

Android® Smartphones



dümmies

Get started with the Android operating system

Set up and customize your device

Send messages, take photos, and download apps

J.F. DiMarzio

Wrote the first Android user guide in 2008 for version 0.8



Android Smartphones

by J.F. DiMarzio



Android® Smartphones For Dummies®

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Table of Contents

Cover

Title Page

Copyright

Introduction

About This Book

Foolish Assumptions

Icons Used in This Book

Beyond the Book

Where to Go from Here

Part 1: The Unboxing

Chapter 1: Introducing All Things Android

What Are Android Devices?

Looking at the Different Flavors of Android

<u>Transitioning from an iPhone to an Android: It's Possible!</u>

Chapter 2: Checking Out and Charging What's in the Box

Your Contents May Vary

What Should You Keep (and What You Can Discard)

Installing the SIM Card

A Quick Tour of Your Device's Hardware

Keeping Your Device Charged and Current

Caring for Your Smartphone

Chapter 3: Deciding on Carrier Service

What Are Locked and Unlocked Smartphones?

Big Box Carriers: No, They Aren't Used for Moving

Checking Out Alternative Carriers

What Can You Do Without Service?

Chapter 4: Setting Up Your Device

Activating Your Phone

Parlez-Vous Français? Android Is Multilingual

Customizing Your Vision Settings

Accessing Wi-Fi

Adding a Gmail Account

Setting Up Security

How About a Couple of Extras?

Setting Up Multiple Users

<u>Chapter 5: Tapping and Swiping Your Way around the Phone</u>

Starting with Standard Navigation

Moving on to Advanced Navigation

Part 2: The Grand Tour

Chapter 6: Unlocking the Secrets of the Screens

The Lock Screen versus the Home Screen(s)

Securing Access to the Phone with the Lock Screen

Chapter 7: G-Whiz: The Google Experience

Keeping Tabs on Your Life

Emailing and Sending Messages

Capturing Special Moments

Figuring Out the Functional Side of Google

<u>Chapter 8: Investigating Apps for Everything</u>

Exploring the Preinstalled Apps

Installing New Apps

Viewing App Information

Moving and Organizing Apps

Sideloading Apps

Chapter 9: Finding Widgets for Your Gadget

What Is a Widget?

<u>Selecting, Placing, and Sizing Widgets</u>

Removing Widgets

Chapter 10: Enjoying Quick Access Features

Settings That Help You Use Your Device

Settings That Help You Use Other Devices

Settings That Help Apps Help You

Editing the Quick Access Screen

Chapter 11: Staying in the Know with Notifications

Receiving Notifications

Using the Notification Drawer

<u>Swiping for More Information</u>

Configuring Notifications

Setting Do Not Disturb

Chapter 12: Customizing Your Settings

Resting Your Eyes with Night Light

Where Did My Memory Go?

Keeping Your Life in Balance with Digital Wellbeing

<u>Understanding the Volume Controls</u>

Part 3: Communicating Anytime, Anywhere Chapter 13: Texting to Keep in Touch

Exploring Messages

<u>Tap, Tap, Typing and Other Ways to Enter Your Message</u>

Copying, Pasting, and Deleting Texts

Group Texting

Using Third-Party Texting Apps

Chapter 14: Using the Phone as a ... Phone

Seeing Who's Who in Your Life

Making Contact with Your Contacts

Being Prepared for an Emergency

<u>Chapter 15: Browsing the Internet and Maintaining Your Privacy</u>

Feeling at Home with Chrome

<u>Installing Third-Party Browsers</u>

Chapter 16: Keeping It Social

Installing Social Media Apps

Using Social Media

Chapter 17: Smile! Using the Camera

Opening the Camera App

Navigating the Camera Interface

Holding Your Phone for the Best Shot

Editing Your Images

Part 4: Personalizing Just the Way You Like It Chapter 18: Customizing Your Device

