

# *Teach Yourself* **VISUALLY™**

Covers  
**iOS 10**  
and all models of  
iPhone 6s, iPhone 7  
& iPhone SE

# iPhone® 7

**The Fast and Easy Way to Learn**



Guy Hart-Davis

**Visual**  
A Wiley Brand





# iPhone® 7

by Guy Hart-Davis

## Teach Yourself VISUALLY™ iPhone® 7

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**Guy Hart-Davis** is the author of *Teach Yourself VISUALLY MacBook, 3rd Edition*; *Teach Yourself VISUALLY iPad, 4th Edition*; *Teach Yourself VISUALLY iPhone 6s*; *Teach Yourself VISUALLY Android Phones and Tablets, 2nd Edition*; *Teach Yourself VISUALLY Apple Watch*; *Teach Yourself VISUALLY Samsung Galaxy S6*; *Teach Yourself VISUALLY iMac, 3rd Edition*; *iMac Portable Genius, 4th Edition*; and *iWork Portable Genius, 2nd Edition*.

## Author's Acknowledgments

My thanks go to the many people who turned my manuscript into the highly graphical book you are holding. In particular, I thank Stephanie McComb for asking me to write the book, and Jody Lefevere for acting as executive editor for the book project; Lynn Northrup for keeping me on track and skillfully editing the text; Galen Gruman for reviewing the book for technical accuracy and contributing helpful suggestions; and SPi Global for laying out the book.

# How to Use This Book

## Who This Book Is For

This book is for the reader who has never used this particular technology or software application. It is also for readers who want to expand their knowledge.

## The Conventions in This Book

### 1 Steps

This book uses a step-by-step format to guide you easily through each task. **Numbered steps** are actions you must do; **bulleted steps** clarify a point, step, or optional feature; and **indented steps** give you the result.

### 2 Notes

Notes give additional information — special conditions that may occur during an operation, a situation that you want to avoid, or a cross reference to a related area of the book.

### 3 Icons and Buttons

Icons and buttons show you exactly what you need to click to perform a step.

### 4 Tips

Tips offer additional information, including warnings and shortcuts.

### 5 Bold

**Bold** type shows command names, options, and text or numbers you must type.

### 6 Italics

*Italic* type introduces and defines a new term.

### Tighten Up Safari's Security

To protect yourself against websites that infect computers with malware or try to gain your sensitive personal or financial information, turn on Safari's Fraudulent Website Warning feature. You can also turn off the JavaScript programming language, which can be used to attack your iPhone. Additionally, you can block pop-up windows, which some websites use to display unwanted information; choose which cookies to accept; and turn on the Do Not Track feature to request that sites not track your visits.

#### Tighten Up Safari's Security

- 1 Press **Home**.  
The Home screen appears.
- 2 Tap **Settings** (⚙️).  
The Settings screen appears.
- 3 Tap **Safari** (🔍).  
  
The Safari screen appears.
- 4 Tap **Block Pop-ups**.  
The Block Pop-ups screen appears.
- 5 Tap **Always Block, Allow from Current Website Only**.  
The Block Cookies screen appears.
- 6 Tap **Block Cookies**.  
The Block Cookies screen appears.
- 7 Tap **Do Not Track**.  
The Do Not Track screen appears.
- 8 Tap **Advanced**.  
The Advanced screen appears.
- 9 Tap **JavaScript**.  
The JavaScript screen appears.
- 10 Tap **Clear History and Website Data**.  
A dialog opens.
- 11 Tap **Clear History and Data**.  
The dialog closes.
- 12 Tap **Advanced**.  
The Advanced screen appears.
- 13 Tap **Website Data**.  
The Website Data screen appears.
- 14 Tap **Edit**.  
A Delete icon (🗑️) appears to the left of each website.
- 15 Tap **Delete**.  
The website's data is deleted.

### Browsing the Web and E-Mailing

#### 8

- 1 Tap **Website Data**.  
The Website Data screen appears.
- 2 Tap **Edit**.  
A Delete icon (🗑️) appears to the left of each website.
- 3 Tap **Delete**.  
The website's data is deleted.

#### TIP

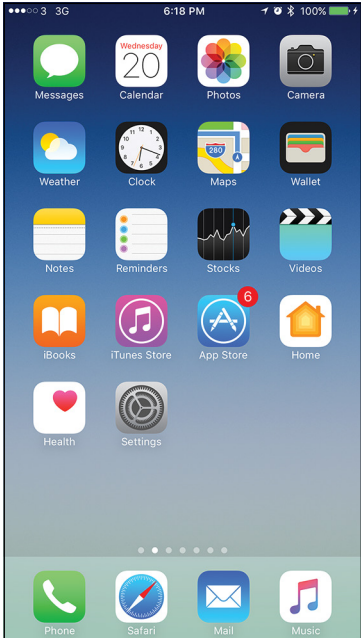
**What are cookies, and what threat do they pose?**  
A cookie is a small text file that a website places on a computer to identify that computer in the future. This is helpful for many sites, such as shopping sites in which you add items to a shopping cart, but when used by malevolent sites, cookies can pose a threat to your privacy. You can set Safari to never accept cookies, but this prevents many legitimate websites from working properly. So accepting cookies only from sites you visit is usually the best compromise.

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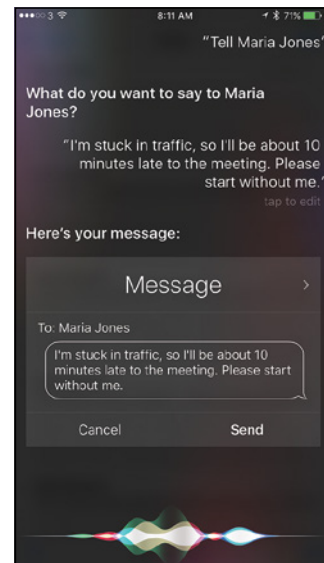




