


*Note:* If you've been using an earlier version of Reminders, you may need to upgrade your iCloud reminders to use features such as attachments, flags, subtasks, grouped lists, list colors and icons, and more. To upgrade, tap the Upgrade button next to your iCloud account in Reminders. (You may need to tap Lists at the top left to see your iCloud account.)

Also note the following:






- Upgraded reminders are not backward compatible with the Reminders app in earlier versions of iOS and macOS.
- Until iPadOS 13 and macOS Catalina are available, your iPad and Mac using the same iCloud account can't access your reminders if you upgrade them on your iPhone.

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## Add a reminder

 **Ask Siri.** Say something like: "Add artichokes to my groceries list." [Learn how to ask Siri.](#)

Or do the following in a list:

1. Tap New Reminder, then enter text.
2. Use the quick toolbar above the keyboard to do any of the following:
  - *Schedule a date or time:* Tap , then choose a date for an all-day reminder or tap Custom to set a date and time for the notification.
  - *Add a location:* Tap , then choose where you want to be reminded—for example, when you leave work or arrive at home.
  - *Set a flag:* Tap  to mark an important reminder.
  - *Attach a photo or scanned document:* Tap , then take a new photo, choose an existing photo from your photo library, or scan a document.
3. To add more details to the reminder, tap , then do any of the following:
  - *Add notes:* In the Notes field, enter more info about the reminder.
  - *Add a web link:* In the URL field, enter a web address. Reminders displays the link as a thumbnail that you can tap to go to the website.
  - *Get a reminder when chatting with someone in Messages:* Turn on "Remind me when messaging," then choose someone from your contacts list. The reminder appears the next time you chat with that person in Messages.
  - *Set a priority:* Tap Priority, then choose an option.


4. Tap Done.

 **Tip:** With OS X 10.10 or later, you can [hand off reminders](#) you're editing between your Mac and iPhone.

---

### Mark a reminder as complete

Tap the empty circle next to the reminder.


Completed reminders are hidden the next time you view the list. To unhide completed reminders, tap , then tap Show Completed.

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### Move or delete reminders

- *Reorder reminders in a list:* Touch and hold a reminder you want to move, then drag it to a new location.
- *Make a subtask:* Swipe right on the reminder, then tap Indent. Or drag a reminder onto another reminder.


If you delete or move a parent task, the subtasks are also deleted or moved. If you complete a parent task, the subtasks are also completed.

- *Move a reminder to a different list:* Tap the reminder, tap , tap List, then choose a list.
- *Delete a reminder:* Swipe left on the reminder, then tap Delete.


To recover a deleted reminder, shake to undo or swipe left with three fingers.

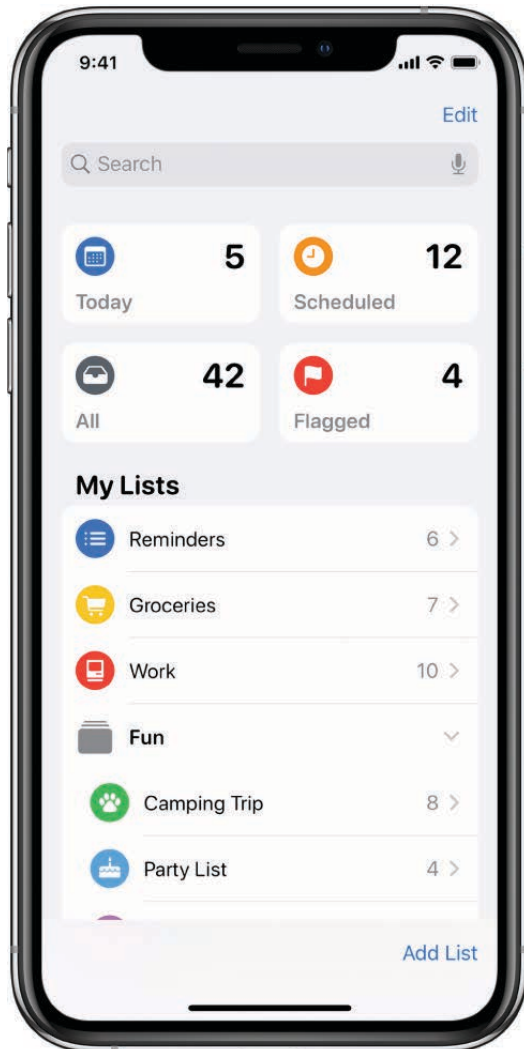
---

### Change your Reminders settings

1. Go to Settings  > Reminders.
  2. Choose options such as the following:
    - *Default List:* Choose the list for new reminders you create outside of a specific list, such as reminders you create using Siri.
    - *Today Notification:* Set a time to show notifications in Today view for all-day reminders that have been assigned a date without a time.
    - *Show Reminders as Overdue:* The scheduled date turns red for overdue all-day reminders.
-

# Organize reminders in lists on iPhone

In the Reminders app , you can search your reminders and organize them in lists and groups.



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## Search reminders

Swipe down on the reminder lists to reveal the search field, then enter the text you're looking for.

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## Use smart lists

You can automatically track and organize upcoming reminders with smart lists. Below the search field, tap any of the following:

- *Today*: See reminders scheduled for today and overdue reminders.
- *Scheduled*: See reminders scheduled by date or time.
- *Flagged*: See reminders flagged as important.


- *All*: See all your reminders across every list.
- 

## Create reminder lists and groups

You can organize your reminders into lists and groups of lists such as work, school, or shopping. Do any of the following:

- *Create and customize a new list*: Tap Add List, enter a name, then choose a color and symbol for the list.
  - *Create a group of lists*: Tap Edit, tap Add Group, enter a name, then tap Create. Or drag a list onto another list.
  - *Move and reorder lists*: Touch and hold a list, then drag it to a new location. You can even move it to a different group.
  - *Edit a list or group*: Swipe left on the list or group, then tap ⓘ. You can change the color and symbol of a list.
  - *Delete a list or group and their reminders*: Swipe left on the list or group, then tap 🗑️.
- 


## Share reminders and collaborate on iPhone

In the Reminders app , use iCloud to share reminder lists and collaborate with anyone who is signed in to iCloud.

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### Share a list using iCloud


You can share a list and collaborate with people who also have an iCloud account. People who accept the invitation can add and edit reminders, and mark reminders as completed.

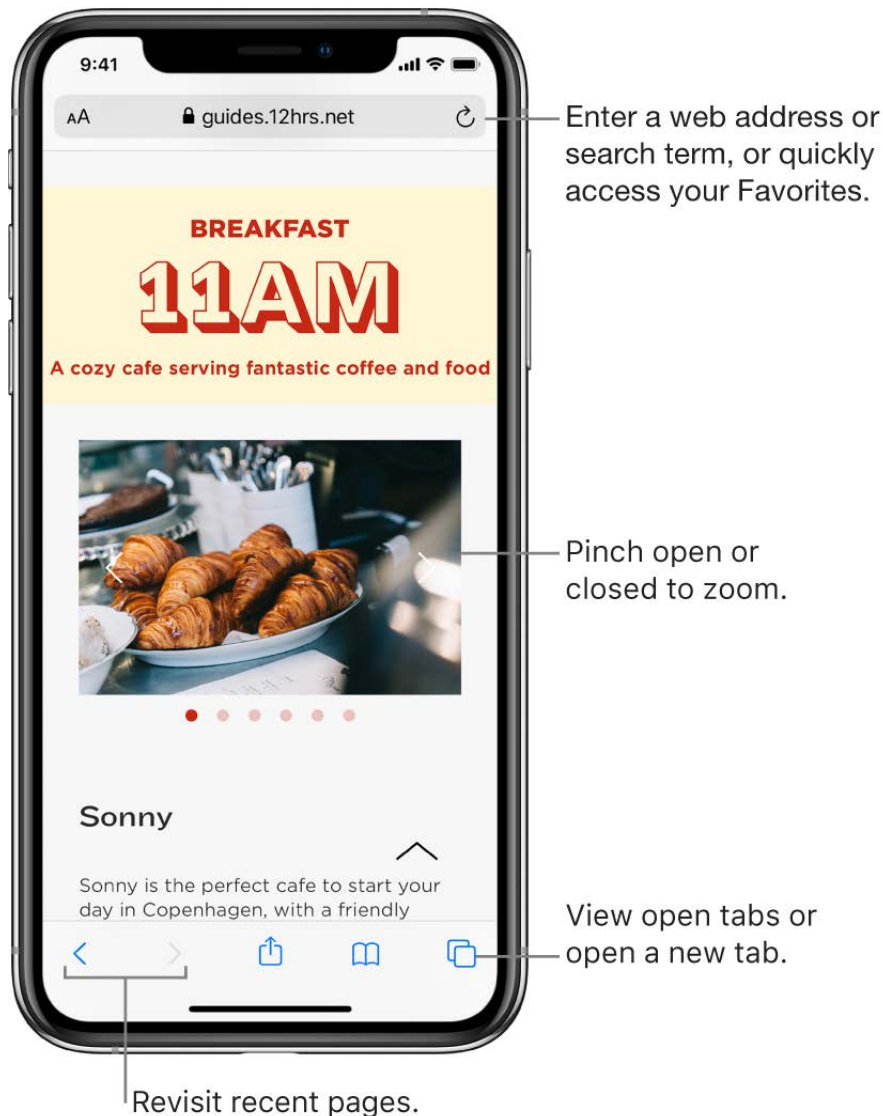
1. While viewing a list, tap , then tap Add People.
  2. Enter one or more email addresses, then tap Add.
-

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# Safari

## Browse the web using Safari on iPhone



With the Safari app , you can browse the web, add webpages to your reading list to read later, and add page icons to the Home screen for quick access. If you sign in to iCloud with the same Apple ID on all your devices, you can see pages you have open on other devices, and keep your bookmarks, history, and reading list up to date on all your devices.



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## View websites with Safari

You can easily navigate a webpage with a few taps.

- *Get back to the top:* Double-tap the top edge of the screen to quickly return to the top of a long page.
  - *See more of the page:* Turn iPhone to landscape orientation.
  - *Refresh the page:* Tap  next to the address in the search field.
  - *Share links:* Tap .
- 

### **Change text size, display, and website settings**

Use the View menu to increase or decrease the text size, switch to Reader view, specify privacy restrictions, and more.

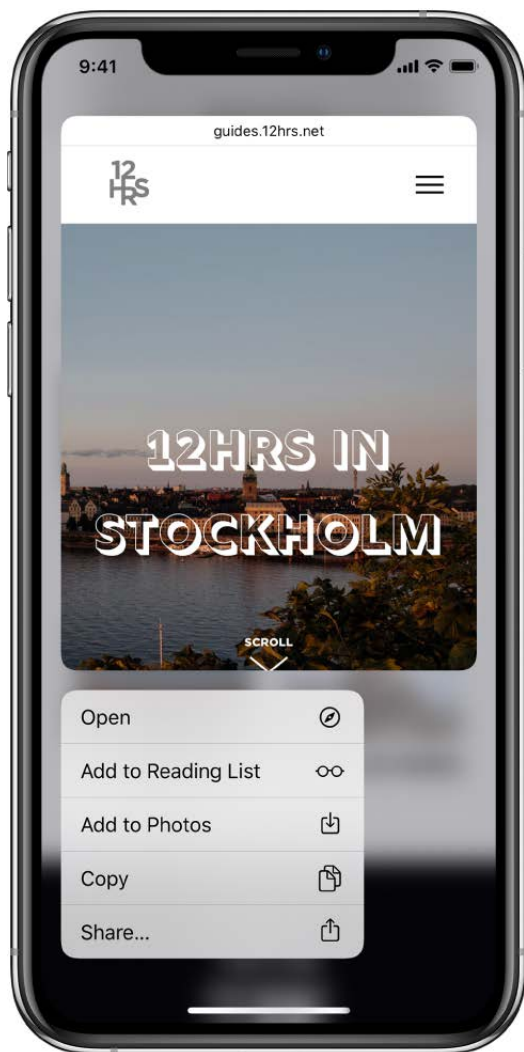
To open the View menu, tap  on the left side of the search field, then do any of the following:

- *Change the font size:* Tap the large A to increase the font size or tap the small A to decrease it.
  - *View the webpage without ads or navigation menus:* Tap Show Reader View (if available).
  - *Hide the search field:* Tap Hide Toolbar (tap the top of the screen to get it back).
  - *View the desktop version of the webpage:* Tap Request Desktop Website (if available).
  - *Set display and privacy controls for each time you visit this website:* Tap Website Settings.
- 

### **Preview website links**

Touch and hold a link in Safari to see a preview of the link without opening the page. To open the link, tap the preview window, or choose another option.

To close the preview and stay on the current page, tap anywhere outside the preview window.



Touch and hold a link to see the URL and these options.

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## Search for websites using Safari on iPhone


In the Safari app , enter a URL or a search term to find websites or specific information.

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## Search the web

1. Enter a search term, phrase, or URL in the search field at the top of the page.
2. Tap a search suggestion, or tap Go on the keyboard to search for exactly what you typed.



If you don't want to see suggested search terms, go to Settings  > Safari, then turn off Search Engine Suggestions (below Search).

---

## Find websites you visited before

Safari search suggestions include your open tabs, bookmarks, and pages you recently visited. For example, if you search for "iPad," the search suggestions below Switch to Tab include your open tabs related to "iPad." Websites related to "iPad" that you bookmarked or recently visited appear below Bookmarks and History.

---


## Search within websites

To search within a website, enter a website followed by a search term in the search field. For example, enter "wiki einstein" to search Wikipedia for "einstein."

To turn this feature on or off, go to Settings  > Safari > Quick Website Search.

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## See your favorites when you enter an address, search, or create a new tab

Go to Settings  > Safari > Favorites, then select the folder with the favorites you want to see.


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## Search the page

You can find a specific word or phrase on a page.

1. Tap , then tap Find on Page.




2. Enter the word or phrase in the search field.
  3. Tap  to find other instances.
- 

### Choose a search engine

Go to Settings  > Safari > Search Engine.

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## Use tabs in Safari on iPhone

In the Safari app , use tabs to help you navigate between multiple open webpages.

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### Open a link in a new tab


Touch and hold the link, then tap Open in New Tab. Or, tap the link with two fingers.

To stay on the current tab whenever you open a link in a new tab, go to Settings  > Safari > Open Links, then tap In Background.

---

### Browse open tabs

Tap  to view all your open tabs. Then do any of the following:

- *Close a tab:* Tap  in the upper-left corner, or swipe left on the tab.
- *View a single tab again:* Tap a tab, or tap Done.

 **Tip:** To see a tab's history, touch and hold  or .

---

### Reopen a recently closed tab

Tap , touch and hold , then choose from the list of recently closed tabs.


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### Show or hide the tab bar

Go to Settings  > Safari, then turn Show Tab Bar on or off.

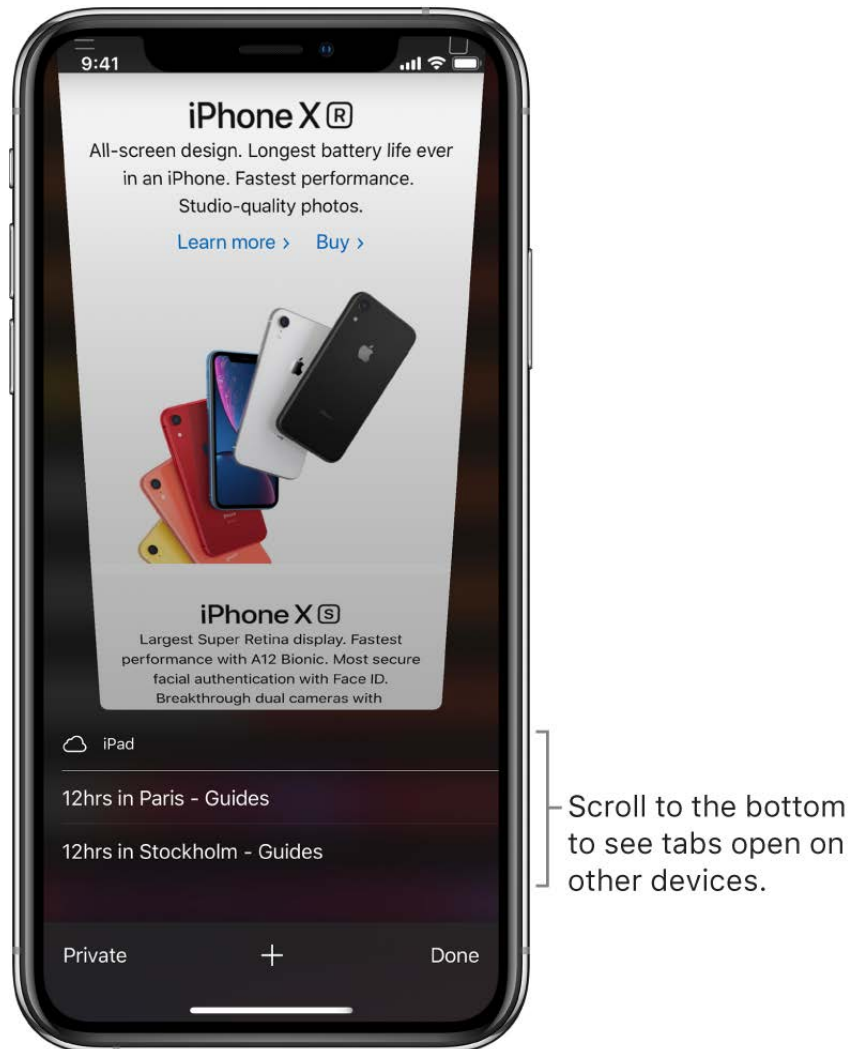
---

## View tabs that are open on your other devices

1. Sign in with your Apple ID on all your devices.
2. Go to Settings  > [your name] > iCloud, then turn on Safari.

*Note:* To also see tabs open on your Mac, you must have Safari selected in iCloud preferences on your Mac and be signed in with the same Apple ID.