Setting Custom Ring Tones and Notification Sounds

Adding a Splash of Color

<u>Setting Wallpaper Images</u>

Changing the Font Size

Chapter 19: Saying 'Hey' to Google

<u>Getting the Most from Your Smartphone with Google Assistant</u>

Setting Up Google Assistant

<u>Creating Google Assistant Routines</u>

Part 5: The Part of Tens

Chapter 20: Ten Cool Tips and Tricks

Send Someone Your Current Location

Double-Tap to Wake Up

<u>Turn Your Smartphone into a Ruler</u>

Take a Screenshot

Access App Context Menus

Switch to One-Handed Mode

Screencast

Tap and Zoom

Disable App Notifications

Use the Two-Finger Swipe

Chapter 21: Ten Settings to Enable

Skip Lock Screen

Wireless Emergency Alerts

Battery Percentage

Dial Pad (DTMF) Tones

Screen Timeout

Night Light

Auto-Rotate Screen

Screen Lock

Emergency Location Service

Find My Device

Chapter 22: Ten Settings to Disable

Turn On Wi-Fi Automatically

Sensitive Notifications

Show Media Recommendations

Identify Songs Playing Nearby

Adaptive Brightness

Add Users from Lock Screen

Show Wallet

Personalize Using App Data

Developer Options

Back Up Using Mobile Data

Index

About the Author

Connect with Dummies

End User License Agreement

List of Illustrations

Chapter 2

FIGURE 2-1: The protected handset.

FIGURE 2-2: Some light reading material.

FIGURE 2-3: The electrical bits included with the Google Pixel 4 XL.

FIGURE 2-4: All of the goodies.

FIGURE 2-5: Everything that is not part of the smartphone.

FIGURE 2-6: The secret SIM tray access point.

FIGURE 2-7: An empty SIM card tray.

FIGURE 2-8: The SIM card installed.

FIGURE 2-9: The front of the smartphone.

FIGURE 2-10: The back of the smartphone.

Chapter 4

FIGURE 4-1: Preparing for setup.

FIGURE 4-2: The initial greeting screen.

FIGURE 4-3: You can choose from lots of languages.

FIGURE 4-4: Making sure you can see your screen.

FIGURE 4-5: Looking for Wi-Fi.

FIGURE 4-6: Connecting to the Internet.

```
FIGURE 4-7: Copying data from one Android phone to another.
```

FIGURE 4-8: Entering your account information.

FIGURE 4-9: Two-factor authentication.

FIGURE 4-10: Setting up your fingerprint.

FIGURE 4-11: Setting the backup PIN.

FIGURE 4-12: Setting up Google Assistant.

FIGURE 4-13: Android recognizes your voice.

FIGURE 4-14: The default home screen after the initial setup.

FIGURE 4-15: The current user(s).

FIGURE 4-16: Confirming your choice.

Chapter 5

FIGURE 5-1: The search bar at the bottom of the home screen.

Chapter 6

FIGURE 6-1: The lock screen.

FIGURE 6-2: The notification drawer and gear icon.

FIGURE 6-3: The default home screen.

FIGURE 6-4: The Power Menu.

Chapter 7

FIGURE 7-1: You look busy.

FIGURE 7-2: Changing your view.

FIGURE 7-3: On July 4, I don't have much going on.

FIGURE 7-4: Keeping good time with the Clock app.

FIGURE 7-5: Is it time for bed?

FIGURE 7-6: A blank email.

FIGURE 7-7: The Message interface.

FIGURE 7-8: The default camera view.

FIGURE 7-9: The Maps icon default view. Go Sox!

FIGURE 7-10: The Tab view.

FIGURE 7-11: Google Pay, or GPay.

Chapter 8

FIGURE 8-1: The Android Phone app.

FIGURE 8-2: Files, files, and more files.

```
FIGURE 8-3: Let's watch a movie.
```

FIGURE 8-4: Play some music.

FIGURE 8-5: Some settings.

FIGURE 8-6: Let's play! The Play Store home screen.

FIGURE 8-7: Helpful information about apps.

FIGURE 8-8: Gmail sends me approximately 15 notifications per day.

FIGURE 8-9: There's no place like home.

FIGURE 8-10: Categorizing two apps.

FIGURE 8-11: An app folder.

Chapter 9

FIGURE 9-1: The home screen context menu.

FIGURE 9-2: Widgets, widgets, everywhere!

FIGURE 9-3: Widget options.

FIGURE 9-4: The App grid option.

FIGURE 9-5: So many sizes!

FIGURE 9-6: Placing the widget on your home screen.

FIGURE 9-7: The widget is in place.