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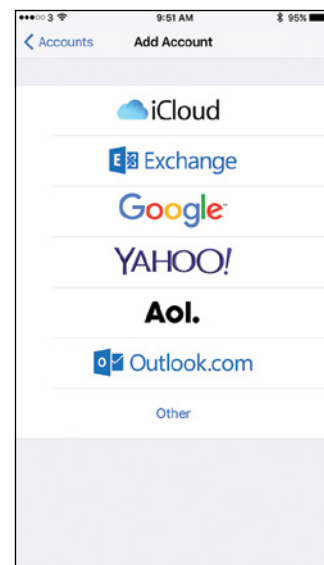
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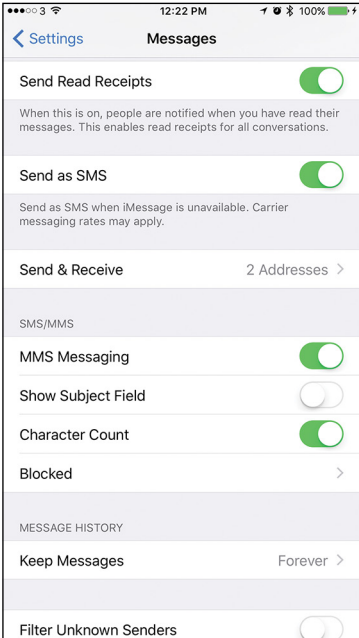
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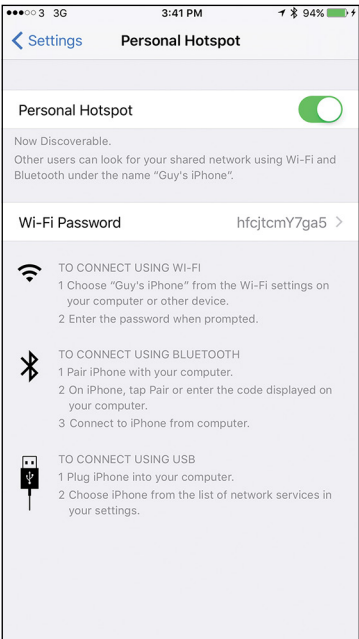
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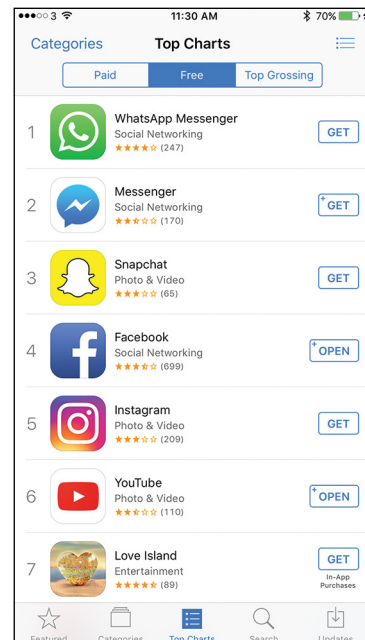
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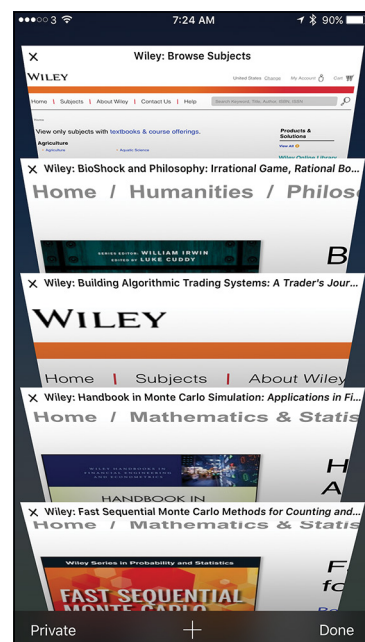
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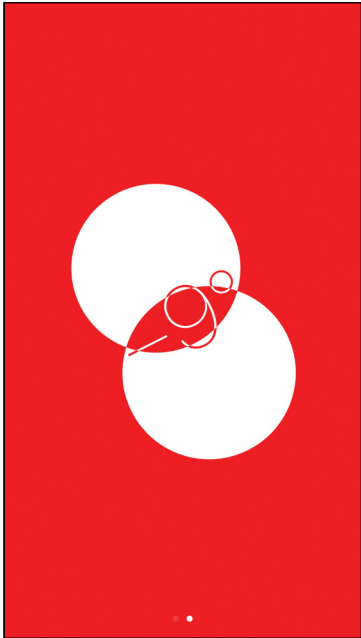


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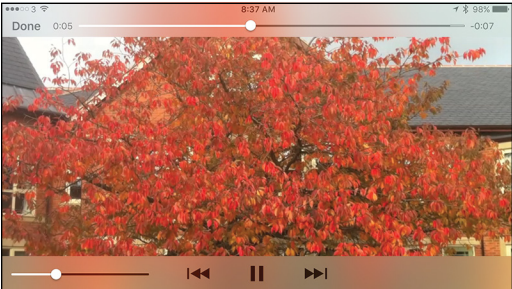
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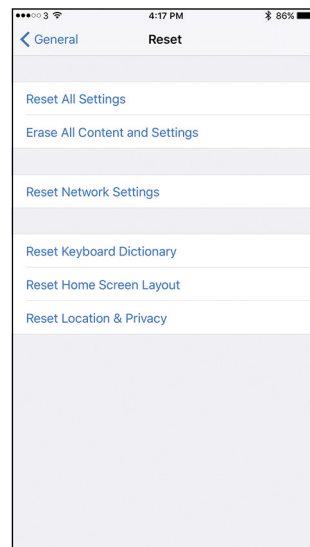


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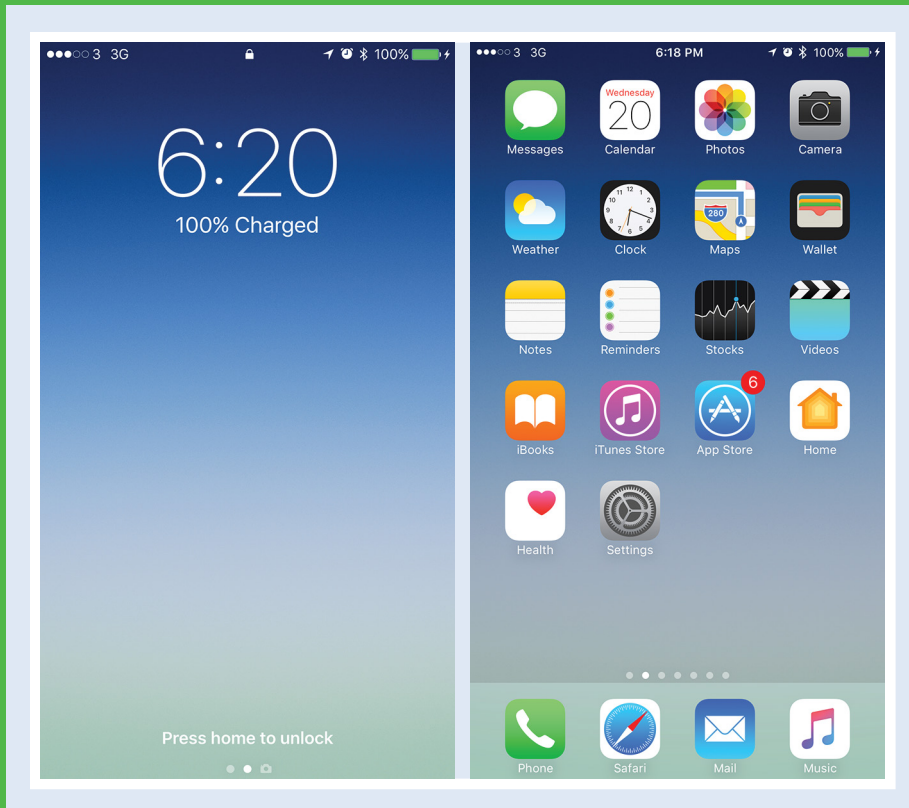
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## CHAPTER 1