3. Tap , then scroll to the list at the bottom.

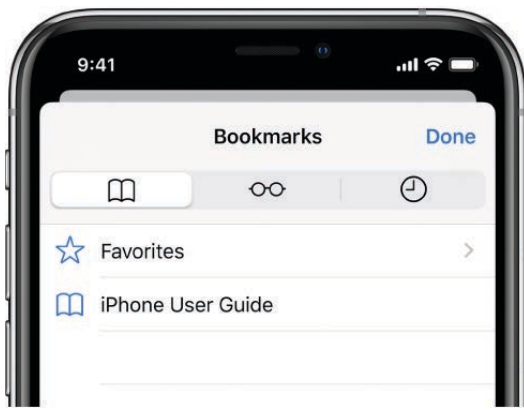


To close a tab in the list, swipe left, then tap Close.

---


## Bookmark favorite webpages in Safari on iPhone

In the Safari app , bookmark websites and add them to Favorites to easily revisit later.



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### Bookmark the current page

Touch and hold , then tap Add Bookmark.

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### View and organize your bookmarks

Tap , then tap the Bookmarks tab.

To create a new folder or to delete, rename, or reorder bookmarks, tap Edit.

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### See your Mac bookmarks on iPhone


Go to Settings  > [your name] > iCloud, then turn on Safari.

*Note:* You must also have Safari selected in iCloud preferences on your Mac and be signed in with the same Apple ID.

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### Add a webpage to your favorites

Open the page, tap , then tap Add to Favorites.

To edit your favorites, tap , tap the Bookmarks tab, tap Favorites, then tap Edit to delete, rename, or rearrange your favorites.

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### Quickly see your favorite and frequently visited sites

Tap the search field to see your favorites. Scroll down to see frequently visited sites.

*Note:* To avoid seeing a list of these sites, go to Settings  > Safari, then turn off Frequently Visited Sites.

---

### Add a website icon to your iPhone Home screen


You can add a website icon to your iPhone Home screen for quick access to that site.

From the website, tap , then tap Add to Home Screen.

The icon appears only on the device where you add it.

---


## Save pages to a reading list in Safari on iPhone

In the Safari app , save interesting items in your reading list so you can revisit them later. You can even save the items in your reading list to iCloud and read them later when you're not connected to the Internet.

---

### Add the current page to your reading list

Tap , then tap Add to Reading List.

 **Tip:** To add a linked page without opening it, touch and hold the link, then tap Add to Reading List.

---

### View your reading list

Tap , then tap .

To delete an item from your reading list, swipe the item to the left.


---

### Automatically save all reading list items to iCloud for offline reading

Go to Settings  > Safari, then turn on Automatically Save Offline (below Reading List).



---

## Automatically fill in forms in Safari on iPhone

In the Safari app , use AutoFill to automatically fill in credit card information, contact information, and user names and passwords.

---

### Fill in a form

1. Tap a field to bring up the keyboard.
2. Tap  or  above the keyboard to move from field to field.

---


### Fill in your contact information automatically

When you fill in contact information on a website that supports AutoFill, tap AutoFill Contact above the keyboard.

Tap Customize to edit and store your information for next time. Or, tap Other Contact to fill in someone else's information.

---

## Add a credit card for purchases

1. Go to Settings  > Safari > AutoFill > Saved Credit Cards > Add Credit Card.
2. To enter the information without typing, tap Use Camera, then position iPhone so that your card appears in the frame.

You can also save the credit card information when you make an online purchase. See [Set up iCloud Keychain on iPhone](#).

---

## Use your credit card information

1. When you fill in credit card information, tap AutoFill Credit Card above the keyboard.
2. Enter your card's security code (for security purposes, this code isn't stored—you must enter it manually each time you use a card).

For greater security of your credit card information, [use a passcode](#) for iPhone.

---


## Submit a form

Tap Go, Search, or the link on the webpage.


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## Turn off AutoFill

You can turn off AutoFill for your contact or credit card information, and for passwords.

- *Turn off AutoFill for your contact or credit card information:* Go to Settings  > Safari > AutoFill, then turn off either option.
  - *Turn off AutoFill for passwords:* Go to Settings > Passwords & Accounts, then turn off AutoFill Passwords.
- 

## Hide ads and distractions in Safari on iPhone

In the Safari app , use Reader view to hide ads, navigation menus, or other distracting items.

Tap to view the page in Reader.



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### Show Reader view

Reader view formats a webpage to show just the relevant text and images.

Tap **A** at the left end of the address field, then tap Show Reader View.

To return to the full page, tap **A**, then tap Hide Reader View.

*Note:* If Show Reader View is dimmed in the **A** window, Reader view isn't available for that page.

---

### Automatically use Reader view for a website


1. On a supported website, tap **A**, then tap Website Settings.
  2. Turn on Use Reader Automatically.
-

## Block pop-ups

Go to Settings  > Safari, then turn on Block Pop-ups.


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## Browse privately in Safari on iPhone

You can adjust settings in the Safari app  to keep your browsing activities private and protect yourself from malicious websites.

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### Control privacy and security settings for Safari

Go to Settings  > Safari, then below Privacy & Security, turn any of the following on or off:

- *Prevent Cross-Site Tracking*: Safari limits third-party cookies and data by default. Turn this option off to allow cross-site tracking.
- *Block All Cookies*: To prevent websites from adding cookies to your iPhone, go to Settings > Safari, then turn on Block All Cookies. (To remove cookies already on iPhone, go to Settings > Safari > Clear History and Website Data.)
- *Fraudulent Website Warning*: Safari displays a warning if you're visiting a suspected phishing website. Turn this option off if you don't want to be warned of fraudulent websites.
- *Check for Apple Pay*: Websites that use Apple Pay can check to see if you have Apple Pay enabled on your device. Turn this option off to prevent websites from checking if you have Apple Pay.

When you visit a website using Safari that isn't secure, a warning appears in the Safari search field.


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### Erase your browsing history and data


Go to Settings  > Safari > Clear History and Website Data.

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### Visit sites without making history


Tap , then tap Private.

While Private Browsing Mode is on, the Safari background is black instead of white, and sites you visit don't appear in History on iPhone or in the list of tabs on your other devices.

To hide the sites and exit Private Browsing Mode, tap , then tap Private again. The sites reappear the next time you use Private Browsing Mode.


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# Use Shortcuts to automate tasks on iPhone

The Shortcuts app  lets you automate tasks you do often with just a tap or by asking Siri. Create shortcuts to get directions to the next event in your Calendar, move text from one app to another, and more. Choose ready-made shortcuts from the Gallery or build your own using different apps to run multiple steps in a task.

To learn more, see the [Shortcuts User Guide](#).

## Check stocks on iPhone


Use the Stocks app  to track market activity, view the performance of stocks you follow, and get the latest business news.

 **Ask Siri.** Say something like: “How are the markets doing?” or “How’s Apple stock today?” [Learn how to ask Siri](#).

---

### Manage your watchlist

Add the stocks you follow to your watchlist to quickly view price, price change, percentage change, and market capitalization values.

- *Add a symbol to your watchlist:* In the search field, enter a stock symbol, company name, fund name, or index. Tap the symbol you want to add in the search results, then tap Add to Watchlist.
- *Delete a symbol:* Swipe left on the symbol in your watchlist, then tap Remove.
- *Reorder symbols:* Tap Edit at the top of the screen. Touch and hold  to drag a symbol up or down, then tap Done.

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### View stock charts, details, and news

Tap a stock symbol in your watchlist to view an interactive chart, additional details, and related news stories.

- *See the performance of a stock over time:* Tap an option from the time range selections at the top of the chart.
- *See the value for a specific date or time:* Touch and hold the chart with one finger.
- *See the difference in value over time:* Touch and hold the chart with two fingers.
- *See more details:* Swipe the data below the chart to see additional stock details like 52-week high and low, Beta, EPS, and average trading volume.




- *Read news:* Swipe up to see additional news stories, then tap a story.

To return to your watchlist, tap .

---

### **View your watchlist across devices**

You can view your watchlist across your iPhone, iPad, iPod touch, and Mac when you're signed in with the same Apple ID.

On your iPhone, iPad, and iPod touch, go to Settings  > [your name] > iCloud, then turn on Stocks. On your Mac, go to System Preferences > iCloud, then turn on Stocks.

---

### **Read business news**

Swipe up on Top Stories to view articles selected by Apple News editors that highlight the current news driving the market. Swipe up to see articles about companies in your watchlist grouped by ticker symbol (in the U.S., U.K., and Australia only), including Apple News+ content for subscribers (in the U.S. and Canada only; see [Subscribe to Apple News+ on iPhone](#)).

Stories from publications you have blocked in Apple News don't appear in the news feed. See [View news stories chosen just for you](#).

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## **Get tips on iPhone**

In the Tips app , see collections of tips that help you get the most from iPhone.

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### **Get Tips**

In the Tips app, tap a collection to learn how to take better photos, use dictation, create a custom radio station, and much more.

New tips are added frequently.

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### **Get notified when new tips arrive**

1. Go to Settings , then tap Notifications.
  2. Tap Tips below Notification Style, then turn on Allow Notifications.
  3. Choose options for the location and style of tip notifications, when they should appear, and so on.
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# TV

## Set up the Apple TV app on iPhone

The Apple TV app  brings your favorite shows, movies, sports, and live news into one app. You can watch content from popular streaming services and leading cable providers as well as purchase or rent movies and TV shows. You can easily subscribe to Apple TV channels such as HBO and Showtime. The Apple TV app is on your iPhone, iPad, iPod touch, Mac, Apple TV, and supported smart TVs, so you can watch at home or wherever you go.

*Note:* The availability of Apple TV channels and supported apps varies by country or region. See the Apple Support article [Availability of supported apps in the Apple TV app](#).

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### Subscribe to Apple TV channels

If you subscribe to Apple TV channels (such as HBO and Showtime), you can stream the ad-free content on demand or download it to watch offline. If you [use Family Sharing](#), up to five other family members can share your subscriptions for no additional charge.

1. Tap Watch Now, then scroll down to browse the available channels.
2. To start a free trial, tap Try It Free.

Each channel provides one trial per subscriber or per family. If you previously used your trial, you have the option to resubscribe.


3. Review the subscription details, then confirm with Face ID, Touch ID, or your Apple ID.

After you subscribe to a channel, you can browse its content in the Apple TV Channels row. Channels you subscribe to are shown first in this row.

---

### Add your cable or satellite service to the Apple TV app

Single sign-on provides immediate access to all the supported video apps in your subscription package.

1. Go to Settings  > TV Provider.
2. Choose your TV provider, then sign in with your provider credentials.

If your TV provider isn't listed, sign in directly from the app you want to use.


---

## Connect supported apps to the Apple TV app

The Apple TV app recommends new content or the next episode in a series you watched. The first time you play content from a supported app, tap Connect to allow the connection to the Apple TV app.

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## Manage your connected apps and subscriptions

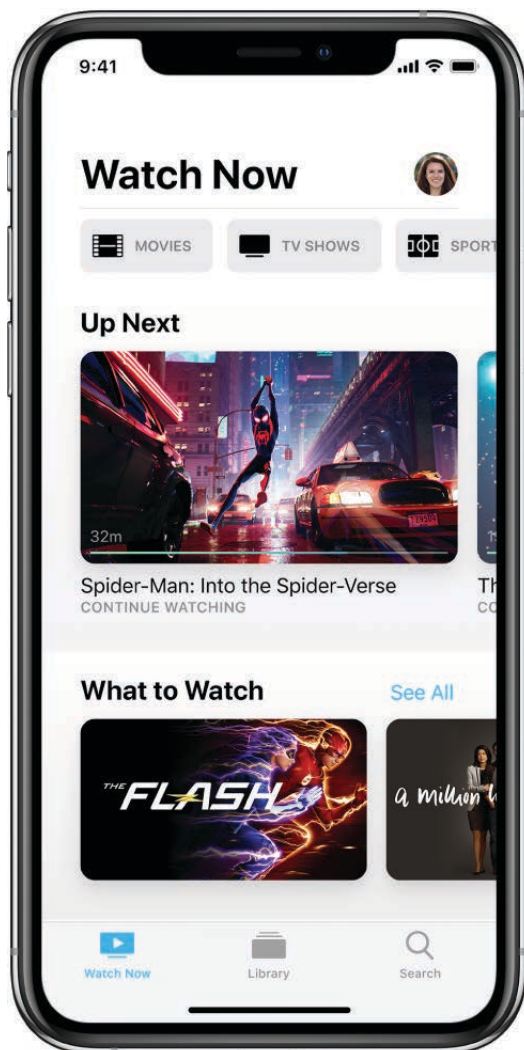
1. Tap Watch Now, then tap  or your profile picture at the top right.
2. Tap any of the following:
  - *Connected Apps*: Turn apps on or off.

Connected apps appear in the Apple TV app on all your devices where you're signed in with your Apple ID.

- *Manage Subscriptions*: Tap a subscription to change or cancel it.
  - *Clear Play History*: Remove your viewing history from all your Apple devices.
- 

## Find movies, shows, and more in the Apple TV app on iPhone

The Apple TV app  brings your favorite shows, movies, sports, and live news together in one place. Quickly find and watch your favorites, pick up where you left off with Up Next, or discover something new—personalized just for you.



[Spider-Man: Into the Spider-Verse](#) is available on the Apple TV app

---

## Discover content

In the Apple TV app, tap Watch Now, then do any of the following:

- *See what's up next:* In the Up Next row, you can find content you recently added, the next episode in a series you've been watching, and content you haven't finished.
- *Browse by category:* Tap a category such as Movies, TV Shows, Sports, or Kids.
- *Get recommendations:* Browse the What to Watch row for editorial recommendations that are personalized for you. Many rows throughout the app featured personalized recommendations based on your channel subscriptions, supported apps, purchases, and content you recently watched.
- *Browse Apple TV channels:* Scroll down to browse Apple TV channels you subscribe to. In the Apple TV channels row, browse other available channels, then tap a channel to explore its content.

- *Watch live news:* (available in select regions) Tap TV shows at the top, scroll down to the News row, then choose a news channel.
- 

### **Search for a title, sport, team, cast member, or Apple TV channel**

Tap Search, then enter what you're looking for in the search field.


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### **Explore sports (U.S. and Canada only)**

You can browse by sport or league, watch games, and get live scores and notifications for close games.


1. Tap Watch Now, then tap Sports at the top.
2. Do any of the following:
  - *Browse by sport:* Scroll down to browse the events of many sports, such as football, baseball, and basketball. To narrow your browsing, scroll down, then choose a sport.
  - *Watch a game:* Tap the game.
  - *Choose your favorite teams:* Scroll to the bottom, then tap Your Favorite Teams.

Their games automatically appear in Up Next, and you'll receive notifications about your favorite teams.


To hide the scores of live games, go to Settings  > TV, then turn off Show Sports Scores.

---

### **Use the Up Next queue**

- *Add an item to Up Next:* Tap the item to see its details, then tap .
  - *Remove an item from Up Next:* Touch and hold the item, then tap Remove from Up Next.
  - *Continue watching on another device:* You can see your Up Next queue in Watch Now on your iPhone, iPad, iPod touch, Mac, Apple TV, or supported smart TV where you're signed in with your Apple ID.
-

# Watch content in the Apple TV app on iPhone


Start playing content from the Apple TV app  on iPhone. Purchases, rentals, and content from Apple TV channels play in the Apple TV app, while content from other providers plays in their video app.

---

## Watch content

1. Tap an item to see its details.
2. Choose any of the following options (not all options are available for all titles):
  - *Watch an Apple TV channel:* Tap Play. If you're not a current subscriber, tap Try It Free or Subscribe.
  - *Watch with the suggested video app:* Tap Open In.
  - *Choose a different video app:* If the content is available from multiple providers, scroll down to How To Watch, then choose a provider.
  - *Buy or rent:* Tap Buy or Rent, then complete the payment.

When you rent a movie, you have 30 days to start watching it. After you start watching the movie, you can play it as many times as you want for 48 hours, after which the rental period ends. When the rental period ends, the movie is deleted.

- *Download the content:* Tap . You can find the download in Library and watch it even when iPhone isn't connected to the Internet.

*Note:* The availability of Apple Media Services varies by country or region. See the Apple Support article [Availability of Apple Media Services](#).









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## Control playback in the Apple TV app


During playback, tap the screen to show the controls.



[Spider-Man: Into the Spider-Verse](#) is available on the [Apple TV app](#)

Control	Description
	Play
	Pause
	Skip backward 15 seconds; touch and hold to rewind
	Skip forward 15 seconds; touch and hold to fast-forward
	Change the aspect ratio; if you don't see the scaling control, the video already fits the screen perfectly
	<a href="#">Display subtitles and closed captions</a> (not available for all content)
	<a href="#">Stream the video to other devices</a>
	Stop playback

## Change the Apple TV app settings

1. Go to Settings  > TV.
2. Do any of the following:
  - *Limit playback to Wi-Fi connections:* Tap iTunes Videos, then turn off Use Cellular Data for Playback.
  - *Choose the video quality:* Tap iTunes Videos. Below Playback Quality, tap Wi-Fi or Cellular, then choose Best Available or Good.

High-quality playback requires a faster Internet connection and uses more data.

- *Update your recommendations and Up Next queue based on what you watch on your iPhone:* Turn on Use Play History.

What you watch on your iPhone affects your personalized recommendations and Up Next on all your devices where you're signed in with your Apple ID.

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## Remove a download


1. Tap Library, then tap Downloaded.
2. Swipe left on the item you want to remove, then tap Delete.

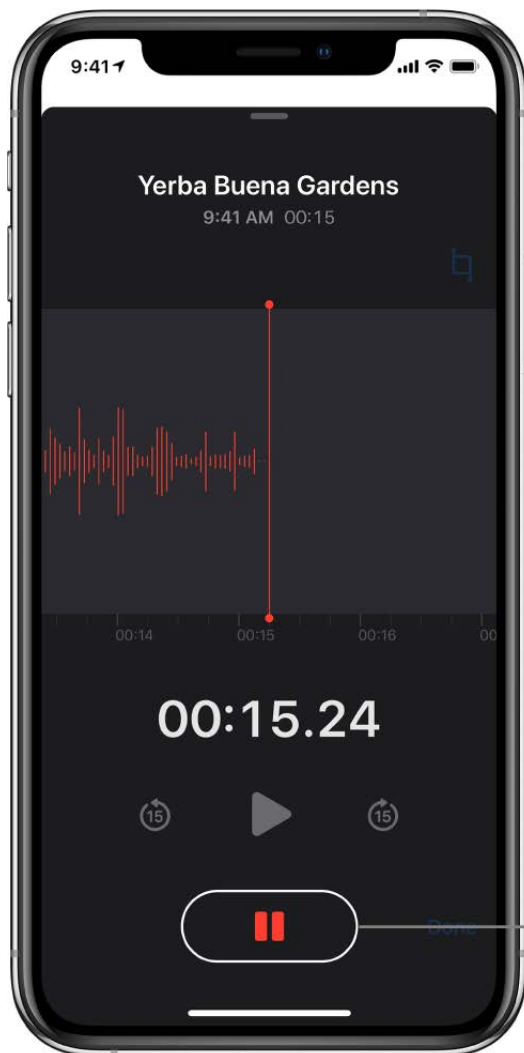
Removing content from iPhone doesn't delete it from your purchases in iCloud. You can download the content to iPhone again later.