FIGURE 9-8: Resizing the widget.

FIGURE 9-9: Remove that unwanted widget.

Chapter 10

FIGURE 10-1: The notification drawer with a few of the quick access settings.

FIGURE 10-2: Quick access! More settings to choose from.

FIGURE 10-3: Even more quick access settings.

FIGURE 10-4: My external device.

FIGURE 10-5: Turn off Wi-Fi when you are roaming around.

FIGURE 10-6: Here's where you turn on your hotspot.

FIGURE 10-7: Casting a wide net.

Chapter 11

FIGURE 11-1: The notification bar.

FIGURE 11-2: The notification drawer.

FIGURE 11-3: Silent but ... visible.

FIGURE 11-4: One Outlook notification.

FIGURE 11-5: It's starting to feel a little crowded.

FIGURE 11-6: More information about the Outlook notifications.

FIGURE 11-7: The full preview.

FIGURE 11-8: Reply from Outlook.

FIGURE 11-9: Different action buttons appear based on

notification type.

FIGURE 11-10: Settings for notifications.

FIGURE 11-11: Adjusting app settings.

FIGURE 11-12: Do not disturb.

Chapter 12

FIGURE 12-1: Display settings.

FIGURE 12-2: The Night Light configuration screen.

FIGURE 12-3: Night Light turned off.

FIGURE 12-4: Night Light turned on.

FIGURE 12-5: Storage settings.

FIGURE 12-6: Apps, apps, and more apps.

FIGURE 12-7: Storage settings for the Facebook app.

FIGURE 12-8: Android found some junk.

FIGURE 12-9: Memories! All alone in the ...

FIGURE 12-10: A breakdown of memory stats.

FIGURE 12-11: Lots of apps are using lots of memory.

FIGURE 12-12: A snapshot of your wellbeing.

FIGURE 12-13: A detailed look at app usage.

FIGURE 12-14: Limiting usage.

FIGURE 12-15: Time to focus.

FIGURE 12-16: Goodnight phone.

FIGURE 12-17: The ringer volume slider.

FIGURE 12-18: Adjust the volume of all media in this handy screen.

Chapter 13

FIGURE 13-1: The Messages icon.

FIGURE 13-2: OWERTY to the rescue.

```
FIGURE 13-3: Long press letter options.
```

FIGURE 13-4: The GBoard includes accents!

FIGURE 13-5: Special character keyboard.

FIGURE 13-6: Emojis.

FIGURE 13-7: Stickers! Like the 1980s only more electronic.

FIGURE 13-8: GIFs.

FIGURE 13-9: Swiping out the word "It's."

FIGURE 13-10: Keyboard options.

FIGURE 13-11: Google Voice Typing keyboard: ready and listening.

FIGURE 13-12: A message in Select mode.

FIGURE 13-13: Starting a new group conversation.

FIGURE 13-14: A new group.

Chapter 14

FIGURE 14-1: 3-2-1 contact! The default Contacts screen.

FIGURE 14-2: Creating a contact.

FIGURE 14-3: Phone dialer contacts screen.

FIGURE 14-4: A contact's contact screen.

FIGURE 14-5: Recent calls.

FIGURE 14-6: Telephone keypad.

FIGURE 14-7: Emergency settings.

FIGURE 14-8: Changing the emergency phone number.

Chapter 15

FIGURE 15-1: The Chrome browser.

FIGURE 15-2: Using the keyboard to search the web.

FIGURE 15-3: Google Lens.

FIGURE 15-4: Mysterious flowers.

FIGURE 15-5: Roses!

FIGURE 15-6: An expensive paintbrush.

FIGURE 15-7: Current open tabs.

FIGURE 15-8: A new tab.

FIGURE 15-9: Selecting tabs to group.

FIGURE 15-10: A group of tabs.

FIGURE 15-11: Installing a third-party browser.

Chapter 16

FIGURE 16-1: Lots of results for social media apps.

FIGURE 16-2: The Facebook news feed.

FIGURE 16-3: Wares for sale.

FIGURE 16-4: Creating a new Facebook post.

FIGURE 16-5: Giving Facebook access to your photos.

FIGURE 16-6: See something interesting?

FIGURE 16-7: Picking people to follow on Instagram.

