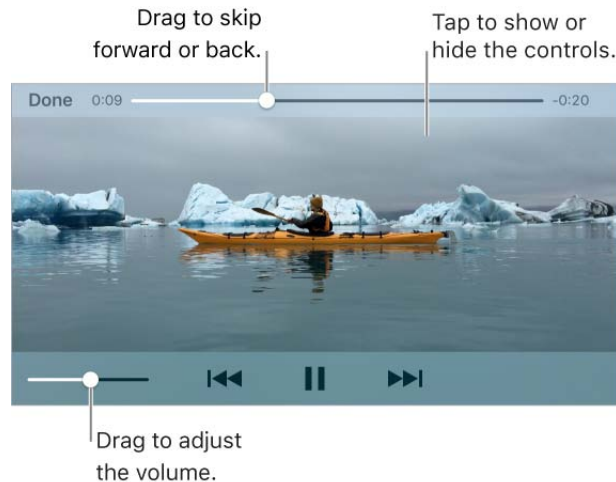


Important: If you delete a rented movie from iPhone, it's deleted permanently and can't be transferred back to your computer.

Control playback



Scale the video to fill the screen or fit to the screen. Tap  or . Or double-tap the video. If you don't see the scaling controls, your video already fits the screen perfectly.

Start over from the beginning. If the video contains chapters, drag the playhead along the scrubber bar all the way to the left. If there are no chapters, tap .

Skip to the next or previous chapter. Tap  or . You can also press the center button or equivalent on a compatible headset two times (skip to next) or three times (skip to previous).

Rewind or fast-forward. Touch and hold  or . Or drag the playhead left or right. Move your finger toward the bottom of the screen as you drag for finer control.

Select a different audio language. If the video offers other languages, tap , then choose a language from the Audio list.

Show subtitles or closed captions. Tap . Not all videos offer subtitles or closed captions.

Customize the appearance of closed captions. Go to Settings > General > Accessibility > Subtitles & Captioning.

See closed captions and subtitles for the deaf and hard of hearing. Go to Settings > General > Accessibility > Subtitles & Captioning, then turn on Closed Captions + SDH.

Watch the video on a TV. Swipe up from the bottom of the screen to show Control Center, then tap AirPlay. For more about AirPlay and other ways to connect, see [AirPlay Mirroring](#).

iBooks

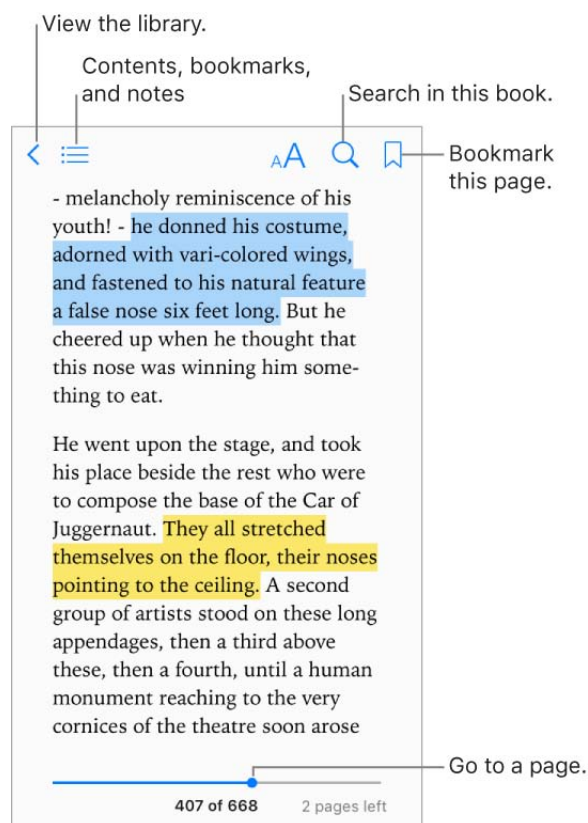
Get books

Get books from the iBooks Store. In iBooks, use the buttons at the bottom of the screen to access the iBooks Store. Tap Featured to browse the latest releases, or Top Charts to view the most popular. To find a specific book, tap Search.

3D Touch. To get a book from the Home screen, press iBooks, then choose the Search iBooks Store quick action. See [3D Touch](#).

Ask Siri. Say something like: "Find books by *author name*."

Read a book



3D Touch. To open a book from the Home screen, press iBooks, then choose from the menu of recently accessed books. See [3D Touch](#).

Open a book. Tap the book you want to read. If you don't see it on the bookshelf, swipe left or right to see other collections.

Show the controls. Tap near the center of a page. Not all books have the same controls, but some of the things you can do include searching, viewing the table of contents, and sharing what you're reading.

Close a book. Tap <, or pinch the page.

Enlarge an image. Tap, or with some books double-tap, the image.

Read by columns. In books that support it, double-tap a column of text to zoom in, then swipe up or to the left to move to the next column.

Go to a specific page. Use the page navigation controls at the bottom of the screen. Or tap 🔍 and enter a page number, then tap the page number in the search results.

Get a definition. Double-tap a word, then tap Look Up in the menu that appears. (Definitions aren't available for all languages.)

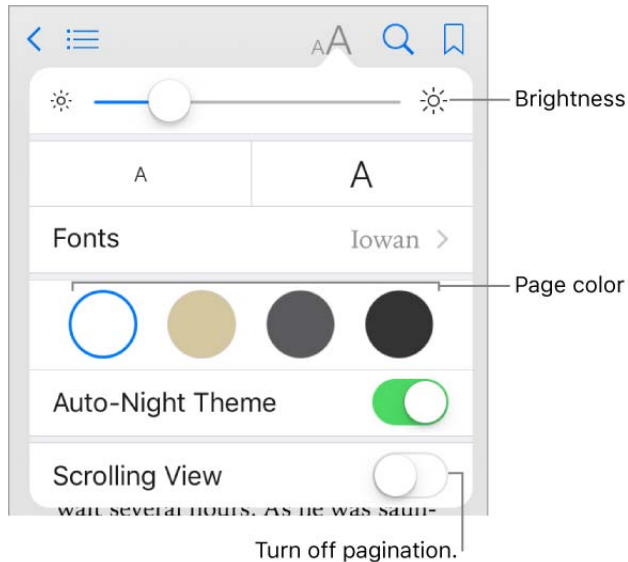
Remember your place. Tap 📌 to add a bookmark, or tap again to remove it. You can have multiple bookmarks—to see them all, tap ≡, then tap Bookmarks. You don't need to add a bookmark when you close the book because iBooks remembers where you left off. You can sync bookmarks with your other devices in Settings > iBooks.

Remember the good parts. Some books let you add highlights and notes. To add a highlight, touch and hold a word, then move your finger to draw the highlight. To add a note, double-tap a word to select it, move the grab points to adjust the selection, then tap Note in the menu that appears.

Share the good parts. Tap some highlighted text, then, in the menu that appears, tap 📎. If the book is from the iBooks Store, a link to the book is included automatically. (Sharing may not be available in all regions.)

Share a link to a book. Tap near the center of a page to display the controls, tap ≡, then tap 📎.

Change the way a book looks. Some books let you change the font, font size, and color of the page. (Tap Ⓐ.) You can also change justification and hyphenation in Settings > iBooks. These settings apply to all books that support them.



Change the brightness. Tap . If you don't see , tap first.

Dim the screen when it's dark. Turn on Auto-Night Theme to automatically change the bookshelf, page color, and brightness when using iBooks in low-light conditions. (Not all books support Auto-Night Theme.)

Interact with multimedia

Some books have interactive elements, such as movies, diagrams, presentations, galleries, and 3D objects. To interact with a multimedia object, tap, swipe, or pinch it. To view an element full-screen, pinch open with two fingers. When you finish, pinch it closed.

Study notes and glossary terms

In books that support it, you can review all of your highlights and notes as study cards.

See all your notes. Tap . Search your notes, or tap a chapter to see notes you made in that chapter. You can sync your notes with your other devices in Settings > iBooks.

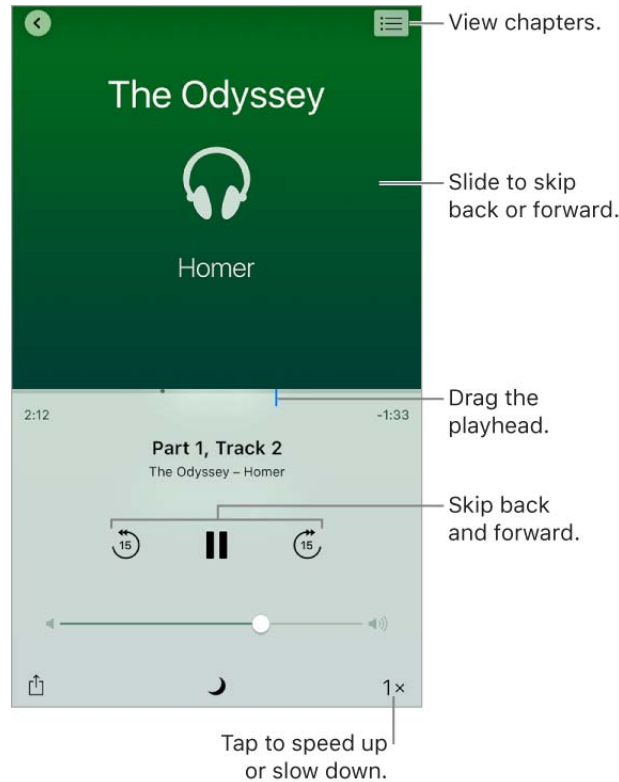
Delete notes. Tap Select, select some notes, then tap .

Review your notes as study cards. Tap Study Cards. Swipe to move between cards. Tap Flip Card to see its back.

Shuffle your study cards. Tap , then turn on Shuffle.

Study glossary terms. If a book includes a glossary, tap to include those words in your study cards.

Listen to an audiobook



Open an audiobook. Audiobooks are identified by a  on the cover. Tap the book you want to listen to. If you don't see it in the library, swipe left or right to view other collections.

Skip farther forward or back. Touch and hold the arrows, or slide and hold the cover. To change the number of seconds that skipping moves, go to Settings > iBooks.

Speed it up, or slow it down. Tap the playback speed in the lower-right corner, then choose a different speed. 1x is normal speed, 0.75x is three-quarters speed, and so on.

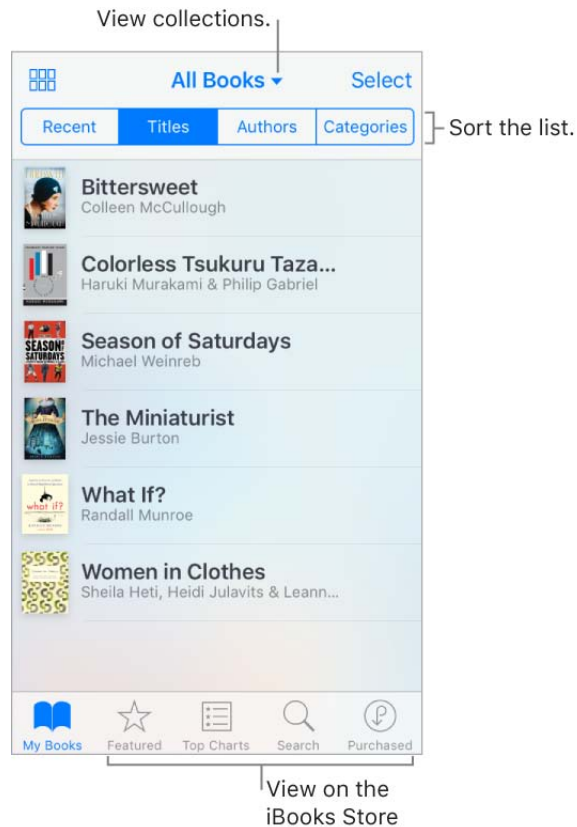
Go to a chapter. Tap , then tap a chapter. (Some books don't define chapter markers.)

Go to a specific time. Drag the playhead, located underneath the book cover. Where you started listening during this session is marked with a small circle on the timeline. Tap the mark to jump to that spot.

Set a sleep timer. Before starting playback, tap , then choose a duration until the audio automatically stops.

Download an audiobook previously purchased from the iBooks Store. You can download an audiobook again from the Purchased list in the iBooks Store anytime, free of charge.

Organize books



View books by title or by cover. Tap or .

View only audiobooks or PDFs. Tap the name of the current collection (at the top of the screen), then choose PDFs or Audiobooks.

Organize your books with collections. Tap Select, then select some books and tap Move.

Create or edit collections. Tap the name of the current collection (at the top of the screen). Some built-in collections, such as PDFs, can't be renamed or deleted. You can sync your collections with your other devices in Settings > iBooks.

Rearrange books. While viewing books by cover, touch and hold a cover, then drag it to a new location. While viewing books by title, sort the list using the buttons at the top of the screen. The All Books collection is automatically arranged for you; switch to another collection if you want to manually arrange your books.

Search for a book. Pull down to reveal the Search field at the top of the screen. Searching looks for the title and the author's name.

Remove books. Tap Select, select some books, tap Delete, then choose an option.

Hide books you haven't downloaded. If you see  on a cover or next to a title, you can download the book again without charge. To remove from view the books that aren't downloaded, tap the name of the current collection (at the top of the screen), then turn on Hide iCloud Books.

3D Touch. To see how far along you are in a book and other info, press a book's cover. If it's an audiobook, you'll see the listening time remaining. See [3D Touch](#).

Read PDF documents

Add a PDF email attachment to iBooks. Open the email message, touch and hold its PDF attachment, then tap Copy to iBooks. Or, tap the PDF attachment to open it, tap , then tap Import with iBooks.

Print a PDF document. With the document open, tap , then choose Print. For more about AirPrint, see [AirPrint](#).

Email a PDF document. With the document open, tap , then choose Mail.

Access your entire library in iCloud

You can store your PDF files and other books in iCloud and access them on your other devices.

Turn on iCloud for iBooks. Turn on Settings > iCloud > iCloud Drive > iBooks.

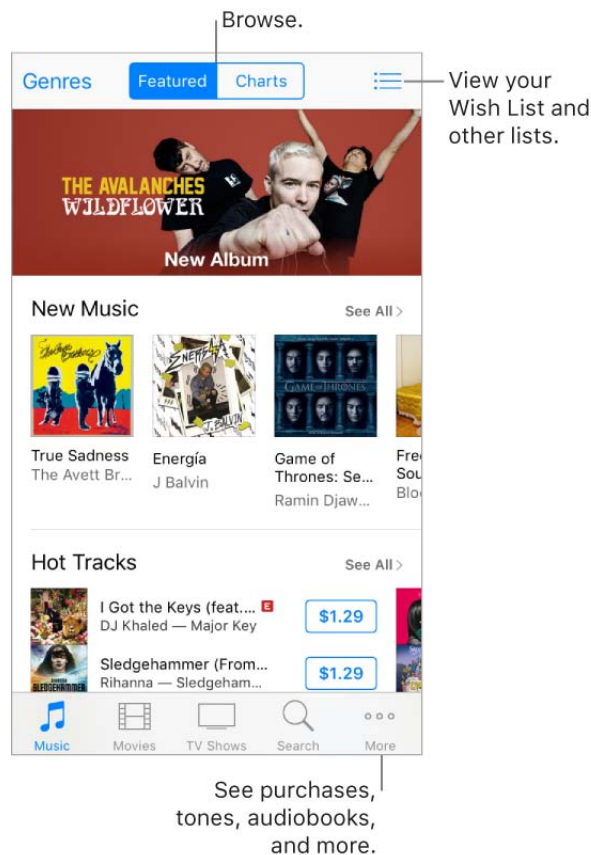
When you add a PDF file (or a book that doesn't come from the iBooks Store) to iBooks, the document is uploaded to iCloud. The document is also added to your other devices where you've turned on iCloud for iBooks and you're signed in to iCloud with the same Apple ID.

Note: The books in your Purchased list in the iBooks Store are available anytime and don't count against your available iCloud storage space.

iTunes Store

iTunes Store at a glance

Use the iTunes Store to add music, movies, TV shows, and more to iPhone.



Note: You need an Internet connection and an Apple ID to use the iTunes Store. The iTunes Store isn't available in all areas.

Browse or search

Browse by category or genre. Tap a category (Music, Movies, or TV Shows). To refine the list, tap Genres.

Ask Siri. Say something like: "Look for kids' shows in iTunes."

If you know what you're looking for, tap Search. You can tap a search term that's trending among other iTunes users, or enter info in the search field, then tap Search on the keyboard.

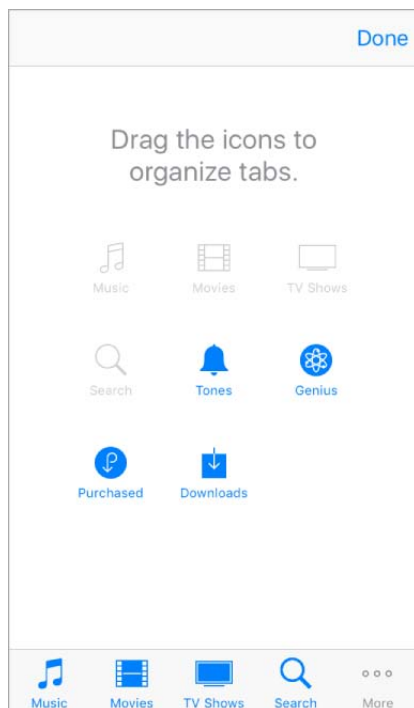
3D Touch. To find songs, TV shows, and movies from the Home screen, press iTunes Store, then tap Search. See [3D Touch](#).

Ask Siri to tag it. When you hear music playing around you, ask Siri “What song is playing?” Siri tells you the name and artist of the song and gives you an easy way to purchase it. The song is also tagged so you can preview or buy it later. To see your list of tagged songs, tap Music, tap , then tap Siri.

Preview a song or video. Tap it.

Add to your Wish List. To track a song you might want to buy later, add it to your Wish List. View the song, tap , then tap Add to Wish List. To view your Wish List, tap , then tap Wish List.

Organize the tabs for quick access. To rearrange the tabs at the bottom of the screen, tap More, tap Edit, then drag the icons. To replace an icon, drag an icon from the center of the screen over the icon you want to replace. Tap Done.



Purchase, rent, or redeem

Sign in with your Apple ID. If you aren't signed in with your Apple ID, the iTunes Store asks you to do so before you make a purchase. To view or edit your Apple ID, go to Settings > iTunes & App Store, then tap your Apple ID. If you don't have an Apple ID, you can create one at the time of purchase.

Buy and download an item. Tap the item's price, then tap Buy. If the item is free, tap Get.

If you see  instead of a price, you've already purchased the item, and you can download it again without a charge.

Ask Siri. Say something like: "Purchase *song title* by *artist*."

3D Touch. To view your purchased items from the Home screen, press iTunes Store, then tap Purchased. See [3D Touch](#).

View and download your previous purchases. Tap More, then tap Purchased. To automatically download items that you purchased on other Apple devices, go to Settings > iTunes & App Store, then turn on Automatic Downloads.

Limit downloads to Wi-Fi connections. To prevent downloads from using cellular data, go to Settings > iTunes & App Store, then turn off Use Cellular Data.

See the progress of a download. Tap More, then tap Downloads.

Watch your time with rentals. In some areas, you can rent movies. You have 30 days to begin watching a rented movie. After you start watching it, you can play it as many times as you want in the allotted time (24 hours in the U.S. iTunes Store; 48 hours in other countries). When your time's up, the movie is deleted. Rentals can't be transferred to another device; however, you can [use AirPlay](#) and Apple TV to view a rental on your television.

Approve purchases with Family Sharing. With Family Sharing set up, the family organizer can review and approve purchases made by family members under a certain age. For more information, see [Family Sharing](#).

View and download family members' purchases. With Family Sharing set up, you can view and download songs, TV shows, and movies purchased by your family members. Tap More, tap Purchased, then choose a family member.

Hide individual purchases. Using iTunes on a computer, family members can hide any of their purchases so other family members can't view or download them.

Send a gift. To give an item, view it, tap , then tap Gift. To give an iTunes gift certificate, tap a category (Music, Movies, or TV Shows), scroll to the bottom, then tap Send Gift.

Redeem a gift card or code. Tap Music, scroll to the bottom, then tap Redeem.

Ask Siri. Say something like: "Redeem an iTunes Store gift card."

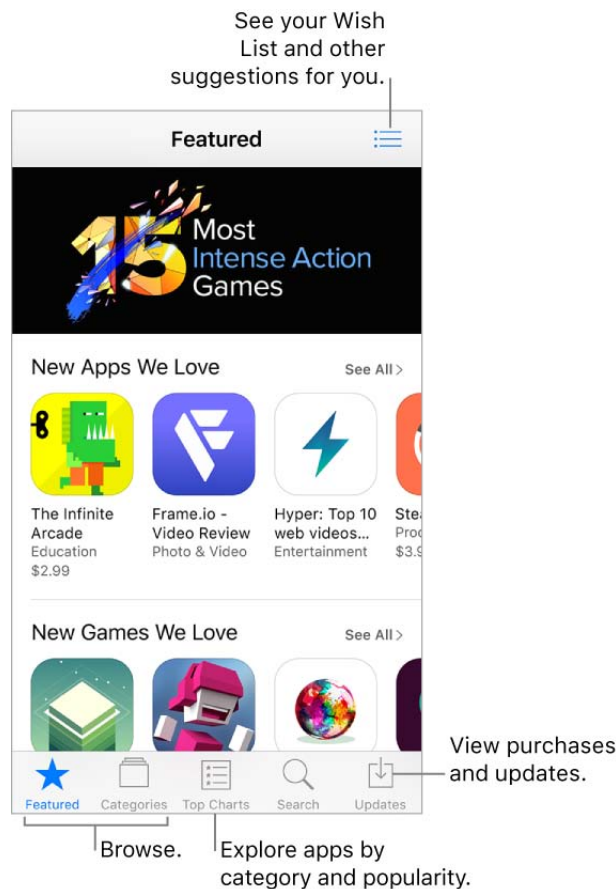
3D Touch. On the Home screen, press iTunes Store, then tap Redeem.

Create an iTunes Pass. Tap Music, scroll to the bottom, tap Redeem, then tap Get Started (below iTunes Pass). See the Apple Support article [About iTunes Pass](#).

App Store

App Store at a glance

Use the App Store to browse, purchase, and download apps to iPhone. Your apps update automatically over Wi-Fi (unless you turn off this feature), so you can keep up with the latest improvements and features.



Note: You need an Internet connection and an Apple ID to use the App Store. The App Store isn't available in all areas.

Find apps

Browse by category. Tap Categories, then choose a category—for example, Education, Medical, or Sports.

Find a specific app. Tap Search, enter the name in the search field, then tap Search on the keyboard.

Ask Siri. Say something like: "Find apps by Apple."

3D Touch. On the Home screen, press App Store, then tap Search. See [3D Touch](#).

Tell a friend about an app. View the app, tap , then choose an option. See [Share from apps](#).

Add an item to Wish List. To track an app you might want to purchase later, view the app, tap , then tap Add to Wish List. To see your Wish List, tap .

Purchase, redeem, and download

Sign in with your Apple ID. If you aren't signed in with your Apple ID, the App Store asks you to do so before you make a purchase. To view or edit your Apple ID, go to Settings > iTunes & App Store, then tap your Apple ID. If you don't have an Apple ID, you can create one at the time of purchase.

Buy and download an app. Tap the app's price, then tap Buy. If the app is free, tap Get, then tap Install.

If you see  instead of a price, you've already purchased the app and you can download it again without a charge. While the app is downloading or updating, its icon appears on the Home screen with a progress indicator.

Ask Siri. Say something like: "Purchase *app name*."

3D Touch. To view your purchased items from the Home screen, press App Store, then tap Purchased. See [3D Touch](#).

View and download your previous purchases. Tap Updates, then tap Purchased. To automatically download apps that you purchased on other Apple devices, go to Settings > iTunes & App Store, then turn on Automatic Downloads.

Limit downloads to Wi-Fi connections. To prevent downloads from using cellular data, go to Settings > iTunes & App Store, then turn off Use Cellular Data.

Approve purchases with Family Sharing. With Family Sharing set up, the family organizer can review and approve purchases made by other family members under a certain age. For more information, see [Family Sharing](#).

View and download family members' app purchases. With Family Sharing set up, you can view and download apps purchased by your family members. Tap Updates, tap Purchased, then choose a family member.

Hide individual purchases. Using iTunes on a computer, family members can hide any of their purchases so other family members can't view or download them.

Restrict in-app purchases. Many apps provide extra content or enhancements for a fee. To prevent in-app purchases, go to Settings > General > Restrictions, make sure Restrictions is enabled, then turn off In-App Purchases. You can also [set other restrictions](#), such as limiting app downloads by age ratings.

Give an app. View the app, tap , then tap Gift.

Give an iTunes gift certificate. Tap Featured, scroll to the bottom, then tap Send Gift.

Redeem a gift card or code. Tap Featured, scroll to the bottom, then tap Redeem.

Ask Siri. Say something like: "Redeem an iTunes Store gift card."

3D Touch. On the Home screen, press App Store, then tap Redeem.

Create an iTunes Pass. Tap Featured, scroll to the bottom, tap Redeem, then tap Get Started (below iTunes Pass). See the Apple Support article [About iTunes Pass](#).

Manage your apps.