# Voice Memos

## Make a recording in Voice Memos on iPhone


With the Voice Memos app  (located in the Utilities folder), you can use iPhone as a portable recording device to record personal notes, classroom lectures, musical ideas, and more. You can fine-tune your recordings with editing tools like trim, replace, and resume. Use Voice Memos with the built-in microphone, an iPhone or Bluetooth headset mic, or a supported external microphone. With Voice Memos in iCloud, you can capture audio anywhere with your iPhone, iPad, iPod touch, Apple Watch, or your Mac. You can open a recording on your Mac to edit and share recordings, use them in other media, and so on.



Tap to pause recording.


---

## Make a basic recording

1. To begin recording, tap , or press the center button on the included EarPods or other compatible headset.

To adjust the recording level, move the microphone closer to or farther from what you're recording.

2. Tap  to finish recording.


Your recording is saved with the name New Recording or the name of your location, if [Turn on Location Services](#) is turned on in Settings  > Privacy. To change the name, tap the recording, then tap the name and type a new one.

To fine-tune your recording, see [Edit a recording in Voice Memos](#).

---

## Use the advanced recording features


You can make a recording in parts, pausing and resuming as you record.


1. To begin recording, tap , or press the center button on the included EarPods or other compatible headset.

To adjust the recording level, move the microphone closer to or farther away from what you're recording. For better recording quality, the loudest level should be between -3 dB and 0 dB.


To see more details while you're recording, swipe up from the top of the waveform.

2. Tap  to stop recording; tap Resume to continue.

3. To review your recording, tap .

To change where playback begins, drag the waveform left or right across the playhead before you tap .

4. To save the recording, tap Done.

Your recording is saved with the name New Recording or the name of your location, if [Turn on Location Services](#) is turned on in Settings  > Privacy. To change the name, tap the recording, then tap the name and type a new one.

To fine-tune your recording, see [Edit or delete a recording in Voice Memos](#).

---

## Mute the start and stop tones

While recording, use the iPhone volume down button to turn the volume all the way down.

---

## Use another app while recording

While you're recording, you can use another app, as long as it doesn't play audio on your device. If the app starts playing audio, Voice Memos stops recording.

1. While recording in Voice Memos, you can go to the Home screen and open another app.

*Note:* During recording, Voice Memos will record any sounds produced by you or the movement of your device while you're using the other app.

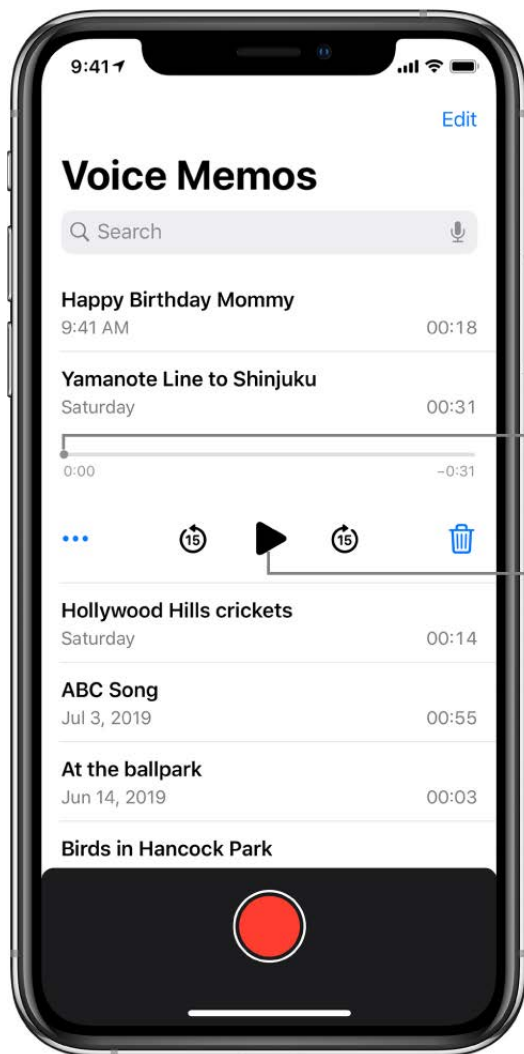
2. To return to Voice Memos, tap the red bar or the little red icon at the top of the screen.
- 

If [Voice Memos is turned on in iCloud settings](#), your recording is saved in iCloud and shows up automatically on all your devices where you're signed in with the same Apple ID.

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.

## Play a recording in Voice Memos on iPhone

In the Voice Memos app , tap a recording and use the playback controls to listen to it.



Drag to go to a specific place in the recording.

Tap to play.



Play



Pause



Skip back 15 seconds




Skip forward 15 seconds



**Tip:** While the recording is open, you can tap its name to rename it.

## Edit or delete a recording in Voice Memos on iPhone

In the Voice Memos app , you can use the editing tools to fine-tune your recordings. You can remove parts you don't want, record over parts, or replace an entire recording. You can also delete a recording you no longer need.

---

## Trim the excess

1. In the Voice Memos list, tap the recording you want to edit, tap **⋮**, then tap Edit Recording.
2. Tap **□** at the top right, then drag the yellow trim handles to enclose the section you want to keep or delete.

You can pinch open to zoom in on the waveform for more precise editing.




Drag the yellow trim handles or the waveform to select a section of the recording.

To check your selection, tap **▶**.

3. To keep the selection (and delete the rest of the recording), tap Trim, or to delete the selection, tap Delete.
  4. Tap Save, then tap Done.
-


## Replace a recording

1. In the Voice Memos list, tap the recording you want to replace, tap , then tap Edit Recording.
2. Drag the waveform to position the playhead where you want to start recording new audio.

You can pinch open to zoom in on the waveform for more precise placement.

3. Tap Replace or press the center button on the included EarPods or other compatible headset to begin recording (the waveform turns red while you're recording).


Tap  to pause; tap Resume to continue.


4. To check your recording, tap .
5. Tap Done to save the changes.

---

## Delete a recording

Do one of the following:


- In the Voice Memos list, tap a recording, then tap .
- Tap Edit at the top of the Voice Memos list, select one or more recordings, then tap Delete.

Deleted recordings move to the Recently Deleted folder in the Voice Memos list, where they're kept for 30 days by default. To change how long deleted recordings are kept, go to Settings  > Voice Memos > Clear Deleted, then select an option. To erase a recording in the Recently Deleted folder, swipe left on the recording, then tap Erase.

To recover a deleted recording, tap the Recently Deleted folder, tap the recording, then tap Recover. To recover or erase everything in the Recently Deleted folder, tap Edit above the Voice Memos list, then tap Recover All or Erase All.

---

## Search for or rename a recording in Voice Memos on iPhone


You can search for your recordings in the Voice Memos app , and rename any recording.

---

### Search for a recording

1. In the Voice Memos list, swipe down to reveal the search field.
  2. Tap the search field, enter part or all of the recording name, then tap Search.
-


## Rename a recording

A recording is initially saved with the name New Recording or the name of your location, if [Location Services](#) is turned on in Settings  > Privacy.

To change the name, tap the recording, tap the name, then type a new one.



---

## Share and sync recordings in Voice Memos on iPhone

In the Voice Memos app , you can share individual recordings, save them in iCloud so they're available on your other devices, and sync them with your iTunes library on your computer.

---

### Share a recording

1. In your Voice Memos list, tap a saved recording.
  2. Tap .
  3. Tap , then choose a sharing option, or save the recording.
- 

### Use Voice Memos in iCloud

Go to Settings  > [your name] > iCloud, then turn on Voice Memos.

With Voice Memos, your audio recordings are updated across all your devices where you're signed in with the same Apple ID and Voice Memos is turned on in iCloud settings or preferences (they appear in your Voice Memos list). You can use your iPhone, iPad, Pod touch, or Mac to capture audio, then use your Mac to edit your recordings, incorporate them in other media, share them, and so on.

---

### Sync recordings with iTunes

If you choose not to sync your Voice Memos using iCloud, you can sync them to your computer using iTunes.


1. Connect iPhone to your computer.
2. Open iTunes on your computer, then select your iPhone near the top-left corner.
3. Click Music in the sidebar.
4. Select Sync Music, make sure Include Voice Memos is selected, then click Sync.

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


---

---

## Duplicate a recording in Voice Memos on iPhone

In the Voice Memos app , you can duplicate a recording, which is useful when you need a different version of it. You can make changes to the duplicate, save it, and [give it a new name](#).

---

In the Voice Memos list, tap a recording, tap , then tap Duplicate.

The copy appears right below the original version in the list and has “copy” added to its name. You can tap the name and type a new one.

---

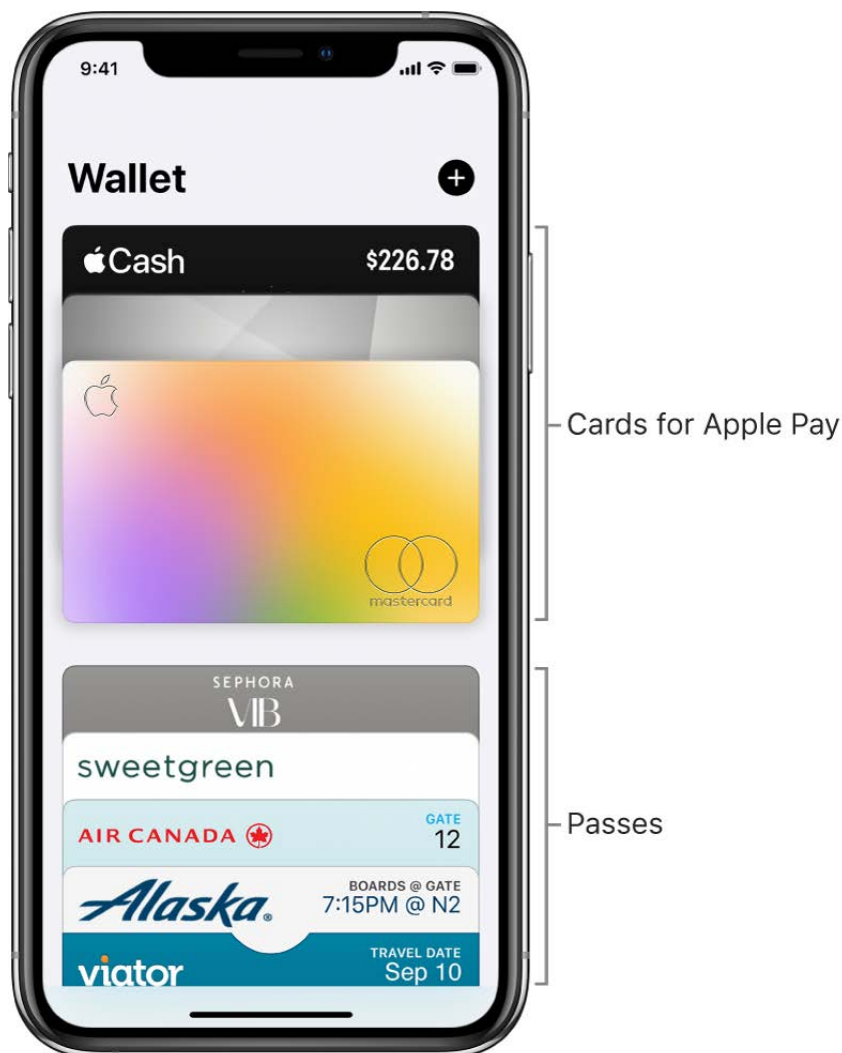


# Wallet

## Keep cards and passes in Wallet on iPhone


Use the Wallet app  to keep cards and passes in one place for easy access:

- *Cards for Apple Pay:* (not available in all regions) Apple Card, Apple Cash, credit, debit, store, transit, and prepaid cards. See [Set up Apple Pay in Wallet](#).
- *Passes:* Boarding passes, movie and event tickets, coupons, reward cards, student ID cards, and more. See [Add and manage passes in Wallet](#).

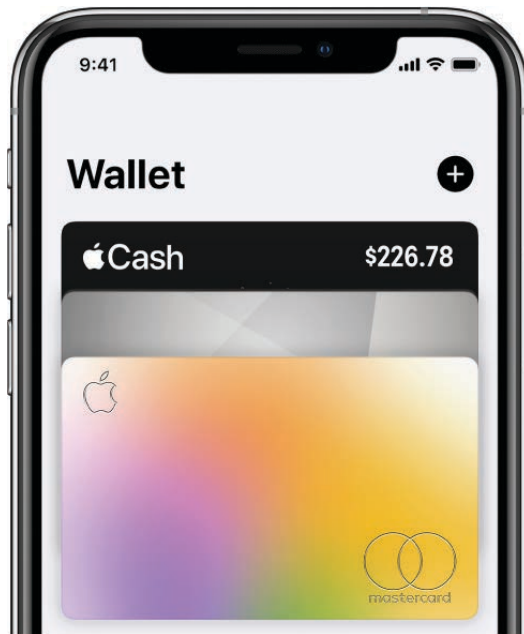


(Apple Card and Apple Cash are available only in the U.S.)

## Set up Apple Pay in Wallet on iPhone

Using Apple Pay can be simpler than using a physical card, and safer too. With your cards stored in the Wallet app , you can use Apple Pay to make secure payments in stores, for transit, in apps, and on websites that support Apple Pay. In Messages, use Apple Pay to send and receive money from friends and family and to make purchases using Business Chat.


To set up Apple Pay, add your debit, credit, and prepaid cards to Wallet.



(Apple Card and Apple Cash are available only in the U.S.)

---

### Add a credit or debit card

1. In Wallet, tap . You may be asked to sign in with your Apple ID.
2. Do one of the following:
  - *Add a new card:* Position iPhone so that your card appears in the frame, or enter the card details manually.
  - *Add your previous cards:* Select the card associated with your Apple ID, cards you use with Apple Pay on your other devices, or cards that you removed. Tap Continue, then enter the CVV number of each card.

Alternatively, you may be able to add your card from the app of the bank or card issuer.

The card issuer determines whether your card is eligible for Apple Pay, and may ask you for additional information to complete the verification process.

---


## Set the default card and rearrange your cards

The first card you add to Wallet becomes your default card for payments. To set a different card as the default, move it to the front of the stack.

1. In Wallet, choose your default card.
  2. Touch and hold the card, then drag it to the front of the stack.
  3. To reposition another card, touch and hold it, then drag it to a new location.
- 

*Note:* Apple Pay may not be available in all regions, and Apple Pay features may vary by region. See the Apple Support article [Countries and regions that support Apple Pay](#).

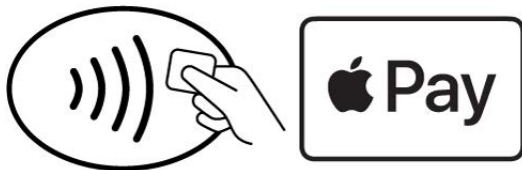
## Make contactless payments using Apple Pay on iPhone

With your Apple Cash, credit, and debit cards stored in the Wallet app  on iPhone, you can use Apple Pay for secure, contactless payments in stores, transit stations, and more.

---


### Find places that accept Apple Pay

You can use Apple Pay wherever you see one of these symbols:



In Japan, contactless readers may also display the following symbols:



 **Ask Siri.** Say something like:

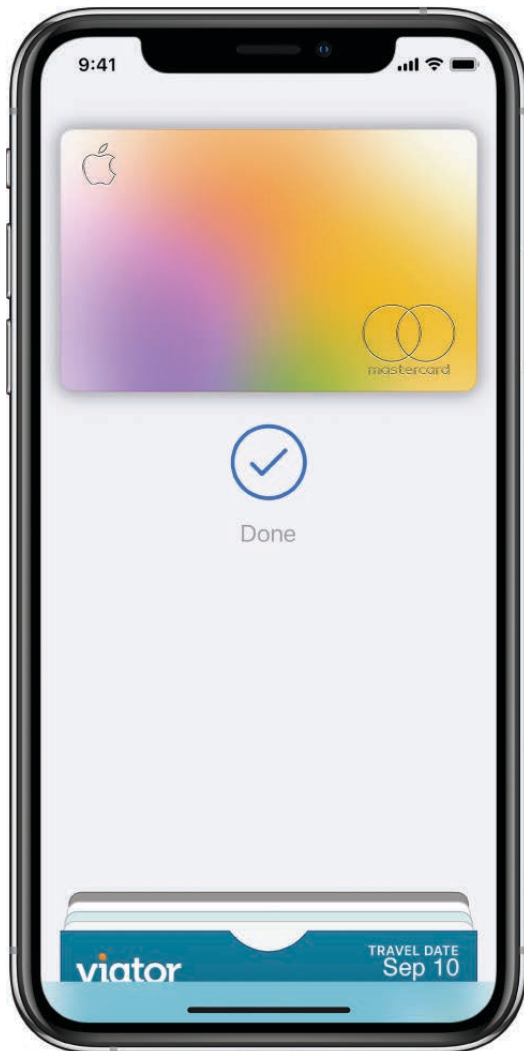
- "Where can I use my Apple Pay?"
- "Show me coffee shops that take Apple Pay"
- "Gas stations that accept Apple Pay"

[Learn how to ask Siri](#)

---

## Pay with your default card on iPhone X and later

1. Double-click the side button.
2. When your default card appears, glance at iPhone to authenticate with Face ID, or enter your passcode.
3. Position the top of iPhone within a few centimeters of the contactless reader until you see Done and a checkmark on the screen.



[Watch the demo](#) to see how it works.

---

## Pay with your default card on iPhone 8 and earlier

1. Rest your finger on Touch ID.
2. Position the top of iPhone within a few centimeters of the contactless reader until you see Done and a checkmark on the screen.

[Watch the demo](#) to see how it works.