Chapter 17

FIGURE 17-1: The default camera interface.

FIGURE 17-2: Camera settings for a Pixel smartphone.

FIGURE 17-3: Finding the top shot.

FIGURE 17-4: Image file save locations.

FIGURE 17-5: Quick image sharing.

FIGURE 17-6: More camera settings.

FIGURE 17-7: Look, Ma! No lines.

FIGURE 17-8: Zoom, zoom, zoom. Switching to the 2x camera.

FIGURE 17-9: A portrait.

FIGURE 17-10: Video mode.

FIGURE 17-11: Panorama mode.

FIGURE 17-12: Photo Sphere mode.

FIGURE 17-13: The Camera app photo editor.

FIGURE 17-14: Brightness.

FIGURE 17-15: Contrast.

FIGURE 17-16: It's getting hot in here.

FIGURE 17-17: Adjusting the tint.

FIGURE 17-18: Lots of Snapseed options!

Chapter 18

FIGURE 18-1: Ring tone settings.

FIGURE 18-2: Sound & vibration.

FIGURE 18-3: Complete the action with an app.

FIGURE 18-4: The Bat Phone should have its own ring.

FIGURE 18-5: Searching for notification sounds.

FIGURE 18-6: Changing that ding!

FIGURE 18-7: The home screen settings menu.

FIGURE 18-8: Picking out the perfect color.

FIGURE 18-9: Color preview.

FIGURE 18-10: So many wallpaper choices.

FIGURE 18-11: Look at the motion.

FIGURE 18-12: Changing the font size.

FIGURE 18-13: A very large font.

Chapter 19

FIGURE 19-1: Searching for Google Assistant.

FIGURE 19-2: Google Assistant settings.

FIGURE 19-3: The Google Assistant toggle switch.

FIGURE 19-4: Step one.

FIGURE 19-5: Repeat after me ...

FIGURE 19-6: The end, or is it?

FIGURE 19-7: Google Assistant on the lock screen.

FIGURE 19-8: Tap to wake up Google Assistant.

FIGURE 19-9: Personal results settings.

FIGURE 19-10: Creating a routine.

FIGURE 19-11: Good morning, Google.

Chapter 20

FIGURE 20-1: A Google Maps context menu.

FIGURE 20-2: The sharing menu.

FIGURE 20-3: Keyboard settings.

FIGURE 20-4: A more reachable keyboard.

FIGURE 20-5: Magnification screen.

FIGURE 20-6: Extra zoom!

Introduction

The first Android smartphone was released in 2008, and over these past 15 years, smartphones have become more feature-rich and more complicated — to the point that many of them include capabilities that people may not even realize are possible. Smartphones have become so ingrained in our daily lives that manufacturers may now simply assume everyone knows how to use every feature of every smartphone. On top of that, any smartphone manufacturer can use the Android operating system on its hardware, which adds another level of complexity to an already diversly complex platform. Android Smartphones For Dummies demystifies Android smartphones, from the most basic functionality to the hidden gems that even seasoned users may not realize are there.

About This Book

I wrote this book to put everyone using an Android smartphone on a level playing field. If you have ever thought that smartphone technology has passed you by, this book is the tool you need to catch back up with the crowd. Here you find all the basics as well as many tips, tricks, and cheats that make using an Android smartphone easy and trouble-free.

Android Smartphones For Dummies covers everything from the initial setup of your smartphone to calling, texting, and tweeting right from your device. You even discover how to take enviable photographs, customize your device to suit your personality and needs, and set up Google Assistant routines to help make your life even easier. The material in this book is stripped down to

basic, easy-to-follow, jargon-free steps that are a breeze to understand.

Foolish Assumptions

This book assumes you have already purchased or are interested in purchasing an Android smartphone. That's really it. There is no further skills or knowledge needed other than an interest to learn to ins and outs of your Android smartphone.

Icons Used in This Book

Throughout this book, icons in the margins highlight certain types of valuable information that call out for your attention. Here are the icons you'll encounter and a brief description of each.



The Tip icon marks tips and shortcuts that you can use to make configuring and exploring your Android smartphone easier.