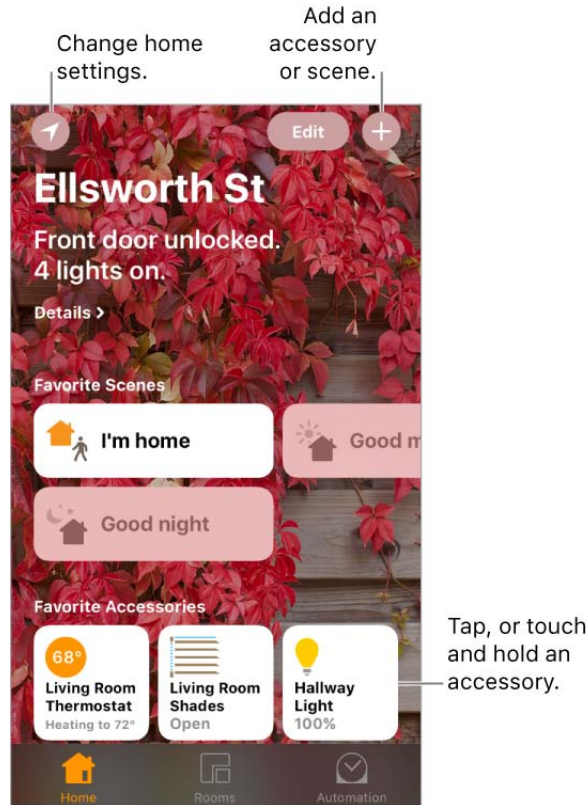
[Arrange your apps](#)

[Organize with folders](#)

[Remove apps](#)

Home

Home at a glance



Home provides a secure way to control and automate HomeKit-enabled accessories, such as lights, locks, thermostats, window shades, smart plugs, cameras, and more. With Home, you can control any “Works with Apple HomeKit” accessory using iPhone.

After you set up your home and its rooms, you can control accessories individually, or use scenes to control multiple accessories with one command. For example, you might create a scene called “going to bed” that turns off the lights around the house, dims the lights in the room “master bedroom” to 30%, then locks the front door and lowers the thermostat.

If you have an Apple TV (4th generation or later), or iPad that you leave at home, you can schedule scenes to run automatically at certain times, or when you activate a particular accessory (such as unlocking the front door). This also allows you, and others you invite, to securely control your home while you’re away.

Add and control accessories

The first time you open the Home app, the setup assistant helps you create a home, where you can add accessories and define rooms. If you already created a home using another HomeKit-enabled app, you'll skip this step.

Add an accessory to your home. To add an accessory to Home, make sure the accessory is turned on, tap , tap "Add Accessory," then follow the onscreen instructions. You'll need to scan or enter the 8-digit HomeKit setup code found on the accessory itself (or its box or documentation). You can assign the accessory to a room, as well as give it a name. The name defines how it's shown in the Home app, and also how you control it using Siri.

Control an accessory. Tap an accessory's button to quickly turn it on or off, or touch and hold the button until controls appear. The available controls depend on the type of accessory it is. For example, with some lightbulbs, you can change colors. You can also control accessories [using Control Center](#).

Assign an accessory to a room. Tap Rooms, tap , then choose the room the accessory is currently assigned to. (If it's not already assigned, look in Default Room.) Touch and hold the accessory's button until its controls appear, then tap Details. Tap Location to assign it to a room.

Rename or edit an accessory. Touch and hold the accessory's button until its controls appear, then tap Details.

Edit a room. Tap , tap Room Settings, then choose the room to edit. You can change the room's name, wallpaper, or delete the room.

Make an accessory a favorite. Touch and hold an accessory's button until its control appear, then tap Details. Then turn on "Included in Favorites." You can access your favorite accessories from the Home tab or Control Center.

Rearrange your favorites. Tap Edit, then drag the buttons into the arrangement you want.

Add more homes. Tap , then tap Add Home. After you add another home, tap  to choose the one you want to view or control.

Create and use scenes

Scenes allow you to control multiple accessories at once. For example, you might define a “Reading” scene that adjusts the lights, then closes the drapes, and then adjusts the thermostat. Home has some typical scenes already defined for you, but you’ll need to edit them before they’ll work.

Create a scene. Tap , enter a name for the scene (such as “Dinner Party,” or “Watching TV”), then tap Add Accessories. Select the accessories you want this scene to control, then tap Done. Next, set each accessory to change it to the state you want it to be when the scene is run. For example, you can set up the scene so that when you turn on lights in the bedroom, the lights in the kitchen are turned off.

Run a scene. Tap a scene to run it. If you don’t see the scene you want to run, look in a different room.

Change a scene. Touch and hold a scene, then tap Details.

Make a scene a favorite. Touch and hold a scene, tap Details, then tap Show in Favorites. Favorite scenes appear on the Home tab and are handy for scenes that aren’t automated.

Control your home using Siri

You can use Siri to control your accessories and scenes. Here are some of the things you might be able to say to Siri, depending on your accessories, how you’ve named them, and the scenes you’ve created:

“Turn off the lights” or “Turn on the lights”

“Dim the lights” or “Set brightness to 55%”

“Is the hallway light on?”

“Set the temperature to 68 degrees”

“Did I lock the front door?”

If you set up rooms, scenes, or more than one home, you can say things like:

“I’m home” or “I’m leaving”

“Turn down the kitchen lights”

“Turn on the fan in the office”

"Set my reading scene"

"Turn off the lights in the Chicago house"

Automations and remote access

If you have an Apple TV (4th generation or later), or you set up iPad with iOS 10 that you leave at home, you can use automations and remote access. Automations can run scenes automatically based on the time of day, your location, a sensor being activated, or the action of an accessory. The Apple TV or iPad acts as a *home hub*, which also allows remote access to your accessories.

Allow remote access. Go to Settings > iCloud, then turn on Home. Make sure you're signed in using the same Apple ID on all the devices.

If you have an Apple TV using the same iCloud account as your iPhone, it will be paired automatically and enabled for automation. To set up iPad for automation, see the Home chapter of *iPad User Guide*.

Create an automation. Tap the Automation tab, tap Create New Automation, then choose one of the automation triggers described below.

When arriving or leaving a location. Tap My Location Changes, then set a geofence and if you want the trigger to occur when you arrive or leave the location. You can also set this automation to only occur after sunset, which is useful for turning on lights only when they're needed.

At a time of day. Tap A Time of Day Occurs, then choose when you want this automation to run. If you choose Sunset or Sunrise, the time will vary as the season changes.

When an accessory changes. Tap An Accessory is Controlled, select an accessory, then tap Next and follow the onscreen instructions. You might use this, for example, to run a scene when you unlock the front door.

A sensor detects something. Tap A Sensor Detects Something, select an accessory, then tap Next and follow the onscreen instructions. You might use this, for example, to turn on lights in a stairway when motion is detected nearby.

Disable an automation. In the Automations tab, tap the automation, then turn off Enable This Automation.

Share control with others

You can invite others to control the accessories in your home. The people you invite need an iCloud account. If you have an Apple TV (4th generation or later), or you configured an iPad to be used as a home hub, additional controls are available that let you set what guests are able to do.

Give others control. Tap the Home tab, then tap . Tap Invite, then choose from your Contacts list or enter mail addresses.

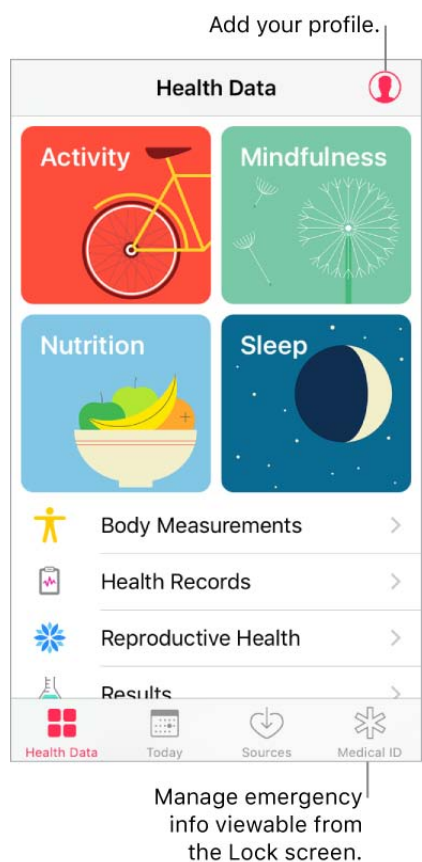
Health

Your health at a glance

The Health app gathers your health and fitness information and provides a clear overview of your health. It shows data from other apps and devices, such as Apple Watch, all in one place. With Health, you can sign up to be an organ donor, save health records to iPhone, and share your data with family members and healthcare providers. And, Health can display important contacts and medical information on the iPhone Lock screen for emergency responders.

WARNING: iPhone, Apple Watch, and the Health app aren't medical devices. See [Important safety information](#).

Explore the health and fitness categories. Tap on each of the four categories—Activity, Mindfulness, Nutrition, and Sleep—for introductory videos and recommended apps to help you get started.



Add your profile. Tap  to provide basic information, such as your name and gender, for setting up health and fitness apps.

View a summary of your daily progress. Tap Today to see your stats for the day. To view your data from another day, tap a different date on the calendar.

3D Touch. To quickly view your daily progress from the Home screen, press Health, then tap Today. See [3D Touch](#).

Get started

Health automatically counts your steps and walking and running distances (not available on iPhone 5). To gather additional health and fitness data, you can use other apps (such as nutrition and fitness apps) and devices (such as blood pressure monitors, weight scales, and glucose monitors) that are compatible with Health.

Install third-party apps. To see recommended apps, tap a category, such as Activity. Tap a recommended app to download it from the App Store. After you install and set up the app, you can choose to share data with Health.

View your sleep history. If you [set up Bedtime](#) in the Clock app, Health tracks your sleep history. To view your sleep history in Health, tap Health Data, then tap Sleep.

Collect data from Apple Watch. After you pair Apple Watch with your iPhone, data is automatically sent to Health. To view your move, exercise, and stand data and goals, tap Health Data, then tap Activity. To see heart rate data, tap Health Data, tap Vitals, then tap Heart Rate.

Collect data from another device. Follow the setup instructions for the device. If it's a Bluetooth device, you need to pair it with iPhone. See [Bluetooth devices](#).

View and manage a data type. Tap Health Data, then navigate to the data type. For example, tap Activity, then tap Steps.

View your progress over time: Tap the Day, Week, Month, or Year tab.

Move a data type to the top of the Today screen: Turn on Add to Favorites.

Manually enter data: Tap .

Edit data: Tap Show All Data, then tap Edit.

View apps and devices allowed to share data: Tap Data Sources & Access.

3D Touch. Press the data type to preview the data chart. See [3D Touch](#).



Share health and fitness data

You can control how the Health app shares your health and fitness data with other apps and devices. For example, if your healthcare provider offers an app that sends your vital signs to your doctor, you can install the app and allow Health to share specific data (such as blood glucose or activity).

Control the sharing of data. Tap Sources to see the apps and devices you allow to read or write data. To change your sharing options, tap the device or app.

Export all your health data. Tap Health Data, tap , then tap Export Health Data. Your data is exported in XML format, a common format for sharing data between apps.

Create a Medical ID

In Health, you can create a Medical ID, which contains your critical contact and medical information, such as medications and allergies. Emergency responders (and anyone else with physical access to your iPhone) can view your Medical ID from the Lock screen without entering a passcode.

Set up your Medical ID. Tap Medical ID, then tap Create Medical ID.

Review or change your Medical ID. Tap Medical ID. To make changes, tap Edit.

3D Touch. To quickly view your Medical ID from the Home screen, press Health, then tap Medical ID. See [3D Touch](#).

View your Medical ID from the Lock screen. Wake iPhone and press the Home button without using Touch ID. On the passcode screen, tap Emergency, then tap Medical ID.

Prevent viewing from the Lock screen. Tap Medical ID, tap Edit, then turn off Show When Locked.

Register as an organ, eye, or tissue donor (U.S. only)

A single organ donor can save as many as eight lives. In Health, you can register to be an organ, eye, or tissue donor with Donate Life America. After you register, your Medical ID indicates that you're registered with Donate Life America.

Learn about organ donation. Tap Medical ID, scroll down to Organ Donation, then tap Learn More for an overview of organ donation and Donate Life America.

Register with Donate Life America. Tap Medical ID, scroll down to Organ Donation, then tap Sign Up with Donate Life.

View or edit your registration information. Tap Medical ID, scroll down to Organ Donation, then tap Edit.

Add optional donation preferences: Scroll down and tap Edit Donation Preferences. This takes you to your Donate Life America profile page, where you can opt in to research and education, and specify restrictions on certain organs.

Remove your registration: Tap Remove Me.

Manage health records

A health record typically contains patient information such as medications, immunizations, lab results, and more. If you receive a health record as a CCD file in ZIP or XML format, you can store it in Health. You can also share it with other healthcare providers and family members.

Import a health record. After you receive a health record—via a message in Mail or Messages, a website on Safari, or AirDrop—tap , then tap Add to Health.

View and manage your health records. In Health, tap Health Data, then tap Health Records.

Share a health record: Tap the health record, tap , then [choose a sharing option](#).

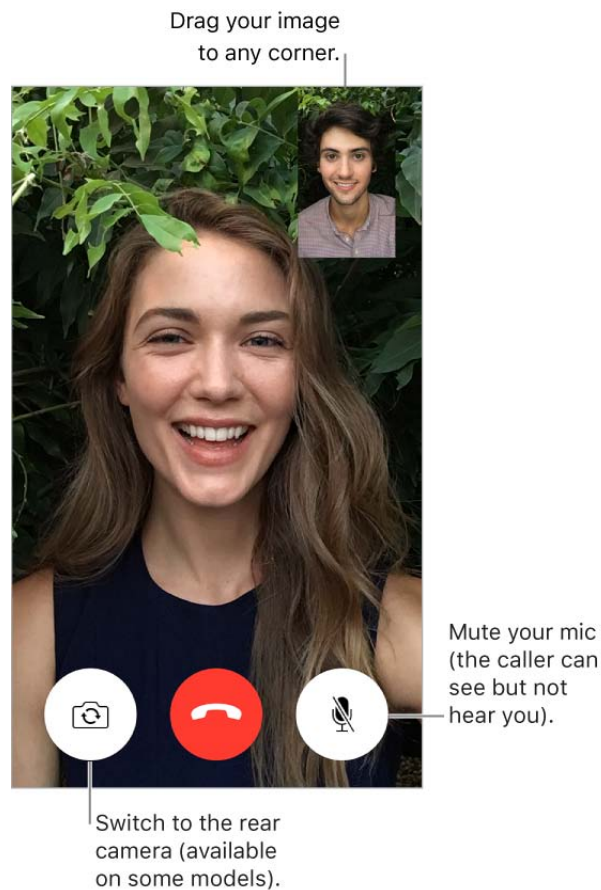
Delete a health record: Tap Show All Records, swipe left on the health record, then tap Delete.

FaceTime

FaceTime at a glance

Use FaceTime to make video or audio calls to other iOS devices or computers that support FaceTime. The FaceTime camera lets you talk face-to-face; switch to the rear iSight camera (not available on all models) to share what you see around you.

Note: FaceTime may not be available in all areas.



With a Wi-Fi connection and an Apple ID, you can make and receive FaceTime calls (first sign in using your Apple ID, or create a new account). You can also make FaceTime calls over a cellular data connection, which may incur additional charges. To turn off this feature, go to Settings > Cellular. For more information about cellular usage and settings, see [Cellular data settings](#).

Set up FaceTime. Make sure FaceTime is turned on in Settings > FaceTime. You can also specify a phone number, Apple ID, or email address to use with FaceTime and set your caller ID.

Make and answer calls

Make a FaceTime call. Make sure FaceTime is turned on in Settings > FaceTime. Tap FaceTime, then type the name or number you want to call in the entry field at the top. Tap  to make a video call, or tap  to make a FaceTime audio call. Or tap  to open Contacts and start your call from there.

3D Touch. To quickly call or send a message to a recent contact, press a contact in your list of FaceTime calls, then choose a quick action. See [3D Touch](#).

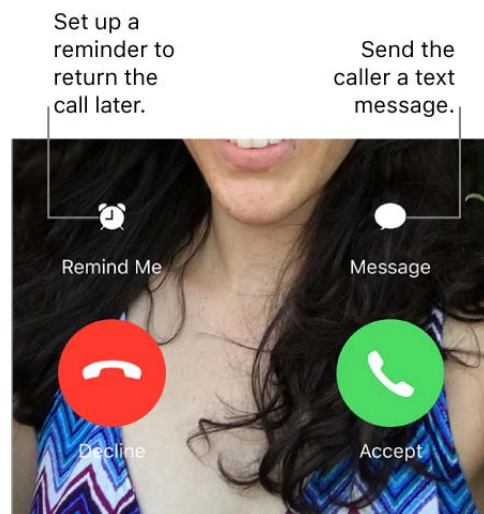
Leave a message. If no one answers your call, tap Leave a Message. You can also choose to cancel the call or try calling back.

Want to call again? Tap FaceTime to see your call history on the screen. Tap Audio or Video to refine your search, then tap a name or number to call again. Tap  to open the name or number in Contacts.

Delete a call from call history. Tap FaceTime to see your call history on the screen. Swipe to the left, then tap Delete to delete the name or number from your call history.

Can't take a call right now? When a FaceTime call comes in, you can answer, decline, or choose another option.

Ask Siri. Say something like: "Make a FaceTime call."



See the whole gang. Rotate iPhone to use FaceTime in landscape orientation. To avoid unwanted orientation changes, lock iPhone in portrait orientation. See [Change the screen orientation](#).

Manage calls

Multitask during a call. Press the Home button, then tap an app icon. You can still talk with your friend, but you can't see each other. To return to the video, tap the green bar at the top of the screen.

Juggle calls. FaceTime calls aren't forwarded. If another call comes in while you're on a FaceTime call, you can either end the first call and answer the incoming call, decline the incoming call, or reply with a text message. You can use call waiting with FaceTime audio calls only.

Use call waiting for audio calls. If you're on a FaceTime audio call and another call comes in—either a phone call or another FaceTime audio call—you can decline the call, end the first call and accept the new one, or put the first call on hold and respond to the new call.

Block unwanted callers. Go to Settings > FaceTime > Blocked > Add New. You won't receive voice calls, FaceTime calls, or text messages from blocked callers. For more information about blocking calls, see the Apple Support article [Block calls and block or filter messages](#).

Calculator

Tap numbers and functions in Calculator, just as you would with a standard calculator.

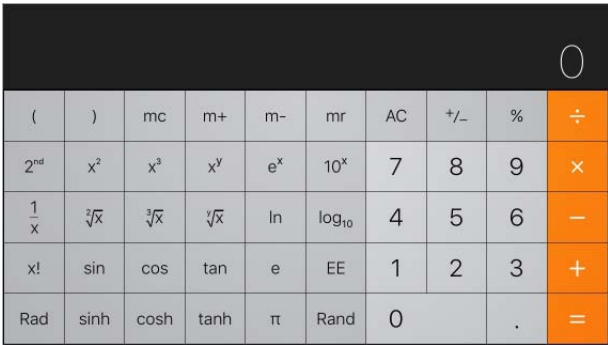


Tip: To get to Calculator quickly from the Home screen, swipe up from the bottom edge of the screen to open Control Center.

Delete the last digit. Swipe left on Calculator’s display.

Clear the calculation results. Tap the All Clear key.

Use the scientific calculator. Rotate iPhone to landscape orientation.



Ask Siri. Say something like:

“What’s 74 times 9?”

“What’s 18 percent of 225?”

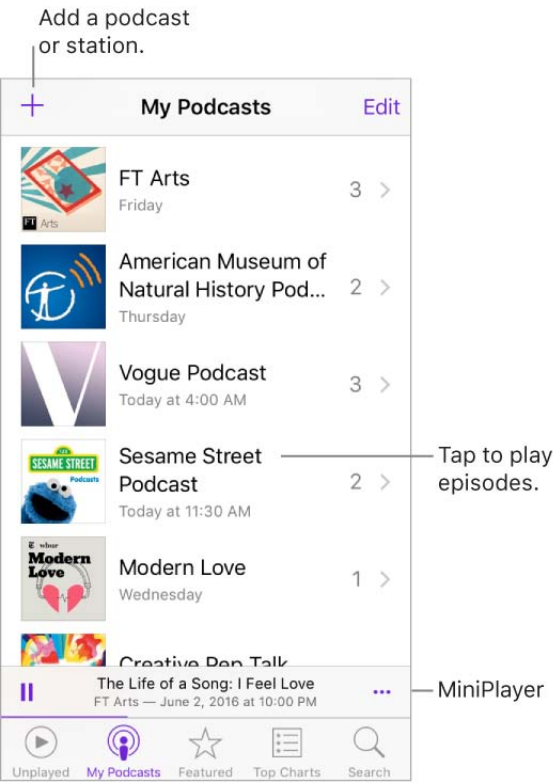
Podcasts

Podcasts at a glance

Open the Podcasts app, then browse, subscribe to, and play your favorite audio or video podcasts on iPhone.

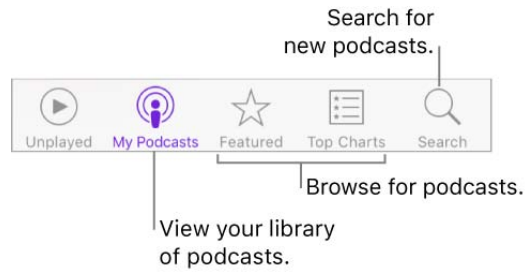
Podcasts are free shows that you can play like you would a radio or TV show. Some podcasts are individual episodes; some are series. You can stream them over your Wi-Fi or cellular Internet connection, or you can download them to your iPhone to play when you're offline.

- Ask Siri.** Say something like:
- "Play podcasts"
 - "Skip back 15 seconds"
 - "Skip to the next episode"
 - "Play 'Freakonomics Radio' podcast"



Get podcasts and episodes

Discover podcasts. Tap Featured or Top Charts.



Search for podcasts and episodes. Tap Search, then type the name of a podcast or episode.

Play an episode. Tap it. If the episode isn't downloaded, it's streamed to iPhone.

Download an episode. Tap ☁ next to the episode. You can play it later, even when you're offline.

Subscribe to a podcast. Get new episodes as they're released. If you're browsing Featured podcasts or Top Charts, tap the podcast, then tap Subscribe. If you've already downloaded episodes of a podcast you want to subscribe to, tap My Podcasts, tap the podcast below Not Subscribed, tap ⚙️, then turn on Subscribed.

To sync your podcast subscriptions on all your devices, go to Settings > Podcasts, then turn on Sync Podcasts. To choose how frequently Podcasts checks your subscriptions for new episodes, go to Settings > Podcasts > Refresh Every, then choose an option.

Change the download settings for a subscribed podcast. You can turn off automatic downloads or specify whether to download all unplayed episodes or only new episodes. Tap My Podcasts, tap a podcast, tap ⚙️, tap Download Episodes, then tap an option.

To change the default setting for all podcasts, go to Settings > Podcasts > Download Episodes.

Limit downloads to Wi-Fi connections. To prevent podcast downloads from using cellular data, go to Settings > Podcasts, then turn on Only Download on Wi-Fi.

Unsubscribe from a podcast. Tap My Podcasts, tap a podcast, tap ⚙️, then turn off Subscribed.

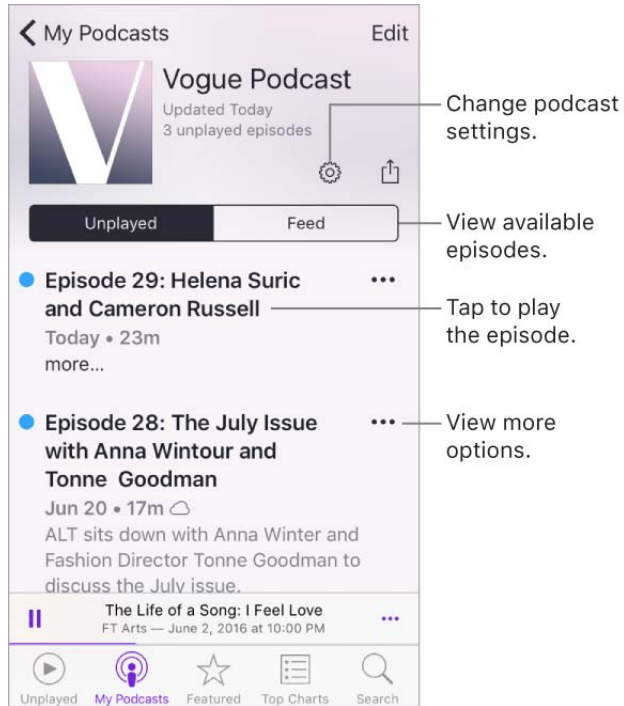
Manage your podcast library

Your library consists of:

Podcasts you've subscribed to. The episodes are available for streaming and downloading.

Episodes you've downloaded, whether or not you've subscribed to their podcasts.

View your podcast library. Tap My Podcasts. Tap a podcast to see its episodes.



Find unplayed episodes. To find episodes that you haven't heard or watched yet, tap a podcast, then tap Unplayed above the list of episodes. To see the unplayed episodes of all podcasts in your library, tap Unplayed at the bottom of the screen.