---

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## Pay with a different card instead of your default card

1. When your default card appears, tap it, then choose another card.
2. Authenticate with Face ID, Touch ID, or your passcode.
3. Position the top of iPhone within a few centimeters of the contactless reader until you see Done and a checkmark on the screen.


---

## Use a rewards card

At participating stores, you can receive or redeem rewards when you use Apple Pay.

1. [Add your rewards card](#) to Wallet.
2. At the payment terminal in the store, present your rewards card by holding iPhone near the contactless reader.

Apple Pay then switches to your default payment card to pay for the purchase. In some stores, you can apply your rewards card and payment card in one step. In other stores, you need to wait until the terminal or cashier asks for payment.

To have your rewards card appear automatically when you're in the store, tap  on the card, then turn on Automatic Selection.

---

## Pay for transit

You can pay for your ride with Apple Pay. (If you're using Express Transit, see [Pay for your ride with Express Transit](#).)

1. Make sure your device is turned on (it doesn't need to be connected to a network).
2. As you approach a fare gate or board the bus, do one of the following:
  - *iPhone X and later:* Double-click the side button, then glance at iPhone to authenticate with Face ID or enter your passcode.
  - *Other models:* Double-click the Home button with your device on the Lock screen, then rest your finger on Touch ID.
3. Position the top of iPhone within a few centimeters of the contactless reader at the transit gate until you see Done and a checkmark on the screen.

See the Apple Support article [Ride transit with Apple Pay](#).

---

## Pay for your ride with Express Transit

With Express Transit (available in certain regions), you don't need to authenticate with Face ID, Touch ID, or your passcode, and you don't need to wake or unlock your device or open an app.

1. Set up Express Transit; see the Apple Support articles [Using Suica on iPhone or Apple Watch in Japan](#) and [Use Express Transit with Apple Pay in Beijing and Shanghai](#).
2. As you approach a fare gate or board the bus, make sure your device is turned on (it doesn't need to be connected to a network).
3. Position the top of iPhone within a few centimeters of the contactless reader at the transit gate until you see Done and a checkmark on the screen.

On models that support Express Cards with power reserve, your Express Cards may be available for up to five hours when your iPhone needs to be charged. To check if Express Cards are available when iPhone needs to be charged, press the side button (doing this often may significantly reduce the power reserve for Express Cards). If you turn off your iPhone, this feature isn't available.

---

### **Use Apple Pay at stores in Japan**

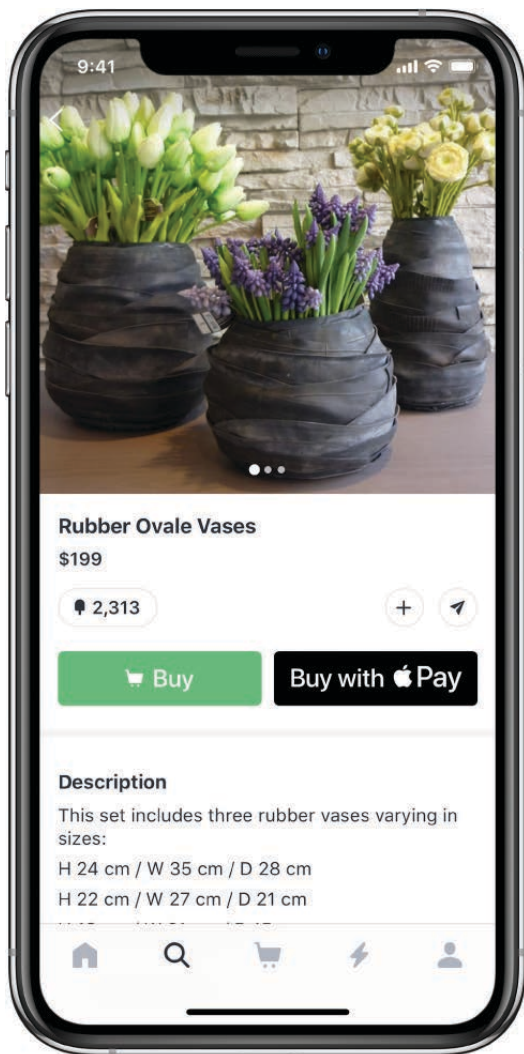
You need an iPhone model that supports Apple Pay in Japan and a card issued by a bank in Japan.

1. Tell the cashier what type of card you're using, as shown on the front of your card in Wallet.
  2. Complete the payment.
- 

*Note:* If you have Location Services turned on, the location of your iPhone at the time you make a payment may be sent to Apple and the card issuer to help prevent fraud. See [Set which apps know your location on iPhone](#).

### **Pay in apps or on the web using Apple Pay on iPhone**

Use Apple Pay to make purchases in apps and on the web in Safari wherever you see the Apple Pay button.



---

### Pay in an app or on the web

1. During checkout, tap the Apple Pay button.

2. Review the payment information.

You can change the credit card, shipping address, and contact information.

3. Complete the payment:

- *iPhone X and later:* Double-click the side button, then glance at iPhone to authenticate with Face ID, or enter your passcode.
- *Other models:* Authenticate with Touch ID or enter your passcode.

---

### Shop in Safari on your Mac and pay on iPhone

Before you begin, do the following:

- Sign in with your Apple ID on both devices.
- Turn on Bluetooth on both devices.


- Ensure that iPhone is nearby and connected to a cellular or Wi-Fi network.

When you're ready to checkout, do the following:

1. On your Mac, begin checkout with the Apple Pay payment option.
2. Review the payment information.


You can change the credit card, shipping address, and contact information.

3. On your iPhone, review the payment summary and complete the payment.

If you don't want to use Apple Pay on your iPhone to make payments on your Mac, go to Settings  > Wallet & Apple Pay, then turn off Allow Payments on Mac.


---

### **Change your default shipping and contact information**

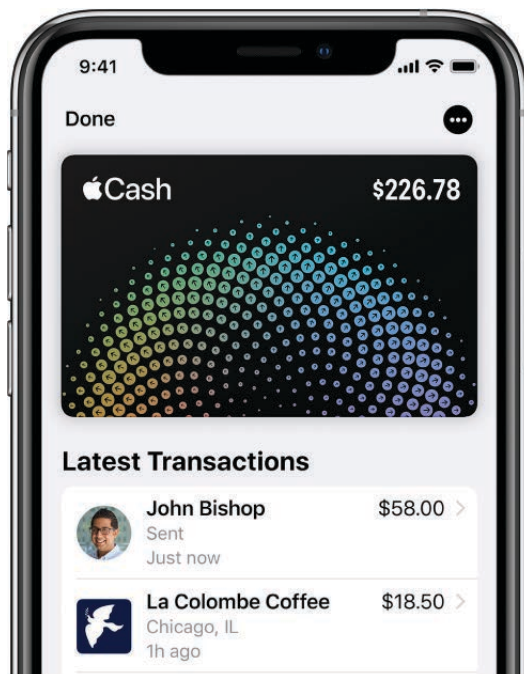
1. Go to Settings  > Wallet & Apple Pay.
2. Set any of the following:
  - Shipping address
  - Email
  - Phone

---

### **Set up and use Apple Cash on iPhone (U.S. only)**

When you [receive money in Messages](#), it's added to your Apple Cash card in the Wallet app . You can use Apple Cash right away wherever you would use Apple Pay. You can also transfer your Apple Cash balance to your bank account.






---

## Set up Apple Cash

Do any of the following:

- Go to Settings  > Wallet & Apple Pay, then turn on Apple Cash.
- In Messages, send or accept a payment. See [Send and receive money with Apple Pay \(U.S. only\)](#).


---

## Use Apple Cash

You can use Apple Cash wherever you use Apple Pay:

- [Send and receive money with Apple Pay \(U.S. only\)](#)
  - [Make contactless payments using Apple Pay](#)
  - [Pay in apps or on the web using Apple Pay](#)
-


## Manage your Apple Cash

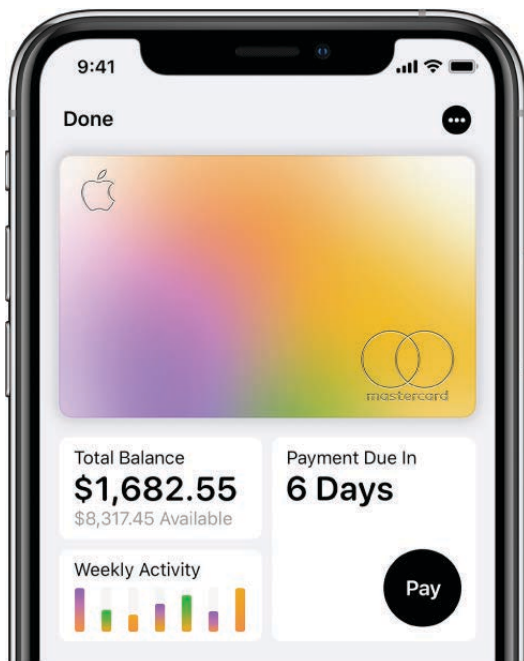
1. In Wallet, tap the Apple Cash card.
2. View your latest transactions, or scroll down to see all your transactions grouped by year.
3. Tap , then do any of the following:
  - Add money from a debit card in Wallet.
  - Transfer money to your bank. See the Apple Support article [Transfer money from Apple Cash to your debit card or bank account](#).
  - Update your bank account information.
  - Request a statement.
  - Choose to manually or automatically accept all payments. You have 7 days to manually accept a payment before it's returned to the sender.
  - See your suggested PIN. Apple Cash doesn't require a PIN because every payment is authenticated by Face ID, Touch ID, or a secure passcode. However, some terminals may still require you to enter a four-digit code to complete the transaction.
  - Verify your identity for account servicing and to increase your transaction limits.
  - Contact Apple Support.

---

Apple Cash and sending and receiving payments through Apple Pay are services provided by Green Dot Bank, member FDIC.

## Set up and use Apple Card on iPhone (U.S. only)

Apple Card is a credit card that can simplify your financial life. You can sign up for Apple Card in the Wallet app  on iPhone in minutes and start using it with Apple Pay right away in stores, in apps, or online worldwide. Apple Card gives you easy-to-understand, real-time views of your latest transactions and balance right in Wallet, and Apple Card support is available anytime by simply sending a text from Messages.



---

## Get Apple Card

1. In Wallet, tap **+**, then tap Get Apple Card.

You may be asked for the following information:

- Your legal name
  - Date of birth
  - Phone number
  - Residential address
  - Last four digits of your Social Security Number
  - Country of citizenship
2. Agree to the terms and conditions to submit your application.
  3. Review the details of your Apple Card offer, including the credit limit and APR, then accept Apple Card or tap No Thanks to decline.
  4. If you accept the terms, you can do any of the following:
    - Set Apple Card as your default card for Apple Pay transactions.
    - Get a physical Apple Card to use where Apple Pay isn't accepted.


---

## Use Apple Card

You can use Apple Card wherever you use Apple Pay:

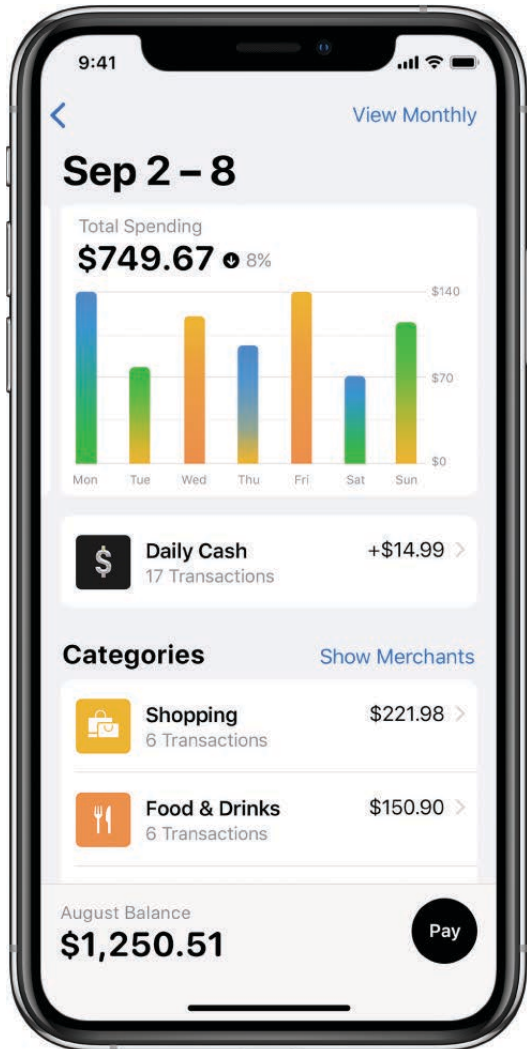
- [Make contactless payments using Apple Pay](#)
- [Pay in apps or on the web using Apple Pay](#)

You can also use Apple Card at locations where Apple Pay isn't accepted:

- *In apps or on the web:* Tap , then tap Card Information to see the card number, expiration, and security code. Use this information to make your purchase.
  - *In stores, restaurants, and other locations:* Use the physical card.
-

## View transactions and statements

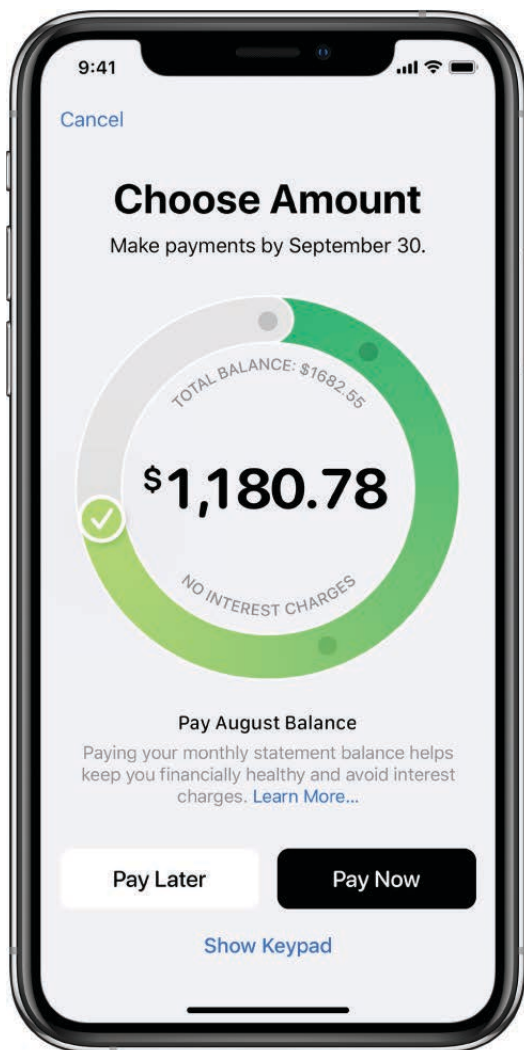
1. In Wallet, tap Apple Card.
2. Do any of the following:
  - *Review your transactions:* View your latest transactions, or scroll down to see all your transactions grouped by month and year.
  - *See weekly or monthly activity:* Tap Weekly Activity to see your spending this week grouped in categories such as Shopping, Food & Drinks, and Services. Swipe right to see previous weeks, or tap View Monthly for a monthly summary.



- *Get monthly statements:* Tap Total Balance to see last month's balance, new spending, payments and credits, and Daily Cash. Scroll down to see your monthly statements. Tap a statement to see the summary for that month and download a PDF statement.
-

## Make payments

1. In Wallet, tap Apple Card, then tap Make a Payment.




2. Drag the checkmark to adjust the payment amount, or tap Show Keypad to enter an amount.
3. Tap Pay Now or Pay Later.
4. Review the payment details, such as the payment account, then authenticate with Face ID, Touch ID, or your passcode.

To schedule payments, tap , then tap Scheduled Payments.


---

## View Apple Card details, change settings, contact support, and more

1. In Wallet, tap Apple Card.
  2. Tap , then do any of the following:
    - View card information.
    - View credit details.
    - Add or remove linked bank accounts.
    - Lock your physical card and request a replacement card.
    - Edit Express Transit settings.
    - Contact support.
- 

See the [Apple Card website](#).


## Manage Apple Pay cards and activity on iPhone

In Wallet , manage the cards you use for Apple Pay and review your recent transactions.

---


### View the information for a card and change its settings

1. In Wallet, tap the card.

*Note:* The last transaction may appear, showing an authorized amount that may differ from the amount of the payment charged to your account. For example, a gas station may request an authorization of \$99, even though you pumped only \$25 worth of gasoline. To see the final charges, see the statement from your card issuer, which includes all Apple Pay transactions.
2. Tap , then do any of the following:
  - Tap Transactions to view your recent history. To hide this information, turn off Transaction History. To view all your Apple Pay activity, see the statement from your card issuer.
  - View the last four digits of the card number and Device Account Number—the number transmitted to the merchant.
  - Change the billing address.
  - Remove the card from Wallet.

---

## Change your Apple Pay settings


1. Go to Settings  > Wallet & Apple Pay.
2. Choose options such as the following:
  - *Double-Click Side Button:* (iPhone X and later) Your cards and passes appear on the screen when you double-click the side button.
  - *Double-Click Home Button:* (other models) Your cards and passes appear on the screen when you double-click the Home button.
  - *Allow Payments on Mac:* Allows iPhone to confirm payments on your nearby Mac.

---

## Remove your cards from Apple Pay if your iPhone is lost or stolen

If you turned on [Find My iPhone](#), use it to help locate and secure your iPhone.

To remove your cards from Apple Pay, do any of the following:


- *On a Mac or PC:* [Sign in to your Apple ID account](#). In the Devices section, click the lost iPhone. Below the list of cards, click Remove all.
- *On another iPhone, iPad, or iPod touch:* Go to Settings  > [your name], tap the lost iPhone, then tap Remove All Cards (below Apple Pay).
- Call the issuers of your cards.

If you remove cards, you can add them again later.