# Getting Started with Your iPhone

In this chapter, you set up your iPhone to work with your computer or iCloud. You choose items to sync and learn to use the iPhone interface.



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# Identify and Compare the iPhone Models

The iPhone is a series of hugely popular smartphones designed by Apple. As of this writing, Apple sells five iPhone models that differ in size, power, and price. This section explains the five models, their common features, and their differences to enable you to distinguish them and choose among them.

## Understanding the Five iPhone Models

As of this writing, Apple sells five iPhone models:

- iPhone 7 and iPhone 7 Plus, introduced in 2016. The iPhone 7 Plus is physically larger than the iPhone 7.
- iPhone 6s and iPhone 6s Plus, introduced in 2015. The iPhone 6s Plus is physically larger than the iPhone 6s.
- iPhone SE, introduced in 2016.



## Understanding the Common Features of the iPhone Models

Each iPhone comes with the Apple EarPods headset, which incorporates a remote control and a microphone. For the iPhone 7 models, the Apple EarPods headset connects via the Lightning connector, whereas for earlier iPhone models, the headset connects via the headphone socket. Each iPhone includes a USB power adapter and a Lightning-to-USB cable. The iPhone 7 models also include a Lightning to 3.5mm Headphone Jack Adapter for connecting analog headphones via the Lightning port. Each iPhone uses a nano-SIM card to connect to cellular networks and has a Touch ID fingerprint reader.

Each iPhone runs iOS 10, the latest operating system from Apple, which comes with a suite of built-in apps, such as the Safari web browser and the Mail e-mail app.

The iPhone 7 models come in five colors: jet black, which is glossy; black, which is matte; silver; gold; and rose gold. The iPhone 6 models and the iPhone SE come in four colors: gold, silver, space gray, and rose gold.

The iPhone 7 models have a 12-megapixel main camera on the back and a 7-megapixel camera on the front. The iPhone 7 Plus also includes a second camera model to enable optical zoom and other features. The iPhone 6s models have a 12-megapixel main camera on the back and a 5-megapixel camera on the front. The iPhone SE has a 12-megapixel main camera and a 1.2-megapixel front camera.





### Compare the iPhone 7 Models with the iPhone 6s Models

The two iPhone 7 models, the iPhone 7 and the iPhone 7 Plus, have faster processors than the corresponding iPhone 6s models, the iPhone 6s and the iPhone 6s Plus. Although each model has a 12-megapixel main camera, the cameras on the iPhone 7 models are better than those on the iPhone 6s model, because they have improvements such as wider apertures — to gather light faster — and optical image stabilization.

The iPhone 7 models have a new design of Home button that features haptic feedback to simulate being pressed without moving. The iPhone 6s models have a physical Home button that actually presses in.

The iPhone 7 models have stereo speakers, whereas the iPhone 6s models have only mono speakers. The iPhone 6s models have a 3.5mm headphone socket, but the iPhone 7 models do not.

The iPhone 7 is the same size as the iPhone 6s but a little lighter, and the iPhone 7 Plus is the same size as the iPhone 6s Plus but a fraction lighter. However, the different layout of speakers and the removal of the headphone socket on the iPhone 7 models mean that only some accessories designed for iPhone 6s models will work with the corresponding iPhone 7 models.

### Compare the iPhone Plus Models with the Regular Models

The iPhone 7 Plus and the iPhone 6s Plus are physically larger than the iPhone 7 and the iPhone 6s and have higher-definition screens that may enable you to see greater detail in photos and other high-definition content.

As well as being larger, the iPhone Plus models are somewhat heavier than the regular models; but if you are deciding between the Plus model and the regular model, your main consideration is likely to be whether the device will fit comfortably in your hand and your pocket or purse.

The iPhone 7 Plus has a dual-camera module on the back rather than a single-camera module, as the other models have. One camera has a 28mm wide-angle lens, while the other has a 56mm telephoto lens to provide optical zoom, which gives higher image quality than the digital zoom provided by enlarging pixels via software.

The iPhone 7 models and the iPhone 6s Plus have optical image stabilization to minimize camera shake; the iPhone 6s does not have optical image stabilization. If you shoot many photos and videos, you may find this feature useful.



# Identify and Compare the iPhone Models (continued)

Apart from physical size, you should consider the storage capacity of the iPhone model you are thinking of buying. Having more storage enables you to install more apps and carry more music, movies, and other files with you. Having plenty of storage is especially important for shooting videos with your iPhone.

## Compare the iPhone SE with the iPhone 7 and iPhone 7 Plus Models

The iPhone SE is physically smaller than the iPhone 7 models and the iPhone 6s models. Its 4-inch screen has lower resolution than the screens on the larger models, but it has a powerful A9 processor, as do the iPhone 6s models.

While the rear camera on the iPhone SE has the same 12-megapixel resolution as the camera on the iPhone 7 models and iPhone 6 models, the front camera on the iPhone SE has relatively low 1.2-megapixel resolution.

The iPhone 7 models, iPhone 6s models, and the iPhone SE all have a Near Field Communication (NFC) chip that enables you to use the Apple Pay service to make payments from your iPhone.