3D Touch. To peek at a list of unplayed episodes, press a podcast title in My Podcasts. To play the episodes, swipe up, then tap Play. To play unfinished episodes from the Home screen, press Podcasts, then choose an episode. See [3D Touch](#).

Search your library. Tap My Podcasts, then drag down the center of the screen to reveal the Search field.

Download an episode of a subscribed podcast. You see ☁ next to an episode in your library that isn't downloaded. To download it, tap ••• next to the episode, then tap Download Episode or Save Episode. (To help you find downloads you want to return to, saved downloads are marked as Saved in the list of episodes.)

Remove a download. Tap ••• next to an episode, then tap Remove Download. (The episode isn't deleted from your library. However, if the podcast is no longer available from its publisher, you can't stream or download it again.) For information about deleting

a podcast, see [Delete episodes and podcasts](#).

Get more info about an episode. Tap **•••** next to an episode, then tap View Full Description. Tap any links to open them in Safari.

Add an episode to Up Next. Tap **•••** next to an episode, then tap Add to Up Next or Play Next.

Browse for more episodes. To see additional episodes of a podcast, tap My Podcasts, tap the podcast, then tap Feed.

Save multiple episodes at once. Tap My Podcasts, tap a podcast, tap Edit, select individual episodes, then tap Save. Or, tap Unplayed, tap Edit, select individual episodes, then tap Save. Saving an episode always downloads it. (To help you find downloads you want to return to, saved downloads are marked as Saved in the list of episodes.)

Find saved episodes. Tap My Podcasts, tap a podcast, then tap Saved above the list of episodes.

List oldest episodes first. Tap My Podcasts, tap a podcast, tap , then tap Sort Order.

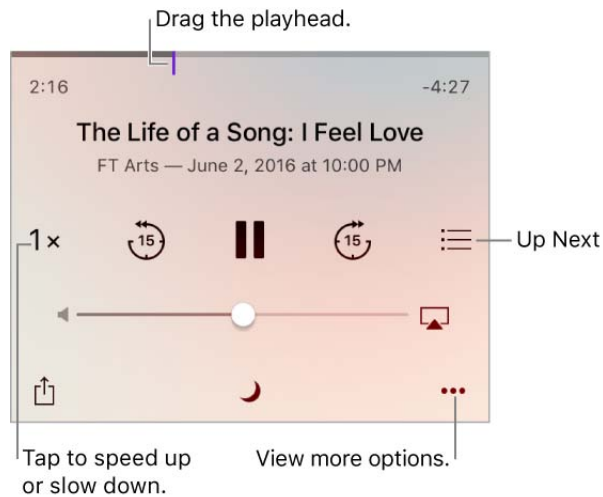
Share an episode. Tap **•••** next to an episode, tap Share Episode, then [choose a sharing option](#).

Share a podcast. Tap My Podcasts, tap a podcast, tap , then [choose a sharing option](#).

Control playback

Use the playback controls on the Now Playing screen to go forward and back in a podcast, set the speed, reorder the Up Next list, and more.

Show the Now Playing screen. Tap the MiniPlayer near the bottom of the screen. To hide Now Playing, swipe down the podcast image, or tap .



See podcast info while you listen. Tap the podcast image on the Now Playing screen.

Skip forward or back within the episode. Tap a circular arrow.

Skip forward or back with greater accuracy. Move your finger toward the top of the screen as you drag the playhead left or right. When you're close to the playback controls, you can scan quickly through the entire episode. When you're close to the top of the screen, you can scan one second at a time.

See what's up next. Tap . Tap a podcast to play it and those that follow. Drag to reorder the list.

Set a sleep timer. Before starting playback, tap , then choose how long the podcast plays before it stops.

Play the podcast on an AirPlay-enabled device. Tap , then choose a device. For more about AirPlay and other ways to connect, see [AirPlay Mirroring](#).

Control playback with an Apple headset.

Pause: Press the center button. Press again to resume playback.

Skip to the next episode: Press the center button twice quickly.

Return to the previous episode: Press the center button three times quickly.

Fast-forward: Press the center button twice quickly, then hold.

Rewind: Press the center button three times quickly, then hold.

Reach Siri: Press and hold the center button. See [Make requests](#).

Delete episodes and podcasts

Delete an episode. Tap My Podcasts, tap a podcast, then swipe an episode to the left. The episode disappears from your library. If the episode was downloaded, the download is also removed.

Delete multiple episodes. Tap My Podcasts, tap a podcast, tap Edit, select individual episodes, then tap Delete. Or, tap Unplayed, tap Edit, select individual episodes, then tap Delete.

Automatically delete played episodes. For all podcasts, go to Settings > Podcasts > Delete Played Episodes. To turn the option on or off for an individual podcast, tap My Podcasts, tap a podcast, tap , then tap Delete Played Episodes.

Delete a podcast. Tap My Podcasts, tap Edit, then tap  next to the podcast.

Organize your favorites into stations

Organize your favorite podcasts into custom stations.

Create a station. Tap My Podcasts, tap , then tap Add Station. Name your station, tap Save, then add podcasts. To play the podcasts in your station, tap My Podcasts, then tap  next to the station.

3D Touch. To peek at station episodes, press a station. To play them, swipe up, then tap Play. See [3D Touch](#).

Change the order of the station list. Tap My Podcasts, tap Edit, then drag  up or down.

Change the playback order of shows in a station. Tap a station, tap Edit, then drag  up or down.

Delete a station. Tap My Podcasts, tap Edit, then tap  next to the station.

Compass

Compass at a glance

Open Compass in the Extras folder to find a direction, see your latitude and longitude, find level, or match a slope.



3D Touch. To quickly access Compass, tap Extras on the Home screen, press Compass, then choose the Start Compass quick action. See [3D Touch](#).

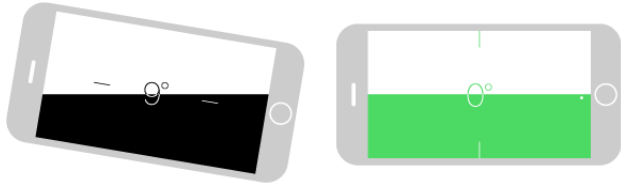
See your location. To see your current location, go to Settings > Privacy > Location Services, then turn on Location Services and Compass. For more about Location Services, see [Location Services](#).

See your location in Maps. Tap the coordinates at the bottom of the screen to open Maps and display your location.

Stay on course. Tap the screen to lock in the current heading, then watch for a red band to see if you're off course.

Important: The accuracy of the compass can be affected by magnetic or environmental interference; even the magnets in the iPhone earbuds can cause a deviation. Use the digital compass only for basic navigation assistance. Don't rely on it to determine precise location, proximity, distance, or direction.

On the level



Show the level. Swipe left on the Compass screen.

Quickly access the level from the Home screen. Tap Extras on the Home screen, press Compass, then choose the Start Level quick action. See [3D Touch](#).

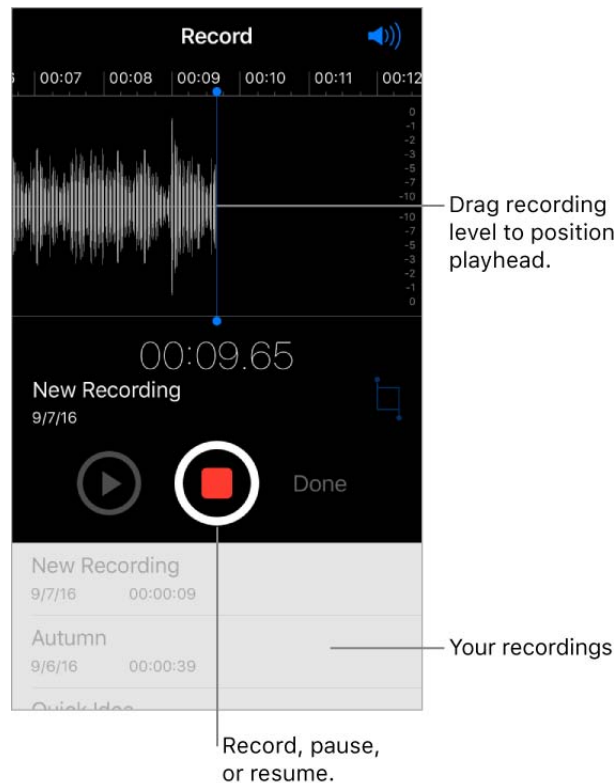
Hang it straight. Hold iPhone against a picture frame or other object, then rotate them until you see green. For true level, the deviation is displayed on a black background. If the background is red (indicating relative slope), tap the screen to change it to black.

Match that slope. Hold iPhone against the surface you want to match, then tap the screen to capture the slope. The slope you seek is shown in black, with deviation shown in red. Tap again to return to standard level.

Voice Memos

Voice Memos at a glance

With Voice Memos you can use iPhone as a portable recording device. Use it with the built-in microphone, an iPhone or Bluetooth headset mic, or a supported external microphone.



Record

Record a voice memo. Tap  or press the center button on your headset. Tap again to pause or resume.

Recordings using the built-in microphone are mono, but you can record stereo using an external stereo microphone that works with iPhone. Look for accessories marked with the Apple "Made for iPhone" or "Works with iPhone" logo.

3D Touch. To start recording a voice memo from the Home screen, press Voice Memos, then choose the New Recording quick action. See [3D Touch](#).

Adjust the recording level. Move the microphone closer to what you're recording. For better recording quality, the loudest level should be between -3 dB and 0 dB.

Preview before saving. Tap ► to the left of the Record button. To position the playhead, drag the recording level display left or right.

Record over a section. Drag the recording level display to position the playhead, then tap ●.

Trim the excess. Tap ⌂, then drag the red trim handles. Tap ► to check your edit. Adjust the trim handles if necessary, then tap Trim to remove everything outside the trim handles.

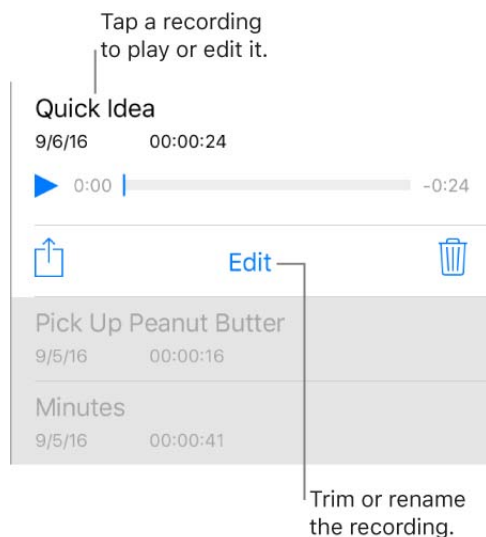
To remove the sound between the trim handles, tap Delete.

Save the recording. Tap Done.

Mute the start and stop tones. Use the iPhone volume buttons to turn the volume all the way down.

Multitask. To use another app while you're recording, press the Home button, then open the other app. To return to Voice Memos, tap the red bar at the top of the screen.

Play it back



Rename a recording. Tap the name of the recording.

Share and sync recordings

You can share individual voice memos and sync all your voice memos with the iTunes library on your computer.

Share a voice memo. Tap a saved voice memo, tap , then choose a sharing option, or save the memo to iCloud Drive.

Sync voice memos with iTunes. Connect iPhone to your computer. Open iTunes on your computer, then select iPhone near the top-left corner. Select Music in the sidebar, select Sync Music, select “Include voice memos,” then click Apply. Or, if iCloud Music Library is enabled on iPhone, select “Sync voice memos,” then click Apply.

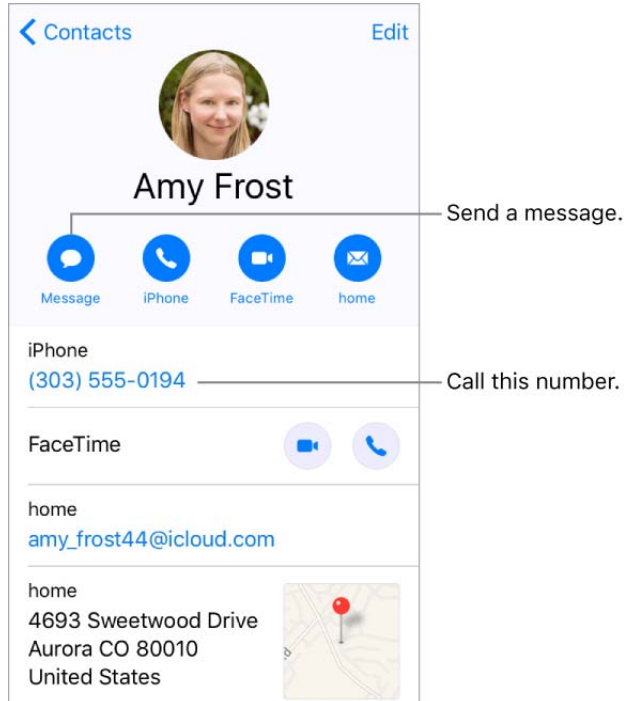
When you delete a synced voice memo from iTunes, it stays on the device where it was recorded, but it’s deleted from any other iPhone or iPod touch you synced. If you delete a synced voice memo on iPhone, it’s copied back to iPhone the next time you sync with iTunes, but you can’t sync that copy back to iTunes a second time.

Voice memos synced from iPhone to your computer appear in the Music list and in the Voice Memos playlist in iTunes. Voice memos synced from your computer appear in the Voice Memos app on iPhone, but not in the Music app.

Contacts

Contacts at a glance

The Contacts app is located in the Extras folder. Contacts lets you see and edit your contacts lists from personal, business, and other accounts. You can also set up a contact card with your own information.



Create a new contact. Tap **+**.

iPhone automatically suggests new contacts from Mail. Turn this on or off in Settings > Contacts > Contacts Found in Mail.

3D Touch. To create a contact from the Home screen, tap Extras, press Contacts, then choose the Create New Contact quick action. See [3D Touch](#).

Ask Siri. Say something like:

"What's my brother's work address?"

"Sarah Castelblanco is my sister"

"Send a message to my sister"

Find a contact. Tap the search field at the top of the contacts list, then enter your search. You can also search your contacts using Search (see [Search](#)).

Quickly reach a contact. Tap one of the buttons under the contact's name to start a message, call, video call, or email. To change the default contact method (for a call, for example), touch and hold the call button, then tap a phone number.

If you use a third-party app to make video or audio calls, send messages, or send email, you may be able to set that app as the default.

Change how your contacts are sorted and displayed. Go to Settings > Contacts.

Share a contact. Tap a contact, then tap Share Contact. See [Share from apps](#). Sharing a contact shares all the info from the contact's card.

Assign a photo to a contact. Tap a contact, tap Edit, then tap "add photo." You can take a photo or add one from the Photos app.

Change a label. If a field has the wrong label, such as Home instead of Work, tap Edit. Then tap the label and choose one from the list, or tap Add Custom Label to create one of your own.

Add your friends' social profiles. While viewing a contact, tap Edit, then tap "add social profile." You can add Twitter, Facebook, Flickr, LinkedIn, Myspace, and Sina Weibo accounts, or create a custom entry.

Delete a contact. Go to the contact's card, then tap Edit. Scroll down, then tap Delete Contact.

Set your contact info

Set your My Info card. Go to Settings > Contacts, tap My Info, then select the contact card with your name and information. If you don't already have a card with your own information, open Contacts, then tap +.

Edit your My Info card. Tap My Card under Search in Contacts, then tap Edit.

Create or edit your Medical ID. When viewing your My Info card, tap Edit, then scroll down and tap Create Medical ID or Edit Medical ID.

Add contact accounts

Besides adding contacts individually, you can:

Use your iCloud contacts: Go to Settings > iCloud, then turn on Contacts.

Import your Facebook Friends: Go to Settings > Facebook, then turn on Contacts in the “Allow These Apps to Use Your Accounts” list. This creates a Facebook group in Contacts.

Add contacts from another account: Go to Settings > Contacts, then tap Add Account.

Access a Microsoft Exchange Global Address List: Go to Settings > Contacts, tap your Exchange account, then turn on Contacts.

Set up an LDAP or CardDAV account to access business or school directories: Go to Settings > Contacts > Add Account > Other. Tap Add LDAP account or Add CardDAV account, then enter the account information.

Sync contacts from your computer: In iTunes on your computer, turn on contact syncing in the device info pane. For information, see iTunes Help.

Import contacts from a SIM card (GSM): Go to Settings > Contacts > Import SIM Contacts.

Import contacts from a vCard: Tap a .vcf attachment in an email or message.

Search a directory. Tap Groups, tap the GAL, CardDAV, or LDAP directory you want to search, then enter your search. To save a person’s info to your contacts, tap Add Contact.

Show or hide a group. Tap Groups, then select the groups you want to see. This button appears only if you have more than one source of contacts.

Update your contacts using Twitter, Facebook, and Sina Weibo. Go to Settings > Twitter, Settings > Facebook, or Settings > Sina Weibo, then tap Update Contacts. This updates contact photos and social media account names in Contacts.

Use Contacts from within the Phone app

Add a Favorite. Put VIP contacts in your Favorites list for quick dialing. Tap a Contact, then scroll down and tap Add to Favorites. Calls from these contacts bypass Do Not Disturb (see [Do Not Disturb](#)).

3D Touch. To quickly view favorite contacts, tap Extras, then press Contacts. See [3D Touch](#).

Save the number you just dialed. In Phone, tap Keypad, enter a number, then tap . Tap Create New Contact, or tap Add to Existing Contact, then choose a contact.

Add a recent caller to Contacts. In Phone, tap Recents, then tap  next to the number. Tap Create New Contact, or tap Add to Existing Contact, then choose a contact.

Automate dialing an extension or passcode. If the number you're calling requires dialing an extension, iPhone can enter it for you. When editing a contact's phone number, tap + * # to enter pauses in the dialing sequence. Tap Pause to enter a two-second pause, which is represented by a comma. Tap Wait to stop dialing until you tap Dial again, which is represented by a semicolon.



work
(330) 555-0124,5;2

Hide duplicate contacts

When you have contacts from multiple sources, you might have multiple entries for the same person. To keep redundant contacts from appearing in your All Contacts list, contacts from different sources with the same name are linked and displayed as a single *unified contact*. When you view a unified contact, the title Unified Info appears.

Link contacts. If two entries for the same person aren't linked automatically, you can unify them manually. Tap one of the contacts, tap Edit, tap Link Contacts, choose the other contact entry to link to, then tap Link.

When you link contacts with different first or last names, the names on the individual cards don't change, but only one name appears on the unified card. To choose which name appears on the unified card, tap one of the linked cards, tap the contact's name on that card, then tap Use This Name For Unified Card.

Note: When you link contacts, those contacts aren't merged. If you change or add information in a unified contact, the changes are copied to each source account where that information already exists.

iCloud Drive

iCloud Drive at a glance

iCloud Drive stores your documents—including your presentations, spreadsheets, and images—in [iCloud](#), so you can access them from any of your devices set up with iCloud. iCloud Drive allows your apps to share documents so you can work on the same file across multiple apps.

You can use iCloud Drive on devices with iOS 8 or later, a Mac computer with OS X v10.10 or later, a PC with iCloud for Windows 5 or later, or on [iCloud.com](#). To access iCloud Drive, you must be signed in to iCloud with your Apple ID. Storage limits are subject to your iCloud storage plan.

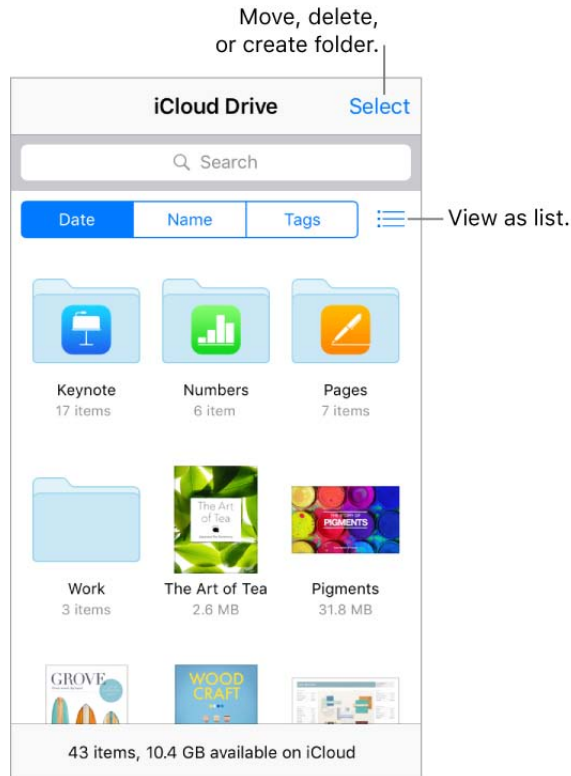
Set up iCloud Drive

Set up iCloud Drive. Go to Settings > iCloud > iCloud Drive, then turn on iCloud Drive and follow the onscreen instructions. If you're asked to upgrade to iCloud Drive, see the Apple Support article [iCloud Drive FAQ](#).

Choose which apps use iCloud Drive. Go to Settings > iCloud > iCloud Drive, then turn iCloud Drive on or off for the apps that support it.

Use the iCloud Drive app

Typically you access documents in Cloud Drive using the app that created them. For example, with Keynote, you can access all of your presentation documents directly in iCloud Drive. If you want to see all of the documents in iCloud Drive at once, use the iCloud Drive app.



3D Touch. To access a recent file or search iCloud Drive from the Home screen, press iCloud Drive, then choose a quick action. See [3D Touch](#).

Open a document. Tap a document's icon to open it in the app that created the file. If you don't have the app installed, a preview of it opens in Quick Look.

Open a copy of a document in another app. Tap ⓘ next to the document you want to open. Then tap  and choose a sharing action.

3D Touch. Press a document's icon to see a preview, then swipe up for options. Or, press deeper to open it. See [3D Touch](#).

Rename a document. Tap ⓘ next to the document you want to rename. Then tap the name to edit it.

Move or delete a document. Tap Select, select the documents and folders you want, then tap either Move or Delete. For information about recovering a file you deleted, see [iCloud Drive FAQ](#).

Create a new folder. Tap Select, then tap New Folder.

Save a copy of a document to iCloud Drive. When you're viewing a document, such as a photo using Quick Look, tap , then tap Save to iCloud Drive.

Sharing

Share from apps

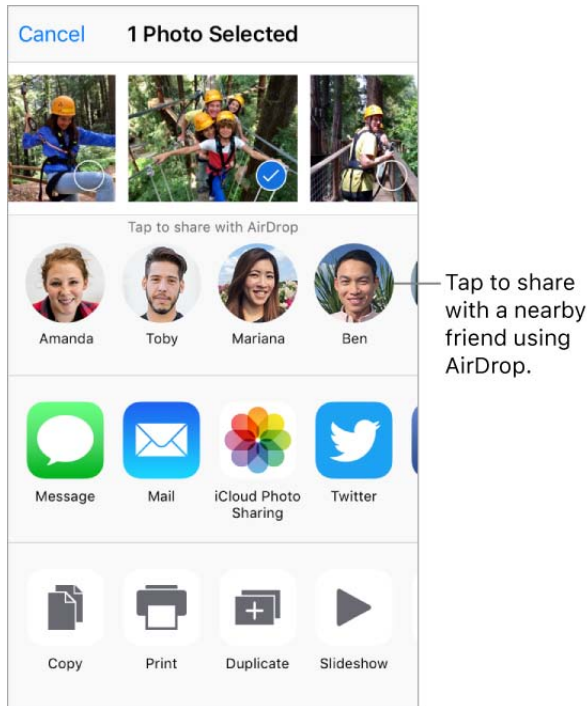
In many apps, you can tap Share or  to choose how to share your information. The choices vary depending on the app you're using. Additional options may appear if you've downloaded apps with sharing options. For more information, see [App extensions](#).

Use Twitter, Facebook, Flickr, Vimeo, or other third-party apps with sharing options. Sign in to your account in Settings. The third-party sharing buttons take you to the appropriate setting if you're not yet signed in.

Customize the way you share, view, and organize your information. Tap the More button, then touch and drag  to move items to new positions.

Share files with AirDrop

AirDrop lets you share your photos, videos, websites, locations, and other items wirelessly with other nearby devices (iOS 7 or later). With iOS 8 or later, you can share with Mac computers with OS X v10.10 or later. AirDrop transfers information using Wi-Fi and Bluetooth—both must be turned on. To use AirDrop, you need to be signed in to iCloud using your Apple ID. Transfers are encrypted for security.



Share an item using AirDrop. Tap , then tap the name of a nearby AirDrop user.

Receive AirDrop items from others. Swipe up from the bottom edge of the screen to open Control Center. Tap AirDrop, then choose to receive items from Contacts Only or from Everyone. You can accept or decline each request as it arrives.

For more information, see the Apple Support article [Share content with AirDrop from your iPhone, iPad, or iPod touch](#).

Family Sharing

With Family Sharing, up to six family members can share their iTunes Store, App Store, and iBooks Store purchases, a family calendar, and family photos, all without sharing accounts. For information about a family subscription to Apple Music, see [Access music](#).