REMEMBER Remember icons mark the information that's especially important to know. To siphon off the most important information in each chapter, just skim through these icons.



highly technical Stuff icon marks information of a highly technical nature that you can skip over if you don't want to get into the nitty-gritty details.



warning The Warning icon tells you to watch out! It marks important information that may save you headaches while using your Android smartphone.

Beyond the Book

In addition to the abundance of information and guidance related to Android smartphones that I provide in this book, you get access to even more help and information online at Dummies.com. Check out this book's online Cheat Sheet. Just go to www.dummies.com and search for "Android Smartphones For Dummies Cheat Sheet."

Where to Go from Here

I wrote *Android Smartphones For Dummies* to be nonlinear. That means you can pick it up at any point, in any chapter, and get something useful out of it without having to read the whole book from the first chapter on.

Part 1 The Unboxing

IN THIS PART ...

Discover the ins and outs of the Android mobile operating system and what makes a smartphone an Android smartphone.

Explore what comes packaged with your smartphone, how to install a SIM card, and how to care for your device.

Understand the difference between a locked and unlocked smartphone and what carrier services you need to get the most out of your phone.

Find out how to set up your Android smartphone and customize security and accessibility settings.

Become a pro at navigating the smartphone interface and understand the difference between a tap, a swipe, and a hold.

Chapter 1 Introducing All Things Android

IN THIS CHAPTER

- » Discovering what make a device an Android device
- » Checking out the different versions of Android software
- » Comparing Android versus iPhone

In this chapter, you explore the details of the Android mobile operating system and Android-based smartphones. If you are new to Android smartphones, this is the perfect place to start your journey. If you are switching to Android from iPhone, this chapter also outlines some of the differences between the two platforms.

What Are Android Devices?

There is no such thing as the one Android smartphone. Unlike its major market competitor — the iPhone — Android is an open-source mobile operating system that any smartphone manufacturer can use for its devices. Because of this, hundreds of different Android smartphones are available around the world — and they all offer different features.



(all the lines of programming code that make the Android software what it is) is available freely to anyone who wants to use it.

One of the consequences of making Android open source is that any smartphone manufacturer can change the Android code to do anything it wants it to do. And so there are going to be some major differences between these phones. Some phones are going to have bigger or smaller screens, sharper or wider cameras, and more or fewer buttons. The Android software itself may also appear slightly different on different smartphones and be able to do slightly different things.

Think of it this way: Everyone knows what a car stereo is. Every car has a car stereo in it. However, no two car manufacturers are going to have the exact same stereos. Some will have access to satellite radio, some will have cassette players, some will have touchscreen controls, and some will have physical buttons. But in the end, they all have similar basic functions. In the following sections, I outline some of the most popular Android smartphone brands and highlight some of the differences between them.

Samsung

Samsung phones are some of the most popular smartphones in the world. In fact, a recent report from Counterpoint Research shows that Samsung is the most popular brand of Android smartphone, and the second most popular smartphone in the world behind Apple's iPhone.

Samsung produces several different models of smartphone for sale around the world, but its most popular is the flagship Galaxy line.



of smartphone from a particular manufacturer. It is meant to showcase the abilities of the manufacturer's line.

The Galaxy brand comes in several models:

- » Galaxy A
- » Galaxy S
- » Galaxy Z

The Galaxy S line is also further divided into the S, S+, and S Ultra models. The differences between the S, S+, and S Ultra are mainly screen size, except the S Ultra also comes with a stylus that enables you to draw and interact with the screen.



If you are familiar with older Samsung models, the Galaxy Note is now the Galaxy S Ultra. This is why the Galaxy S Ultra comes with the familiar Galaxy Note stylus.

Other model highlights include the innovative folding screens of the Galaxy Z models, and the affordability of the Galaxy A line.

Google Pixel

Google is the manufacturer that "owns" the Android software. Even though it offers the source code openly, Google still owns it. However, Google did not always make its own Android smartphones. Starting in 2010, Google began a branding relationship with manufactures such as HTC, Samsung, LG, and Motorola to create the Google Nexus line of phones. These phones were meant to showcase the functionality of the Android mobile operating system as Google intended it to be used.



in 2016. These smartphones became the Google Pixel line of phones.

Today you can get the Pixel 6 and Pixel 6 Pro smartphones from Google. The major difference between these models is the size of the screen — with the Pixel 6 Pro having a slightly larger screen than the Pixel 6.