## Evaluate iPhone Storage Capacity

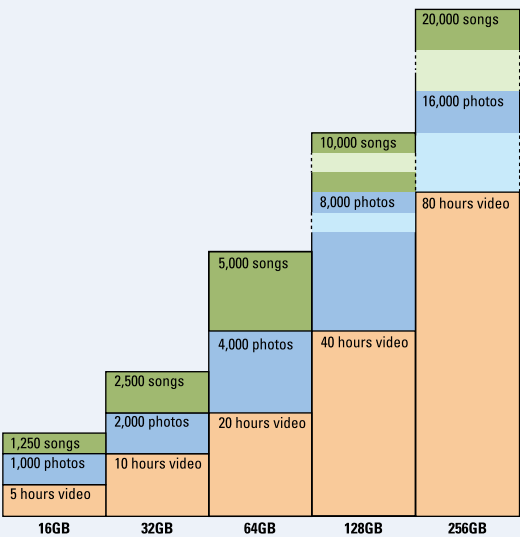
The iPhone models are available with different amounts of storage capacity. The diagram shows sample amounts of contents.

The iPhone 7 and iPhone 7 Plus come in 32GB, 128GB, and 256GB capacities.

The iPhone 6S and iPhone 6S Plus come in 32GB and 128GB capacities.

The iPhone SE comes in 16GB and 64GB capacities.

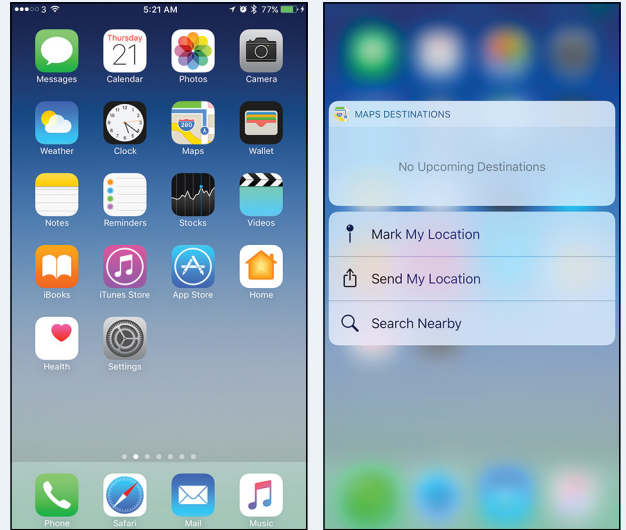
Higher capacities command substantially higher prices, so you must decide how much you are prepared to spend. Generally speaking, higher-capacity devices get more use in the long run and are worth the extra cost.



## Understanding the 3D Touch Feature

The iPhone 7 models and iPhone 6 models include a feature called 3D Touch that provides shortcuts to content and to frequently used actions. 3D Touch uses force sensors in the screen to detect when you press the screen rather than just tapping it. For example, you can press an app icon on the Home screen to display actions for that app. For instance, press **Maps** (📍) to display the pop-up menu for the Maps app. You can then tap a button in the Maps Destinations box to get directions to upcoming appointments, tap **Mark My Location** to mark your location, tap **Send My Location** to share your location with a contact, or tap **Search Nearby** to search for businesses or other places near you.

3D Touch uses two actions, Peek and Pop. Peek enables you to get a preview of content by pressing it briefly. Pop opens the content when you sustain the press. For example, you can press an e-mail message to display a preview of its content using Peek. If you want to open the message, you keep pressing until the Pop action opens the message.



## Understanding the Live Photos Feature

All the current iPhone models include a feature called Live Photos that enables you to capture short sections of video before and after a still photo. After capturing the Live Photo, you can make the video segments play by tapping and holding the photo.

You can view your Live Photos on other Apple devices, such as your iPad or your Mac. You can also use a Live Photo as the wallpaper for your iPhone's lock screen.

# Meet Your iPhone's Hardware Controls

**A**fter unboxing your iPhone, connect it to its charger and charge the battery fully. Then turn your iPhone on and meet its hardware controls: the Power/Sleep button, the Ringer On/Off switch, the Volume Up button, and the Volume Down button, and the Home button below the screen. If the store or carrier has not inserted a SIM card in the iPhone, you will need to insert a suitable card yourself (see the tip for details).

## Meet Your iPhone's Hardware Controls

- 1 Press and hold the Power/Sleep button for a couple of seconds.

**Note:** The Power/Sleep button is on the right side of the iPhone 7 models and iPhone 6s models and on the top of the iPhone SE.

As the iPhone starts, the Apple logo appears on the screen.

Above the iPhone's screen are:

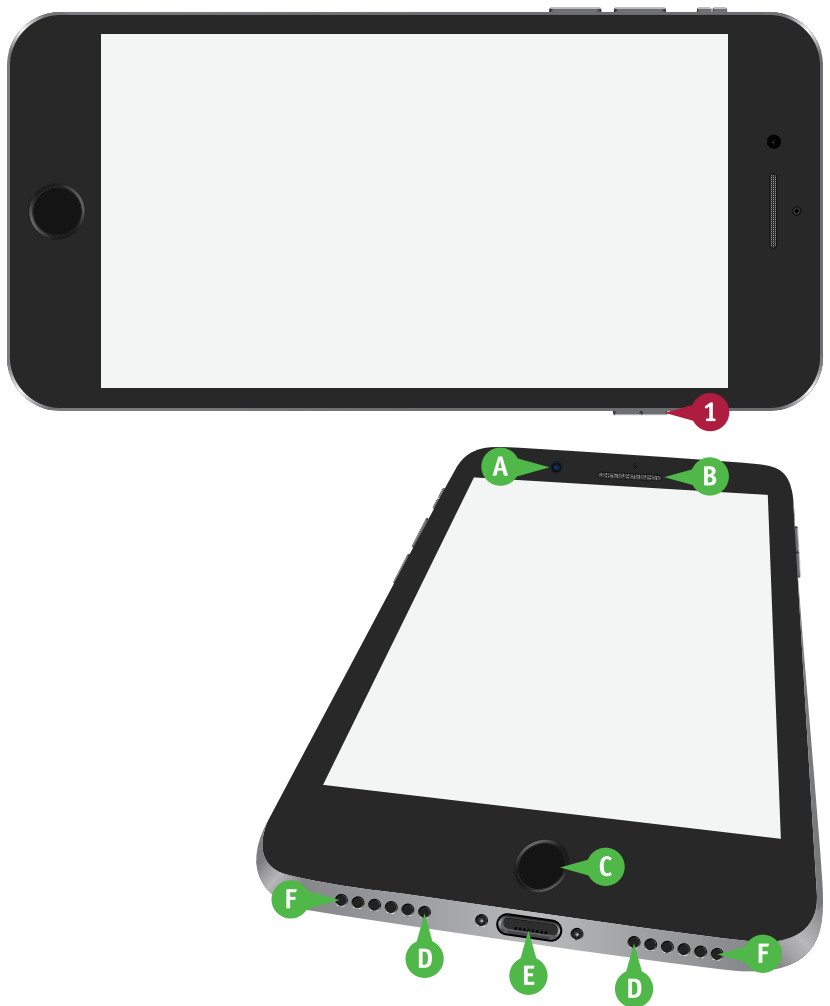
- A The front-facing camera.
- B The receiver speaker, which plays phone calls into your ear when you hold the iPhone up to your face.