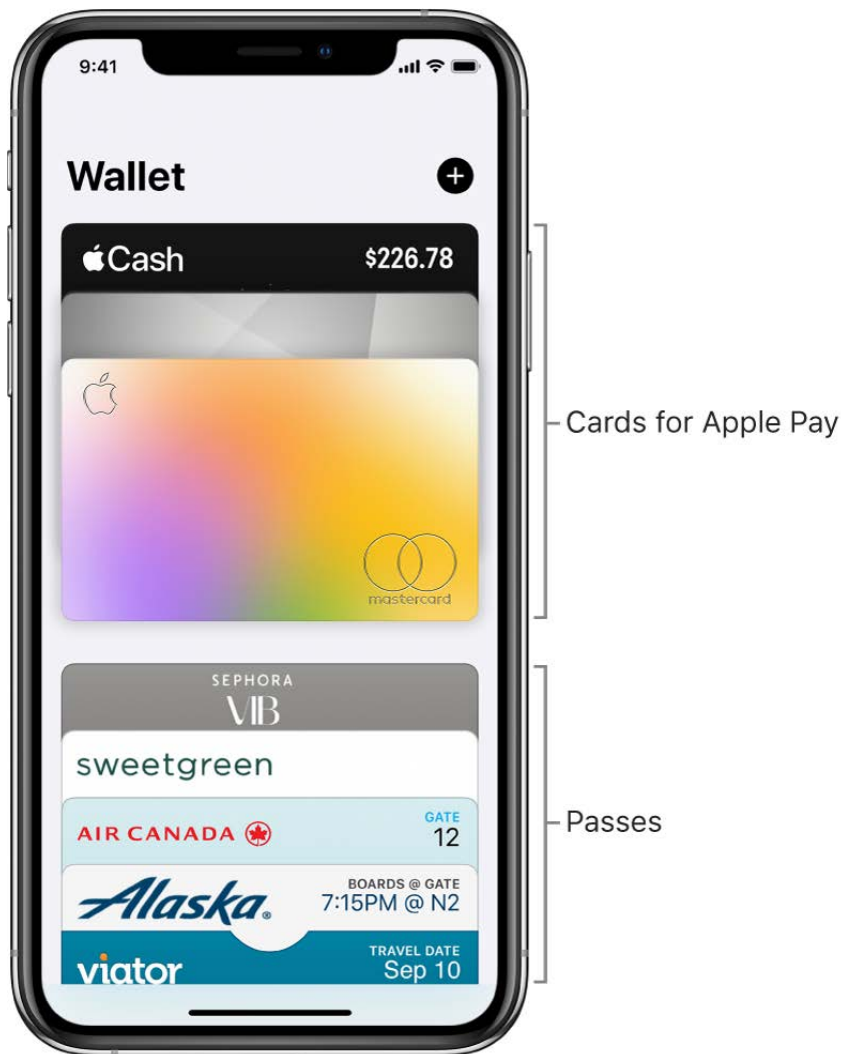
*Note:* If you sign out of iCloud in Settings > [your name], all your credit and debit cards for Apple Pay are removed from iPhone. You can add the cards again the next time you sign in with your Apple ID.

---

## Add and manage passes in Wallet on iPhone

Use the Wallet app  to keep boarding passes, movie and event tickets, coupons, reward cards, student ID cards, and more in one place for easy access. Passes can include useful information, such as the balance on your coffee card, a coupon's expiration date, or your seat number for a concert.






(The Apple Cash card is available only in the U.S.)

---

### Add a pass

You may be asked to add a pass within an app after you perform an action such as purchasing a ticket. Or, you can tap Add to Apple Wallet when you see it from the following:

- Wallet-enabled apps
- Mail or Messages
- Web browser such as Safari
- AirDrop sharing
- Wallet notification after you use Apple Pay at a supported merchant
- QR code or barcode

To scan the code, open the Camera app , then position iPhone so that the code appears on the screen.

---


## Rearrange your passes


1. In the Wallet stack, touch and hold the pass you want to move.
2. Drag the pass to a new place in the stack.

The pass order is updated on your iPhone, iPod touch, and Apple Watch where you're signed in with your Apple ID.

---

## View the information for a pass and change its settings

1. Tap the pass, then tap .
2. Choose any of the following (not all options are available on all passes):
  - *Automatic Updates*: Allow the pass to receive updates from the issuer.
  - *Suggest on Lock Screen*: Show the pass based on time or location.

To allow location access, go to Settings  > Privacy > Location Services > Wallet, then tap While Using the App.

- *Automatic Selection*: Select the pass where it's requested.
  - *Share Pass*: Send the pass to a friend using Mail or Messages.
  - *Remove Pass*: Delete the pass from all your devices where you're signed in with your Apple ID.
3. Scroll down to view other information such as the associated app, usage details, and terms and conditions.

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## Change the settings for all your passes

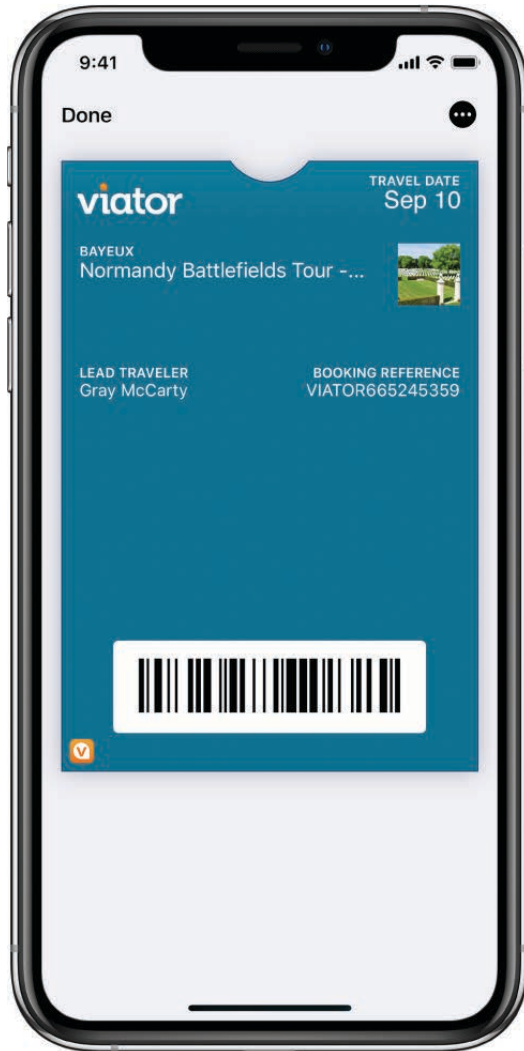
- *Keep your passes up to date on your other devices*: Sign in with your Apple ID on your iPhone, iPod touch, and Apple Watch.

*Note*: This setting applies only to passes in Wallet, not to cards you use with Apple Pay.


- *Set notification options*: Go to Settings > Notifications > Wallet.
  - *Prevent passes from appearing on the Lock screen*: Go to Settings > Wallet & Apple Pay, then turn off Double-Click Side Button (iPhone X and later) or Double-Click Home Button (other models).
-

## Use your passes in Wallet on iPhone

With your passes in the Wallet app , you can use a coupon at a store, board a flight, enter your dormitory, and more.




### Use a pass with a QR code or barcode

1. If a notification for a pass appears on the Lock screen, tap the notification; if there's no notification, open the Wallet app , then tap the pass.
  2. Present the QR code or barcode to the reader.
-

## Use a contactless student ID card

On supported campuses, you can add your contactless student ID card to Wallet, and then use your iPhone to access locations where your student ID card is accepted like your dorm, the library, and campus events. You can even pay for laundry, snacks, and meals around campus.


1. Download the app that supports student ID cards for your school.
2. Open the app, sign in, then add your student ID card to Wallet.
3. To manage your card, tap the card in Wallet, tap , then do any of the following:
  - See your name and ID number.
  - View your account balance.
  - Contact the card issuer.
  - Turn on Express Mode to use your card without Face ID, Touch ID, or a passcode. On models that support Express Cards with power reserve, your Express Card may be available for up to five hours when your iPhone needs to be charged. To check if Express Cards are available when iPhone needs to be charged, press the side button (doing this often may significantly reduce the power reserve for Express Cards). If you turn off your iPhone, this feature isn't available.
4. To present your student ID card at a reader, position the top of iPhone within a few centimeters of the reader until iPhone vibrates.

See the Apple Support article [Use student ID cards in Wallet on your iPhone or Apple Watch](#).

---

## Use a contactless pass



With your pass in Wallet, you can use your iPhone to present your pass at a contactless reader.


1. If a notification for a pass appears on the Lock screen, tap the notification. If there's no notification, open the Wallet app , then tap the pass.
2. Position the top of iPhone within a few centimeters of the reader until iPhone vibrates.

To see the QR code or barcode (if available), tap .

---

# Check the weather on iPhone

Use the Weather app  to check the weather in your current location or in other cities. Weather uses Location Services to get the forecast for your current location. To turn on Location Services, go to Settings  > Privacy > Location Services.

 **Ask Siri.** Say something like: “What’s the weather for today?” or “How windy is it out there?” [Learn how to ask Siri.](#)



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## Check the weather forecast and conditions

Open Weather to do any of the following:

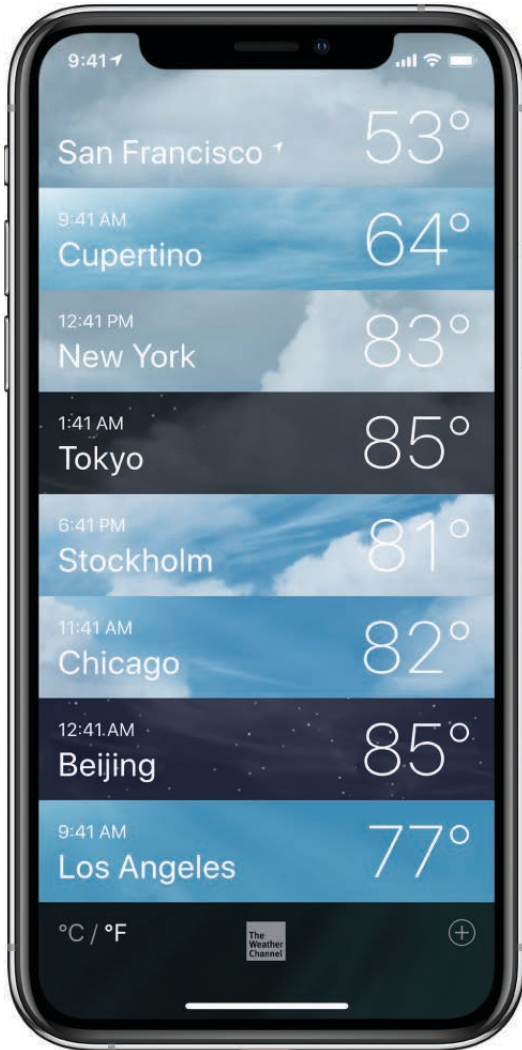
- *Check local weather conditions:* The details for your current location are available when you open Weather.
- *View the hourly forecast:* Swipe the hourly display left or right.
- *See more details including humidity, chance of rain, and air quality:* (not available in all regions) Scroll to the bottom of the screen.

- *Check the weather in other cities:* Swipe left or right on the screen, or tap ☰.
- *Switch between Fahrenheit and Celsius:* Tap ☰, scroll to the bottom of the list, then tap °F or °C.

---

### Add, delete, and rearrange cities in your weather list

1. Tap ☰ to see your weather list.




2. Do any of the following:

- *Add a city:* Tap +, then enter the name of the city, zip code, or airport code.
- *Delete a city:* Swipe left on the city, then tap Delete.
- *Rearrange the order of cities on your list:* Touch and hold the city, then move it up or down.

---

### Use iCloud to keep your list of cities up to date on all your devices

Go to Settings , then sign in to iCloud with the same Apple ID on all your devices. See [Manage Apple ID and iCloud settings on iPhone](#).



---

# Family Sharing

## Set up Family Sharing on iPhone

With Family Sharing, up to six family members can share iTunes Store, App Store, and Apple Books purchases; an Apple Music family membership; an Apple News+ subscription; an Apple Arcade subscription; an iCloud storage plan; Screen Time information; a family calendar; family photos; and more, all without sharing accounts.

To use Family Sharing, one adult family member (the *organizer*) chooses features for the family to share and invites up to five additional family members to participate. When family members join, Family Sharing is set up on their devices automatically.


Family Sharing requires you (the organizer) to sign in with your Apple ID, and to confirm the Apple ID you use for the iTunes Store, the App Store, and Apple Books (you usually use the same Apple ID for everything). Family Sharing is available on devices that meet these minimum system requirements: iOS 8, iPadOS 13, a Mac with OS X 10.10, or a PC with iCloud for Windows 5. You can be part of only one family group at a time.

*Note:* You can set up Screen Time for individual family members either through Family Sharing on your device or separately on their own devices. See [Set up Screen Time for a family member on iPhone](#).



---


## Get started with Family Sharing

1. Go to Settings  > [your name] > Set Up Family Sharing.
2. Tap the features you want to share:
  - Purchase Sharing
  - iCloud Storage
  - Location Sharing
  - Screen Time
  - Apple Music
  - TV Channels
  - Apple News+
3. Follow the onscreen instructions to sign up.

Depending on the features you choose, you may be asked to set up an Apple Music family membership or an iCloud Storage subscription. If you choose to share iTunes Store, App Store, and Apple Books purchases with your family members, you agree to pay for any purchases they initiate while part of the family group.

---

## Create an Apple ID for a child

1. Go to Settings  > [your name] > Family Sharing > Add Family Member.
2. Tap Create a Child Account, then follow the onscreen instructions.

The child's account is added to your family until the child is at least 13 years old. See the Apple Support article [Family Sharing and Apple ID for your child](#).

---

## Accept an invitation to Family Sharing


Tap Accept in the invitation.

Or, if you're near the organizer during the setup process, you can enter your Apple ID and password on the Family Member's Apple ID screen on the organizer's device.

---

## Leave Family Sharing

Any family member can leave the Family Sharing group, but only the organizer can stop family sharing.

1. Go to Settings  > [your name] > Family Sharing > [your name].
2. Tap Leave Family.

If you're the organizer, tap Stop Family Sharing.

See the Apple Support article [Leave Family Sharing](#).

---



## Share purchases with family members on iPhone

With Family Sharing, up to six family members can share iTunes Store, App Store, and Apple Books purchases, an Apple Music family membership, and an iCloud storage plan. (See the Apple Support article [Family Sharing](#).)




When your family shares iTunes Store, App Store, and Apple Books purchases, all items are billed directly to the family organizer's Apple ID account. Once purchased, an item is added to the initiating family member's account and is shared with the rest of the family.

---




### Access shared purchases from the iTunes Store

1. Open the iTunes Store , tap More, then tap Purchased.
  2. Choose a family member.
  3. Tap a category (for example, Music or Movies), tap a purchased item, then tap  to download it.
- 

### Access shared purchases from the App Store


1. Open the App Store .
  2. Tap —or your profile picture—at the top right.
  3. Tap Purchased, choose a family member, then tap  next to a purchased item to download it.
- 

### Access shared purchases from Apple Books

1. Open the Books app .
  2. Tap , or your profile picture, at the top right.
  3. Choose a family member, then tap a category (for example, Books or Audiobooks).
  4. Tap All Books, Recent Books, or a genre, then tap  next to a purchased item to download it.
- 

### Use a shared iCloud storage plan

With Family Sharing, your family can share an iCloud storage plan of 200 GB or 2 TB.

1. Go to Settings  > [your name] > Family Sharing.
2. Tap iCloud Storage, then follow the onscreen instructions.


You can also purchase or use your own storage plan if you need more space. To upgrade your iCloud storage, see the Apple Support article [Buy More iCloud storage](#).

---

## Turn on Ask To Buy on iPhone

When your Family Sharing group shares purchases, you can, as the family organizer, require that young family members request approval for purchases or free downloads.

---

1. Go to Settings  > [your name] > Family Sharing.
2. Tap the name of the person who needs to request approval, then turn on Ask To Buy.


*Note:* Age restrictions for Ask To Buy vary by region. In the United States, the family organizer can turn on Ask To Buy for any family member under age 18; for children under age 13, it's turned on by default.

---

## Hide your purchases on iPhone

With Family Sharing, you can hide your iTunes Store, App Store, and Apple Books purchases from family members.

---

1. Go to Settings  > [your name] > Family Sharing.
  2. Tap Purchase Sharing, then turn off Share My Purchases.
- 


## Share subscriptions with family members on iPhone

When you're in a Family Sharing group, you can share a subscription to Apple Music and Apple News+ with family members.

---

## Use a shared Apple Music family membership

If your family has an Apple Music family membership, you can simply open Apple Music and start listening. If you don't have an Apple Music family membership, you can sign up for one.

1. Go to Settings  > [your name] > Family Sharing.
2. Tap Apple Music, then follow the onscreen instructions.

Each family member gets their own music library and personal recommendations. (Selections are subject to content restrictions set in [Screen Time](#).) To listen to music, make sure you're signed in with the Apple ID you entered in Family Sharing settings.

See [Subscribe to Apple Music on iPhone](#).

---

## Use a shared Apple News+ subscription

In News, you can subscribe to Apple News+, which includes over 200 magazines and other publications. When you're in a Family Sharing group and you buy an Apple News+ subscription, all members of your family can read Apple News+ publications for no additional charge. The other members of your family receive a message when they open News. If you don't have a subscription, you can sign up through the News app (not available in all regions).

See [Subscribe to Apple News+ on iPhone](#).

---

## Use a shared Apple Arcade subscription

An Apple Arcade subscription gives you access to over 100 new games without ads or additional purchases. If your Family Sharing group has an Apple Arcade subscription, all members of your family (up to six people) can download and play any Apple Arcade game from the App Store. (Selections are subject to content restrictions set in [Screen Time](#).) The subscription allows you to play across iPhone, iPad, Mac, and Apple TV—online or offline. Each player gets a personalized account—your progress is carried over between devices.

New games are added to Apple Arcade regularly. If you don't have a subscription, you can sign up for one through the App Store.

See [Get apps, games, and fonts in the App Store on iPhone](#).

---



# Share photos, a calendar, and more with family members on iPhone

With Family Sharing on iPhone, you can share a family photo album, a family calendar, your location, and more.

---

## 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, which makes it easy to share family photos or videos.


1. Open the Photos app , then select a photo or video, or select multiple photos or videos.
2. Tap , then tap Shared Albums.
3. Add any comments you want, then tap Shared Albums.
4. Choose an album to add the photo or video to.

Members can unsubscribe from the family album, and the family organizer can delete it or remove subscribers. See [Share iPhone photos with Shared Albums in iCloud](#).

---

## 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. You can schedule an event on this calendar to share it with family members.