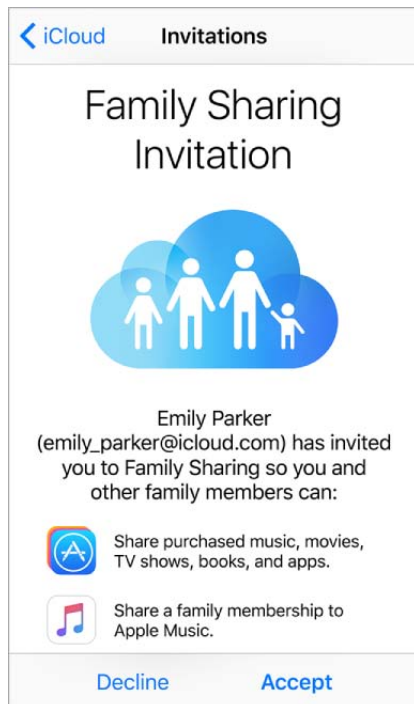
Family Sharing requires you to sign in to iCloud with your Apple ID. You will also be asked to confirm the Apple ID you use for the iTunes Store, App Store, and iBooks Store. Family Sharing is available on devices with iOS 8 or later, Mac computers with OS X v10.10 or later, and PCs with iCloud for Windows 5. You can be part of only one family group at a time.

Set up Family Sharing. Go to Settings > iCloud > Set Up Family Sharing. Follow the onscreen instructions to set up Family Sharing as the family organizer. The family organizer invites family members to join the family group and agrees to pay for any

iTunes Store, App Store, and iBooks Store purchases those family members initiate while part of the family group.

Create an Apple ID for a child. Go to Settings > iCloud > Family, scroll to the bottom of the screen, then tap “Create an Apple ID for a child.”

Accept an invitation to Family Sharing. Tap Accept in your invitation. Or, if you are near the organizer during the setup process, you can enter the Apple ID and password you use for iCloud on the organizer’s device.



Access shared purchases. Open iTunes Store, App Store, or iBooks Store, tap Purchased, then choose a family member from the menu that appears.

When a family member initiates a purchase, it is billed directly to the family organizer’s account. Once purchased, the item is added to the initiating family member’s account and is shared with the rest of the family. If Family Sharing is ever disabled, purchased items remain with the person who chose to purchase them, even if they were paid for by the family organizer.

Turn on Ask to Buy. The family organizer can require young family members to request approval for purchases or free downloads. Go to Settings > iCloud > Family, then tap the person’s name.

Note: Age restrictions for Ask to Buy vary by area. In the United States, the family organizer can enable Ask to Buy for any family member under age 18; for children under age 13, it’s enabled by default.

Hide your iTunes Store, App Store, and iBooks Store purchases. To hide all your purchases from family members, tap Settings > iCloud > Family > [your name], then turn off Share My Purchases. On your computer, you can also hide specific purchases so they aren't available to other family members. For more information, see the Apple Support article [Hide and unhide purchases in iTunes or iBooks on your Mac or PC](#).

Share photos or videos with family members. When you set up Family Sharing, a shared album called *Family* is automatically created in the Photos app on all family members' devices. To share a photo or video with family members, open the Photos app, then view a photo or video or select multiple photos or videos. Tap , tap iCloud Photo Sharing, add comments, then share to your shared family album. See [iCloud Photo Sharing](#).

Add an event to the family calendar. When you set up Family Sharing, a shared calendar called *Family* is automatically created in the Calendar app on all family members' devices. To add a family event, open the Calendar app, create an event, then choose to add the event to the family calendar. See [Share iCloud calendars](#).

Set up a family reminder. When you set up Family Sharing, a shared list is automatically created in the Reminders app on all family members' devices. To add a reminder to the family list, open the Reminders app, tap the family list, then add a reminder to the list. See [Reminders at a glance](#).

Share your location with family members. Family members can share their location by tapping Settings > iCloud > Share My Location (under Advanced). To find a family member's location, use the Find My Friends app. Or, use the Messages app (iOS 8 or later). For more information about using Messages to share or view locations, see [Share photos, videos, and audio](#).

Keep track of your family's devices. If family members enabled Share My Location in iCloud, you can help them locate missing devices. Open Find iPhone on your device or at iCloud.com. For more information, see [Family Sharing](#).

Leave Family Sharing. Go to Settings > iCloud > Family, then tap Leave Family Sharing. If you are the organizer, go to Settings > iCloud > Family, tap your name, then tap Stop Family Sharing. For more information, see the Apple Support article [Leave Family Sharing](#).

iPhone and other devices

AirPlay Mirroring

Use AirPlay to mirror your iPhone on Apple TV. A blue bar appears at the top of the iPhone screen when AirPlay Mirroring is turned on. If you don't see your AirPlay-enabled devices when you tap , make sure everything is on the same Wi-Fi network.

Display the AirPlay controls. Swipe up from the bottom edge of the screen to open Control Center, then tap .

Stream content. Tap , then choose the device you want to stream to.

Switch back to iPhone. Tap , then choose iPhone.

You can also connect iPhone to a TV, projector, or other external display using the appropriate Apple cable or adapter. For more information, see the Apple Support article [About Apple Digital AV Adapters](#).

AirPrint

Use AirPrint to print wirelessly to an AirPrint-enabled printer from apps such as Mail, Photos, and Safari. Many apps available on the App Store also support AirPrint.

iPhone and the printer must be on the same Wi-Fi network. For more information about AirPrint, see [About AirPrint](#).

Print a document. Tap  or  (depending on the app you're using).

See the status of a print job. Double-click the Home button, then tap Print Center. The badge on the icon shows how many documents are in the queue.

Cancel a job. Select it in Print Center, then tap Cancel Printing.

Apple Watch

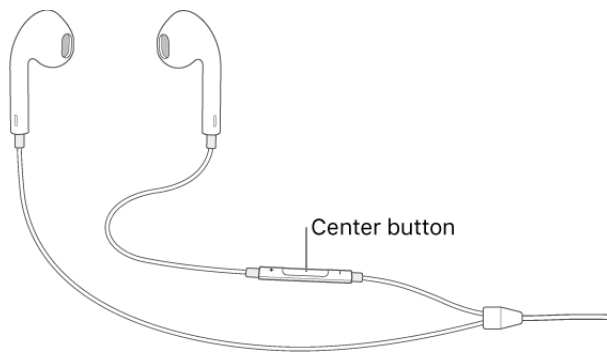
Use the Apple Watch app (not available in all areas) to learn more about Apple Watch, and to pair your Apple Watch with iPhone. Just tap the Apple Watch app, then follow the onscreen instructions.



Use your Apple EarPods

The EarPods that come with your iPhone feature a microphone, volume buttons, and the center button.

Use the center button to answer and end calls, control audio and video playback, and use Siri, even when iPhone is locked.



Control audio

Pause a song or video: Press the center button. Press again to resume playback.

Skip to the next song: Press the center button twice quickly.

Return to the previous song: Press the center button three times quickly. (Works only while audio is playing.)

Fast-forward: Press the center button twice quickly and hold.

Rewind: Press the center button three times quickly and hold.

Manage calls

Answer an incoming call: Press the center button.

End the current call: Press the center button.

Decline an incoming call: Press and hold the center button for about two seconds, then let go. Two low beeps confirm you declined the call.

Switch to an incoming or on-hold call, and put the current call on hold: Press the center button. Press again to switch back to the first call.

Switch to an incoming or on-hold call, and end the current call: Press and hold the center button for about two seconds, then let go. Two low beeps confirm you ended the first call.

Activate Siri

Ask Siri: Press and hold the center button until you hear a beep. Let go, then make your request. See [Make requests](#).

Bluetooth devices

You can use Bluetooth devices such as wireless headphones, speakers, car kits, and more with iPhone. For information about supported Bluetooth profiles, see the Apple Support article [Supported Bluetooth profiles](#).

For information about setting up AirPods, see support.apple.com/airpods.

WARNING: For important information about avoiding hearing loss and avoiding distractions that could lead to dangerous situations, see [Important safety information](#).

Note: The use of certain accessories with iPhone may affect wireless performance. Not all iPod and iPad accessories are fully compatible with iPhone. Turning on Airplane Mode may eliminate audio interference between iPhone and an accessory. Reorienting or relocating iPhone and the connected accessory may improve wireless performance.

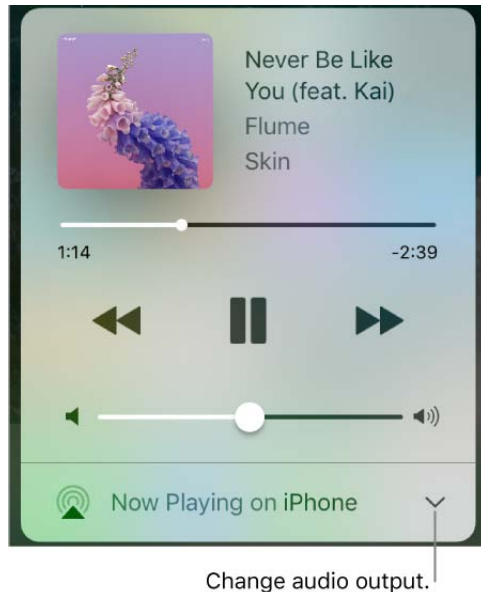
Turn Bluetooth on or off. Go to Settings > Bluetooth. You can also turn Bluetooth  on or off in [Control Center](#).

Pair with a Bluetooth device. Follow the instructions that came with the device to put it in discovery mode. Then go to Settings > Bluetooth, and tap the device in the Devices list to connect.

iPhone must be within about 33 feet (10 meters) of the Bluetooth device.

If you have AirPods, and you set them up with one iOS device or Mac computer, they are automatically set up with your other devices signed in to the same iCloud account (iOS 10, macOS Sierra, watchOS 3 required).

Switch audio between a connected Bluetooth device and iPhone. Open Control Center, swipe left, tap , then choose your audio output. Output returns to iPhone if the Bluetooth device moves out of range.



Bypass your Bluetooth device. To use the iPhone receiver or speaker for phone calls:

Answer a call by tapping the iPhone screen.

During a call, tap Audio, then choose iPhone or Speaker Phone.

Turn off the Bluetooth device, unpair it, or move out of range.

Turn off Bluetooth in Settings > Bluetooth.

Unpair a device. Go to Settings > Bluetooth, tap ⓘ next to the device, then tap Forget this Device. If you don't see the Devices list, make sure Bluetooth is on.

If you have AirPods and you tap "Forget this device", they are automatically removed from other devices that are set up through your iCloud account.

Continuity

Continuity connects iPhone with your iPad, iPod touch, and Mac so they work together. The following are some examples of what you can do with Continuity:

[Use Handoff](#) to start an email or document on iPhone, then pick up where you left off on your iPad.

Copy an image on iPhone, and [use Universal Clipboard](#) to paste it on your iPad.

[Make phone calls](#) and [send SMS and MMS text messages](#) from your other iOS devices or Mac computer.

[Use Instant Hotspot](#) to provide Internet access to your other iOS devices or Mac computer.

[Quickly pay on your iPhone](#) if you shop on your Mac at a site that supports Apple Pay.

For more information about Continuity, see the Apple Support article [Use Continuity to connect your iPhone, iPad, iPod touch, and Mac](#).

For information about which devices support specific Continuity features, see the Apple Support article [System requirements for Continuity](#).

Handoff

Pick up on one device where you left off on another. You can use Handoff with Mail, Safari, Pages, Numbers, Keynote, Maps, Messages, Reminders, Calendar, Contacts, and even some third-party apps. For Handoff to work, you must be signed in to iCloud using the same Apple ID on all your devices, and they must be within Bluetooth range of one another (about 33 feet or 10 meters).

Switch devices. Swipe up from the bottom-left edge of the Lock screen (where you see the app's activity icon), or go to the multitasking screen, then tap the app. On your Mac, open the app you were using on your iOS device.

Disable Handoff on your devices. Go to Settings > General > Handoff & Suggested Apps.

Disable Handoff on your Mac. Go to System Preferences > General, then turn off "Allow Handoff between this Mac and your iCloud devices."

Universal Clipboard

Cut or copy content (a word or an image, for example) on your iPhone, then paste it on another iOS device or Mac computer, and vice versa.

For Universal Clipboard to work, you must be signed in to iCloud using the same Apple ID on all your devices. All your devices must be connected to Wi-Fi, be within Bluetooth range of one another (about 33 feet or 10 meters), have Bluetooth on, and have [Handoff enabled](#). Universal Clipboard requires iOS 10 and macOS Sierra.

You must cut, copy, and paste your content within a short period of time.

Copy or cut. Touch and hold a word or image to display the selection options, then choose Copy or Cut.

Paste. Double-tap to place an insertion point and display the selection options, then choose Paste.

For more information about selecting text or placing the insertion point, see [Type and edit text](#).

Instant Hotspot

You can use Instant Hotspot to provide Internet access to your other iOS devices (iOS 8 or later) and Mac computers (OS X v10.10 or later) where you're signed in to iCloud with the same Apple ID. Instant Hotspot uses your iPhone Personal Hotspot, without you having to enter a password or even turn on Personal Hotspot.

Use Instant Hotspot. Go to Settings > Wi-Fi on your other iOS device, then simply choose your iPhone network under Personal Hotspots. On your Mac, choose your iPhone network from your Wi-Fi settings.

When you're not using the hotspot, your devices disconnect to save battery life. For more information see [Personal Hotspot](#).

Note: This feature may not be available with all carriers. Additional fees may apply. Contact your carrier for more information.

Personal Hotspot

Use Personal Hotspot to share your iPhone Internet connection. Computers can share your Internet connection using Wi-Fi, Bluetooth, or a USB cable. Other iOS devices can share the connection using Wi-Fi. Personal Hotspot works only if iPhone is connected to the Internet over the cellular data network.

Note: This feature may not be available with all carriers. Additional fees may apply. Contact your carrier for more information.

Share an Internet connection. Go to Settings > Cellular, then tap Personal Hotspot—if it appears—to set up the service with your carrier.

After you turn on Personal Hotspot, other devices can connect in the following ways:

Wi-Fi: On the device, choose your iPhone from the list of available Wi-Fi networks.

USB: Connect iPhone to your computer using the cable that came with it. In your computer's Network preferences, choose iPhone and configure the network settings.

Bluetooth: On iPhone, go to Settings > Bluetooth, then turn on Bluetooth. To pair and connect iPhone with your Bluetooth device, refer to the documentation that came with your device.

Note: When a device is connected, a blue band appears at the top of the iPhone screen. The Personal Hotspot icon  appears in the status bar of iOS devices using Personal Hotspot.

Change the Wi-Fi password for iPhone. Go to Settings > Personal Hotspot > Wi-Fi Password, then enter a password of at least eight characters.

Change the name of your Personal Hotspot. You can change the name of your Personal Hotspot by changing the name of your iPhone. Go to Settings > General > About > Name.

Monitor your cellular data network usage. Go to Settings > Cellular. See [Cellular data settings](#).

Use iTunes to transfer files

You can transfer files between iPhone and your computer or other iOS devices with [iCloud Drive](#), [AirDrop](#), [email attachments](#), or by connecting iPhone to your computer and using iTunes.

Transfer files using iTunes. Connect iPhone to your computer using the included cable. In iTunes on your computer, select iPhone, then click Apps. Use the File Sharing section to transfer documents between iPhone and your computer.

Apps that support file sharing appear in the File Sharing Apps list in iTunes. To delete a file, select it in the Documents list on your computer, then press the Delete key. For more information, see the Apple Support article [About File Sharing](#).

CarPlay

About CarPlay

CarPlay puts key iPhone apps on your car's built-in display. With CarPlay and your iPhone, you can get turn-by-turn directions, make phone calls, exchange text messages, listen to music, and more. CarPlay uses the contacts on your iPhone to help you make calls, send texts, and find destinations.

CarPlay is available on select automobiles (go to the [CarPlay available models website](#)) and on select after-market navigation systems. CarPlay works with iPhone 5 and later.

Note: CarPlay is available only in certain areas (go to the [iOS Feature Availability website](#)). Siri must be enabled on your iPhone. Go to Settings > General > Siri.

WARNING: For important information about avoiding distractions that could lead to dangerous situations, see [Important safety information](#).

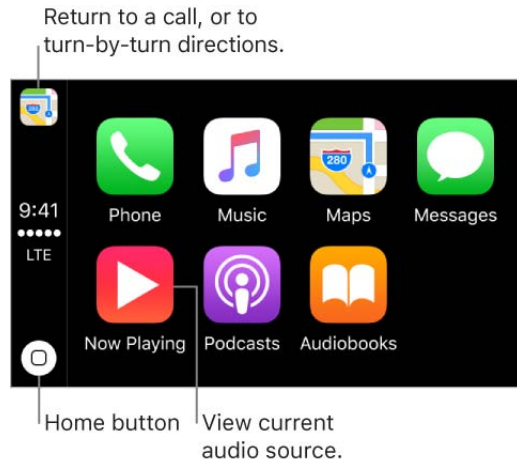
You operate CarPlay using your car's built-in controls—for example, a touchscreen, a rotary knob controller, or a touchpad. To learn how to operate your display, see the owner's guide that came with your car.

Or just use Siri voice control to tell CarPlay what you want. Without looking at or touching iPhone, you can ask Siri to call people, select and play music, hear and compose text messages, get directions, read your notifications, find calendar information, add reminders, and more. (Siri often steps in automatically to help you, depending on the app you're using.)

Get started

If your car supports wireless CarPlay, press and hold the voice control button on your steering wheel to start the CarPlay setup. To connect iPhone to your car's USB port, use an Apple-approved Lightning to USB cable. It may be labeled with the CarPlay logo, the word *CarPlay*, or an image of a smartphone.

Depending on your car, the CarPlay Home screen may appear automatically.



If the CarPlay Home screen doesn't appear, select the CarPlay logo on your car's display.



Connect wirelessly to CarPlay. First, make sure your car supports wireless CarPlay and is in wireless or Bluetooth pairing mode (see the owner's guide). Then on iPhone, go to Settings > General > CarPlay > Available Cars, and choose your car.

Speak to Siri. Press and hold the voice control button on the steering wheel, or touch and hold the Home button on the CarPlay Home screen, until Siri beeps. Then make your request.

Open an app. Tap the app on the touchscreen. Or twist the rotary knob to select the app, then press down on the knob.

Return to the CarPlay Home screen. Tap the Home button on the touchscreen. Or twist the rotary knob to select Home, then press down on the knob.

You can also press the "back" button near the rotary knob—or press and hold the "back" button—until you get back to the Home screen.

Return to your car's Home screen. Tap the icon with your car's logo if it appears on the Home screen, or press the physical Home button on your radio if your car has one.

View additional apps. If you have more than eight apps, some apps may appear on another page of the Home screen. Swipe left on the touchscreen, or twist the rotary knob.

Return to a phone call or to turn-by-turn directions. Tap the icon in the upper-left corner of the touchscreen. Or twist the rotary knob to the icon, then press down on the knob.

Scroll quickly through a list. Tap the letters along the list at the right side of the touchscreen. Or twist the rotary knob.

View and control the current audio source. Select Now Playing to see the current audio app.

Rearrange the icons on the CarPlay Home screen. When you're not operating your car, go to Settings > General > CarPlay on your iPhone, then select your car. Touch and hold any icon, then drag it. To remove an icon, tap it. To add it back, tap it again. (An icon that can be removed appears with a gray circle in its upper-left corner.)

Your icon changes appear on the CarPlay Home screen the next time you connect to CarPlay.

Maps

Use Siri or open Maps to get turn-by-turn directions, traffic conditions, and estimated travel time. CarPlay generates likely destinations using addresses from your email, text messages, contacts, and calendars—as well as places you frequent. You can also search for a location, use locations you bookmarked, and find nearby attractions and services.

You can use other apps even when getting directions. CarPlay lets you know when it's time to make a turn.

Ask Siri. Say something like:

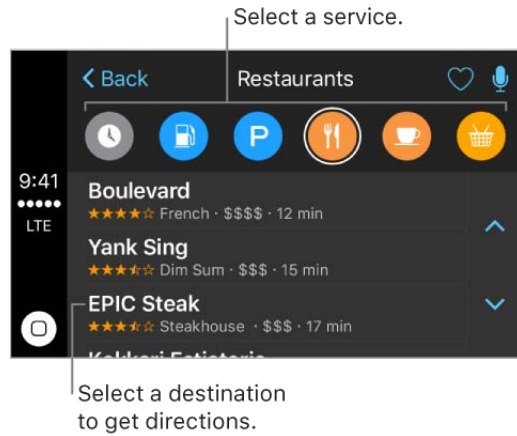
"Take me home"

"Get directions to the nearest coffee shop"

"What's my ETA?"

"Find a gas station"

Display likely destinations. Open Maps, then select Destinations. Select a destination in the list to get directions. To get directions to a nearby service, select a category (such as Gas, Parking, or Coffee), then select a destination. (For availability of nearby suggestions, go to the [Maps: Nearby website](#).)



Make a quick detour. To make a stop while navigating in Maps, select , select one of the suggested services (such as Gas Stations), then select a destination to add it to your route. Or, you can just ask Siri to find you something along the way.

Phone

Use Siri to help you make calls, or open Phone, then select Show Contacts to bring up your favorites, recent calls, voicemail, a list of contacts, or a keypad.

Ask Siri. Say something like:

"Call Emily"

"Return my last call"

"What voicemails have I gotten?"

Messages

Use Siri to help you send, hear, and reply to text messages. Or, open Messages, then select Show Messages to see a list of past conversations. Select a conversation to hear unread messages or respond to a thread. Select  to start a new conversation.

Ask Siri. Say something like:

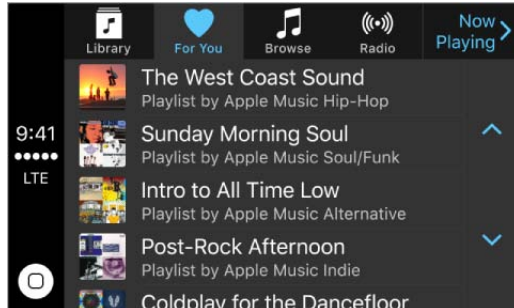
"Text my wife"

"Tell Emily I'm in traffic and I'll be 15 minutes late to the meeting"

"Read my text messages"

Music

Use Siri or open Music to access your Apple Music membership, For You, New, and the music on your iPhone—including songs, artists, albums, and playlists. Or tune in to Radio.



Ask Siri. Say something like:

“Play,” followed by the name of the artist, album, song, playlist, or station that you want to play. If Siri doesn’t find what you asked for, be more specific. For example, say “play the radio station ‘Pure Pop’” rather than saying “play ‘Pure Pop.’”

“Let’s hear the Acoustic playlist”

“Play more songs like this one”

“Skip this song”

“Create a radio station based on this song”

On some systems, Music displays only a partial list of choices while you’re driving. To choose among options not in the list, use Siri by selecting More at the bottom of the list, or by pressing and holding the voice control button on your steering wheel.

To control playback, use Siri, the Now Playing screen, or the controls on your car’s steering wheel.

Podcasts

Use Siri or open Podcasts to find a podcast on your iPhone and play it with CarPlay.

Ask Siri. Say something like:

“Play the Freakonomics Radio podcast”

“Skip ahead 45 seconds”

Other apps

CarPlay works with select third-party audio apps that you download to your iPhone, as well as apps made by your car maker. Compatible apps show up automatically on the CarPlay Home screen.

You can also use Siri with CarPlay to access many of the apps on iPhone, including Calendar, Reminders, Clock, and more.

Ask Siri. Say something like:

"What's my next meeting?"

"Remind me to pack an umbrella when I get home"

"Add milk to my grocery list"

"Set my alarm for 6:00 AM tomorrow"

Privacy and security

Privacy

Location Services

Location Services lets location-based apps such as Reminders, Maps, Camera, and Wallet gather and use data indicating your location. Your approximate location is determined using available information from cellular network data, local Wi-Fi networks (if you have Wi-Fi turned on), and GPS (may not be available in all areas). The location data collected by Apple isn't collected in a form that personally identifies you. When an app is using Location Services,  appears in the status bar.

Privacy settings let you see and control which apps and system services have access to Location Services, and to Contacts, Calendars, Reminders, and Photos.

Turn Location Services on or off. Go to Settings > Privacy > Location Services. You can turn it off for some or for all apps and services. If you turn off Location Services, you're asked to turn it on again the next time an app or service tries to use it.

Turn Location Services off for system services. Several system services, such as compass calibration and location-based ads, use Location Services. To see their status, turn them on or off, or show  in the status bar when these services use your location, go to Settings > Privacy > Location Services > System Services.

Turn off access to private information. Go to Settings > Privacy. You can see which apps and features have requested, and you have granted, access to private information. You can turn off each app's access to each of these categories of information:

Contacts

Calendars

Reminders

Photos

Bluetooth Sharing

Microphone

Camera

Health

HomeKit

Media Library

Motion & Fitness

Twitter

Facebook

Review the terms and privacy policy for each third-party app to understand how it uses the data it's requesting. For more information, see the Apple Support article [About privacy and Location Services](#).

Advertising

Turn off location-based ads and offers. Go to Settings > Privacy > Location Services > System Services, then turn off Location-Based iAds.

Reset or limit Ad Tracking. Go to Settings > Privacy > Advertising (at the bottom of the screen). To clear the data used to determine which ads might be relevant to you, tap Reset Advertising Identifier. To opt out of targeted advertising, turn on Limit Ad Tracking.

Note: If you turn on Limit Ad Tracking, you may still receive the same number of ads, but they may be less relevant to you.