- C Below the iPhone's screen is the Home button, which you press to display the Home screen.

At the bottom of the iPhone are:

- D The microphones.
- E The Lightning connector.
- F The speakers.

**Note:** The bottom edge of the iPhone 6s models and the iPhone SE has a mono speaker on the right and a 3.5mm headphone socket on the left, looking from the front.



- 2 Turn the iPhone so that you can see its left side.
- 3 When you want to turn the ringer off, move the Ringer On/Off switch to the rear so that the orange background appears.

**Note:** Turn the ringer off when you do not want the iPhone to disturb you or the peace. Move the Ringer On/Off switch back to the front when you want to turn the ringer back on.

- 4 Press the Volume Up (+) button to increase the ringer volume.

**Note:** When the Camera app is displayed, you can press the Volume Up (+) button to take a picture with the camera.

- 5 Press the Volume Down (-) button to decrease the ringer volume.
- 6 When the lock screen appears, press **Home**.

The iPhone unlocks, and the Home screen appears.



## TIP

### How do I insert a SIM card in my iPhone?

If the store or carrier has not inserted a SIM card, insert the SIM removal tool in the SIM hole on the right side of the iPhone. If you do not have a SIM removal tool, straighten out the end of a small paperclip and use that instead. Push gently until the tray pops out, and then pull it with your fingernails. Insert the SIM in the tray, and then push the tray in fully.

# Download, Install, and Set Up iTunes

To sync your iPhone with your computer, you use Apple's iTunes application. iTunes comes preinstalled on every Mac but not on PCs; to get iTunes for Windows, you download it from the Apple website and then install it on your PC.

If you do not have a computer, or you do not want to sync your iPhone with your computer, you can set up and sync your iPhone using Apple's iCloud service, as described in "Set Up Your iPhone as New Using iCloud," later in this chapter.

## Download, Install, and Set Up iTunes

1 On your PC, open the web browser. This example uses the Microsoft Edge browser on Windows 10.

2 Click the Address box, type **www.apple.com/itunes/download**, and then press **Enter**.

The Download iTunes Now web page appears.

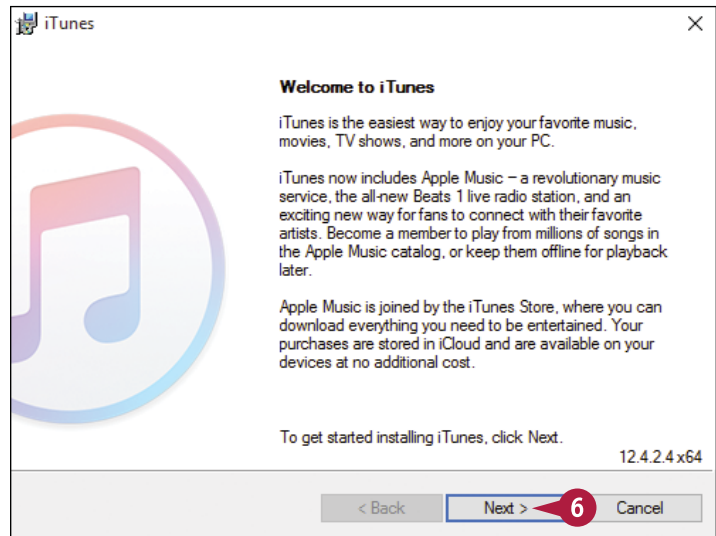
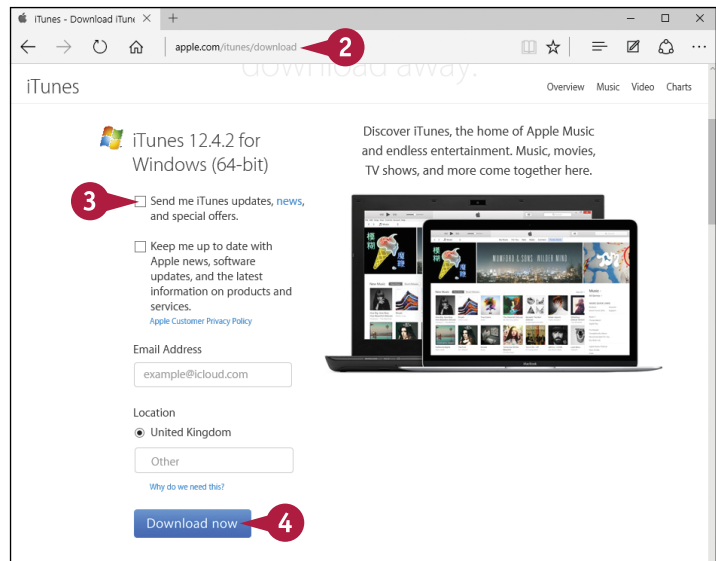
3 Click the check boxes (☒ changes to ☐) unless you want to receive e-mail from Apple.

4 Click **Download now**.

5 When the download finishes, click **Run** in the pop-up panel that appears.

The iTunes installation begins, and the Welcome to iTunes dialog opens.

6 Click **Next**, and then follow the steps of the installer.



**Note:** You must accept the license agreement to install iTunes.

The Installation Options screen appears.

- 7 Click **Add iTunes shortcut to my desktop** (☒ changes to ☐) unless you want this shortcut.
- 8 Click **Use iTunes as the default player for audio files** (☒ changes to ☐) if you do not want to use iTunes as the default audio player.
- 9 Click **Automatically Update iTunes and Other Apple Software** (☒ changes to ☐) if you do not want automatic updates.
- 10 Click **Install**.