1. Open the Calendar app , then [add an event](#).
2. While entering the event details, tap Calendar, then tap Family to add the event to the family calendar.


Members can unsubscribe from the family calendar, and the family organizer can delete it. See [Share iCloud calendars on iPhone](#).

---

## Share your location with family members



With Family Sharing, you can share your location with members of your family group. When the family organizer sets up Location Sharing in [Family Sharing settings](#), the organizer's location is automatically shared with everyone in the family. Then family members can choose whether or not to share their location.

When you share your location, your family members can see your location in [Find My](#) and Messages and, if your device is lost, they can help you locate it with [Find My](#).

*Note:* To share your location, you must have Location Services turned on in Settings  > Privacy.

1. Go to Settings > [your name] > Family Sharing > Location Sharing, then turn on Share My Location.
2. Tap Change My Location to This iPhone.
3. Tap a family member you want to share your location with, tap Share My Location, then tap <.

You can repeat this step for each family member you want to share your location with. Each family member receives a message that you're sharing your location and can choose to share their location with you.

You can also send or share your location while using the Messages app  (iOS 8 or later or iPadOS 13 or later) by tapping the profile picture or name at the top of the conversation, tapping , then tapping Send My Current Location or Share My Location.

To stop sharing your location with a family member, go to Settings > [your name] > Share My Location. Tap the family member, then tap Stop Sharing My Location.

To find a family member's location, use the [Find My](#) app .


---

## Share a Personal Hotspot

With Family Sharing, you can share an Internet connection through a Personal Hotspot with members of your family group. When a member of your family group sets up a Personal Hotspot, other family members can use it to share an Internet connection without having to enter the password. See [Use iPhone as a Wi-Fi hotspot](#).

---


## Locate a family member's missing device on iPhone

When you're in a Family Sharing group and family members share their locations with you, you can use the Find My app  on your iPhone, iPad, iPod touch, or on iCloud.com on a computer to help another family member find a lost device.

---

### Set up your device to be found by a family member

A family member can help locate your missing device if you do the following on the device *before* it's lost:

- *Turn on Location Services:* Go to Settings  > Privacy, then turn on Location Services.

- *Turn on Find My iPhone:* Go to Settings > [your name] > Find My > Find My iPhone, then turn on Find My iPhone, Enable Offline Finding, and Send Last Location.
  - *Share your location with family members:* Go to Settings > [your name] > Family Sharing > Location Sharing, then turn on Share My Location.
- 

### Locate a family member's device

1. Open Find My on your iPhone, iPad, or iPod touch, or open Find My iPhone on [iCloud.com](https://www.icloud.com) on a computer.
2. Sign in with your Apple ID.
3. In the list of devices, select the one you want to find.

Your devices are at the top of the list, and your family members' devices are below yours.

The selected device appears on a map so you can see where it is.

---

See [Locate a device in Find My on iPhone](#).


## Set up Screen Time for family members on iPhone

You can set up Screen Time for family members through Family Sharing—including downtime, allowances for app use, content ratings, and more. Screen Time also lets you and your family members see how they're using their devices and use that information to structure their device use.

You can invite family members to join and enter their Apple IDs in Family Sharing on your device to begin the process. Or you can set up Screen Time for them in Family Sharing on your device. (For information on creating a child account for Family Sharing, see the Apple Support article [Family Sharing and Apple ID for your child](#).)

*Note:* When you set up Screen Time for a family member through Family Sharing, both you and your family member receive notifications about their weekly report. To view the report, tap the notification.

---

1. Go to Settings  > [your name] > Family Sharing > Screen Time.
2. Tap a family member, then tap Turn on Screen Time.
3. Tap Continue, then follow the onscreen instructions.

**Important:** If you set up Screen Time for a family member through Family Sharing and you forget the family Screen Time passcode, you can reset it on your device using your device passcode, Touch ID, or Face ID.

---

See [Set up Screen Time for a family member](#).



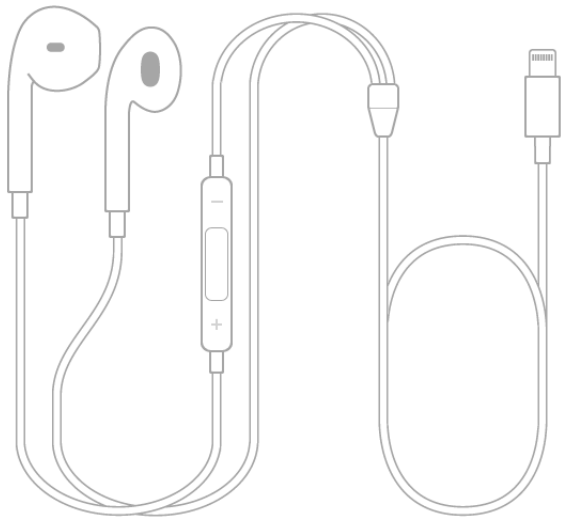
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# Use iPhone with other devices

## Accessories included with iPhone

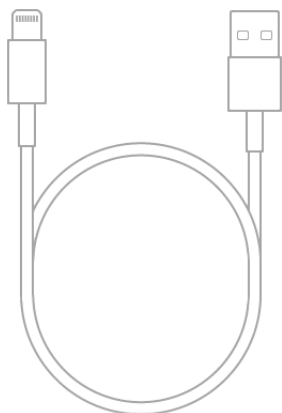
The following accessories are included with iPhone:

**EarPods with Lightning Connector (iPhone 7 and later)** Use the headset to listen to music and videos, and make phone calls. See [Use Apple EarPods](#).



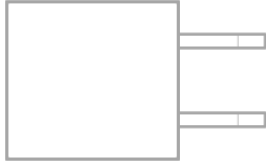
**USB-C to Lightning Cable (iPhone 11 Pro and iPhone 11 Pro Max)** Use the cable to connect iPhone to the USB-C power adapter or to a computer.

**Lightning to USB Cable (other models)** Use the cable to connect iPhone to the USB power adapter or to a computer.



**18W USB-C Power Adapter (iPhone 11 Pro and iPhone 11 Pro Max)** Use the adapter with the USB-C to Lightning Cable to charge the iPhone battery.

**Apple USB power adapter (other models)** Use the adapter with the Lightning to USB Cable to charge the iPhone battery. The size of the adapter depends on your iPhone model and region.



**SIM eject tool** (not included in all regions) Use the tool to eject the SIM card tray. See [Set up cellular service on iPhone](#).



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# Use AirPods with iPhone

## Set up and adjust AirPods with iPhone

Set up AirPods to use with iPhone.

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### **Pair AirPods with your iPhone**

1. Go to the Home screen on your iPhone.
2. Open the case with your AirPods inside, then hold it next to your iPhone.
3. Follow the onscreen instructions, then press Done.



Your AirPods are automatically paired with all of your supported devices where you're signed in with the same Apple ID (iOS 10, iPadOS 13, macOS 10.12, watchOS 3, or later required).

To unpair the AirPods, see [Unpair a device](#).

*Note:* If you can't pair your AirPods, see the Apple Support article [If your AirPods won't connect](#).

---

## Adjust the settings for AirPods

1. Open the AirPods case.
2. On iPhone, go to Settings  > Bluetooth.
3. Tap  next to your AirPods in the list of devices.
4. Do any of the following:
  - *Change the name of your AirPods:* Tap the current name, enter a new name, then tap Done.
  - *Change what a double tap does:* Select the left or right AirPods, then choose what happens when you double-tap the AirPods.
  - *Turn Automatic Ear Detection off or on:* Tap Automatic Ear Detection.

When Automatic Ear Detection is turned on, AirPods sense when they're in your ears and automatically play the audio from your iPhone. Playback is paused when you remove one of your AirPods. When you remove both, playback stops. When you have Automatic Ear Detection on and you're not wearing your AirPods, audio plays through the iPhone speakers.

When Automatic Ear Detection is turned off, all audio from your iPhone plays to your AirPods even when you're not wearing them.

- *Set Microphone to left, right, or automatic:* Tap Microphone, then choose an option.

When Microphone is set to Automatic, either of your AirPods can act as the microphone. If you use only one AirPods, that AirPods is the microphone.

When you choose Always Left or Always Right, the left or right AirPods becomes the microphone even if you remove it from your ear or put it in the case.

---

## Charge AirPods

Put them in the case and close the lid.

AirPods shut down and charge whenever they're in the case. You can charge your AirPods (1st or 2nd generation) in the Wireless Charging Case or AirPods Charging Case. If you have the Wireless Charging Case, you can charge wirelessly with a Qi-compatible charger. You can charge either case by connecting it to a power outlet using an Apple Lightning to USB cable and an Apple USB power adapter.

*Note:* If you have both AirPods (2nd generation) and AirPods (1st generation), make sure that you keep them separate. Your AirPods won't charge if you put one of each model in a charging case.

---

## Listen with AirPods on iPhone

Use AirPods to listen to music, movies, and more.

---

### Listen with AirPods

You can listen to audio playing on your iPhone using one or both AirPods.

You can do the following:

- *Stop the audio:* Remove both AirPods from your ears, or if you're wearing just one AirPods, remove it.

If you return an AirPods to your ear within 15 seconds, play resumes automatically.

- *Pause the audio while listening to two AirPods:* Remove one AirPods from your ears.

When you return the AirPods to your ear, playback resumes automatically.

- *Change the volume:* [Summon Siri](#), then say something like "Turn down the volume." Or drag the volume slider on the playback destination screen, the Lock screen, or Control Center.

You can also set either of your AirPods to do one of the following when you double-tap it:


- Play, pause, or stop playback
- Skip to the next track
- Go back to the previous track


See [Adjust the settings for AirPods](#).

---


### Share your audio with another pair of AirPods

You can share what you're listening to with a friend wearing AirPods (or compatible Beats earphones). Both sets must be paired with an iPhone, iPod touch, or iPad (iOS 13 or iPadOS 13 required).

 **Tip:** To quickly start sharing audio while you're listening with your AirPods, move your iPhone close to a friend's open charging case (their earphones should be inside the case). Tap Temporarily Share Audio, then follow the onscreen instructions.

1. Wear one or both of your AirPods.
2. On your iPhone, open Control Center, touch and hold the Now Playing controls at the top right, then tap .

Or, in the Now Playing controls in an app or on the Lock screen, tap .

3. Tap Share Audio (below the name of your AirPods).
4. Do one of the following:
  - *If your friend is wearing AirPods connected to their own device:* Bring your iPhone close to their iPhone, iPad, or iPod touch.
  - *If your friend's AirPods are in the charging case:* Bring your iPhone close to the case, then ask your friend to open the case.
5. Tap Share Audio on your iPhone.
6. Ask your friend to do one of the following:
  - *If your friend is wearing AirPods connected to their own device:* On their iPhone, iPad, or iPod touch, tap Join.
  - *If your friend's AirPods are in the charging case:* Ask your friend to follow the instructions that appear on your iPhone.
7. To separately control the volume for each pair of AirPods, open Control Center on your iPhone, touch and hold the volume control, then drag the volume sliders.
8. To stop sharing, tap  on the Now Playing controls, then tap the name of your friend's AirPods to turn off the connection. Or open Control Center, tap the audio card, then turn off your friend's connection.



---

You can use Health on iPhone to monitor the audio levels from your AirPods. It can be helpful to understand how long you're exposed to loud volumes as these can affect your hearing. See [Monitor audio levels on iPhone](#).

## Make and answer phone calls with AirPods on iPhone

You can make and answer phone calls with AirPods that are paired with your iPhone.

---


### Make phone calls with AirPods

While wearing AirPods, do one of the following:

- Double tap either AirPods, wait for a chime, then say something like: "Call Eliza's mobile" or "Return my last call."
  - With AirPods (2nd generation), say "Hey Siri," wait for a chime, then make your request.
-

## Answer phone calls with AirPods

When a call comes in while you're wearing either AirPods, double-tap it to answer. To hang up or switch to another call, double-tap again.

To have Siri announce the caller when a call comes in, go to Settings  > Siri & Search > Announce Calls, then turn on either Headphones & Car or Headphones Only.

---

## Use Siri with AirPods on iPhone


You can use Siri with your AirPods to ask questions and do tasks.

---

### Summon Siri with your voice using AirPods (2nd generation)

While wearing a connected AirPods, say "Hey Siri," wait for a chime, then ask Siri a question or to do a task for you.

For example, say something like "Hey Siri, how's the weather today?" or "Hey Siri, let's hear the Acoustic playlist."

*Note:* If you didn't set up "Hey Siri," go to Settings  > Siri & Search, then turn on Listen for "Hey Siri."


---

### Summon Siri with a double tap

While wearing a connected AirPods, double-tap it, wait for a chime, then ask Siri a question or to do a task for you.

For example, say something like "What's my next meeting?" or "Remind me to pack an umbrella when I get home."

By default, you can double-tap either AirPods to summon Siri. You can also set one or both AirPods to respond differently to a double tap, for example, to skip to the next audio track or stop audio playback. See [Adjust the settings for AirPods](#).

*Note:* If you haven't yet turned on Siri, go to Settings  > Siri & Search, then turn on Press Side Button for Siri (iPhone X and later) or Press Home for Siri (other models).

---

## Connect Bluetooth devices to iPhone

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




You can use Bluetooth devices such as wireless headphones, speakers, car kits, and more with iPhone.

*Note:* The use of certain accessories with iPhone may affect wireless performance. Not all iOS 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


On iPhone, go to Settings  > Bluetooth, then tap Bluetooth.

To quickly disconnect from Bluetooth devices without turning Bluetooth off, open Control Center, then tap .

---

### Pair a Bluetooth device

*Note:* To pair AirPods, see [Set up and adjust AirPods with iPhone](#).


1. Follow the instructions that came with the device to put it in discovery mode.
2. On iPhone, go to Settings , then tap Bluetooth.
3. Tap the device in the Devices list to connect.

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

---



### Bypass your Bluetooth device for calls

To use the iPhone receiver or speaker for calls, do any of the following:

- 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.
- Go to Settings , tap Bluetooth, then turn off Bluetooth.

---

### Unpair a device

1. Go to Settings , then tap Bluetooth.
2. 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 signed in with the same Apple ID.


---

# Stream audio and video to other devices from iPhone

Stream content from iPhone to AirPlay-enabled or Bluetooth devices, or mirror your iPhone screen. (Apple TV, AirPlay-enabled devices, and Bluetooth devices are available separately.)

---





## **Stream audio to Apple TV, AirPlay-enabled devices, or a connected Bluetooth device**

1. On your iPhone, open an audio app such as Music.
2. Tap , then choose a playback destination, such as one or more HomePod speakers, Apple TV, an AirPlay 2-enabled smart TV, or wireless headphones.

While audio is playing, you can change the playback destination from the Lock screen or Control Center.

---

## Stream photos and video to Apple TV or a smart TV using AirPlay

- *Stream photos:* In Photos , tap a photo, tap , swipe up, tap AirPlay, then choose your Apple TV or an AirPlay 2-enabled smart TV as the playback destination.
- *Stream video:* In TV  or another supported video app, tap , then choose your Apple TV or AirPlay 2-enabled smart TV as the playback destination.



If an AirPlay passcode appears on the TV screen, enter the passcode on your iPhone.

---

## Mirror your iPhone screen on Apple TV or a smart TV

1. Open Control Center.
2. Tap Screen Mirroring, then choose your Apple TV or an AirPlay 2-enabled smart TV as the playback destination.

If an AirPlay passcode appears on the TV screen, enter the passcode on your iPhone.

To switch back to iPhone, tap Stop Mirroring or , then choose your iPhone.




*Note:* For a list of AirPlay 2-enabled smart TVs, see the [Home accessories website](#).

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 for iPhone, iPad, and iPod touch](#).


## Control audio on multiple devices with iPhone

With AirPlay 2 and iPhone, you can play audio on multiple AirPlay 2-enabled devices connected to the same Wi-Fi network. For example, you can play a party playlist on HomePod speakers in the living room and kitchen, on an Apple TV in the bedroom, and on an AirPlay 2-enabled smart TV in the den.


 **Ask Siri.** Say something like:

- "Stop playing music everywhere"
  - "Set the dining room volume to 10 percent"
  - "What's playing in the kitchen?"
  - "Play a song I like in the kitchen"
  - "Add the living room speaker"
  - "Remove the music from the kitchen"
  - "Move the music to the den"
- 

### **Play audio on multiple AirPlay 2-enabled devices from an app**

1. In an audio app such as Music or Podcasts, tap Now Playing at the bottom of the screen.
  2. Tap , then select each device you want to use.
- 

### **Play audio on multiple AirPlay 2-enabled devices from Control Center or the Lock screen**

1. From Control Center or the Lock screen, touch and hold the Now Playing controls.
2. Tap , then select each device you want to use.

*Note:* Devices arranged in a stereo pair are treated as a single audio device.

---

## Print from iPhone

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. See the Apple Support article [About AirPrint](#).

---

### **See the status of a print job**




Open the App Switcher, then tap Print Center.

The badge on the icon shows how many documents are in the queue.

To cancel a print job, select it in Print Center, then tap Cancel Printing.

---

## Print a document

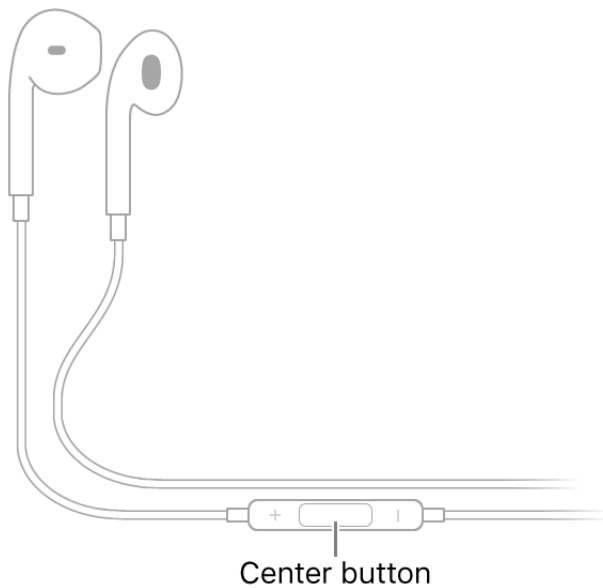
Tap , , or  (depending on the app you're using), then tap Print. (Swipe up if you don't see Print.)