View the information Apple uses to deliver targeted ads. Go to Settings > Privacy > Advertising > View Ad information. The information is used by Apple to deliver more relevant ads in Apple News, the App Store, and Wallet. Your personal data is not provided to other parties.

For more information, go to Settings > Privacy > Advertising > About Advertising & Privacy.

Security

Use a passcode with data protection

For better security, you can set a passcode that must be entered each time you turn on or wake up iPhone.

Set, change, or turn off the passcode. Go to Settings > Touch ID & Passcode (iPhone 5s and later) or Settings > Passcode (other models).

To adjust when iPhone automatically locks (and then requires the passcode to unlock), go to Settings > Display & Brightness > Auto-Lock.

Setting a passcode turns on data protection, using your passcode as a key to encrypt Mail messages and attachments stored on iPhone, using 256-bit AES encryption. (Other apps may also use data protection.)

Add fingerprints and set options for the Touch ID sensor. (iPhone models with Touch ID) Go to Settings > Touch ID & Passcode. See [Touch ID](#).

Allow access to features when iPhone is locked. Go to Settings > Touch ID & Passcode (iPhone models with Touch ID) or Settings > Passcode (other models). Optional features include:

Today (see [Notifications](#))

Notifications View (see [Notifications](#))

Reply with Message (see [Messages at a glance](#))

Siri (if enabled; see [Make requests](#))

Wallet (see [Wallet at a glance](#))

Allow access to Control Center when iPhone is locked. Go to Settings > Control Center. See [Control Center](#).

Erase data after ten failed passcode attempts. Go to Settings > Touch ID & Passcode (iPhone models with Touch ID) or Settings > Passcode (other models), then tap Erase Data. After ten failed passcode attempts, all settings are reset, all your information and media are erased, and you must [restore your device from a backup](#) or [set it up again as new](#).

Use two-factor authentication for security

Two-factor authentication is an extra layer of security for your Apple ID designed to ensure that all the photos, documents, and other important data you store with Apple can be accessed only by you, and only with your devices. It's built into iOS 9 and later, and OS X v10.11 and later.

If your account meets all the requirements for two-factor authentication, you are prompted to turn it on when you set up iPhone with iOS 10. If you are signed in to iCloud, you can also turn it on by going to Settings > iCloud. Tap your account at the top of the screen, then tap Password & Security. For more information, see the Apple Support article [Availability of two-factor authentication](#).

Important: If you're using two-step verification, you must turn it off before you can turn on two-factor authentication. Sign in to your [Apple ID account page](#). In the Security section, tap Edit, then tap Turn Off Two-Step Verification.

Once enrolled, when you enter your Apple ID and password for the first time on a new device, you're asked to verify your identity with a six-digit verification code. This code is displayed automatically on your other devices or sent to a phone number you trust. Just enter the code to sign in and access your information on your new device.

You won't be asked for a verification code again on that device unless you sign out completely, erase your device, or need to change your password for security reasons.

For more help with two-factor authentication, see the Apple Support article [Two-factor authentication for Apple ID](#).

Use two-step verification for security

If two-factor authentication isn't available for your Apple ID, two-step verification is an optional way to increase the security of the Apple ID you use to sign in to iCloud. It requires you to verify your identity using one of your devices or your Recovery Key in addition to entering your password. For more information, see the Apple Support article [Frequently asked questions about two-step verification for Apple ID](#).

Touch ID

On iPhone 5s and later, you can unlock iPhone by placing a finger on the Home button. Touch ID also lets you:

- Use your Apple ID password to make purchases in the iTunes Store, App Store, or iBooks Store.

Authorize credit or debit card payments using Apple Pay.

Provide debit and credit card info, billing and shipping addresses, and contact info when paying in an app that offers Apple Pay as a method of payment.

Set up the Touch ID sensor. Go to Settings > Touch ID & Passcode. Set whether you want to use a fingerprint to unlock iPhone, and to make purchases. Tap Add a Fingerprint, then follow the onscreen instructions. You can add multiple fingerprints (both of your thumbs and forefingers, for example, and one for your spouse).

Note: If you turn iPhone off after setting up the Touch ID sensor, you're asked to confirm your passcode when you turn iPhone back on and unlock it the first time. You're also asked for your Apple ID password for the first purchase you make in the iTunes Store, App Store, or iBooks Store.

Delete a fingerprint. Tap the fingerprint, then tap Delete Fingerprint. If you have more than one fingerprint, place a finger on the Home button to find out which fingerprint it is.

Name a fingerprint. Tap the fingerprint, then enter a name, such as "Thumb."

Use the Touch ID sensor to make a payment in the iTunes Store, App Store, or iBooks Store. When purchasing from the iTunes Store, App Store, or iBooks Store, follow the instructions to enable purchases with your fingerprint. Or go to Settings > Touch ID & Passcode, then turn on iTunes & App Store.

Use Touch ID for Apple Pay. Go to Settings > Touch ID & Passcode to ensure that Apple Pay is enabled with your Touch ID. For more information about Apple Pay, go to the [Apple Pay website](#).

iCloud Keychain

iCloud Keychain keeps your Safari website user names and passwords, credit card information, and Wi-Fi network information up to date across all of your approved devices (iOS 7 or later) and Mac computers (OS X v10.9 or later). iCloud Keychain is secured with 256-bit AES encryption during storage and transmission, and cannot be read by Apple.

iCloud Keychain works with Safari Password Generator and AutoFill. When you're setting up a new account, Safari Password Generator suggests unique, hard-to-guess passwords. You can [use AutoFill](#) to have iPhone enter your user name, password, and credit card info automatically. To protect your personal information, [set a passcode](#) if you turn on iCloud Keychain and AutoFill.

Note: Some websites do not support AutoFill.

iCloud Keychain can also keep the accounts you use in Mail, Contacts, Calendar, and Messages up to date across all of your iOS devices and Mac computers.

To learn more about iCloud Keychain, see the Apple Support article [Frequently asked questions](#).

Set up iCloud Keychain. Go to Settings > iCloud > Keychain. Turn on iCloud Keychain, then follow the onscreen instructions.

When you set up iCloud Keychain, you create an iCloud Security Code. You can use your iCloud Security Code to authorize additional devices to use your iCloud Keychain. It's also used to verify your identity so that you can perform other iCloud Keychain actions, such as recovering your iCloud Keychain if you lose all your devices.

Set up iCloud Keychain on additional devices. Set up iCloud Keychain for each device that you want to add. When you turn on iCloud Keychain on an additional device, your other devices that use iCloud Keychain receive a notification requesting approval for the additional device. After you approve the additional device, your iCloud Keychain automatically begins updating on that device.

To approve iCloud Keychain on an additional device when you don't have access to your other devices, follow the onscreen instructions to use your iCloud Security Code.

Forgot your iCloud Security Code? If you enter the wrong iCloud Security Code too many times when using iCloud Keychain, your iCloud Keychain is disabled on that device, and your keychain in iCloud is deleted. To reset or create a new iCloud Security Code, see the Apple Support article [If you enter your iCloud Security Code incorrectly too many times](#).

Find My iPhone

If you misplace your iPhone, Find My iPhone can help you locate it and protect your data. Use the Find My iPhone app on another iPhone, iPad, or iPod touch—or use the [Find My iPhone web app](#) on any Mac or PC—to locate your iPhone on a map, lock it remotely, play a sound, display a message, or erase all its data.

Note: For more information about Find My iPhone, please refer to the Help in the app.

Turn Find My iPhone on or off. Go to Settings > iCloud > Find My iPhone. (See [iCloud](#) if you need help setting up iCloud.)

Important: To use these features, Find My iPhone must be turned on *before* your iPhone is lost. iPhone must be able to connect to the Internet for you to locate and secure the device. iPhone sends its last location prior to the battery running out when Send Last Location is turned on in Settings > iCloud > Find My iPhone.

Use Find My iPhone. Open Find My iPhone on an iOS device, or go to the [Find My iPhone web app](#) on your computer. Sign in, then select the device you want to locate.

Play Sound: Play a sound at full volume for two minutes, even if the ringer is set to silent.

Lost Mode: Immediately lock your missing iPhone with a passcode and display a custom message on the screen with a contact number. Find My iPhone tracks and reports the location of your iPhone, so you can see where it's been.

When iPhone is in Lost Mode on devices that support Apple Pay, Find My iPhone attempts to suspend the ability to pay with credit and debit cards used for Apple Pay. See [About Apple Pay](#).

Erase iPhone: Protect your privacy by erasing all the information and media on your iPhone and restoring it to its original factory settings. Activation Lock prevents anyone else from activating and using your iPhone, even after you erase it with Find My iPhone. On devices that support Apple Pay, erasing iPhone also removes the ability to pay with credit and debit cards used for Apple Pay.

Note: Before you sell or give away your iPhone, you should erase it and turn off Find My iPhone. The next owner can then activate and use the device normally. See the Apple Support article [Sell or give away iPhone](#).

Restart, update, reset, and restore

Restart an app or iPhone

If something isn't working right, try restarting the problem app or iPhone.

Restart an app. If an app isn't working properly, you can force it to quit, then try to reopen it. (Typically, there is no reason to quit an app; quitting it doesn't save battery power, for example.) Double-click the [Home button](#), then drag the app up from the app switcher display to quit the app. Opening it again may resolve the problem.

Restart iPhone. Hold down the [Sleep/Wake button](#) until the slider appears. Slide your finger across the slider to turn off iPhone. To turn iPhone back on, hold down the Sleep/Wake button until the Apple logo appears.

Force restart iPhone. If iPhone isn't responding, hold down these buttons at the same time for at least ten seconds, until the Apple logo appears:

The Sleep/Wake button and the [Volume down button](#) (iPhone 7 and iPhone 7 Plus)

The Sleep/Wake button and the Home button (all other models)

If iPhone still doesn't respond or turn on, see the Apple Support article [If your device doesn't respond or won't turn on](#).

Update iOS software

You can update the iOS software in Settings or by using iTunes. Your data and settings remain unchanged.

Update wirelessly on iPhone. Go to Settings > General > Software Update. iPhone checks for available software updates.

Update software using iTunes. iTunes checks for available software updates each time you [sync your device using iTunes](#).

For more information, see the Apple Support articles [Update the iOS software](#) and [If you can't update or restore your device](#).

Reset iPhone settings

Without erasing your content, you can return iPhone settings to their defaults. If you want to save your settings, [back them up in iCloud](#) or [back them up using iTunes](#) before resetting them.

Return settings to their defaults. Go to Settings > General > Reset, then choose an option:

WARNING: If you choose the Erase All Content and Settings option, all of your content is removed. See [Erase iPhone](#).

Reset All Settings: All settings are reset.

Reset Network Settings: Only network settings are removed.

When you reset network settings, previously used networks and VPN settings that weren't installed by a configuration profile are removed. (To remove VPN settings installed by a configuration profile, go to Settings > General > Profile, select the profile, then tap Remove. This also removes other settings and accounts provided by the profile.) Wi-Fi is turned off and then back on, disconnecting you from any network you're on. The Wi-Fi and Ask to Join Networks settings remain turned on.

Reset Keyboard Dictionary: You add words to the keyboard dictionary by rejecting words iPhone suggests as you type. Resetting the keyboard dictionary erases only the words you've added.

Reset Home Screen Layout: Returns the built-in apps to their original layout on the Home screen.

Reset Location & Privacy: Resets the location services and privacy settings to their defaults.

Restore iPhone

Before restoring iPhone, you must create a backup of your content and settings. See [Back up iPhone with iCloud Backup](#) and [Back up iPhone with iTunes](#). (To reset iPhone without restoring from a backup, see [Erase iPhone](#).)

Erase then restore iPhone from a backup. Go to Settings > General > Reset, then tap Erase All Content and Settings. After iPhone restarts, [follow the setup assistant](#) to restore iPhone from an iCloud or iTunes backup.

Restore iPhone from an iTunes backup. [Connect your device to the computer](#) you normally sync with, then in iTunes choose File > Devices > Restore from Backup.

For more information, see the Apple Support articles [Restore your device from an iCloud or iTunes backup](#) and [If you can't update or restore your device](#).

Restore purchased items

You can download items purchased from the App Store, iTunes Store, and iBooks Store again, free of charge. If you see  next to an item, you've already purchased it, and you can download it again.

Restore an app. See [Purchase, redeem, and download](#).

Restore an item from the iTunes Store. See [Purchase, rent, or redeem](#).

Restore a book from the iBooks Store. See [Organize books](#).

Restore an audiobook from the iBooks Store. You can download an audiobook again, free of charge, from the Purchased list in the iBooks Store. See [Listen to an audiobook](#).

Erase iPhone

When you delete data, it's no longer accessible through the iPhone interface, but it isn't erased from iPhone. To remove all of your content and settings, such as when you sell or give away iPhone, erase iPhone. If you want to save your content and settings, [back them up to iCloud](#) or [back them up using iTunes](#) before erasing iPhone.

Erase iPhone (from Settings). Go to Settings > General > Reset, then tap Erase All Content and Settings. After iPhone restarts, [follow the setup assistant](#) to set up iPhone again as new. (From the setup assistant, you can also choose to restore iPhone from an iCloud or iTunes backup.)

Erase iPhone using iTunes. [Connect your device to a Mac or PC](#), open iTunes on the computer, select iPhone in the iTunes window, then click Restore iPhone in the Summary pane. All of the content and settings on iPhone are erased, and the latest iOS software is installed. After iPhone restarts, [follow the setup assistant](#) to set up iPhone as new. (From the setup assistant, you can also choose to restore iPhone from an iCloud or iTunes backup.)

Accessibility

Accessibility features

iPhone offers many accessibility features:

Vision

[VoiceOver](#)

[Support for braille displays](#)

[Zoom](#)

[Magnifier](#)

[Set display accommodations](#)

[Speak Selection](#)

[Speak Screen](#)

[Typing feedback](#)

[Large, bold, and high-contrast text](#)

[Button Shapes](#)

[Reduce screen motion](#)

[On/off switch labels](#)

[Assignable ringtones and vibrations](#)

[Audio Descriptions](#)

Hearing

- [Hearing devices](#)
- [Support for TTY](#)
- [Call audio routing](#)
- [Phone noise cancelation](#)
- [LED Flash for Alerts](#)
- [Mono audio and balance](#)
- [Subtitles and closed captions](#)

Interaction

- [Siri](#)
- [3D Touch](#)
- [Reachability](#)
- [Widescreen keyboards](#)
- [Guided Access](#)
- [Switch Control overview](#)
- [AssistiveTouch](#)
- [Touch Accommodations](#)
- [Software and hardware keyboards](#)

Turn on accessibility features. You can turn on many accessibility features just by asking Siri ("turn on VoiceOver," for example). See [Siri](#) and [Make requests](#). Or go to Settings > General > Accessibility, or [use Accessibility Shortcut](#).

Use iTunes on your computer to configure accessibility on iPhone. In iTunes you can enable a limited number of accessibility features, including VoiceOver, Switch Control, Guided Access, zoom, invert colors, speak auto-text, mono audio, and show closed captions where available. Click Summary, then click Configure Accessibility at the bottom of the Summary screen.

For more information about iPhone accessibility features, go to the [Apple Accessibility website](#).

Accessibility Shortcut

Accessibility Shortcut lets you quickly turn accessibility features on and off by triple-clicking the Home button.

Set up Accessibility Shortcut. Go to Settings > General > Accessibility > Accessibility Shortcut, then select the features you use the most:

VoiceOver

Invert Colors

Color Filters

Reduce White Point

Zoom

Switch Control

AssistiveTouch

Magnifier (available after you [set up Magnifier](#))

Touch Accommodations (available after you [set up Touch Accommodations](#))

Guided Access (available after you [set up Guided Access](#))

Hearing Devices (available after you [pair Made for iPhone hearing aids](#))

Use Accessibility Shortcut. Triple-click the Home button.

Slow down the double-click or triple-click speed for the Home button. Go to Settings > General > Accessibility > Home Button.

VoiceOver

VoiceOver

VoiceOver describes aloud what appears onscreen, so that you can use iPhone even if you are blind or have difficulty seeing the screen.

VoiceOver tells you about each item you select. The VoiceOver cursor (a black outline) encloses the item and VoiceOver speaks its name or describes it.

Touch the screen or drag your finger over it to hear the items on the screen, including icons and text. To interact with items, such as buttons and links, [use VoiceOver gestures](#).

When you go to a new screen, VoiceOver plays a sound, then selects and speaks the first item on the screen (typically in the upper-left corner). It lets you know when the display changes to landscape or portrait orientation, when the screen becomes dimmed or locked, and is active on the Lock screen when you wake iPhone.

Note: VoiceOver is available in many languages. Go to Settings > General > Language & Region to choose a language.

Use iPhone with VoiceOver

Turn VoiceOver on or off. Press and hold the Home button and tell Siri “turn VoiceOver on.” To turn VoiceOver off, tell Siri “turn VoiceOver off.” You can also go to Settings > General > Accessibility > VoiceOver, or [use Accessibility Shortcut](#).

Unlock iPhone. Press either the Sleep/Wake or Home button, then double-tap the screen.

Enter your passcode silently. To avoid having your passcode spoken as you enter it, [enable handwriting mode](#) or [type onscreen braille](#).

Unlock iPhone with Touch ID. You can unlock iPhone by pressing your finger on the Home button if you [set up Touch ID](#) (iPhone 5s and later). To use Touch ID by resting your finger on the Home button, go to Settings > General > Accessibility > Home Button, then turn on Rest Finger to Open.

Open an app, toggle a switch, or tap an item. Tap the item, then double-tap the screen.

Double-tap the selected item. To invoke a command normally executed by tapping twice on the screen—selecting a word or zooming an image, for example—tap three times.

Adjust a slider. Tap the slider, then swipe up or down with one finger.

Use a standard gesture. Double-tap and hold your finger on the screen until you hear three rising tones, then make the gesture. When you lift your finger, VoiceOver gestures resume. For example, to drag a volume slider with your finger instead of swiping up and down, select the slider, double-tap and hold, wait for the three tones, then slide left or right.

Scroll a list or area of the screen. Swipe up or down with three fingers.

Use the list index: Some lists have an alphabetical table index along the right side. Select the index, then swipe up or down to move through the index. You can also double-tap, hold, then slide your finger up or down.

Reorder a list: You can change the order of items in some lists, such as the Rotor items in Accessibility settings. Tap  to the right of an item, double-tap and hold until you hear three rising tones, then drag up or down.

Open Notification Center. Tap any item in the status bar, then swipe down with three fingers. Or, touch and hold the top of the screen until you hear a sound, then swipe down. To dismiss Notification Center, do a two-finger scrub (move two fingers back and forth three times quickly, making a “z”) or press the Home button.

Open Control Center. Tap any item in the status bar, then swipe up with three fingers. Or, touch and hold the bottom of the screen until you hear a sound, then swipe up. To dismiss Control Center, do a two-finger scrub or press the Home button.

Switch apps. Double-click the Home button to display open apps, swipe left or right with one finger to select an app, then double-tap to switch to it. Or, set the rotor to Actions while viewing open apps, then swipe up or down to cycle through the apps.

Rearrange apps on your Home screen. Use one of the following methods:

Drag and drop: Tap an icon on the Home screen, then double-tap and hold your finger on the screen until you hear three rising tones. The item’s relative location is described as you drag. Lift your finger when the icon is in its new location. Drag an icon to the edge of the screen to move it to another Home screen. You can continue to select and move items until you press the Home button.

Move actions: Tap an app and swipe down to hear available actions. When you hear "Arrange Apps," double-tap to start arranging apps. Find the app you wish to move, then swipe down to the "Move" action and double-tap. Move the VoiceOver to the new destination for this app, and choose from the available actions: Cancel Move, Create New Folder, Add to Folder, Move Before, or Move After. You can continue to select and move items until you press the Home button.

Speak iPhone status information. Tap the status bar at the top of the screen, then swipe left or right to hear information about the time, battery state, Wi-Fi signal strength, and more.

Speak notifications. Go to Settings > General > Accessibility > VoiceOver, then turn on Always Speak Notifications. Notifications, including the text of incoming text messages, are spoken as they occur, even if iPhone is locked. Unacknowledged notifications are repeated when you unlock iPhone.

Turn the screen curtain on or off. Triple-tap with three fingers. When the screen curtain is on, the screen contents are active even though the display is turned off.

Set audio routing options. Go to Settings > General > Accessibility > VoiceOver > Audio. Device-specific options are shown if you connect additional devices, such as a instrument amplifier or a DJ mixer.

Learn VoiceOver gestures

Important: VoiceOver changes the gestures you use to control iPhone. When VoiceOver is on, you must use VoiceOver gestures to operate iPhone—even to turn VoiceOver off.

When VoiceOver is on, standard touchscreen gestures have different effects, and additional gestures let you move around the screen and control individual items. VoiceOver gestures include two-, three-, and four-finger taps and swipes. For best results using multifinger gestures, let your fingers touch the screen with some space between them.

You can use different techniques to perform VoiceOver gestures. For example, you can perform a two-finger tap using two fingers on one hand, or one finger on each hand. You can even use your thumbs. Some people use a split-tap gesture: instead of selecting an item and double-tapping, touch and hold an item with one finger, then tap the screen with another finger.

3D Touch. You can also use 3D Touch to perform gestures. See [3D Touch](#).

Try different techniques to discover which works best for you. If a gesture doesn't work, try a quicker movement, especially for a double-tap or swipe gesture. To swipe, try brushing the screen quickly with your finger or fingers.

In VoiceOver settings, you can enter a special area where you can practice VoiceOver gestures without affecting iPhone or its settings.

Practice VoiceOver gestures. Go to Settings > General > Accessibility > VoiceOver, then tap VoiceOver Practice. When you finish practicing, tap Done. If you don't see the VoiceOver Practice button, make sure VoiceOver is turned on.

Here are some key VoiceOver gestures:

Navigate and read

Tap: Select and speak the item.

Swipe right or left: Select the next or previous item.

Swipe up or down: Depends on the rotor setting. See [Use the VoiceOver rotor](#).

Two-finger swipe up: Read all from the top of the screen.

Two-finger swipe down: Read all from the current position.

Two-finger tap: Stop or resume speaking.

Two-finger scrub: Move two fingers back and forth three times quickly (making a "z") to dismiss an alert or go back to the previous screen.

Three-finger swipe up or down: Scroll one page at a time.

Three-finger swipe right or left: Go to the next or previous page (on the Home screen, for example).

Three-finger tap: Speak additional information, such as position within a list or whether text is selected.

Four-finger tap at top of screen: Select the first item on the page.

Four-finger tap at bottom of screen: Select the last item on the page.

Activate

Double-tap: Activate the selected item.

Triple-tap: Double-tap an item.

Split-tap: As an alternative to selecting an item and double-tapping to activate it, touch an item with one finger, then tap the screen with another.

Double-tap and hold (1 second) + standard gesture: Use a standard gesture. The double-tap and hold gesture tells iPhone to interpret the next gesture as standard. For example, you can double-tap and hold your finger on the screen until you hear three rising tones, and then without lifting your finger, drag your finger on a slider.

Two-finger double-tap: This gesture initiates an action or halts or pauses an action in progress. For example, you can:

Answer or end a call.

Play or pause in Music, Videos, Voice Memos, or Photos (slideshows).

Take a photo in Camera.

Start or pause recording in Camera or Voice Memos.

Start or stop the stopwatch.

Two-finger double-tap and hold: Change an item's label to make it easier to find.

Two-finger triple-tap: Open the Item Chooser.

Three-finger double-tap: Mute or unmute VoiceOver. If both VoiceOver and Zoom are enabled, use the three-finger triple-tap gesture.

Three-finger triple-tap: Turn the screen curtain on or off. If both VoiceOver and Zoom are enabled, use the three-finger quadruple-tap gesture.

Use the VoiceOver rotor

Use the rotor to choose what happens when you swipe up or down with VoiceOver turned on, or to select special input methods such as Braille Screen Input or Handwriting.

Operate the rotor. Rotate two fingers on the screen around a point between them. If you prefer to use one finger on each hand, simultaneously flick up with one finger and flick down with the other.



Choose your rotor options. Go to Settings > General > Accessibility > VoiceOver > Rotor, then select the options you want to include in the rotor.

The available rotor options and their effects depend on what you're doing. For example, if you're reading an email, you can use the rotor to switch between hearing text spoken word-by-word or character-by-character when you swipe up or down. If you're browsing a webpage, you can set the rotor to speak all the text (either word-by-word or character-by-character), or to jump from one item to another of a certain type, such as headings or links.

When you [use an Apple Wireless Keyboard to control VoiceOver](#), the rotor lets you adjust settings such as volume, speech rate, use of pitch or phonetics, typing echo, and reading of punctuation.

VoiceOver basics

Explore. Drag your finger over the screen. VoiceOver speaks each item you touch. Lift your finger to leave an item selected.

Select an item: Tap once to select an item, double-tap to invoke it.

Select the next or previous item: Swipe right or left with one finger. Item order is left-to-right, top-to-bottom.

Select the first or last item on the screen: Tap with four fingers at the top or bottom of the screen.

Select an item by name: Triple-tap with two fingers anywhere on the screen to open the Item Chooser. Then type a name in the search field, or swipe right or left to move through the list alphabetically, or tap the table index to the right of the list and swipe up or down to move quickly through the list of items. You can also use handwriting to select an item by writing its name; see [Write with your finger](#). To dismiss the Item Chooser without making a selection, double-tap.

