pay (Google Wallet), configuring, 326 telephone calls. <i>See</i> calls	scheduling messages, 76 sending messages from Android Wear watches, 435
Google Music Manager configuring, 46-49	tethering, 190	size limits, 77
installing, 44-45 HTC Sync Manager, 49	USB and Bluetooth, 192 text	text-to-speech services, 309-310
Kies, 49 synchronizing	adding to dictionary, 24 copying and pasting, 29	Theater mode (Android Wear watch), 430
with Android Wear watches, 415, 424	customizing in Play Books app, 342	Tilt Map view (Google Maps), 257
calendars (Calendar app), 272	dragging/dropping in phone calls, 61	Tilt Shift style (photos), 400
in Chrome, enabling/ disabling, 237	editing, 29 entering dictation mode, 26-27 with gestures, 27	time. <i>See also</i> Clock app setting, 261-262 synchronizing, 262

time zones (Calendar app), 271
timers on Android Wear watches, 418 setting, 436
Title, People, and Places Wizard, 274
TLS, 202
touching and holding icons, 22
touching icons, 22
touchscreen, 4. See also Home Screens; Lock screen gestures, 22 rotating, 22 unlocking, 12-13
TouchWiz, 12
translating text Chrome, 241 Play Books app, 343-344
trimming video in YouTube app, 161
troubleshooting
apps
closing, 356-357
determining data
usage, 358-359 limiting data usage,
361
moving to external
memory, 358
setting data usage
warnings, 360
battery life, 353
battery care tips, 353 Battery Saver feature, 355
viewing battery usage, 354-355
beaming files, 188
email account synchro-
nization with Contacts
app, 86
help and resources, 362 updating Android, 351

video sharing via Bluetooth, 139 Wi-Fi connections, 174 trust agents, 318-319 TTY mode, configuring, 69 turn-by-turn directions on Android Wear watches, 436 TV, playing video on, 164 TV shows. See also Google Play Movies & TV app buying, 146-147 copying from computer Mac OSX, 153-154 Windows OS, 151-153 playing full screen, 159 synchronizing, 130 Twitter accounts, adding, 84 typing. See entering text



UMA (Universal Media Access), 71, 189 undeleting video, 139 uninstalling apps, 289 unlocking phone, 12-13, 316 Ambient Display, 13 Smart Lock, 319 unpairing Bluetooth, 171 update emails, 206 updating Android, 351-352 apps, 288-290 uploading music to Google Play Music app, 112-114 video Photos app, 139 YouTube video, 159-161 usage information for apps, 318 USB tethering, 192

usernames Gmail app, 200 VPNs, 182 users, multiple, 38 creating new, 39-40 guest users, 40-41 restricted profiles, 42 switching, 40



vCards adding to Contacts app, 94 exporting contacts, 107 importing contacts, 107 verifying VPN (virtual private network) connections, 182 Verizon phones, call settings, 70 vibration, turning on/off, 68 video. See also Google Play Movies & TV app; Photos app; YouTube app Auto Backup, 140 backup services, 141 beaming YouTube video, configuring settings in Camera app, 133-134 copying from computer Mac OS X, 153-154 Windows OS, 151-153 deleting, 139 movies buying, 143-146 renting, 143-146 viewing download progress, 146 playing full screen, 159 in Photos app, 134-137 on TV, 163-164 recording in Camera app, 131-132 sharing, 137-139

swipe gestures, 159 TV shows, buying, 146-147 uploading, 139 video format, changing in	steps (walking) on Android Wear watches, 419, 435 video full screen, 159
Camera app, 370	in Photos app, 134-137 on TV, 163-164
viewing agenda on Android Wear watches, 436 app information screen, 31 battery usage, 354-355 on Android Wear	week numbers (Calendar app), 271 YouTube app, 158-159 views, selecting in Calendar app, 268-269 vintage style (photos), 394
watches, 424-425 browser tabs in Chrome,	virtual private networks. See VPNs
230 calendars in Calendar	visibility of passwords, 317
app, 270 cellular and Wi-Fi usage, 359 contacts in Contacts app, 101-102	voice actions Android Wear app, configuring, 418-420 Android Wear watches, usage, 434-438
data usage, 358-359 download progress for movies, 146 downloads from Google Play Store, 283 events in Android Wear	voice commands dictation mode, 26-27 Google Maps, 252 in sleep mode, 14 speaking search terms, 55-56
app, 424 Google Map options,	voicemail, configuring, 69
252-253	Voice Privacy, 70
heart rate on Android	VoLTE (Voice over LTE), 70
Wear watches, 418, 435 keyboard, 22-23 memory usage on Android Wear watches, 425	volume alarms, adjusting, 267 changing, 311 volume buttons, 7
photos, 384-386 playlists, 124 public transportation options in Google Maps, 254 purchases from Google Play Store, 283 song information in Google Play Music app, 118	VPNs (virtual private net- works), 178 accessing quickly, 183 adding, 179-180 always-on VPNs, 184 connecting to, 181-182 deleting, 183 editing, 183 Lock screen PINs, configuring, 179-180 profiles, adding, 180