---

## Use 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 with your EarPods

- *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 using your EarPods

- *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 until 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 until two low beeps confirm you ended the first call.

Activate Siri from your EarPods

- *Ask Siri:* Press and hold the center button until you hear a beep. Let go, then make your request.

You can use Health on iPhone to monitor the audio levels from your EarPods. It can be helpful to understand how long you're exposed to loud volumes as these can affect your hearing. See [Monitor audio levels on iPhone](#).

## Pair iPhone with Apple Watch

On your iPhone, tap the Apple Watch app , then follow the onscreen instructions.


## Use Magic Keyboard

You can use Magic Keyboard (available separately) to enter text on iPhone. The keyboard connects via Bluetooth, so you must first pair it with iPhone.

*Note:* Magic Keyboard may not support keyboard features that are on your device. For example, you can't enable dictation with Magic Keyboard.

---

### Pair Magic Keyboard with iPhone

1. Turn the keyboard on.
2. On iPhone, go to Settings  > Bluetooth, then turn on Bluetooth.
3. Tap the keyboard when it appears in the Other Devices list, then follow the onscreen instructions.

Once it's paired, the keyboard reconnects to iPhone whenever it's in range—up to about 33 feet (10 meters). When it's connected, the onscreen keyboard doesn't appear.

---

## Switch keyboards

Using a wireless keyboard, you can switch between keyboards that appear onscreen—for example, English and [any keyboards you've added for typing in different languages](#).

1. On the wireless keyboard, press and hold Shift-Control.
  2. Press the Space bar to cycle through the languages.
- 

## Turn off Magic Keyboard

To turn off the wireless keyboard when you're not using it, turn the switch on the back of the keyboard to Off.

---

# Use wireless charging devices with iPhone

With supported models, you can wirelessly charge the battery by placing iPhone face up on a Qi-certified charger. For more information, see the Apple Support article [How to wirelessly charge your iPhone 8 or later](#).

# Use Handoff with iPhone

Continue working on one device where you left off on another. You can use Handoff with many Apple apps—for example, Mail, Safari, Pages, Numbers, Keynote, Maps, Messages, Reminders, Calendar, and Contacts—and even some third-party apps. To use Handoff, you must be signed in with the same Apple ID on all your devices. Your devices must have Bluetooth on and be within Bluetooth range of one another (about 33 feet or 10 meters).

---

## Switch devices

- *From Mac to iPhone:* Open the App Switcher on iPhone. The icon of the app you're using appears at the bottom of the screen. Tap the icon to continue working in the app.
  - *From iPhone to Mac:* The icon of the app you're using appears on your Mac at the left end of the Dock (or the top, depending on the Dock position). Click the icon to continue working in the app.
- 


## Hand off audio from iPhone to HomePod

While playing audio from Music, Podcasts, or another audio app, bring iPhone close to a HomePod on the same Wi-Fi network to play that audio on HomePod.

---



## Disable Handoff on your devices

- *iPhone, iPad, and iPod touch:* Go to Settings , then tap General > Handoff.
  - *Mac:* Choose Apple Menu > System Preferences > General, then turn off "Allow Handoff between this Mac and your iCloud devices."
- 

## Use Universal Clipboard on iPhone

Cut or copy content (a block of text or an image, for example) on your iPhone, then paste it on another iPhone or iPad, iPod touch, or Mac computer, and vice versa.

For Universal Clipboard to work, you must be signed in with the same Apple ID on all your devices. 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](#). (iOS 10, iPadOS 13, macOS Sierra, or later required.)

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

---

### Copy, cut, or paste

- *Copy:* Pinch closed with three fingers.
- *Cut:* Pinch closed with three fingers two times.
- *Paste:* Pinch open with three fingers.

You can also touch and hold a selection, then tap Cut, Copy, or Paste.

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

---

## Make and receive calls with Wi-Fi on iPhone and other devices

When your iPhone has a low cellular signal, use Wi-Fi Calling to make and receive calls through a Wi-Fi network. With Continuity, you can make and receive calls on your iPad, iPod touch, and Mac by relaying calls through your iPhone.


To make calls this way, you must have FaceTime set up and be signed in with the same Apple ID on all your devices. (iOS 9, iPadOS 13, and OS X 10.10, or later required.)

*Note:* Wi-Fi Calling on other devices is available with some carriers, and cellular charges may apply.

You must first set up your iPhone, then your other devices.

---

### **Set up Wi-Fi calls on your iPhone**

1. On your iPhone, go to Settings  > Cellular.
2. If your iPhone has Dual SIM, choose a line (below Cellular Plans).
3. Tap Wi-Fi Calling, then turn on Wi-Fi Calling on This iPhone.
4. Enter or confirm your address for emergency services.

*Note:* Emergency calls on your iPhone are routed through cellular service when available. In the event that cellular service isn't available, and you have enabled Wi-Fi Calling, emergency calls may be made over Wi-Fi, and your device's location information may be used for emergency calls to aid response efforts, regardless of whether you enable Location Services. Some carriers may use the address you registered with the carrier when signing up for Wi-Fi Calling as your location. When connected to Wi-Fi calling, your iPhone may not receive emergency alerts.


When Wi-Fi Calling is available, "Wi-Fi" is displayed after your carrier name in the status bar, and all your calls go through Wi-Fi.

You must have FaceTime set up and be signed in with the same Apple ID on your devices.

*Note:* If the Wi-Fi connection is lost when you make calls, calls switch automatically to your carrier's cellular network using VoLTE (Voice over LTE), if available and turned on. See [View or change cellular settings on iPhone](#). (VoLTE calls also switch to Wi-Fi when a Wi-Fi connection becomes available.) On earlier iPhone models, and on iPad, iPod touch, or Mac, a call is dropped if you lose the Wi-Fi connection. Contact your carrier for feature availability.

---

## Allow Wi-Fi calls on your other devices

1. On your iPhone, go to Settings  > Cellular.
2. If your iPhone has Dual SIM, choose a line (below Cellular Plans).
3. Do any of the following:
  - Tap Calls on Other Devices, turn on Allow Calls on Other Devices, then choose the devices where you'd like to make and receive calls.


This allows other devices signed in with the same Apple ID to make and receive calls when they're nearby your iPhone and on Wi-Fi.

- Tap Wi-Fi Calling, then turn on Add Wi-Fi Calling For Other Devices.

This allows other devices signed in with the same Apple ID to make and receive calls even when your iPhone isn't nearby.

---


## Turn on Wi-Fi Calling on your iPad, iPod touch, or Mac

1. On your other devices, set up FaceTime and sign in with the same Apple ID.
2. Turn on Wi-Fi calling:
  - *On your iPad or iPod touch:* Go to Settings  > FaceTime, then turn on FaceTime and Calls from iPhone. If you're asked, turn on Wi-Fi calling.
  - *On your Mac:* Open FaceTime, then choose FaceTime > Preferences > Settings. Select "Calls from iPhone." If an Upgrade to Wi-Fi Calling button appears, click it, then follow the instructions.

*Note:* If you enable Wi-Fi Calling, emergency calls may be made over Wi-Fi, and your device's location information may be used for emergency calls to aid response efforts, regardless of whether you enable Location Services. Some carriers may use the address you registered with the carrier when signing up for Wi-Fi Calling as your location.

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## Make or receive a Wi-Fi call on your iPad, iPod touch, or Mac

- *Make a call:* Tap or click a phone number in Contacts, Calendar, FaceTime, Messages, Spotlight, or Safari. Or open FaceTime, enter a contact or phone number, then tap .

*Note:* If you make a call from another device by relaying it through your iPhone with Dual SIM, the call is made using your default voice line.

- *Receive a call:* Swipe or click the notification to answer, ignore, or respond with a quick message.
-


For more information about Wi-Fi calls, see the Apple Support article [Make a call with Wi-Fi Calling](#).

## Use iPhone as a Wi-Fi hotspot

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### Use Instant Hotspot

You can use Instant Hotspot to provide Internet access to your other devices and Mac computers where you're signed in with the same Apple ID. (iOS 8, iPadOS 13, OS X 10.10, or later required.) Instant Hotspot uses your iPhone Personal Hotspot, without you having to enter a password or even turn on Personal Hotspot.

1. Go to Settings , then tap Wi-Fi on your other iPhone, iPad, or iPod touch.
2. Below My Networks, choose your iPhone network.

On your Mac, go to System Preferences > Network, then 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 [Share your iPhone Internet connection](#).

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

On models with Dual SIM, Instant Hotspot uses the line selected for cellular data.

---


## Share your iPhone Internet connection

Use Personal Hotspot to share your iPhone Internet connection. Computers can share your Internet connection using Wi-Fi, Bluetooth, or a USB cable. Other iPhone, iPad, and iPod touch 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 , tap 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, then enter the password when asked.


To find the password, go to Settings  > Cellular > Personal Hotspot on your iPhone.

With Family Sharing, any member of your family can set up a Personal Hotspot, and other family members can use it without entering a password. See [Set up Family Sharing on iPhone](#).

- *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.


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

*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 iPhone, iPad, and iPod touch devices using Personal Hotspot.

On models with Dual SIM, Personal Hotspot uses the line selected for cellular data.

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### Change the Wi-Fi password for iPhone

1. Go to Settings  > Cellular > Personal Hotspot > Wi-Fi Password.
2. Enter a password of at least eight characters.

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### 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.

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### Monitor your cellular data network usage

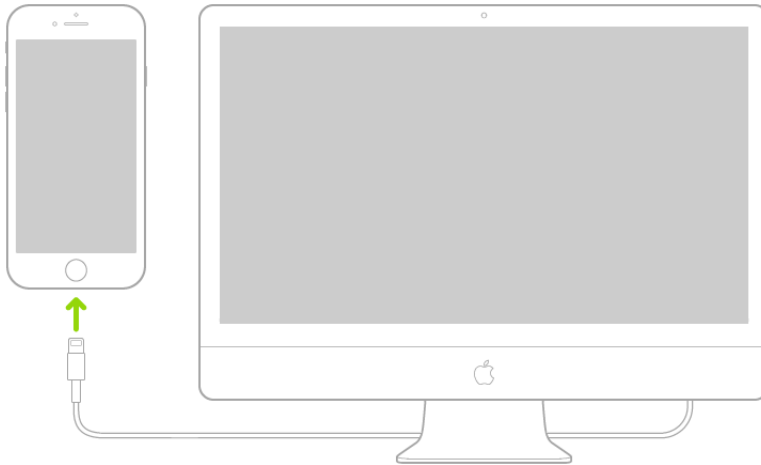
Go to Settings  > Cellular > Usage. See [View or change cellular settings on iPhone](#).

---

## Connect iPhone and your computer using USB

Using USB, you can directly connect iPhone and a Mac or Windows PC to [set up iPhone](#), [charge the iPhone battery](#), [share your iPhone Internet connection](#), [transfer files](#), and [sync content](#).

- 
1. Make sure you have one of the following:
    - Mac with a USB port and OS X 10.9 or later
    - PC with a USB port and Windows 7 or later
  2. Connect iPhone to your computer using the included Lightning to USB Cable or USB-C to Lightning Cable (iPhone 11 Pro or iPhone 11 Pro Max). If the included cable doesn't connect to your computer, do one of the following:
    - If your iPhone uses the Lightning to USB Cable and your computer has a USB-C port, use a USB-C to Lightning Cable or USB-C to USB Adapter (sold separately).
    - If your iPhone uses the USB-C to Lightning Cable and your computer has a USB port, use a Lightning to USB Cable (sold separately).



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## Transfer files between iPhone and your computer with iTunes

You can transfer files between iPhone and your computer by connecting them and using iTunes on either:

- A Mac (with a USB port and OS X 10.9 or later)
- A Windows PC (with a USB port and Windows 7 or later)

*Note:* You can also transfer files between iPhone and your computer or other iPhone, iPad, and iPod touch devices with [AirDrop](#) and [email attachments](#), and you can [use iCloud Drive](#) to make your files accessible on all your devices.

- 
1. Connect iPhone to your computer. (See [Connect iPhone and your computer using USB.](#))
  2. In iTunes on your computer, select iPhone, then click File Sharing.
  3. 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 [Use iTunes to share files between your computer and your iPhone, iPad, or iPod touch.](#)

## Sync iPhone with your computer using iTunes

With iTunes on your computer, you can sync your music, movies, TV shows, photos, and more. After you sync, the content on your iPhone matches the content in your iTunes Library on your computer.

To keep your iPhone up to date, you can use iCloud or iTunes, or both, depending on your needs. For example, you can use iCloud to automatically keep your contacts, calendars, email, messages, and more up to date on all your devices, and use iTunes to sync music from your computer to iPhone. See [Manage Apple ID and iCloud settings on iPhone](#) for information on using iCloud to securely store your data and content.

*Note:* If you use iCloud for features such as music, photos, calendar, and contacts, you can't use iTunes to sync their associated media and data.

---

### Sync your iPhone content with iTunes

To sync, your computer must have the latest version of iTunes, available from the [iTunes download website](#).

1. Connect iPhone to your Mac. (See [Connect iPhone and your computer using USB.](#))
2. On your computer, open iTunes, then click the iPhone button.
3. Choose the content types you want to sync.
4. Click the Apply button in the lower-right corner of the screen to save your sync settings; if syncing doesn't start automatically, click the Sync button.

After you turn on syncing, your content syncs each time you connect your iPhone to your computer and have iTunes open.

5. To sync using Wi-Fi after you set up syncing using USB, select your iPhone in iTunes, click Summary on the left side of the iTunes window, select "Sync with this [device] over Wi-Fi," then click Apply.

When the computer and iPhone are on the same Wi-Fi network, your iPhone appears in iTunes. Your iPhone syncs automatically whenever it's plugged in to power and iTunes is open on the computer.

Unless iPhone is actively syncing with your computer, you can disconnect it at any time. Look at the top of the iTunes screen on your computer or on iPhone to see if syncing is in progress. If you disconnect iPhone while it's syncing, some data may not get synced until the next time you connect iPhone to your computer.

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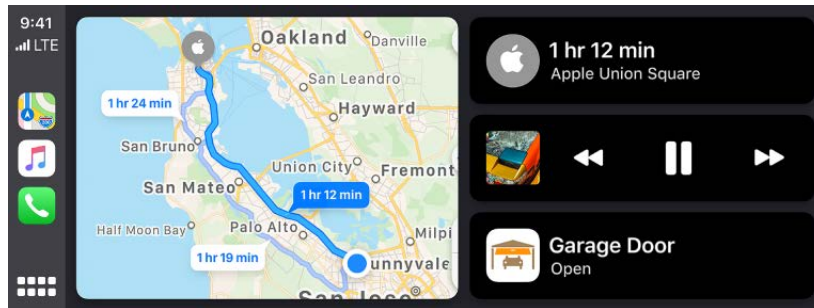


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# CarPlay

## Intro to CarPlay and iPhone

Connect your iPhone to CarPlay get turn-by-turn directions, make phone calls, listen to music, check your calendar, and more—all from your car's display.



*Note:* CarPlay is available only in certain regions (see the [iOS Feature Availability website](#)).

CarPlay is available on select automobiles (see the [CarPlay available models website](#)) and on select aftermarket navigation systems.


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

## Connect iPhone to CarPlay

Set up CarPlay by connecting your iPhone and your vehicle using your vehicle's USB port or its wireless capability.

---

### Ensure that Siri is enabled on iPhone

If Siri is not enabled on your iPhone, go to Settings  > Siri & Search, then turn on one of the following:

- Press Side Button for Siri (iPhone X and later)
- Press Home for Siri (other models)

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### Connect using USB

Connect iPhone to your vehicle's USB port using an Apple-approved Lightning to USB cable.

The USB port may be labeled with the CarPlay logo or an image of a smartphone.

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## Connect wirelessly

1. On a vehicle that supports wireless CarPlay, do one of the following (see your owner's guide for detailed instructions):
    - Press and hold the voice command button on your steering wheel.
    - Make sure your vehicle is in wireless or Bluetooth pairing mode.
  2. On your iPhone, go to Settings  > General > CarPlay > Available Cars.
  3. Choose your vehicle.
- 

On some vehicle models, CarPlay Home appears automatically when you connect iPhone.

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






## Use Siri to Control CarPlay

CarPlay uses Siri voice control, so you can ask for what you want. (You can also [use your car's built-in controls](#) to control CarPlay.)

---


## Ask Siri on CarPlay

1. Do one of the following until Siri beeps:
  - Press and hold the voice command button on the steering wheel.
  - Touch and hold the CarPlay Dashboard  or CarPlay Home  button on a touchscreen displaying CarPlay.
2. Ask Siri a question or to do something.

 **Ask Siri.** Say something like:

- "Get directions to the nearest coffee shop"
- "Call Eliza Block"
- "Play more songs like this one"
- "Show me the map."
- "What's my next meeting?"
- "What's the weather for today?"
- "Remind me to pack an umbrella when I get home"

---

 **Tip:** Instead of waiting for Siri to notice that you've stopped talking, you can press and continue to hold the voice command button on the steering wheel while you speak, then release it when you finish.



Siri also makes suggestions in CarPlay for what you might want to do next, such as operate the garage door when you arrive home or drive to your next meeting. See [About Siri Suggestions](#).



## Use your car's built-in controls to control CarPlay

CarPlay works with your vehicle's built-in controls—for example, a touchscreen, a rotary knob, or a touchpad. To learn how to operate your display, see the owner's guide that came with your vehicle. (You can also [use Siri](#) to control CarPlay.)

- 
- *Open an app:* Tap the app on the touchscreen, or turn the rotary knob to select the app, then press the knob.

- *Switch between CarPlay Dashboard and CarPlay Home:* CarPlay Dashboard displays several items you likely want to view or control, such as driving directions, audio playback, and Siri suggestions. CarPlay Home shows all your CarPlay apps organized into pages.

To go to CarPlay Home, tap  on the touchscreen, or turn the rotary knob to select , then press the knob.

To go to CarPlay Dashboard, tap , or turn the rotary knob to select , then press the knob.

- *Return to your vehicle's Home screen:* Select the icon with your vehicle's logo if it appears on CarPlay Home or, if available, the physical Home button on your radio.
- *Return to a recently used app:* Tap its icon on the edge of the touchscreen, or turn the rotary knob to the icon, then press the knob.
- *View additional apps:* If you have more than eight apps, some may appear on another page of CarPlay Home. To view them, swipe left on the touchscreen, or turn the rotary knob. (See [Use other apps with CarPlay.](#))
- *Scroll quickly through a list:* Tap the letters in the list on the right side of the touchscreen, or turn the rotary knob.
- *Control audio playback:* Use the audio playback controls on CarPlay Dashboard. Or from CarPlay Home, select Now Playing to view and control the current audio app.