Change an item's name so it's easier to find: Select the item, then double-tap and hold with two fingers anywhere on the screen.

Speak the text of the selected item: Set the rotor to characters or words, then swipe down or up with one finger. See [Use the VoiceOver rotor](#).

Hear additional detail about using a button or feature: Go to Settings > General > Accessibility > VoiceOver, then turn Speak Hints on or off.

Use phonetic spelling: Go to Settings > General > Accessibility > VoiceOver > Phonetic Feedback.

Speak the entire screen, from the top: Swipe up with two fingers.

Speak from the current item to the bottom of the screen: Swipe down with two fingers.

Pause speaking: Tap once with two fingers. Tap again with two fingers to resume, or select another item.

Mute VoiceOver: Double-tap with three fingers; repeat to unmute. If both VoiceOver and Zoom are enabled, triple-tap with three-fingers. If you're using an external keyboard, press the Control key.

Silence sound effects: Go to Settings > General > Accessibility > VoiceOver, then turn off Use Sound Effects.

Use a larger VoiceOver cursor. Go to Settings > General > Accessibility > VoiceOver, then turn on Large Cursor.

Adjust the speaking voice. You can adjust the VoiceOver speaking voice:

Change the volume: Use the volume buttons on iPhone. You can also add volume to the rotor, then swipe up and down to adjust; see [Use the VoiceOver rotor](#).

Change the speech rate: Go to Settings > General > Accessibility > VoiceOver, then drag the Speaking Rate slider. You can also set the rotor to Speech Rate, then swipe up or down to adjust.

Use pitch change: VoiceOver uses a higher pitch when speaking the first item of a group (such as a list or table) and a lower pitch when speaking the last item of a group. Go to Settings > General > Accessibility > VoiceOver.

Speak punctuation: Set the rotor to Punctuation, then swipe up or down to select how much you want to hear.

Control audio ducking: To choose whether audio that's playing is turned down while VoiceOver speaks, set the rotor to Audio Ducking, then swipe up or down.

Change the language for iPhone: Go to Settings > General > Language & Region. VoiceOver pronunciation of some languages is affected by the Region Format you choose there.

Change pronunciation: Set the rotor to Language, then swipe up or down. Language is available in the rotor only if you select more than one pronunciation in Settings > General > Accessibility > VoiceOver > Speech > Rotor Languages.

Choose which dialects are available in the rotor: Go to Settings > General > Accessibility > VoiceOver > Speech > Rotor Languages. To adjust voice quality or speaking rate, tap a language. To remove languages from the rotor or change their order, tap Edit, tap the Delete button or drag  up or down, then tap Done.

Set the default voice for the current iPhone language: Go to Settings > General > Accessibility > VoiceOver > Speech > Voice.

Download an enhanced quality reading voice: Go to Settings > General > Accessibility > VoiceOver > Speech, tap a language, then choose an enhanced voice. If you're using English, you can choose to download Alex (869 MB), the same high-quality U.S. English voice used for VoiceOver on Mac computers.

Specify the pronunciation of certain words: Go to Settings > General > Accessibility > VoiceOver > Speech > Pronunciations. Tap , enter a phrase, then dictate or spell out how you want the phrase to be pronounced.

Use the onscreen keyboard

When you activate an editable text field, the onscreen keyboard appears (unless you have an Apple Wireless Keyboard attached).

Activate a text field. Select the text field, then double-tap. The insertion point and the onscreen keyboard appear.

Choose a typing style. Go to Settings > General > Accessibility > VoiceOver > Typing Style. Or, set the rotor to Typing Mode, then swipe up or down.

Enter text. Type characters using the onscreen keyboard:

Standard typing: Select a key on the keyboard by swiping left or right, then double-tap to enter the character. Or move your finger around the keyboard to select a key and, while continuing to touch the key with one finger, tap the screen with another finger. VoiceOver speaks the key when it's selected, and again when the character is entered.

Touch typing: Touch a key on the keyboard to select it, then lift your finger to enter the character. If you touch the wrong key, slide your finger to the key you want. VoiceOver speaks the character for each key as you touch it, but doesn't enter a character until you lift your finger.

Direct Touch typing: VoiceOver is disabled for the keyboard only, so you can type just as you do when VoiceOver is off.

Move the insertion point. Swipe up or down to move the insertion point forward or backward in the text. Use the rotor to choose whether you want to move the insertion point by character, by word, or by line. To jump to the beginning or end, double-tap the text.

VoiceOver makes a sound when the insertion point moves, and speaks the character, word, or line that the insertion point moves across. When moving forward by words, the insertion point is placed at the end of each word, before the space or punctuation that follows. When moving backward, the insertion point is placed at the end of the preceding word, before the space or punctuation that follows it.

Move the insertion point past the punctuation at the end of a word or sentence. Use the rotor to switch back to character mode.

When moving the insertion point by line, VoiceOver speaks each line as you move across it. When moving forward, the insertion point is placed at the beginning of the next line (except when you reach the last line of a paragraph, when the insertion point is moved to the end of the line just spoken). When moving backward, the insertion point is placed at the beginning of the line that's spoken.

Change typing feedback. By default, VoiceOver speaks characters as well as words when you type. To hear no feedback, hear characters only, or hear words only, go to Settings > General > Accessibility > VoiceOver > Typing Feedback, then choose an option.

Use phonetics in typing feedback. Go to Settings > General > Accessibility > VoiceOver > Phonetic Feedback. Text is read character by character. VoiceOver first speaks the character, then its phonetic equivalent—for example, "f" and then "foxtrot."

Delete a character. Use  with any of the VoiceOver typing styles. VoiceOver speaks each character as it's deleted. If Use Pitch Change is turned on, VoiceOver speaks deleted characters in a lower pitch.

Select text. Set the rotor to Edit, swipe up or down to choose Select or Select All, then double-tap. If you choose Select, the word closest to the insertion point is selected when you double-tap. To increase or decrease the selection, do a two-finger scrub to dismiss the pop-up menu, then pinch.

Cut, copy, or paste. Set the rotor to Edit, select the text, swipe up or down to choose Cut, Copy, or Paste, then double-tap.

Undo. Shake iPhone, swipe left or right to choose the action to undo, then double-tap.

Enter an accented character. In standard typing style, select the plain character, then double-tap and hold until you hear a sound indicating alternate characters have appeared. Drag left or right to select and hear the choices. Release your finger to enter the current selection. In touch typing style, touch and hold a character until the alternate characters appear.

Change the keyboard language. Set the rotor to Language, then swipe up or down. Choose "default language" to use the language specified in Language & Region settings. The Language rotor item appears only if you select more than one language in Settings > General > Accessibility > VoiceOver > Speech.

Write with your finger

Handwriting mode lets you enter text by writing characters on the screen with your finger. In addition to normal text entry, use handwriting mode to enter your iPhone passcode silently or open apps from the Home screen.

Enter handwriting mode. Use the rotor to select Handwriting. If Handwriting isn't in the rotor, go to Settings > General > Accessibility > VoiceOver > Rotor, then add it.

Choose a character type. Swipe up or down with three fingers to choose lowercase, numbers, uppercase, or punctuation.

Hear the selected character type. Tap with three fingers.

Enter a character. Trace the character on the screen with your finger.

Enter an alternate character. To use an alternate character (a character with an accent or umlaut, for example), write the character, then swipe up or down with two fingers until you hear the type of character you want.

Enter a space. Swipe right with two fingers.

Go to a new line. Swipe right with three fingers.

Delete the character before the insertion point. Swipe left with two fingers.

Select an item on the Home screen. Start writing the name of the item. If there are multiple matches, continue to spell the name until it's unique, or swipe up or down with two fingers to choose from the current matches.

Enter your passcode silently. Set the rotor to Handwriting on the passcode screen, then write the characters of your passcode.

Use a table index to skip through a long list. Select the table index to the right of the table (for example, next to your Contacts list or in the VoiceOver Item Chooser), then write the letter.

Set the rotor to a web browsing element type. Write the first letter of a page element type. For example, write "l" to have up or down swipes skip to links, or "h" to skip to headings.

Exit handwriting mode. Do a two-finger scrub, or set the rotor to a different selection.

Type onscreen braille

If you turn on Braille Screen Input, you can use your fingers to enter 6-dot or contracted braille directly on the iPhone screen. Enter braille with iPhone laying flat in front of you (tabletop mode), or hold iPhone with the screen facing away so your fingers curl back to tap the screen (screen away mode).

Turn on Braille Screen Input. Use the rotor to select Braille Screen Input. If you don't find it in the rotor, go to Settings > General > Accessibility > VoiceOver > Rotor, then add it.

Enter braille. Place iPhone flat in front of you or hold it with the screen facing away, then tap the screen with one or several fingers at the same time.

Adjust entry dot positions. To move the entry dots to match your natural finger positions, tap and lift your right three fingers all at once to position dots 4, 5, and 6, followed immediately by your left three fingers for dots 1, 2, and 3.

Switch between 6-dot and contracted braille. Swipe to the right with three fingers. To set the default, go to Settings > General > Accessibility > VoiceOver > Braille > Braille Screen Input.

Enter a space. Swipe right with one finger. (In screen away mode, swipe to *your* right.)

Delete the previous character. Swipe left with one finger.

Move to a new line (typing). Swipe right with two fingers.

Cycle through spelling suggestions. Swipe up or down with one finger.

Select an item on the Home screen. Start entering the name of the item. If there are multiple matches, continue to spell the name until it is unique, or swipe up or down with one finger to cycle through match suggestions.

Open the selected app. Swipe right with two fingers.

Lock the screen orientation. Swipe up or down with three fingers.

Use Exploring Mode. To have iPhone read dots aloud as they are tapped and released, tap and hold dots, then wait for the timer tones and announcement.

Turn braille contractions on or off. Swipe to the right with three fingers.

Translate immediately (when contractions are enabled). Swipe down with two fingers.

Turn off Braille Screen Input. Do a two-finger scrub, or set the rotor to another setting.

Use VoiceOver with an Apple Wireless Keyboard

You can control VoiceOver using an Apple Wireless Keyboard paired with iPhone. See [Use an Apple Wireless Keyboard](#).

Use the following VoiceOver keyboard commands to navigate the screen, select items, read screen contents, adjust the rotor, and perform other VoiceOver actions. For the commands, you can use the Control-Option key combination or the Caps Lock key, abbreviated in the list that follows as "VO." (To choose a modifier key, go to Settings > General > Accessibility > VoiceOver > Modifier Keys.)

You can use VoiceOver Help to learn the keyboard layout and the actions associated with various key combinations. VoiceOver Help speaks keys and keyboard commands as you type them, without performing the associated action.

VoiceOver keyboard commands

VO = Control-Option

Turn on VoiceOver Help: VO-K

Turn off VoiceOver Help: Escape

Select the next or previous item: VO–Right Arrow or VO–Left Arrow

Double-tap to activate the selected item: VO–Space bar

Press the Home button: VO–H

Touch and hold the selected item: VO–Shift–M

Move to the status bar: VO–M

Read from the current position: VO–A

Read from the top: VO–B

Pause or resume reading: Control

Copy the last spoken text to the clipboard: VO–Shift–C

Search for text: VO–F

Mute or unmute VoiceOver: VO–S

Open Notification Center: Fn–VO–Up Arrow

Open Control Center: Fn–VO–Down Arrow

Open the Item Chooser: VO–I

Change the label of the selected item: VO–/

Double-tap with two fingers: VO–"-"

Swipe up or down: VO–Up Arrow or VO–Down Arrow

Adjust the rotor: VO–Command–Left Arrow or VO–Command–Right Arrow

Adjust the setting specified by the rotor: VO–Command–Up Arrow or VO–Command–Down Arrow

Turn the screen curtain on or off: VO–Shift–S

Return to the previous screen: Escape

Switch apps: Command–Tab or Command–Shift–Tab

Quick Nav

Turn on Quick Nav to control VoiceOver using the arrow keys.

Turn Quick Nav on or off: Left Arrow–Right Arrow

Select the next or previous item: Right Arrow or Left Arrow

Select the next or previous item specified by the rotor: Up Arrow or Down Arrow

Select the first or last item: Control–Up Arrow or Control–Down Arrow

Tap an item: Up Arrow–Down Arrow

Scroll up, down, left, or right: Option–Up Arrow, Option–Down Arrow, Option–Left Arrow, or Option–Right Arrow

Adjust the rotor: Up Arrow–Left Arrow or Up Arrow–Right Arrow

You can also use the number keys on an Apple Wireless Keyboard to dial a phone number in Phone or enter numbers in Calculator.

Single-key Quick Nav for web browsing

When you view a webpage with Quick Nav on, you can use the following keys on the keyboard to navigate the page quickly. Typing the key moves to the next item of the indicated type. To move to the previous item, hold the Shift key as you type the letter.

Turn on Single-key Quick Nav: VO-Q

Heading: H

Link: L

Text field: R

Button: B

Form control: C

Image: I

Table: T

Static text: S

ARIA landmark: W

List: X

Item of the same type: M

Level 1 heading: 1

Level 2 heading: 2

Level 3 heading: 3

Level 4 heading: 4

Level 5 heading: 5

Level 6 heading: 6

Text editing

Use these commands (with Quick Nav turned off) to work with text. VoiceOver reads the text as you move the insertion point.

Go forward or back one character: Right Arrow or Left Arrow

Go forward or back one word: Option–Right Arrow or Option–Left Arrow

Go up or down one line: Up Arrow or Down Arrow

Go to the beginning or end of the line: Command–Left Arrow or Command–Down Arrow

Go to the beginning or end of the paragraph: Option–Up Arrow or Option–Down Arrow

Go to the previous or next paragraph: Option–Up Arrow or Option–Down Arrow

Go to the top or bottom of the text field: Command–Up Arrow or Command–Down Arrow

Select text as you move: Shift + any of the insertion point movement commands above

Select all text: Command–A

Copy, cut, or paste the selected text: Command–C, Command–X, or Command–V

Undo or redo last change: Command–Z or Shift–Command–Z

Support for braille displays

You can use a Bluetooth braille display to read VoiceOver output, and you can use a braille display with input keys and other controls to control iPhone when VoiceOver is turned on. For a list of supported braille displays, go to the [Braille Displays for iOS website](#).

Connect a braille display. Turn on the display, then go to Settings > Bluetooth and turn on Bluetooth. Then, go to Settings > General > Accessibility > VoiceOver > Braille and choose the display.

Adjust Braille settings. Go to Settings > General > Accessibility > VoiceOver > Braille, where you can:

- Choose contracted, uncontracted 8-dot, or uncontracted 6-dot braille input or output

- Turn on the status cell and choose its location

- Turn on Nemeth code for mathematical equations

- Display the onscreen keyboard

- Choose to have the page turned automatically when panning

- Change the braille translation from Unified English

- Change the alert display duration

For information about common braille commands for VoiceOver navigation, and for information specific to certain displays, see the Apple Support article [Common braille commands for VoiceOver navigation using iPhone, iPad, and iPod touch](#).

Set the language for VoiceOver. Go to Settings > General > Language & Region.

If you change the language for iPhone, you may need to reset the language for VoiceOver and your braille display.

You can set the leftmost or rightmost cell of your braille display to provide system status and other information. For example:

- Announcement History contains an unread message

- The current Announcement History message hasn't been read

- VoiceOver speech is muted

The iPhone battery is low (less than 20% charge)

iPhone is in landscape orientation

The screen display is turned off

The current line contains additional text to the left

The current line contains additional text to the right

Set the leftmost or rightmost cell to display status information. Go to Settings > General > Accessibility > VoiceOver > Braille > Status Cell, then tap Left or Right.

See an expanded description of the status cell. On your braille display, press the status cell's router button.

Make phone calls with VoiceOver

Answer or end a call. Double-tap the screen with two fingers.

When a phone call is established with VoiceOver on, the screen displays the numeric keypad by default, instead of showing call options.

Display call options. Select the Hide Keypad button in the lower-right corner and double-tap.

Display the numeric keypad again. Select the Keypad button near the center of the screen and double-tap.

Note: You may find it easier to use Siri. Tell Siri the phone number you want to call ("Call 555-555-1212") or ask to call a contact ("Call John Appleseed").

Read math equations

VoiceOver can read aloud math equations encoded using:

MathML on the web

MathML or LaTeX in iBooks Author

Hear an equation. Have VoiceOver read the text as usual. VoiceOver says "math" before it starts reading an equation.

Explore the equation. Double-tap the selected equation to display it full screen and move through it one element at a time. Swipe left or right to read elements of the equation. Use the rotor to select Symbols, Small Expressions, Medium Expressions, or Large Expressions, then swipe up or down to hear the next element of that size. You can continue to double-tap the selected element to “drill down” into the equation to focus on the selected element, then swipe left or right, up or down to read one part at a time.

Equations read by VoiceOver can also be output to a braille device using Nemeth code, as well as the codes used by Unified English Braille, British English, French, and Greek. See [Support for braille displays](#).

Use VoiceOver with Safari

Search the web. Select the search field, double-tap to invoke the keyboard, enter your search, then swipe right or left to move down or up the list of suggested search phrases. Then double-tap the screen to search the web using the selected phrase.

Skip to the next page element of a particular type. Set the rotor to the element type—such as headings, links, and form controls—then swipe up or down.

Set the rotor options for web browsing. Go to Settings > General > Accessibility > VoiceOver > Rotor. Tap to select or deselect options, or drag  up or down to reposition an item.

Skip images while navigating. Go to Settings > General > Accessibility > VoiceOver > Navigate Images. You can choose to skip all images or only those without descriptions.

Reduce page clutter for easier reading and navigation. Select the Reader item in the Safari address field (not available for all pages).

If you pair an Apple Wireless Keyboard with iPhone, you can use single-key Quick Nav commands to navigate webpages. See [Use VoiceOver with an Apple Wireless Keyboard](#).

Use VoiceOver with Maps

You can use VoiceOver to explore a region, browse points of interest, follow roads, zoom in or out, select a pin, or get information about a location.

Explore the map. Drag your finger around the screen, or swipe left or right to move to another item.

Zoom in or out. Select the map, set the rotor to Zoom, then swipe down or up with one finger.

Pan the map. Swipe with three fingers.

Browse visible points of interest. Set the rotor to Points of Interest, then swipe up or down with one finger.

Follow a road. Hold your finger down on the road, wait until you hear “pause to follow,” then move your finger along the road while listening to the guide tone. The pitch increases when you stray from the road.

Select a pin. Touch a pin, or swipe left or right to select the pin.

Get information about a location. With a pin selected, double-tap to display the information flag. Swipe left or right to select the More Info button, then double-tap to display the information page.

Hear location cues as you move about. Turn on Tracking With Heading in Maps to hear street names and points of interest as you approach them.

Edit videos and voice memos with VoiceOver

You can use VoiceOver gestures to trim Camera videos and Voice Memo recordings.

Trim a video. While viewing a video in Photos, double-tap the screen to display the video controls, then select the beginning or end of the trim tool. Then swipe up to drag to the right, or swipe down to drag to the left. VoiceOver announces the amount of time the current position will trim from the recording. To complete the trim, select Trim, then double-tap.

Trim a voice memo. Select the memo in Voice Memos, tap Edit, then tap Start Trimming. Select the beginning or end of the selection, double-tap and hold, then drag to adjust. VoiceOver announces the amount of time the current position will trim from the recording. Tap Play to preview the trimmed recording. When you’ve got it the way you want it, tap Trim.

Zoom

Many apps let you zoom in or out on specific items. For example, you can double-tap or pinch to look closer in Photos or expand webpage columns in Safari. There’s also a general Zoom feature that lets you magnify the screen no matter what you’re doing. You can zoom the entire screen (Full Screen Zoom) or zoom part of the screen in a resizable window and leave the rest of the screen unmagnified (Window Zoom). And, you can use Zoom together with VoiceOver.

Turn Zoom on or off. Go to Settings > General > Accessibility, then turn Zoom on or off. Or [use Accessibility Shortcut](#).

Zoom in or out. With Zoom turned on, double-tap the screen with three fingers.

Adjust the magnification. Double-tap with three fingers, then drag up or down. This gesture is similar to a double-tap, except you don't lift your fingers after the second tap—instead, drag your fingers on the screen. You can also triple-tap with three fingers, then drag the Zoom Level slider in the zoom controls that appear. To limit the maximum magnification, go to Settings > General > Accessibility > Zoom, then drag the Maximum Zoom Level slider all the way to the left.

Pan to see more. Drag the screen with three fingers. Or, hold your finger near the edge of the screen to pan to that side. Move your finger closer to the edge to pan more quickly.

Switch between Full Screen Zoom and Window Zoom. Triple-tap with three fingers, then tap Window Zoom or Full Screen Zoom in the zoom controls that appear. To choose the mode that's used when you turn on Zoom, go to Settings > General > Accessibility > Zoom > Zoom Region.

Resize the zoom window (Window Zoom). Triple-tap with three fingers, tap Resize Lens, then drag any of the round handles that appear.

Move the zoom window (Window Zoom). Drag the handle at the bottom of the zoom window.

Show the zoom controller. Go to Settings > General > Accessibility > Zoom, then turn on Show Controller, or triple-tap with three fingers, then choose Show Controller. Then you can double-tap the floating Zoom Controls button to zoom in or out, single-tap the button to display the zoom controls, or drag it to pan. To move the Zoom Controls button, touch and hold the button, then drag it to a new location. To adjust the transparency of the zoom controller, go to Settings > General > Accessibility > Zoom > Idle Visibility.

Have Zoom track your selections or the text insertion point. Go to Settings > General > Accessibility > Zoom, then turn on Follow Focus. Then, for example, if you use VoiceOver, the zoom window magnifies each element on the screen as you select it.

Zoom in on your typing without magnifying the keyboard. Go to Settings > General > Accessibility > Zoom, then turn on Follow Focus. When you zoom in while typing (in Messages or Notes, for example), the area immediately around the text you type is

magnified while all of the keyboard remains visible. Turn on Smart Typing, and the entire window (except the keyboard) is magnified.

Display the magnified part of the screen in grayscale or inverted color. Go to Settings > General > Accessibility > Zoom > Zoom Filter, then choose an option. Or triple-tap with three fingers, then tap Choose Filter in the zoom controls that appear.

While using Zoom with an Apple Wireless Keyboard, the screen image follows the insertion point, keeping it in the center of the display. See [Use an Apple Wireless Keyboard](#).

If you have iPhone 6, iPhone 6 Plus, iPhone 6s, iPhone 6s Plus, iPhone 7, or iPhone 7 Plus, you can turn on Display Zoom to see larger onscreen controls. Go to Settings > Display & Brightness > View.

Magnifier

Use Magnifier to magnify objects near you.

Set up Magnifier. Go to Settings > General > Accessibility > Magnifier, then turn on Magnifier. This adds Magnifier to [Accessibility Shortcut](#).

Start Magnifier. Triple-click the Home button. If you have multiple accessibility shortcuts, tap Magnifier.

Adjust the magnification level. Drag the Zoom Level slider.

Add more light. Tap  to turn the flashlight on or off.

Lock the focus. Tap . Tap again to unlock the focus.

Freeze the frame. Tap . To adjust the magnification, drag the Zoom Level slider. To save the image, touch and hold the image, then tap Save Image. To unfreeze the frame, tap  again.

Apply color filters. Tap . Tap the different color filters to preview their effects. To adjust the brightness and contrast, drag the sliders. To invert the colors, tap . To apply the selected filter and return to Magnifier screen, tap  again.

Turn off Magnifier. Click the Home button.

Set display accommodations

You can invert the colors, apply color filters, or reduce the white point to make the screen easier to read.

Invert the screen colors. Go to Settings > General > Accessibility > Display Accommodations, then turn on Invert Colors. Or, you can triple-click the Home button, then choose Invert Colors.

Apply color filters. Go to Settings > General > Accessibility > Display Accommodations > Color Filters, then turn on Color Filters. Or, you can triple-click the Home button, then choose Color Filters. Tap a filter to apply it. To adjust the intensity or hue, drag the sliders.

Reduce the intensity of bright colors. Go to Settings > General > Accessibility > Display Accommodations, then turn on Reduce White Point.

You can also apply these effects to only the contents of the zoom window. See [Zoom](#).

Speak Selection

Even with VoiceOver turned off, you can have iPhone read aloud any text you select. iPhone analyzes the text to determine the language, then reads it to you using the appropriate pronunciation.

Turn on Speak Selection. Go to Settings > General > Accessibility > Speech. There you can also:

Adjust the speaking rate

Choose to have individual words highlighted as they're read

Have text read to you. Select the text, then tap Speak.

You can also have iPhone read the entire screen to you. See [Speak Screen](#).

Speak Screen

iPhone can read the contents of the screen to you, even if you don't use VoiceOver.

Turn on Speak Screen. Go to Settings > General > Accessibility > Speech.

Have iPhone speak the screen. Swipe down from the top of the screen with two fingers. Use the controls that appear to pause speaking or adjust the rate.

Highlight what's being spoken. Turn on Highlight Content (a command that appears when you turn on Speak Screen), and the current word is highlighted as it's spoken.

Ask Siri. Say "speak screen."

You can also have iPhone read just text you select—see [Speak Selection](#).

Typing feedback

As you type, iPhone can provide feedback and speak text corrections and suggestions. You can choose to have iPhone speak each character, entire words, auto-corrections, auto-capitalizations, and typing predictions.