Other hot brands

The list of Android smartphones seems endless. Other popular brands and models include:

- » Motorola Edge
- » Motorola Edge Plus
- » Nokia 8.3
- » One Plus 9
- » One Plus 9 Pro
- » Sony Xperia 1 ii
- » Xiaomi Mi 10

Looking at the Different Flavors of Android

Android software changes from year to year. In Android, these changes are known as *flavors*, and there is a delicious history behind why Android versions are known as flavors.

When the Android operating system was first introduced to the public in 2009, Google decided to forego the popular structure of numbering its versions and instead chose to name each version of Android after a sweet treat. Version 1.5 of Android was therefore named Cupcake. From there, the list of Android flavors continued in alphabetical order:

- » Cupcake
- » Donut
- » Éclair
- » Froyo
- » Gingerbread
- » Honeycomb
- » Ice Cream Sandwich
- » Jelly Bean
- » KitKat
- » Lollipop
- » Marshmallow
- » Nougat
- » Oreo
- » Pie

Android Pie was released in 2018, and was the last flavor of Android to be publicly released with a sweet name. Starting in 2019, Android switched to Android 10 — with Android 11, Android 12, and Android 13 released in subsequent years.

Samsung's version of Android

The fact that Google offers Android as an open-source software platform has led to one of the most confusing aspects of using Android smartphones among consumers. Most Android smartphone manufactures, Samsung included, have tweaked Android to set their phones apart. These tweaks include features and applications (most often referred to as an *app*) that are only available on that manufacturer's phones.

For example, Samsung developed several versions of Android specifically for use on Samsung devices. Using a Samsung Android smartphone gives users access to features not found on other devices. For example:

- » Samsung devices have a virtual assistant known as Bixby. (See <u>Chapter 19</u> for more on using virtual assistants.)
- » Samsung devices have software-based navigation buttons to help you "go back," "go home," and view your running apps. (See <u>Chapter 5</u> for details on navigating your way around an Android phone.)
- » Samsung devices have a home screen dedicated to Samsung Free, a list of free news articles, podcasts, games, and other content compiled by Samsung (this is replaced by Google Feed on other Android devices).
- » Samsung devices include their own version of some Google apps such as Calendar, Calculator, Photos, and camera.

Lastly, users of Samsung Android smartphones will notice some differences in the way many menus look. Keep in mind that even with some of these differences, the basic functionality persists through all Android smartphones.



smartphone. These apps expand the features of your smartphone — like getting access to weather information from around the world or shopping from your favorite stores.

Google Pixel's 'pure Android'

Soon after the release of Android, it became evident that consumers were confused about what Android was — because every smartphone seemed to have a different version of it. For this reason, Google began to release its own flagship smartphone — the Google Pixel — with the key feature being that the Google smartphone would include an unadulterated version of the Android operating system known as "pure Android." As such, users who purchase the Google Pixel line of smartphones use a version of Android that has not been changed.



PREMEMBER The examples offered throughout this book use pure Android running on a Google Pixel smartphone. However, the basic functionality shown still exists in most Android smartphones — even if it looks a little different or goes by a slightly different name on another phone.

No matter the brand smartphone you use, with an Android phone, you have access to the Google ecosystem of apps to help you with just about every aspect of daily life. Chapters 7 and 8 explore these apps as well as what additional apps are pre-installed and where you can find more.

Transitioning from an iPhone to an Android: It's Possible!

Many people switch from one smartphone platform to another. Personally, I have switched from Android to iPhone and back over the years. Now, I use both an iPhone and a Google Pixel Android smartphone on a daily basis. Having used both, I can say that the two are not as different as they might seem on the surface.

Following are some of the major differences you should be aware of when moving from iPhone to Android:

- » Apple has very strict control over the type and content of apps that are approved for use on iPhone. When moving from iPhone to Android, the exact app you are looking for might not be available in some cases — but there should be a number of similar options for Android.
- » Android keeps all apps in the app drawer by default. This is the standard location for all installed apps on Android smartphones. Android smartphones do not clutter up the home screens with apps; instead, apps are kept in a special menu until they are moved onto the screen. Chapter 6 goes into detail about how Android organizes apps and the home screen(s).