W

waits, dialing calls, 57 waking up Android Wear watches, 433 walking steps, viewing on Android Wear watches, 419, 435 wallpaper, changing, 295-296 finding wallpaper, 298 live wallpaper, 297-298 Lock screen versus Home screen, 299 from Photos app, 296-297 setting photos as, 387 static wallpaper, 299 watches, See Android Wear watches watch faces, selecting, 421-422, 432 web addresses, typing in, web browsers. See Chrome websites in Chrome Autofill forms feature, 238 bookmarks, 226, 233-235 browsing history, 235-236 browsing websites via Incognito browser tab, 228 cookies, 242 crash reports, 239 customizing browser settings, 236-241 entering data in address bar, 239 Google Translate, 241 JavaScript, 241 landscape orientation, 231 links, actions on, 243 location information access, 240

passwords, 238

network options, 175-176

Sleep mode, keeping

connected in, 177

connections, 174

viewing usage, 359

multiple apps in, 37

multi-window mode,

Google Music Manager

configuring, 46-49

moving photos manually,

installina, 45

settings, 221-222

synchronizing, 204-205

contacts, 85-89

Passpoint, 178

troubleshooting

Wi-Fi calling, 71, 189 Wi-Fi (WLAN) radio, 7

windows

Windows

32-38

SSIDs, 173

personal information, security and, 240 pop-up blocking, 242 portrait orientation, 230 printing pages, 229 Privacy settings, 238 Reduce Data Usage, 242 refreshing websites, 226 resizing text, 240 sharing addresses, 229 synchronization, 237 viewing browser tabs, 230 zooming in/out screen, 232-233
week numbers (Calendar app), displaying/hiding, 271
widgets, 17 adding to Home screens,

v 303-304 moving, 305 previewing, 304 removing, 305

Wi-Fi, 172 connecting to, 172-174 hidden networks, adding, IP addresses, 177-178 MAC addresses, 177-178 mobile Wi-Fi hotspots, 191-193 music

streaming from clouds,

112

406 videos, copying from computer, 151-153 Wireless Fidelity. See Wi-Fi resizing, 305 Wishlist (Google Play Store), 283 WLAN (Wi-Fi) radio, 7 words, adding to dictionary, 24 work email accounts adding, 202-205 client certificates, 86 customizing email listening offline, 126

workouts, starting on Android Wear watches, 420 WPS (Wi-Fi Protected Setup) networks, 174 writing email with Gmail app, 208 notes in Play Books app, 343-344



YouTube app customizing settings, 162 Main screen, 155 navigating, 156-157 video connected TVs, 163 editing properties, 160 playing, 158-159 trimming, 161 uploading, 159-161 YouTube videos

beaming, 187 sharing, 138

Zoe app, 381-383 zooming in/out Camera app, 367-368 Chrome screen, 232-233

CHECK OUT MUST-HAVE BOOKS IN THE BESTSELLING MY...SERIES









ISBN 13: 9780789753687

ISBN 13: 9780789754509

ISBN 13: 9780789755124

ISBN 13: 9780789755049

Full-Color, Step-by-Step Guides

The "My..." series is a visually rich, task-based series to help you get up and running with your new device and technology and tap into some of the hidden, or less obvious features. The organized, task-based format allows you to quickly and easily find exactly the task you want to accomplish, and then shows you how to achieve it with minimal text and plenty of visual cues.

Visit quepublishing.com/mybooks to learn more about the My... book series from Que.



SAVE 35% NYOUR NEXT PURCHASE!

How to Register Your Product

- Go to quepublishing.com/register
- Sign in or create an account
- Enter ISBN: 9780134132969

Benefits of Registering

- Ability to download product updates
- Access to bonus chapters and workshop files
- A 35% coupon to be used on your next purchase – valid for 30 days
 To obtain your coupon, click on

"Manage Codes" in the right column of your Account page

 Receive special offers on new editions and related Que products

Please note that the benefits for registering may vary by product. Benefits will be listed on your Account page under Registered Products.

We value and respect your privacy. Your email address will not be sold to any third party company.

* 35% discount code presented after product registration is valid on most print books, eBooks, and full-course videos sold on QuePublishing.com. Discount may not be combined with any other offer and is not redeemable for cash. Discount code expires after 30 days from the time of product registration. Offer subject to change.