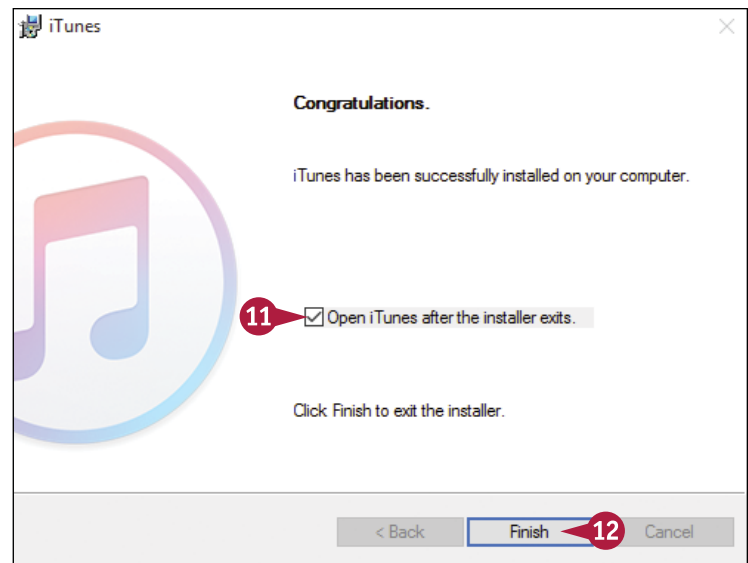
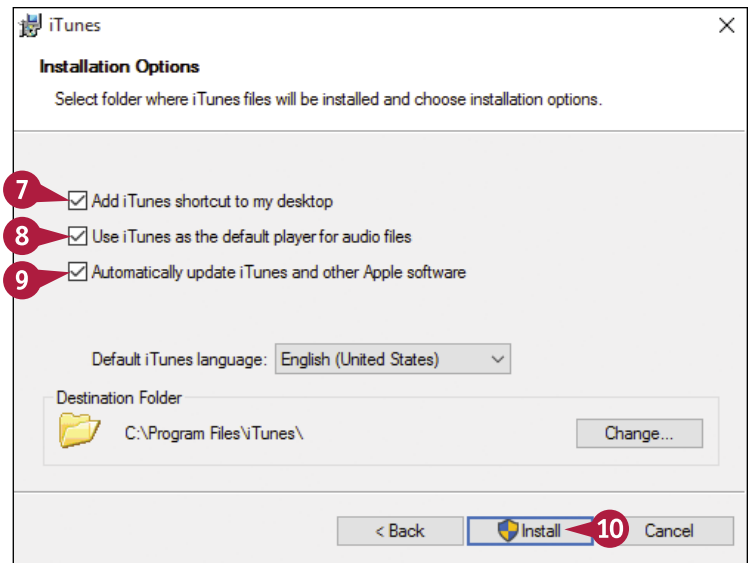
**Note:** If the User Account Control dialog opens, make sure that the Program Name is iTunes and the Verified Publisher is Apple Inc. Then click **Yes**.

The Congratulations screen appears.

- 11 Click **Open iTunes after the installer exits** (☒ changes to ☐) if you do not want iTunes to launch automatically when you close the installer.
- 12 Click **Finish**.

The installer closes.

Unless you chose not to open iTunes automatically, iTunes opens.



## TIPS

### Should I allow Apple to install updates automatically on my PC?

If this is your own PC, installing updates automatically is usually helpful. The updates may include fixes to bugs or vulnerabilities, new features, or both.

### How do I set up iTunes on a Mac?

If you have not run iTunes already, click **iTunes** (🎵) on the Dock. If the Dock contains no iTunes icon, click **Launchpad** (🌀) on the Dock, and then click **iTunes** (🎵) on the Launchpad screen. The iTunes Setup Assistant launches. Follow the steps to set up iTunes.

# Begin Setup and Activate Your iPhone

Before you can use your iPhone, you must set it up and activate it. First, you choose your language, specify your country or region, connect to the Internet through either a Wi-Fi network or the cellular network, and choose whether to use Location Services. You then activate the iPhone, registering it with Apple’s servers. After this first stage of setup, you choose whether to set up the iPhone as a new iPhone, restore it from an iCloud backup, or restore it from an iTunes backup.

## Begin Setup and Activate Your iPhone

**Note:** If you are upgrading from an existing iPhone, see Chapter 12 for instructions on turning off Find My iPhone, backing up the iPhone fully, and resetting it.

- 1 Turn on the iPhone by pressing and holding the Power/Sleep button until the Apple logo appears on-screen.
- 2 When the initial iPhone screen appears, press **Home**.

The iPhone unlocks and begins the setup routine.

The Language screen appears.

- 3 Tap the language you want to use.

The Select Your Country or Region screen appears.

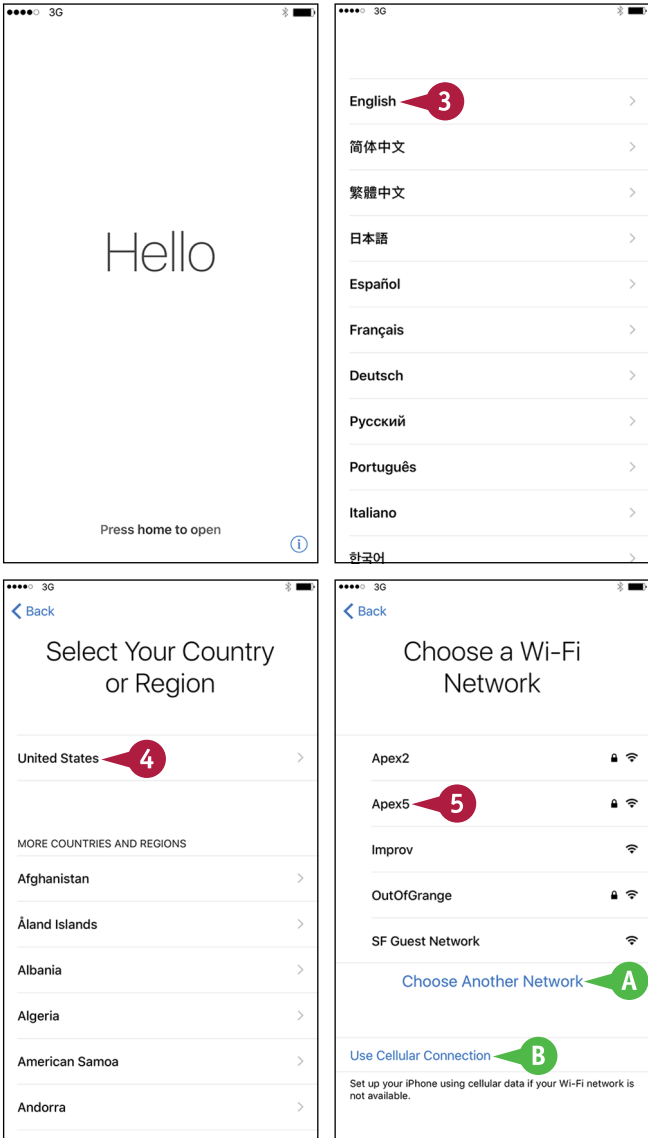
- 4 Tap your country or region.