Turn on and configure typing feedback. Go to Settings > General > Accessibility > Speech > Typing Feedback.

Speak typing predictions. Go to Settings > General > Keyboards, and turn on Predictive. Then, go to Settings > General > Accessibility > Speech > Typing Feedback, and turn on Hold to Speak Predictions. Touch and hold a prediction to hear it spoken.

Large, bold, and high-contrast text

Display larger text in apps such as Settings, Calendar, Contacts, Mail, Messages, and Notes. Go to Settings > General > Accessibility > Larger Text, then turn on Larger Accessibility Sizes.

Display bolder text on iPhone. Go to Settings > General > Accessibility, then turn on Bold Text.

Increase text contrast where possible. Go to Settings > General > Accessibility > Increase Contrast. You can choose to reduce transparency and darken colors.

Button Shapes

iPhone can add a colored background shape or an underline to buttons so they're easier to see.

Emphasize buttons. Go to Settings > General > Accessibility, then turn on Button Shapes.

Reduce screen motion

You can stop the movement of some screen elements, for example, the parallax effect of icons and alerts against the wallpaper, or motion transitions. This setting reduces the amount of movement in Siri animations, and typing autocompletion. This setting also disables bubble and screen effects in Messages.

Reduce motion. Go to Settings > General > Accessibility, then turn on Reduce Motion.

On/off switch labels

To make it easier to distinguish whether a setting is on or off, you can have iPhone show an additional label on on/off switches.

Add switch-setting labels. Go to Settings > General > Accessibility, then turn on the On/Off Labels switch.

Assignable ringtones and vibrations

You can assign distinctive ringtones to people in your contacts list for audible caller ID. You can also assign vibration patterns for notifications from specific apps, for phone calls, for FaceTime calls or messages from special contacts, and to alert you of a variety of other events, including new voicemail, new mail, sent mail, Tweet, Facebook Post, and reminders. Choose from existing patterns, or create new ones. See [Sounds and silence](#).

You can purchase ringtones from the iTunes Store on iPhone. See [iTunes Store at a glance](#).

Audio Descriptions

Audio Descriptions provides an audible description of video scenes. If you have a video that includes audio descriptions, iPhone can play them for you.

Hear audio descriptions. Go to Settings > General > Accessibility > Audio Descriptions, then turn on Prefer Audio Descriptions.

Hearing devices

If you have Made for iPhone hearing aids, you can use iPhone to adjust their settings, stream audio, or use iPhone as a remote mic.

Pair with iPhone. If your hearing aids aren't listed in Settings > General > Accessibility > Hearing Devices, you need to pair them with iPhone. To start, open the battery door on each hearing aid. Next, on iPhone, go to Settings > Bluetooth, and make sure Bluetooth is turned on. Then, go to Settings > General > Accessibility > Hearing Devices. Close the battery doors on your hearing aids and wait until their name appears in the list of devices (this could take a minute). When the name appears, tap it and respond to the pairing request.

When pairing is finished, you hear a series of beeps and a tone, and a checkmark appears next to the hearing aids in the Devices list. Pairing can take as long as 60 seconds—don't try to stream audio or otherwise use the hearing aids until pairing is finished.

You should only need to pair once (and your audiologist might do it for you). After that, each time you turn your hearing aids back on, they reconnect to iPhone.

Turn on Hearing Aid Mode. Hearing Aid Mode may reduce interference with some hearing aid models. To turn it on, go to Settings > General > Accessibility > Hearing Devices.

Note: Hearing Aid Mode reduces the transmission power of the cellular radio in the GSM 1900 MHz band and may result in decreased 2G cellular coverage.

Adjust hearing aid settings and view status. Go to Settings > General > Accessibility > Hearing Devices, or [choose Hearing Devices in Accessibility Shortcut](#). Hearing aid settings appear only after you pair your hearing aids with iPhone.

For shortcut access from the Lock screen, go to Settings > General > Accessibility > Hearing Devices, then turn on Control on Lock Screen. From the Lock Screen, you can:

- Check hearing aid battery status.

- Adjust ambient microphone volume and equalization.

- Choose which hearing aids (left, right, or both) receive streaming audio.

- Control Live Listen.

- Choose whether call audio and media audio are routed to the hearing aid.

Choose to play ringtones through the hearing aid. (Not all hearing aids support this feature.)

Stream audio to your hearing aids. To stream audio from Phone, Siri, Music, Videos, and more, see [Bluetooth devices](#).

Use iPhone as a remote microphone. You can use Live Listen to stream sound from the microphone in iPhone to your hearing aids. This can help you hear better in some situations—for example, when having a conversation in a noisy environment. Triple-click the Home button, choose Hearing Devices, tap Start Live Listen, then position iPhone near the sound source.

Use your hearing aids with more than one iOS device. If you pair your hearing aids with more than one iOS device (both iPhone and iPod touch, for example), the connection for your hearing aids automatically switches from one to the other when you do something that generates audio on the other device, or when you receive a phone call on iPhone. Changes you make to hearing aid settings on one device are automatically sent to your other iOS devices. To enable this feature, sign in to iCloud using the same Apple ID on all the devices, and connect all the devices to the same Wi-Fi network.

Hearing aid compatibility

The FCC has adopted hearing aid compatibility (HAC) rules for digital wireless phones. These rules require certain phones to be tested and rated under the American National Standard Institute (ANSI) C63.19-2007 or C63.19-2011 hearing aid compatibility standards.

The ANSI standard for hearing aid compatibility contains two types of ratings:

An “M” rating for reduced radio frequency interference to enable acoustic coupling with hearing aids that are not operating in telecoil mode

A “T” rating for inductive coupling with hearing aids operating in telecoil mode

These ratings are given on a scale from one to four, where four is the most compatible. A phone is considered hearing aid compatible under FCC rules if it is rated M3 or M4 for acoustic coupling and T3 or T4 for inductive coupling.

For iPhone hearing aid compatibility ratings, see the Apple Support article [About Hearing Aid Compatibility \(HAC\) requirements for iPhone](#).

Hearing aid compatibility ratings don’t guarantee that a particular hearing aid works with a particular phone. Some hearing aids may work well with phones that don’t meet particular ratings. To ensure interoperability between a hearing aid and a phone, try using

them together before purchase.

This phone has been tested and rated for use with hearing aids for some of the wireless technologies it uses. However, there may be some newer wireless technologies used in this phone that have not been tested yet for use with hearing aids. It is important to try the different features of this phone thoroughly and in different locations, using your hearing aid or cochlear implant, to determine if you hear any interfering noise. Consult your carrier or Apple for information on hearing aid compatibility. If you have questions about return or exchange policies, consult your carrier or phone retailer.

Mono audio and balance

Mono Audio combines the sound from the left and right channels into a mono signal played on both channels. This way you can hear everything with either ear, or through both ears with one channel set louder.

Turn on Mono Audio. Go to Settings > General > Accessibility > Mono Audio.

Adjust the balance. Go to Settings > General > Accessibility, then drag the Left Right Stereo Balance slider.

Subtitles and closed captions

The Videos app includes an Alternate Track button  you can tap to choose subtitles and captions offered by the video you're watching. Standard subtitles and captions are usually listed, but if you prefer special accessible captions, such as subtitles for the deaf and hard of hearing (SDH), you can set iPhone to list them instead, if they're available.

Prefer accessible subtitles and closed captions for SDH. Go to Settings > General > Accessibility > Subtitles & Captioning, then turn on Closed Captions + SDH. This also turns on subtitles and captions in the Videos app.

Choose from available subtitles and captions. Tap  while watching a video in Videos.

Customize your subtitles and captions. Go to Settings > General > Accessibility > Subtitles & Captioning > Style, where you can choose an existing caption style or create a new style based on your choice of:

Font, size, and color

Background color and opacity

Text opacity, edge style, and highlight

Note: Not all videos include subtitles or closed captions.

Siri

Siri is often the easiest way to start using accessibility features with iPhone. With Siri, you can open apps, turn many settings on or off (for example, VoiceOver), or use Siri for what it does best—acting as your assistant. Siri knows when VoiceOver is on, so will often read more information back to you than appears on the screen. You can also use VoiceOver to read what Siri shows on the screen. See [Make requests](#).

3D Touch

On devices that support 3D Touch, you can control the sensitivity of 3D Touch or turn it off.

Adjust 3D Touch sensitivity. Go to Settings > General > Accessibility, then choose Light, Medium, or Firm sensitivity to adjust the amount of pressure needed to activate 3D Touch. Light sensitivity reduces the amount of pressure required; Firm sensitivity increases it.

Turn off 3D Touch. Go to Settings > General > Accessibility, then turn off 3D Touch.

Reachability

Reachability helps you more easily interact with items at the top of the screen on iPhone 6, iPhone 6 Plus, iPhone 6s, iPhone 6s Plus, iPhone 7, and iPhone 7 Plus.

Bring items within reach. Go to Settings > General > Accessibility, turn on Reachability, then lightly double-tap the Home button to bring the top of the screen into reach.

Widescreen keyboards

Many apps, including Mail, Safari, Messages, Notes, and Contacts, let you rotate iPhone when you're typing, so you can use a larger keyboard.

Large phone keypad

Make phone calls simply by tapping entries in your contacts and favorites lists. When you need to dial a number, the large numeric keypad on iPhone makes it easy. See [Make a call](#).

LED Flash for Alerts

If you can't hear the sounds that announce incoming calls and other alerts, you can have iPhone flash its LED (next to the camera lens on the back of iPhone).

Tip: This is a great feature for all users who, when in a loud environment, may miss the tones associated with calls, texts, and other alerts.

Turn on LED Flash for Alerts. Go to Settings > General > Accessibility > LED Flash for Alerts.

Call audio routing

You can have the audio of incoming or outgoing calls automatically routed through a headset or speaker phone instead of iPhone.

Reroute audio for calls. Go to Settings > General > Accessibility > Call Audio Routing, then choose how you want to hear and speak your calls.

You can also have audio from calls routed to your hearing aids; see [Hearing devices](#).

Phone noise cancelation

iPhone uses ambient noise cancelation to reduce background noise.

Turn noise cancelation on or off. Go to Settings > General > Accessibility > Phone Noise Cancelation.

Guided Access

Guided Access helps an iPhone user stay focused on a task. Guided Access dedicates iPhone to a single app, and lets you control which app features are available. Use Guided Access to:

Temporarily restrict iPhone to a particular app

Disable areas of the screen that aren't relevant to a task, or areas where an accidental gesture might cause a distraction

Limit how long someone can use an app

Disable the iPhone Sleep/Wake or volume buttons

Use Guided Access. While using an app, tell Siri "turn on Guided Access" or go to Settings > General > Accessibility > Guided Access, then turn on Guided Access. Within the Guided Access screen you can:

Turn Guided Access on or off

Tap Passcode Settings to set a passcode that controls the use of Guided Access (preventing someone from leaving a session), and turn on Touch ID (as a way to end Guided Access)

Tap Time Limits to set a sound or have the remaining Guided Access time spoken before time ends

Set whether other accessibility shortcuts are available during a session

Start a Guided Access session. After turning on Guided Access, open the app, then triple-click the Home button. Adjust settings for the session, then tap Start.

Disable app controls and areas of the app screen: Draw a circle or rectangle around any part of the screen you want to disable. Drag the mask into position or use the handles to adjust its size.

Enable the Sleep/Wake or volume buttons: Tap Options below Hardware Buttons.

Prevent iPhone from switching from portrait to landscape or from responding to other motions: Tap Options, then turn off Motion.

Prevent typing: Tap Options, then turn off Keyboards.

Ignore all screen touches: Turn off Touch at the bottom of the screen.

Set a session time limit: Tap Time Limit Options at the bottom of the screen.

End the session. Triple-click the Home button, then enter the Guided Access passcode, or use Touch ID (if enabled).

Switch Control

Switch Control overview

If you have a motor impairment, Switch Control lets you control iPhone using one or more connected physical switches. Use any of several methods to perform actions such as selecting, tapping, pressing, dragging, typing, and even free-hand drawing. You use a switch to select an item or location on the screen, and then use the same (or different) switch to choose an action to perform on that item or location. Three basic methods are:

Item scanning (default), which highlights different items on the screen until you select one.

Point scanning, which lets you use scanning crosshairs to pick a screen location.

Manual selection, which lets you move from item to item on demand (requires multiple switches).

Whichever method you use, when you select an individual item (rather than a group), a menu appears so you can choose how to act on the selected item (tap, press, drag, or pinch, for example).

If you use multiple switches, you can set up each switch to perform a specific action and customize your item selection method. For example, instead of automatically scanning screen items, you can set up switches to move to the next or previous item on demand.

You can adjust the behavior of Switch Control in a variety of ways, to suit your specific needs and style.

Add a switch and turn on Switch Control

You can use the following as a switch:

An external adaptive switch: Choose a Bluetooth switch or a Made For iPhone switch that plugs into the lightning port.

The iPhone screen: Tap the screen to trigger the switch. (Or, on devices that support 3D Touch, press the screen.)

Add a switch and choose its action. Go to Settings > General > Accessibility > Switch Control > Switches. If you use only one switch, it is your Select Item switch by default.

If you're adding an external switch, you need to connect it to iPhone before it will appear in the list of available switches. Follow the instructions that came with the switch. If it connects using Bluetooth, you need to pair it with iPhone—turn on the switch, go to Settings > Bluetooth, tap the switch, then follow the onscreen instructions. For more information, see [Bluetooth devices](#).

Turn on Switch Control. Go to Settings > General > Accessibility > Switch Control, then turn on Switch Control. Or triple-click the Home button. See [Accessibility Shortcut](#).

Turn off Switch Control. Use any scanning method to select and tap Settings > General > Accessibility > Switch Control, then turn off Switch Control. Or triple-click the Home button.

Basic techniques

Whether you use item scanning or point scanning, the Switch Control basics are the same.

Select an item. While the item is highlighted, trigger the switch you've set up as your Select Item switch. If you are using a single switch, it is your Select Item switch by default.

Perform an action on the selected item. Choose a command from the control menu that appears when you select the item. The layout of the menu depends on how you configure tap behavior. (To choose an option, go to Settings > General > Accessibility > Switch Control > Tap Behavior.)

With Default on: The control menu usually includes only the Tap button and the More button (two dots at the bottom). If you're in a scrollable area of the screen, a Scroll button also appears. To tap the highlighted item, trigger your Select Item button when Tap is highlighted. To see additional action buttons, choose More at the bottom of the menu. If you have multiple switches, you can set one up specifically for tapping.

With Auto Tap on: To tap the item, do nothing—the item is automatically tapped when the Auto Tap interval expires (0.75 seconds if you haven't changed it). To see the control menu, trigger your Select Item button before the Auto Tap interval expires. The control menu skips the Tap button and goes right to the full set of action buttons.

With Always Tap on: Tap to select the highlighted item rather than display the control menu. Wait until the end of the scan cycle, then tap a button to display the control menu.

Note: Always Tap applies only when you choose item scanning. When point scanning, the default behavior applies.

Work with recipes. A recipe lets you temporarily assign a special action to a switch. For example, you can choose a recipe to turn pages in iBooks or control a game. To create, edit, or launch a recipe, go to Settings > General > Accessibility > Switch Control > Recipes.

Dismiss the Scanner Menu without choosing an action. Tap while the original item is highlighted and all the icons in the control menu are dimmed. The menu goes away after cycling the number of times you specify at Settings > General > Accessibility > Switch Control > Loops.

Perform screen gestures. Choose Gestures from the Scanner Menu.

Scroll the screen. Select an item in a scrollable part of the screen, then:

With Auto Tap off: Choose the Scroll Down button (next to the Tap button) in the Scanner Menu. Or, for more scrolling options, choose More, then choose Scroll.

With Auto Tap on: Choose Scroll from the control menu. If many actions are available, you might have to choose More first.

Tap the Home button. Choose Home from the Scanner Menu.

Perform other hardware actions. Select any item, then choose Device from the menu that appears. Use the menu to mimic these actions:

Double-click the Home button for multitasking

Open Notification Center or Control Center

Press the Sleep/Wake button to lock iPhone

Rotate iPhone

Flip the Ring/Silent switch

Press the volume buttons

Hold down the Home button to open Siri

Triple-click the Home button

Shake iPhone

Press the Home and Sleep/Wake buttons simultaneously to take a screenshot

Swipe down from the top with two fingers to speak the screen (if you have Speak Screen turned on)

On devices that support 3D Touch, replicate 3D Touch to preview the contents of an email message

Use Switch Control on another iOS device. Ensure that you sign in to iCloud with the same Apple ID on the other iOS device, then choose the other device from the menu.

Item scanning

Item scanning alternately highlights each item or group of items on the entire screen until you trigger your Select Item switch. If there are many items, Switch Control highlights them in groups. When you select a group, highlighting continues with the items in the group. When you select a unique item, scanning stops and the control menu appears. Item scanning is the default when you first turn on Switch Control.

You can choose from three scanning styles—auto scanning, manual scanning, and single-switch step scanning. Auto scanning automatically highlights items, one after the other. With manual scanning, you use one switch to highlight an item and another to activate it. Single-switch step scanning uses a switch to move the highlight from item to item. If you take no action after a period of time, the highlighted item activates.

Select an item or enter a group. Watch (or listen) as items are highlighted. When the item you want to control (or the group containing the item) is highlighted, trigger your Select Item switch. Work your way down the hierarchy of items until you select the individual item you want to control.

Back out of a group. Trigger your Select Item switch when the dashed highlight around the group or item appears.

Dismiss the control menu without performing an action. Trigger your Select Item switch when the item itself is highlighted. Or choose Escape from the control menu.

Hear the names of items as they are highlighted. Go to Settings > General > Accessibility > Switch Control, then turn on Speech. Or choose Settings from the control menu, then choose Speech On.

Slow down or speed up the scanning. Go to Settings > General > Accessibility > Switch Control > Auto Scanning Time.

Point scanning

Point scanning lets you select an item on the screen by pinpointing it with scanning crosshairs.

Switch to point scanning. Use item scanning to choose Point Mode from the control menu. The vertical crosshair appears when you close the menu.

Select an item. Trigger your Select Item switch when the item you want is within the broad, horizontal scanning band, then trigger again when the fine scanning line is on the item. Repeat for vertical scanning.

Refine your selection point. Choose Refine Selection from the control menu.

Return to item scanning. Choose Item Mode from the control menu.

Settings and adjustments

Adjust basic settings. Go to Settings > General > Accessibility > Switch Control, where you can:

- Add switches and specify their function

- Choose, create, and edit recipes

- Choose a scanning style

- Adjust how rapidly items are scanned

- Turn off auto scanning (only if you've added a Move to Next Item switch)

- Set scanning to pause on the first item in a group

- Choose how many times to cycle through the screen before hiding Switch Control

- Choose a tap behavior and set the interval for performing a second switch action to show the control menu

- Choose whether Switch Control resumes scanning at an item you tap or from the beginning.

- Set whether a movement action is repeated when you hold down a switch, and how long to wait before repeating

- Add another action to a switch by holding down the switch for a long duration

Choose which items appear in menus and the order in which they appear

Set whether and how long you need to hold a switch down before it's accepted as a switch action

Have Switch Control ignore accidental repeated switch triggers

Adjust the point scanning speed

Turn on sound effects or have items read aloud as they are scanned

Choose what to include in the Switch Control menu

Set whether items should be grouped while item scanning

Make the selection cursor larger or a different color

Save custom gestures to the control menu (in Gestures > Saved)

Fine-tune Switch Control. Choose Settings from the control menu to:

Adjust scanning speed

Change the location of the control menu

Turn sound or speech accompaniment on or off

Turn off groups to scan items one at a time

AssistiveTouch

AssistiveTouch helps you use iPhone if you have difficulty touching the screen or pressing the buttons. You can use AssistiveTouch without any accessory to perform gestures that are difficult for you. You can also use a compatible adaptive accessory (such as a joystick) together with AssistiveTouch to control iPhone. To configure the AssistiveTouch menu, go to Settings > General > Accessibility > AssistiveTouch.

The AssistiveTouch menu lets you perform actions such as these by just tapping (or the equivalent on your accessory):

Press the Home button

Summon Siri

Perform multifinger gestures

Access Control Center or Notification Center

Adjust iPhone volume

Shake iPhone

Capture a screenshot

Add more actions (for a total of eight)

Double-tap

On devices that support 3D Touch, replicate 3D Touch to peek at previews and pop open items

Turn on AssistiveTouch. Tell Siri “turn on AssistiveTouch,” go to Settings > General > Accessibility > AssistiveTouch, or [use Accessibility Shortcut](#). When AssistiveTouch is on, the floating menu button appears on the screen.

Show or hide the menu. Tap the floating menu button, or click the secondary button on your accessory.

Simulate pressing the Home button. Tap the menu button, then tap Home.

Lock or rotate the screen, adjust iPhone volume, or simulate shaking iPhone. Tap the menu button, then tap Device.

Perform a swipe or drag that uses 2, 3, 4, or 5 fingers. Tap the menu button, tap Device > More > Gestures, then tap the number of digits needed for the gesture. When the corresponding circles appear on the screen, swipe or drag in the direction required by the gesture. When you finish, tap the menu button.

Perform a pinch gesture. Tap the menu button, tap Custom, then tap Pinch. When the pinch circles appear, touch anywhere on the screen to move the pinch circles, then drag them in or out to perform a pinch gesture. When you finish, tap the menu button.

Create your own gesture. You can add your own favorite gestures to the control menu (for example, touch and hold or two-finger rotation). Tap the menu button, tap Custom, then tap an empty gesture placeholder. Or go to Settings > General > Accessibility > AssistiveTouch > Create New Gesture.

Example 1: To create the rotation gesture, go to Settings > General > Accessibility > AssistiveTouch > Create New Gesture. On the gesture recording screen that asks you to touch to create a gesture, rotate two fingers on the iPhone screen around a point between them. (You can do this with a single finger or stylus—just create each arc

separately, one after the other.) If it doesn't turn out quite right, tap Cancel, then try again. When it looks right, tap Save, then give the gesture a name—maybe "Rotate 90." Then, to rotate the view in Maps, for example, open Maps, tap the AssistiveTouch menu button, and choose Rotate 90 from Custom. When the blue circles representing the starting finger positions appear, drag them to the point around which you want to rotate the map, then release. You might want to create several gestures with different degrees of rotation.

Example 2: Let's create the touch-and-hold gesture that you use to start rearranging icons on your Home screen. This time, on the gesture recording screen, hold down your finger in one spot until the recording progress bar reaches halfway, then lift your finger. Be careful not to move your finger while recording, or the gesture will be recorded as a drag. Tap Save, then name the gesture. To use the gesture, tap the AssistiveTouch menu button, then choose your gesture from Custom. When the blue circle representing your touch appears, drag it over a Home screen icon and release.

If you record a sequence of taps or drags, they're all played back at the same time. For example, using one finger or a stylus to record four separate, sequential taps at four locations on the screen creates a simultaneous four-finger tap.

Exit a menu without performing a gesture. Tap anywhere outside the menu. To return to the previous menu, tap the arrow in the middle of the menu.

Move the menu button. Drag it anywhere along the edge of the screen.

Touch Accommodations

If you have trouble using the touchscreen, use Touch Accommodations to change how the screen responds to touches.

Choose how long you must touch the screen before a touch is recognized. You can configure iPhone to respond only to touches of a certain duration. Go to Settings > General > Accessibility > Touch Accommodations, turn on Hold Duration, then use the Gesture Delay plus and minus buttons to choose a duration (the default is 0.10 seconds).

Choose the duration in which multiple touches are treated as a single touch. If you have trouble touching the screen just once, turn on Ignore Repeat. Then, if you touch the screen several times quickly, iPhone treats the touches as one. To change the amount of time between touches before iPhone treats them as one, go to Settings > General > Accessibility > Touch Accommodations, turn on Ignore Repeat, then use the Gesture Delay plus and minus buttons to adjust the timing.

Choose the location where iPhone responds to the first or the last place you touch.

Go to Settings > General > Accessibility > Touch Accommodations, then choose a Tap Assistance option (Use Initial Touch Location or Use Final Touch Location).

When you choose Use Initial Touch Location, iPhone uses the location of your first tap—when you tap an app on the Home screen, for example. Choose Use Final Touch Location, and iPhone registers the tap where you lift your finger. iPhone responds to a tap when you lift your finger within a certain period of time. Use the Gesture Delay plus and minus buttons to adjust the timing. Your device can respond to other gestures, such as drags, if you wait longer than the gesture delay.

Software and hardware keyboards

If you have difficulty distinguishing characters on the iPhone keyboard or manipulating a hardware keyboard, find help by going to Settings > General > Accessibility > Keyboard. You can adjust settings to:

Show only uppercase keys on the iPhone keyboard.

Adjust the key repeat rate on hardware keyboards.

Use the Sticky Keys feature to hold down modifier keys, such as Command and Option, as you press another key.

Use Slow Keys to adjust the time between when a key is pressed and when it's activated.

Support for TTY

You can use the iPhone TTY Adapter cable (sold separately in many areas) to connect iPhone to a TTY machine. Go to the [Apple Accessibility website](#) (may not be available in all areas) or check with your local Apple retailer.

iPhone also has built-in TTY software (may not be available in all areas), which does not require additional hardware.

Enable and configure TTY. Go to Settings > Accessibility > TTY, where you can:

Turn on TTY software and hardware.