The Choose a Wi-Fi Network screen appears.

- 5 Tap the wireless network you want to use.

**A** If your Wi-Fi network does not appear because it does not broadcast its network name, tap **Choose Another Network**. You can then type the network’s name.

**B** If your Wi-Fi network does not appear because it is out of range, tap **Use Cellular Connection**.





The Enter Password screen appears.

**6** Type the password.

**7** Tap **Join**.

Your iPhone joins the wireless network and connects to the Internet.

The Location Services screen appears.

**8** Tap **Enable Location Services** or **Disable Location Services**, as needed. See the tip for advice.

The Touch ID screen appears.

**9** Tap **Continue** and follow the prompts to scan your fingerprint for the Touch ID security mechanism.

The Create a Passcode screen appears.

**10** Type a six-digit passcode, and then repeat it on the Re-Enter Your Passcode screen.

**C** You can tap **Passcode Options** to create a custom alphanumeric code or a four-digit code instead.

The Apps & Data screen appears.

**11** Tap the appropriate button:

**D** Tap **Restore from iCloud Backup** to set up your iPhone using a backup stored in iCloud. See the section “Set Up Your iPhone from an iCloud Backup,” later in this chapter.

**E** Tap **Restore from iTunes Backup** to set up your iPhone using a backup stored on your computer. See the section “Set Up Your iPhone from iTunes,” later in this chapter.

**F** Tap **Set Up as New iPhone** to set up your iPhone from scratch using iCloud. See the next section, “Set Up Your iPhone as New Using iCloud.”



**G** Tap **Move Data from Android** to use the Move to iOS app to move data from an Android device.

## TIP

### Should I enable Location Services?

Normally, enabling Location Services is helpful because it lets apps such as Maps determine your exact location. Using Location Services does mean that your iPhone continually tracks your location, but this is something the cellular network does anyway for cell phones. For privacy, open the Location Settings screen in the Settings app and turn off the switch for any app you do not want to track you.

# Set Up Your iPhone as New Using iCloud

If you want to use your iPhone without syncing it to your computer, set it up using Apple's iCloud online service. With this approach, you sync your data to your account on iCloud, from which you can access it using other iOS devices, a Mac, or a web browser on any computer.

To set up a new iPhone to use iCloud, follow the instructions in the previous section to begin setup, and then continue with the instructions in this section.

## Set Up Your iPhone as New Using iCloud

**1** Begin setup as explained in the previous section, "Begin Setup and Activate Your iPhone."

**2** On the Apps & Data screen, tap **Set Up as New iPhone**.

The Apple ID screen appears.

**A** You can tap **Don't have an Apple ID or forgot it?** to create a new Apple ID or get a reminder about your existing Apple ID.

**B** You can tap **About Apple ID and Privacy** to see information about privacy concerns.

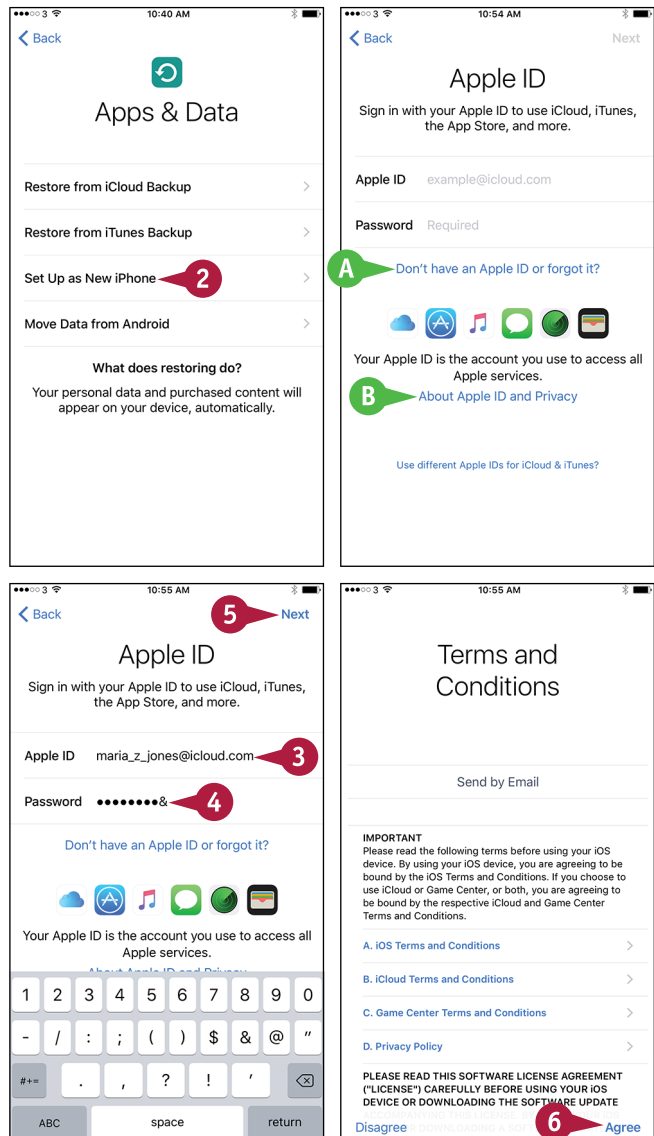
**3** Tap **Apple ID** and type your Apple ID.

**4** Tap **Password** and type your password.

**5** Tap **Next**.

The Terms and Conditions screen appears.

**6** Read the terms and conditions, and tap **Agree** if you want to proceed.



The Apple Pay screen appears.

- 7 Tap **Next**.

The Add Card screen appears.

- 8 Point the rear camera lens at your credit card or debit card.