Specify the phone number to use to start relay calls with software TTY.

Choose whether to send characters immediately.

Choose to answer all calls as TTY.

Review the transcript of a software TTY call. In the Phone app, tap Recents, then choose the call.

Connect iPhone to a TTY machine. Go to Settings > Phone, then turn on TTY. Then connect iPhone to your TTY machine using the iPhone TTY Adapter.

When TTY on iPhone is turned on,  appears in the status bar at the top of the screen. For information about using a particular TTY machine, see the documentation that came with the machine.

Note: Continuity features are not available for TTY support.

Visual voicemail

Ask Siri. Say something like:

“Play my voicemail”

“Play the message again”

“Call back that number”

The play and pause controls in visual voicemail let you control the playback of messages. Drag the playhead on the scrubber bar to repeat a portion of the message that’s hard to understand. See [Visual voicemail](#).

Voice Control

Voice Control lets you make phone calls and control Music playback using voice commands. See [Make a call](#), and [Siri and Voice Control](#).

Accessibility in macOS

Take advantage of the accessibility features in macOS when you use iTunes to sync information and content from your iTunes library to iPhone. In the Finder, choose Help > Help Center (or Help > Mac Help in OS X v10.11 or later), then search for “accessibility.”

For more information about iPhone and macOS accessibility features, go to the [Apple Accessibility website](#).

Safety, handling, and support

Important safety information

WARNING: Failure to follow these safety instructions could result in fire, electric shock, injury, or damage to iPhone or other property. Read all the safety information below before using iPhone.

Handling Handle iPhone with care. It is made of metal, glass, and plastic and has sensitive electronic components inside. iPhone can be damaged if dropped, burned, punctured, or crushed, or if it comes in contact with liquid. Don't use a damaged iPhone, such as one with a cracked screen, as it may cause injury. If you're concerned about scratching the surface of iPhone, consider using a case or cover.

Repairing Don't open iPhone and don't attempt to repair iPhone yourself. Disassembling iPhone may damage it, result in loss of splash and water resistance (iPhone 7 and iPhone 7 Plus), or cause injury to you. For example, iPhone 7 and iPhone 7 Plus contain a laser that could be damaged during repair or disassembly, which could result in hazardous exposure to infrared laser emissions that are not visible. If iPhone is damaged or malfunctions, contact Apple or an Apple Authorized Service Provider. You can find more information about getting service at the [iPhone Repair website](#).

Battery Don't attempt to replace the iPhone battery yourself—you may damage the battery, which could cause overheating and injury. The lithium-ion battery in iPhone should be replaced by Apple or an authorized service provider, and it must be recycled or disposed of separately from household waste. Don't incinerate the battery. For information about battery service and recycling, go to the [Battery Service and Recycling website](#).

Distraction Using iPhone in some circumstances may distract you and might cause a dangerous situation (for example, avoid using headphones while riding a bicycle and avoid typing a text message while driving a car). Observe rules that prohibit or restrict the use of mobile devices or headphones.

Navigation Maps depends on data services. These data services are subject to change and may not be available in all areas, resulting in maps and location-based information that may be unavailable, inaccurate, or incomplete. Compare the information provided in Maps to your surroundings. Use common sense when navigating. Always observe current road conditions and posted signs to resolve any discrepancies. Some Maps features require Location Services.

Charging Charge iPhone with the included USB cable and power adapter, or with other third-party “Made for iPhone” cables and power adapters that are compatible with USB 2.0 or later, or power adapters compliant with applicable country regulations and with one or more of the following standards: EN 301489-34, IEC 62684, YD/T 1591-2009, CNS 15285, ITU L.1000, or another applicable mobile phone power adapter interoperability standard.

Using damaged cables or chargers, or charging when moisture is present, can cause fire, electric shock, injury, or damage to iPhone or other property. When you use the Apple USB Power Adapter to charge iPhone, make sure the USB cable is fully inserted into the power adapter before you plug the adapter into a power outlet.

Lightning cable and connector Avoid prolonged skin contact with the connector when the Lightning to USB Cable is plugged into a power source because it may cause discomfort or injury. Sleeping or sitting on the Lightning connector should be avoided.

Prolonged heat exposure iPhone and its power adapter comply with applicable surface temperature standards and limits. However, even within these limits, sustained contact with warm surfaces for long periods of time may cause discomfort or injury. Use common sense to avoid situations where your skin is in contact with a device or its power adapter when it’s operating or plugged into a power source for long periods of time. For example, don’t sleep on a device or power adapter, or place them under a blanket, pillow, or your body, when it’s plugged into a power source. It’s important to keep iPhone and its power adapter in a well-ventilated area when in use or charging. Take special care if you have a physical condition that affects your ability to detect heat against the body.

Hearing loss Listening to sound at high volumes may damage your hearing. Background noise, as well as continued exposure to high volume levels, can make sounds seem quieter than they actually are. Turn on audio playback and check the volume before inserting anything in your ear. For information about how to set a maximum volume limit, see [Play music](#). For more information about hearing loss, go to the [Sound and Hearing website](#).

To avoid hearing damage, use only compatible receivers, earbuds, headphones, speakerphones, or earpieces with iPhone. The headsets sold with iPhone 4s or later in China (identifiable by dark insulating rings on the plug) are designed to comply with Chinese standards and are only compatible with iPhone 4s and later, iPad 2 and later, iPad Pro, iPad mini and later, and iPod touch 5th generation and later.

WARNING: To prevent possible hearing damage, do not listen at high volume levels for long periods.

Radio frequency exposure iPhone uses radio signals to connect to wireless networks. For information about radio frequency (RF) energy resulting from radio signals, and steps you can take to minimize exposure, go to Settings > General > About > Legal > RF Exposure, or go to the [RF Exposure website](#).

Radio frequency interference Observe signs and notices that prohibit or restrict the use of electronic devices (for example, in healthcare facilities or blasting areas). Although iPhone is designed, tested, and manufactured to comply with regulations governing radio frequency emissions, such emissions from iPhone can negatively affect the operation of other electronic equipment, causing them to malfunction. Turn off iPhone or use Airplane Mode to turn off the iPhone wireless transmitters when use is prohibited, such as while traveling in aircraft, or when asked to do so by authorities.

Medical device interference iPhone contains components and radios that emit electromagnetic fields. iPhone also contains magnets and the included headphones also have magnets in the earbuds. These electromagnetic fields and magnets may interfere with pacemakers, defibrillators, or other medical devices. Maintain a safe distance of separation between your medical device and iPhone and the earbuds. Consult your physician and medical device manufacturer for information specific to your medical device. If you suspect iPhone is interfering with your pacemaker, defibrillator, or any other medical device, stop using iPhone.

Not a medical device iPhone and the Health app are not designed or intended for use in the diagnosis of disease or other conditions, or in the cure, mitigation, treatment, or prevention of disease.

Medical conditions If you have any medical condition that you believe could be affected by iPhone (for example, seizures, blackouts, eyestrain, or headaches), consult with your physician prior to using iPhone.

Explosive atmospheres Charging or using iPhone in any area with a potentially explosive atmosphere, such as areas where the air contains high levels of flammable chemicals, vapors, or particles (such as grain, dust, or metal powders), may be hazardous. Obey all signs and instructions.

Repetitive motion When you perform repetitive activities such as typing or playing games on iPhone, you may experience discomfort in your hands, arms, wrists, shoulders, neck, or other parts of your body. If you experience discomfort, stop using iPhone and consult a physician.

High-consequence activities This device is not intended for use where the failure of the device could lead to death, personal injury, or severe environmental damage.

Choking hazard Some iPhone accessories may present a choking hazard to small children. Keep these accessories away from small children.

Important handling information

Cleaning Clean iPhone immediately if it comes in contact with anything that may cause stains, or other damage—for example, dirt or sand, ink, makeup, soap, detergent, acids or acidic foods, or lotions. To clean:

Disconnect all cables and turn iPhone off (press and hold the Sleep/Wake button, then slide the onscreen slider).

Use a soft, lint-free cloth—for example, a lens cloth.

Avoid getting moisture in openings.

Don't use cleaning products or compressed air.

iPhone may have a fingerprint-resistant oleophobic (oil repellant) coating. This coating wears over time with normal usage. Cleaning products and abrasive materials will further diminish the coating and may scratch iPhone.

Exposure to liquid and dust If liquid splashes or dust gets on iPhone, wipe it off with a soft, lint-free cloth—for example, a lens cloth, and ensure that your iPhone is dry and free of dust before opening the SIM tray. Minimize exposing iPhone to soap, detergent, acids or acidic foods, and any liquids—for example, salt water, soapy water, pool water, perfume, insect repellent, lotions, sunscreen, oil, adhesive remover, hair dye, and solvents. If iPhone comes into contact with any of these substances, follow the instructions above in the "Cleaning" section.

iPhone 7 and iPhone 7 Plus are splash, water, and dust resistant and were tested under controlled laboratory conditions with a rating of IP67 under IEC standard 60529. Splash, water, and dust resistance are not permanent conditions and resistance might decrease as a result of normal wear. Liquid damage not covered under warranty. To prevent liquid damage, avoid the following:

Swimming or bathing with iPhone 7 or iPhone 7 Plus

Exposing iPhone 7 or iPhone 7 Plus to pressurized water or high velocity water, such as when showering, water skiing, wake boarding, surfing, jet skiing, and so on

Using iPhone 7 or iPhone 7 Plus in a sauna or steam room

Intentionally submerging iPhone 7 or iPhone 7 Plus in water

Operating iPhone 7 or iPhone 7 Plus outside the suggested temperature ranges or in extremely humid conditions

Dropping iPhone 7 or iPhone 7 Plus or subjecting it to other impacts

Disassembling iPhone 7 or iPhone 7 Plus, including removing screws

If your iPhone 7 or iPhone 7 Plus has been exposed to liquid, unplug all cables and do not charge your device until it's completely dry. Using accessories or charging when wet may damage your iPhone. Allow at least 5 hours before charging or connecting a Lightning accessory.

To dry iPhone, tap it gently against your hand with the Lightning connector facing down and remove excess liquid. Leave the device in a dry area with sufficient airflow. Placing the device in front of a fan blowing cool air directly into the Lightning connector may help the drying process.

Do not dry your iPhone using an external heat source or insert a foreign object into the Lightning connector such as a cotton swab or a paper towel.

Using connectors, ports, and buttons Never force a connector into a port or apply excessive pressure to a button, because this may cause damage that is not covered under the warranty. If the connector and port don't join with reasonable ease, they probably don't match. Check for obstructions and make sure that the connector matches the port and that you have positioned the connector correctly in relation to the port.

Lightning to USB Cable Discoloration of the Lightning connector after regular use is normal. Dirt, debris, and exposure to moisture may cause discoloration. If your Lightning cable or connector become warm during use or iPhone won't charge or sync, disconnect it from your computer or power adapter and clean the Lightning connector with a soft, dry, lint-free cloth. Do not use liquids or cleaning products when cleaning the Lightning connector.

Certain usage patterns can contribute to the fraying or breaking of cables. The Lightning to USB Cable, like any other metal wire or cable, is subject to becoming weak or brittle if repeatedly bent in the same spot. Aim for gentle curves instead of angles in the cable. Regularly inspect the cable and connector for any kinks, breaks, bends, or other damage. Should you find any such damage, discontinue use of the Lightning to USB Cable.

Operating temperature iPhone is designed to work in ambient temperatures between 32° and 95° F (0° and 35° C) and stored in temperatures between -4° and 113° F (-20° and 45° C). iPhone can be damaged and battery life shortened if stored or operated

outside of these temperature ranges. Avoid exposing iPhone to dramatic changes in temperature or humidity. When you're using iPhone or charging the battery, it is normal for iPhone to get warm.

If the interior temperature of iPhone exceeds normal operating temperatures (for example, in a hot car or in direct sunlight for extended periods of time), you may experience the following as it attempts to regulate its temperature:

iPhone stops charging.

The screen dims.

A temperature warning screen appears.

Some apps may close.

Important: You may not be able to use iPhone while the temperature warning screen is displayed. If iPhone can't regulate its internal temperature, it goes into deep sleep mode until it cools. Move iPhone to a cooler location out of direct sunlight and wait a few minutes before trying to use iPhone again.

For more information, see the Apple Support article [Keeping your device within acceptable operating temperatures](#).

Forgot your Apple ID, iPhone passcode, or iCloud Security Code?

Recover your Apple ID or reset your Apple ID password. Go to Apple's [I Forgot website](#).

Reset the iPhone passcode. If you enter the wrong passcode six times in a row, you'll be locked out, and a message will say that iPhone is disabled. If you can't remember your passcode, you can [erase your device](#), then set a new passcode. (If you made an iCloud or iTunes backup before you forgot your passcode, you can restore your data and settings from the backup.) For more information, see the Apple Support article [If you forgot the passcode or your device is disabled](#).

Reset or create a new iCloud Security Code. If you enter the wrong iCloud Security Code too many times when using iCloud Keychain, your iCloud Keychain will be disabled on that device, and your keychain in iCloud will be deleted. Go to the Apple Support article [If you enter your iCloud Security Code incorrectly too many times](#).

iPhone Support site

Comprehensive support information is available online at the [iPhone Support website](#). To contact Apple for personalized support (not available in all areas), go to the [Apple Support website](#).

Get information about your iPhone

View overall storage availability and storage used per app. Go to Settings > General > Storage & iCloud Usage, where you can manage iCloud storage. For more information, see the Apple Support articles [Check your storage on your iPhone, iPad, and iPod touch](#) and [Manage your iCloud storage](#).

See Battery Usage. Go to Settings > Battery to see the elapsed time since iPhone has been charged and usage by app. You can also display battery level as a percentage, and turn Low Power Mode on or off. See also [Charge and monitor the battery](#) and [Low Power Mode](#) in this guide.

View call time and cellular usage. Go to Settings > Cellular. See [Cellular data settings](#) in this guide.

See more information about iPhone. Go to Settings > General > About. The items you can view include:

Name

Network addresses

Number of songs, videos, photos, and apps

Capacity and available storage space

iOS version

Carrier

Model number

Serial number

Wi-Fi and Bluetooth addresses

IMEI (International Mobile Equipment Identity)

ICCID (Integrated Circuit Card Identifier, or Smart Card) for GSM networks

MEID (Mobile Equipment Identifier) for CDMA networks

Modem firmware

Legal (including legal notices and license, warranty, and RF exposure information)

To copy the serial number and other identifiers, touch and hold the identifier until Copy appears.

To see regulatory marks, go to Settings > General > Regulatory.

View or turn off diagnostic information. Go to Settings > Privacy > Diagnostics & Usage.

To help Apple improve products and services, iPhone sends diagnostic and usage data. This data doesn't personally identify you, but may include location information.

Cellular data settings

To turn cellular data and roaming on or off, set which apps and services use cellular data, see call time and cellular data usage, and set other cellular options, go to Settings > Cellular.

Note: For help with cellular network services, voicemail, and billing, contact your wireless service provider.

If iPhone is connected to the Internet via the cellular data network, the LTE, 4G, 3G, E, or GPRS icon appears in the status bar.

LTE, 4G, and 3G service on GSM cellular networks support simultaneous voice and data communications. For all other cellular connections, you can't use Internet services while you're talking on the phone unless iPhone also has a Wi-Fi connection to the Internet. Depending on your network connection, you may not be able to receive calls while iPhone transfers data over the cellular network—when downloading a webpage, for example.

GSM networks: On an EDGE or GPRS connection, incoming calls may go directly to voicemail during data transfers. For incoming calls that you answer, data transfers are paused.

CDMA networks: On EV-DO connections, data transfers are paused when you answer incoming calls. On 1xRTT connections, incoming calls may go directly to voicemail during data transfers. For incoming calls that you answer, data transfers are paused.

Data transfer resumes when you end the call.

If Cellular Data is off, all data services use only Wi-Fi—including email, web browsing, push notifications, and other services. If Cellular Data is on, carrier charges may apply. For example, using certain features and services that transfer data, such as Siri and Messages, could result in charges to your data plan.

Turn Cellular Data on or off. Go to Settings > Cellular, then tap Cellular Data. The following options may also be available:

Turn Voice Roaming on or off (CDMA): Turn Voice Roaming off to avoid charges from using other carrier's networks. When your carrier's network isn't available, iPhone won't have cellular (data or voice) service.

Turn Data Roaming on or off: Data Roaming permits Internet access over a cellular data network when you're in an area not covered by your carrier's network. When you're traveling, you can turn off Data Roaming to avoid roaming charges.

Enable or disable 4G/LTE (varies by carrier): Using 4G or LTE loads Internet data faster in some cases, but may decrease battery performance. If you're making a lot of phone calls, you may want to turn 4G/LTE off to extend battery life. This option is not available in all areas. On iPhone SE, iPhone 6, iPhone 6 Plus, and later, there are options for turning off 4G/LTE or for selecting Voice & Data (VoLTE) or Data Only.

Voice & Data (some carriers): Choose LTE to load data faster. (This also turns on VoLTE.) Choose slower speeds to increase battery life.

Set up Personal Hotspot: Personal Hotspot shares the Internet connection on iPhone with your computer and other iOS devices. See [Personal Hotspot](#) in this guide.

Turn Wi-Fi Assist on or off: If Wi-Fi connectivity is poor, Wi-Fi Assist uses cellular data to boost the signal.

Note: Using data over a cellular network may incur additional fees.

Set whether cellular data is used for apps and services. Go to Settings > Cellular, then turn cellular data on or off for any app that can use cellular data. If a setting is off, iPhone uses only Wi-Fi for that service. The iTunes setting includes both iTunes Match and automatic downloads from the iTunes Store and the App Store.

For more information about GSM, CDMA, and LTE cellular data networks, see the Apple Support article [About cellular data networks](#).

VPN settings

A VPN (virtual private network) provides secure access over the Internet to private networks, such as the network at your organization. You may need to install a VPN app from the App Store that configures your iPhone to access a network. Contact your system administrator for information about the app and settings you need.

Sell or give away iPhone

Before you sell or give away your iPhone, see the Apple Support article [What to do before selling or giving away your iPhone, iPad, or iPod touch](#), and be sure to perform the following tasks:

If you paired an Apple Watch with your iPhone, unpair your Apple Watch. (See the Apple Support article [Unpair your Apple Watch and iPhone](#).)

[Back up](#) your iPhone.

[Erase all content and settings](#), which includes your personal information. If you turned on Find My iPhone, you might need to enter your Apple ID and password.

If you replace one iPhone with another, you can [use the setup assistant](#) to restore the older device's backup to your new iPhone.

Learn more, service, and support

Refer to the following resources to get more iPhone-related safety, software, and service information.

To learn about**Do this****Using iPhone safely**

See [Important safety information](#).

iPhone service and support, tips, forums, and Apple software downloads

Go to the [iPhone Support website](#).

Service and support from your carrier

Contact your carrier or go to your carrier's website.

The latest information about iPhone

Go to the [iPhone website](#).

Managing your Apple ID account

Sign in to your [Apple ID account page](#).

Using iCloud

Go to the [iCloud Help website](#).

Using iTunes

Open iTunes, then choose Help > iTunes Help. For an online iTunes tutorial (may not be available in all areas), go to the [iTunes Support website](#).

Using other Apple iOS apps

Go to the [iOS Apps Support website](#).

Finding your iPhone serial number, IMEI, ICCID, or MEID

You can find your iPhone serial number, International Mobile Equipment Identity (IMEI), ICCID, or Mobile Equipment Identifier (MEID) on the iPhone packaging. Or, on iPhone, choose Settings > General > About. For more information, go to the Apple Support article [Find the serial number and other information](#).

Obtaining warranty service

First follow the advice in this guide. Then go to the [iPhone Support website](#).

Viewing iPhone regulatory information

On iPhone, go to Settings > General > Regulatory.

Battery service

Go to the [Battery Service and Recycling website](#).

Using iPhone in an enterprise environment

Go to the [iPhone in Business website](#).

FCC regulatory statement

This device complies with part 15 of the FCC rules. Operation is subject to the following two conditions: (1) This device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation.

Note: This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses, and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- Reorient or relocate the receiving antenna.

- Increase the separation between the equipment and receiver.

- Connect the equipment to an outlet on a circuit different from that to which the receiver is connected.

- Consult the dealer or an experienced radio/TV technician for help.

Important: Changes or modifications to this product not authorized by Apple could void the electromagnetic compatibility (EMC) and wireless compliance and negate your authority to operate the product. This product has demonstrated EMC compliance under conditions that included the use of compliant peripheral devices and shielded cables between system components. It is important that you use compliant peripheral devices and shielded cables between system components to reduce the possibility of causing interference to radios, televisions, and other electronic devices.

Responsible party (contact for FCC matters only):

Apple Inc. Corporate Compliance

1 Infinite Loop, MS 91-1EMC

Cupertino, CA 95014

Canadian regulatory statement

This device complies with Industry Canada licence-exempt RSS standard(s). Operation is subject to the following two conditions: (1) this device may not cause interference, and (2) this device must accept any interference, including interference that may cause undesired operation of the device.

Operation in the band 5150–5250 MHz is only for indoor use to reduce the potential for harmful interference to co-channel mobile satellite systems.

Users are advised that high-power radars are allocated as primary users (i.e., priority users) of the bands 5250–5350 MHz and 5650–5850 MHz and that these radars could cause interference and/or damage to LE-LAN devices.

Le présent appareil est conforme aux CNR d'Industrie Canada applicables aux appareils radio exempts de licence. L'exploitation est autorisée aux deux conditions suivantes : (1) l'appareil ne doit pas produire de brouillage, et (2) l'utilisateur de l'appareil doit accepter tout brouillage radioélectrique subi, même si le brouillage est susceptible d'en compromettre le fonctionnement.

La bande 5 150 – 5 250 MHz est réservée uniquement pour une utilisation à l'intérieur afin de réduire les risques de brouillage préjudiciable aux systèmes de satellites mobiles utilisant les mêmes canaux.

Les utilisateurs êtes avisés que les utilisateurs de radars de haute puissance sont désignés utilisateurs principaux (c.-à-d., qu'ils ont la priorité) pour les bandes 5 250 – 5 350 MHz et 5 650 – 5 850 MHz et que ces radars pourraient causer du brouillage et/ou des dommages aux dispositifs LAN-EL.

CAN ICES-3 (B)/NMB-3(B)

Class 1 Laser Information

iPhone 7 and iPhone 7 Plus are classified as Class 1 Laser products per IEC60825-1:2007 and IEC60825-1:2014. These devices comply with 21 CFR 1040.10 and 1040.11 except for deviations pursuant to Laser Notice No. 50, dated June 24, 2007. These devices contain a laser that could be damaged during repair or disassembly, which could result in hazardous exposure to infrared laser emissions that are not visible. This equipment should be serviced by Apple or an authorized service provider.



CLASS 1 LASER PRODUCT

Apple and the environment

At Apple, we recognize our responsibility to minimize the environmental impacts of our operations and products. For more information, go to the [Apple and the Environment website](#).

Disposal and recycling information

Apple Recycling Program (available in some areas): For free recycling of your old device, a prepaid shipping label, and instructions, go to the [Recycling website](#).



This symbol indicates that this product and/or battery should not be disposed of with household waste. You must dispose of iPhone properly according to local laws and regulations. When iPhone reaches its end of life, contact local authorities to learn about disposal and recycling options, or simply drop it off at your local Apple Retail Store or return it to Apple. The battery will be removed and recycled in an environmentally friendly manner. For more information, go to the [Recycling website](#).

European Union—Disposal Information

The symbol above means that according to local laws and regulations your product and/or its battery shall be disposed of separately from household waste. When this product reaches its end of life, take it to a collection point designated by local authorities. The separate collection and recycling of your product and/or its battery at the time of disposal will help conserve natural resources and ensure that it is recycled in a manner that protects human health and the environment.

Brasil—Informações sobre descarte e reciclagem

O símbolo acima indica que este produto e/ou sua bateria não devem ser descartados no lixo doméstico. Quando decidir descartar este produto e/ou sua bateria, faça-o de acordo com as leis e diretrizes ambientais locais. Para informações sobre substâncias de uso restrito, o programa de reciclagem da Apple, pontos de coleta e telefone de informações, visite www.apple.com/br/environment.

Información sobre eliminación de residuos y reciclaje

El símbolo de arriba indica que este producto y/o su batería no debe desecharse con los residuos domésticos. Cuando decida desechar este producto y/o su batería, hágalo de conformidad con las leyes y directrices ambientales locales. Para obtener información sobre el programa de reciclaje de Apple, puntos de recolección para reciclaje, sustancias restringidas y otras iniciativas ambientales, visite www.apple.com/la/environment o www.apple.com/mx/environment.

Battery service: The lithium-ion battery in iPhone should be serviced by Apple or an authorized service provider, and must be recycled or disposed of separately from household waste. For more information about battery service and recycling, go to the [Battery Service and Recycling website](#).

Dispose of batteries according to your local environmental laws and guidelines.

Battery charger energy efficiency



Turkey environmental information

Türkiye Cumhuriyeti: AEEE Yönetmeliğine Uygundur.

Taiwan battery statement



廢電池請回收

警告：請勿戳刺或焚燒。此電池不含汞。

China battery statement

警告：不要刺破或焚燒。該電池不含水銀。

🍏 Apple Inc.

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Some apps are not available in all areas. App availability is subject to change.