The setup routine recognizes the card details.

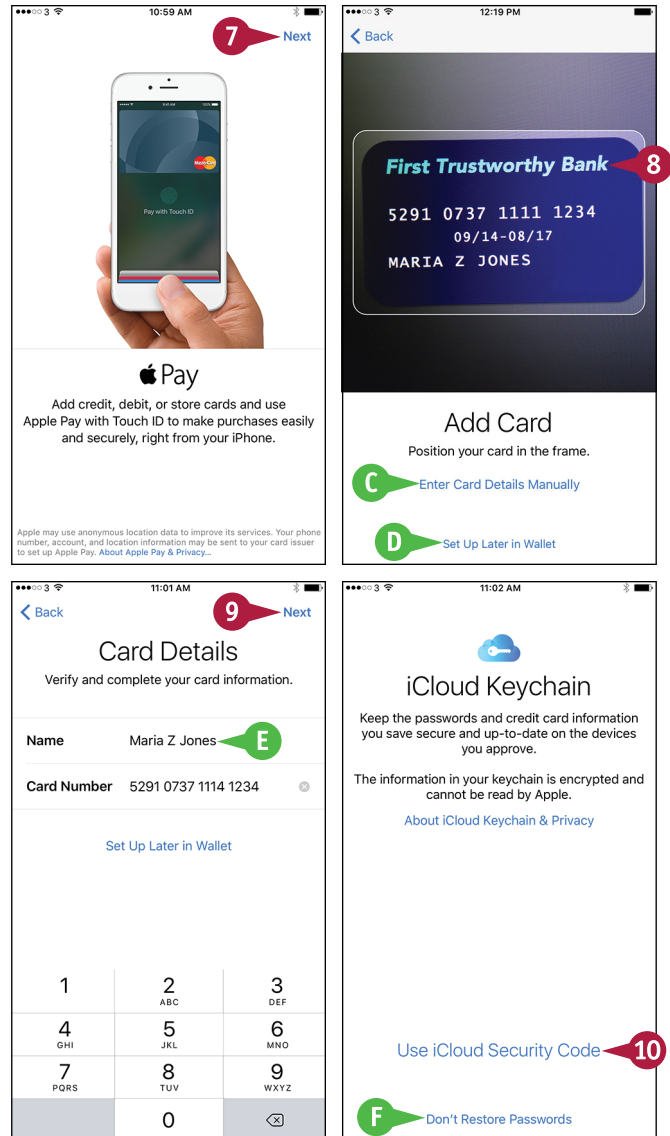
- C You can tap **Enter Card Details Manually** if the recognition fails or is inaccurate.
- D You can tap **Set Up Later in Wallet** to skip adding a card.

The Card Details screen appears.

- E You can correct the card details if necessary.
- 9 Tap **Next** and follow the prompt to set up your card with Apple Pay.

The iCloud Keychain screen appears.

- F You can tap **Don't Restore Passwords** if you do not want to restore your passwords from iCloud to your iPhone.
- 10 Tap **Use iCloud Security Code**.



## TIP

### What is Siri and should I enable it?

Siri is Apple's voice-driven assistant, which enables you to interact with your iPhone by voice. Many people find Siri useful, but if you do not, you can turn Siri off at any time. See Chapter 3 for instructions on using and customizing Siri.

continued ►

# Set Up Your iPhone as New Using iCloud (continued)

When you set up your iPhone using iCloud, use an e-mail address that you intend to keep for the long term. This is especially important if you use the same e-mail address for the Apple ID that you use for the App Store; each app you buy is tied to that e-mail address, so if you change the address, you will need to authenticate again for each app update.

## Set Up Your iPhone as New Using iCloud (continued)

The iCloud Security Code screen appears.

11 Type your security code.

The iPhone verifies the security code with Apple's servers.

The Verification Code screen appears.

12 Type the verification code sent to your trusted phone number.

The iPhone checks that the verification code is correct.

The Siri screen appears.

13 Tap **Set Up Siri** and follow the prompts to set up Siri's voice recognition.

G You can tap **Turn On Siri Later** if you do not want to turn on Siri now.

**Note:** You can turn Siri on or off at any point after setup.

The Diagnostics screen appears.

**Note:** To learn which details the diagnostics and usage reports contain, tap **About Diagnostics & Privacy**.

**Note:** The Diagnostics screen may include buttons such as Automatically Send and Don't Send instead of Continue.

14 Tap **Continue**.



The App Analytics screen appears.

- 15** Tap **Share with App Developers** if you want to share usage statistics and crash data with the developers of the apps you use. Otherwise, tap **Don't Share**.

The Display Zoom screen appears.

- 16** Tap **Standard** or **Zoomed** to choose which view to use.

The Display Zoom screen appears.

- H** You can tap **Standard** or **Zoomed** to switch between the views and decide which you prefer.

- 17** Tap **Next**.

The Welcome to iPhone screen appears.

- 18** Tap **Get Started**.

The Home screen appears, and you can begin using your iPhone.



## TIP

### Why should I use iCloud Keychain?

iCloud Keychain gives you an easy way to store your passwords and credit card information securely on your iPhone, other iOS devices, or Mac. Instead of having to remember the password for each website, or look at a credit card when you need to enter its details, you can have iCloud Keychain automatically provide the details. iCloud Keychain encrypts your data, but you must use a complex passcode to keep it secure. A standard four-digit numeric passcode is not strong enough to keep your iCloud Keychain secure against serious attacks.

# Set Up Your iPhone from an iCloud Backup

If you have used an iPhone or other iOS device before, you can set up your iPhone by restoring from an iCloud backup. This backup can be from either another iPhone or iOS device or from the same iPhone.

When you restore your iPhone from an iCloud backup, you choose which backup to use — normally, the most recent one. iOS automatically restores your settings, downloads your apps from the App Store, and then installs them on the iPhone.

## Set Up Your iPhone from an iCloud Backup

- 1 Begin setup as explained in the section “Begin Setup and Activate Your iPhone,” earlier in this chapter.
- 2 On the Apps & Data screen, tap **Restore from iCloud Backup**.  
The iCloud Sign In screen appears.
- 3 Type your Apple ID.
- 4 Type your password.
- 5 Tap **Next**.  
The Terms and Conditions screen appears.
- 6 Tap **Agree**.  
The Choose Backup screen appears.
- 7 Tap the backup you want to use.  
iOS restores the backup to your iPhone.