---

## Get turn-by-turn directions with CarPlay


Use Siri or open Maps to get turn-by-turn directions, traffic conditions, and estimated travel time (not available in all regions).

*Note:* To get directions, iPhone must be connected to the Internet, and Location Services must be on. (See [Set which apps know your location on iPhone.](#))

---

### Find a route

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 saved as favorites and in collections, and find nearby attractions and services.


 **Ask Siri.** Say something like:




- "Find a gas station"

- "Give me directions home"
- "Take me to the Golden Gate Bridge"
- "Find a charging station"
- "Find coffee near me"

### [Learn how to control CarPlay with Siri](#)

Or you can use your vehicle's built-in controls to open Maps in CarPlay and select a route.

*Note:* If you're viewing CarPlay Dashboard and Maps doesn't appear in the recent apps list on the left, tap  to see pages of all of your CarPlay apps, including Maps.

1. With Maps open in CarPlay, do one of the following:
  - Select a place you saved as a favorite. (See [Save favorite places in Maps on iPhone.](#))
  - Select Destinations, then select a recent destination or scroll to select a destination you saved in a collection. (See [Create collections in Maps on iPhone.](#))
  - Select Search, then select  to speak a search phrase, or select  to use an onscreen keyboard (if available). You can also select a destination from a category of nearby services, such as Parking or Restaurants.
2. If multiple routes appear, use your vehicle's controls to select the route you prefer.
3. To call your destination before you leave, select .
4. To start turn-by-turn directions, select Go.

Maps shows directions from your current location.

When you arrive at your destination and exit your vehicle, a parked car marker appears in Maps on iPhone so you can easily [find your way](#) back to your vehicle.

---

### **Follow turn-by-turn directions**

As CarPlay follows your progress, it speaks turn-by-turn directions to your destination.

Do any of the following at any time during your trip:

- *End directions at any time:* Say something to Siri like "Stop navigating," or select the estimated time of arrival (ETA) display at the bottom left, then choose End Route.
- *Mute turn-by-turn directions:* Select the ETA display, then choose Mute.






- *Make a quick detour:* Select the ETA display, select Search, select a suggested service, then choose a destination.
  - *Switch between showing only the next turn or turn guidance:* Tap the turn directions in the top left. The ETA Only display shows only your next turn, which may be all you want when you're familiar with the route. The Guidance display provides additional information to help you navigate.
- 

## Change the map view in CarPlay

Find your location on a map, zoom in and out, and move the map to see the detail you need.

---







When you [follow turn-by-turn directions](#), you can tap the touchscreen or turn the rotary knob, then do one of the following:

- *Switch between detailed and high-level views:* To see a detailed 3D map with your heading at the top of the screen, select . To see the route overview in 2D with north at the top of the screen, select .
- *Zoom in or out:* Select  or .
- *Scroll the map:* Select , then select a direction arrow on one of the edges of the screen. To return to turn-by-turn directions, tap Resume.

On some touchscreens, you can also drag the map to scroll it.


---

You can also change the map view when not following directions. Tap the touchscreen or turn the rotary knob, then do one of the following:

- *Show your current location:* Tap . Your position is marked in the middle of the map.
- *View a 3D map:* Tap 3D. To return to a 2D map, tap 2D.
- *Show your heading at the top of the screen:* Tap . To resume showing north at the top, tap .
- *Zoom in or out:* Select  or .
- *Scroll the map:* Select , then select a direction arrow at the edges of the screen. When finished, tap Done.


## Make phone calls with CarPlay

Use CarPlay to make phone calls and listen to voicemail from your iPhone.

 **Ask Siri.** Say something like: “Call Eliza” or “What voicemails have I gotten?” [Learn how to control CarPlay with Siri.](#)

Or you can use your vehicle’s built-in controls to help make a call.

Open Phone in CarPlay, then select an option.

*Note:* If you’re viewing CarPlay Dashboard and Phone doesn’t appear in the recent apps list on the left, tap  to see pages of all of your CarPlay apps, including Phone.

## Play music with CarPlay

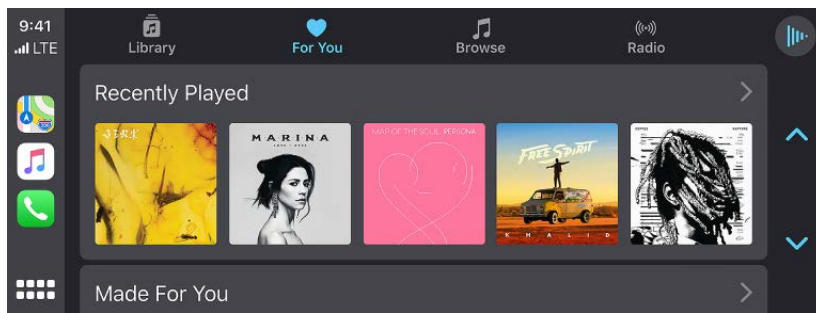
Use Siri or open Music in CarPlay to play music that’s available on your iPhone—including songs, artists, albums, playlists, and Radio.

 **Ask Siri.** Say something like:


- “Let’s hear the Acoustic playlist”
- “Play ‘You Need to Calm Down’ by Taylor Swift”
- “Play more songs like this one”
- “Play the rest of this album”
- “Skip this song”
- “Repeat this song”
- “Shuffle this playlist”
- “Tune into ESPN Radio”
- “Show me what’s playing”








[Learn how to control CarPlay with Siri](#)

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.’”




You can also use the controls on your vehicle’s steering wheel, buttons on the Now Playing screen, and CarPlay Dashboard to control music playback.

*Note:* If you’re viewing CarPlay Dashboard, tap  to see pages of all of your CarPlay apps, including Music.

Button	Description
	Pause playback.
	Play the current song.
	Skip to the next song. When pressed and held, fast forward through the current song.
	Return to the song’s beginning. When pressed again, return to the previous song. When pressed and held, rewind through the current song.
	Play songs in random order.
	Continually repeat the current song.
	Display controls to create a custom station based on the current song and to rate the current song.
Up Next	Display a list of songs queued for playback. (You can select a song from the list to skip the songs that proceed it.)


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

You can also tell Apple Music what you love and dislike to improve its future recommendations. Use Siri to say something like “I like this station.” Or use your vehicle’s built-in controls to select , then select Love or Dislike.




## Use Calendar with CarPlay

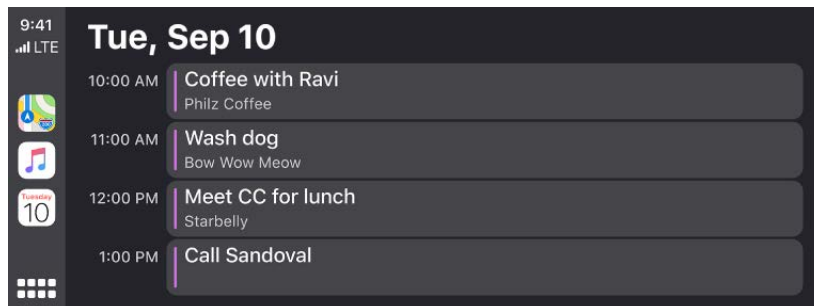
Use Siri or open Calendar in CarPlay to show and schedule events, appointments, and meetings.

 **Ask Siri.** Say something like: “Do I have a meeting at 10?” or “Where is my 3:30 meeting?” [Learn how to control CarPlay with Siri.](#)

Upcoming events appear in CarPlay Dashboard. You can also use your vehicle’s built-in controls to open Calendar in CarPlay to view upcoming events.

*Note:* If you’re viewing CarPlay Dashboard, tap  to see pages of all of your CarPlay apps, including Calendar.

To see more information about an event, select it. Options may allow you to get directions to the event or phone into it.



## Send and receive text messages with CarPlay

Use CarPlay to send, hear, and reply to text messages from your iPhone.


 **Ask Siri.** Say something like:


- “Text my wife”
- “Text Eliza Block I’m in traffic and I’ll be 15 minutes late to the meeting”
- “Read my text messages”

[Learn how to control CarPlay with Siri](#)

---

Or you can use your vehicle’s built-in controls to help send and receive messages. Open Messages in CarPlay, then do one of the following:

- *Hear unread messages or respond to a thread:* Select a conversation.
  - *Start a new conversation:* Select .
-


*Note:* If you're viewing CarPlay Dashboard and Messages doesn't appear in the recent apps list on the left, tap  to see pages of all of your CarPlay apps, including Messages.

## Play podcasts with CarPlay






Use CarPlay to play the podcasts that are on your iPhone.

 **Ask Siri.** Say something like: "Play 'The Daily' podcast" or "Rewind 15 seconds." [Learn how to control CarPlay with Siri.](#)

Or you can use your vehicle's built-in controls to open Podcasts and select a podcast to play.


*Note:* If you're viewing CarPlay Dashboard, tap  to see pages of all of your CarPlay apps, including Podcasts.

You can also use the controls on your vehicle's steering wheel, the buttons on the Now Playing screen, and CarPlay Dashboard to control podcast playback.


Button	Description
	Play
	Pause
	Jump back 15 seconds
	Jump forward 30 seconds
	Choose a faster or slower playback speed

## Play audiobooks with CarPlay

Use CarPlay to play the audiobooks that are on your iPhone.


 **Ask Siri.** Say something like: "Play Pride and Prejudice audiobook" or "Rewind 15 seconds." [Learn how to control CarPlay with Siri.](#)

Or you can use your vehicle's built-in controls to open Audiobooks and select a book to play. You can also use the controls on your vehicle's steering wheel, buttons on the Now Playing screen, and CarPlay Dashboard to control audiobook playback.

Note: If you're viewing CarPlay Dashboard, tap  to see pages of all of your CarPlay apps, including Audiobooks.

## Control your home from CarPlay

Use Siri or suggestions on CarPlay Dashboard to control HomeKit-enabled accessories, such as garage doors, lights, and door locks.

 **Ask Siri.** Say something like:

- "Open the garage door"
- "Did I leave the garage door open?"
- "Close the garage door"
- "Lock the front door"
- "Turn on the lights"
- "Turn off the lights"

[Learn how to control CarPlay with Siri](#)

## Use other apps with CarPlay

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

 **Ask Siri.** Say something like:





- "Remind me to pack an umbrella when I get home"
- "Add milk to my grocery list"
- "Set my alarm for 6:00 a.m. tomorrow"
- "What's the weather for today?"

[Learn how to control CarPlay with Siri](#)

CarPlay also works with select third-party apps that you download to your iPhone. Compatible apps—including audio, navigation, messaging, and voice-calling apps, and apps made by your vehicle manufacturer—show up automatically on CarPlay Home and can be controlled with Siri. For example, you can ask Siri to give you directions from your favorite navigation app.

## Rearrange the icons on CarPlay Home

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1. When you're not operating your vehicle, open Settings on your iPhone, go to General > CarPlay, select your vehicle, then tap Customize.
  2. Do one of the following:
    - *Move an icon:* Drag  up or down in the list.
    - *Remove an icon:* Tap  next to the icon, then tap Remove.  
  
Only icons that have  next to them can be removed.
    - *Add an icon back to CarPlay:* Below More Apps at the bottom of the page, tap  next to the icon.
- 

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

## Change settings in CarPlay


In Settings in CarPlay, you can turn on Do Not Disturb While Driving, switch the appearance of CarPlay, turn suggestions in CarPlay Dashboard off or on, and show or hide album art.

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### Use Do Not Disturb While Driving with CarPlay

Do Not Disturb While Driving helps you stay focused on the road. While your iPhone is connected to CarPlay, notifications and text messages are silenced or limited.

1. Open Settings in CarPlay using your vehicle's built-in controls.

*Note:* If you're viewing CarPlay Dashboard and Settings doesn't appear in the recent apps list on the left, tap  to see pages of all of your CarPlay apps, including Settings.

2. Select Do Not Disturb While Driving.
3. Turn on Activate With CarPlay.

When you're not driving, you can do the following in Settings  on iPhone:

- Choose who to [send an automatic reply to](#).
  - [Customize the auto-reply text message](#).
-

---

## **Switch the appearance of CarPlay**

CarPlay is set to dark appearance by default in most vehicles. If you prefer to have CarPlay automatically switch between dark and light appearance, do the following:

1. Open Settings in CarPlay using your vehicle's built-in controls.
2. Select Appearance.
3. Select Always Dark.

---

## **Hide or show suggestions in CarPlay Dashboard**

Open Settings in CarPlay using your vehicle's built-in controls, then turn Suggestions in CarPlay off or on.

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## **Hide or show album art**

Open Settings in CarPlay using your vehicle's built-in controls, then turn Show Album Art off or on.


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# Privacy and security


## Privacy

### Set which apps know your location on iPhone

With Location Services, you can choose which location-based apps—for example, Reminders, Maps, Camera, and Wallet—can gather and use data indicating your location. Your approximate location is determined using information about your cellular network, local Wi-Fi networks (if you have Wi-Fi turned on), and GPS (if available). When an app is using Location Services,  appears in the status bar.


---

#### Turn on Location Services

If you didn't turn on Location Services when you first set up iPhone, go to Settings  > Privacy > Location Services, then turn on Location Services.

---

#### Turn off Location Services

Go to Settings  > Privacy > Location Services, then choose from the options to turn off Location Services for some apps and services, or for all of them.



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.

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

---

#### Change Location Services settings for system services



Several system services, such as location-based suggestions and location-based ads, use Location Services.

To see the status for each service, to turn Location Services on or off for each service, or to show  in the status bar when enabled system services use your location, go to Settings  > Privacy > Location Services > System Services.

---

## Delete significant locations


The Maps app keeps track of the places you've recently visited, as well as when and how often you visited them. Maps uses this information to provide you with personalized services like predictive traffic routing. You can delete this information.

1. Go to Settings  > Privacy > Location Services > System Services > Significant Locations.
  2. Do one of the following:
    - *Delete a single location:* Tap the location, tap Edit, then tap .
    - *Delete all locations:* Tap Clear History. This clears all your significant locations on any devices that are signed in with the same Apple ID.
- 

## Change app access to private data on iPhone

Change which apps and features have access to private information in Contacts, Calendar, Reminders, Photos, Health, Home, and more.

---

1. Go to Settings  > Privacy.
  2. Tap a category of data, such as Contacts, Photos, Microphone, or Motion & Fitness.

The list shows the apps and features that requested access to that data, along with the level of access that you allowed.
  3. Tap an app or feature, then choose a different level of access or deny access.
- 


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

## Limit ad targeting on iPhone

Turn off location-based ads, reset or limit targeted advertising in App Store and News, and prevent cross-site tracking in Safari.


---

### Turn off location-based ads and offers

Go to Settings  > Privacy > Location Services > System Services, then turn off Location-Based Apple Ads.

---

## Reset or limit ad tracking

Go to Settings  > Privacy > Advertising (at the bottom of the screen), then do any of the following:

- *Clear the data used to determine which ads might be relevant to you:* Tap Reset Advertising Identifier.
- *Opt out of targeted advertising:* Turn on Limit Ad Tracking.

*Note:* When 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 the App Store and News. Your personal data isn't provided to other parties.

---

## Keep your Safari browsing activities to yourself

While browsing the web, you can prevent cross-site tracking, block cookies, erase your browsing history, and more. See [Browse privately in Safari on iPhone](#) for Safari.

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## Learn more about privacy and Apple's advertising platform

Go to Settings  > Privacy > Advertising > About Advertising & Privacy.

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# Security

## Set a passcode on iPhone

For better security, set a passcode that must be entered to unlock iPhone when you turn it on or wake it. Setting a passcode turns on data protection, which uses your passcode as a key to encrypt Mail messages and attachments stored on iPhone with 256-bit AES encryption. (Other apps may also use data protection.)

---

### Set or change the passcode

1. Go to Settings , then do one of the following:
  - *iPhone X and later:* Tap Face ID & Passcode.
  - *Other models:* Tap Touch ID & Passcode.
2. Tap Turn Passcode On or Change Passcode.

To view options for creating a password, tap Passcode Options. The most secure options are Custom Alphanumeric Code and Custom Numeric Code.

After you set a passcode, you can [use Face ID](#) or [Touch ID](#) to unlock iPhone (depending on your model). For additional security, however, you must always enter your passcode to unlock your iPhone under the following conditions:

- You turn on or restart your iPhone.
- You haven't unlocked your iPhone for more than 48 hours.
- You haven't unlocked your iPhone with the passcode in the last 6.5 days, and you haven't unlocked it with Face ID or Touch ID in the last 4 hours.
- Your iPhone receives a remote lock command.
- There are five unsuccessful attempts to unlock your iPhone with Face ID or Touch ID.
- An attempt to use Emergency SOS is initiated (see [Make emergency calls on iPhone](#)).
- An attempt to view your Medical ID is initiated (see [Create a Medical ID in Health on iPhone](#)).

---


### Change when iPhone automatically locks

Go to Settings  > Display & Brightness > Auto-Lock, then set a length of time.

---

## Erase data after 10 failed passcodes


Set iPhone to erase all information, media, and personal settings after 10 consecutive failed passcode attempts.

1. Go to Settings , then do one of the following:
  - *iPhone X and later:* Tap Face ID & Passcode.
  - *Other models:* Tap Touch ID & Passcode.
2. Turn on Erase Data.

After all data is erased, you must [restore your device from a backup](#) or [set it up again as new](#).

---

## Turn off the passcode

1. Go to Settings , then do one of the following:
  - *iPhone X and later:* Tap Face ID & Passcode.
  - *Other models:* Tap Touch ID & Passcode.
2. Tap Turn Passcode Off.

## Reset the passcode

If you enter the wrong passcode six times in a row, you'll be locked out of your device, and you'll receive a message that says iPhone is disabled. If you can't remember your passcode, you can erase your device with iTunes or with recovery mode, 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.)

See the Apple Support article [If you forgot the passcode for your iPhone, iPad, or iPod touch, or your device is disabled](#).

---


## Set up Face ID on iPhone

Use Face ID (iPhone X and later) to unlock iPhone, authorize purchases and payments, and sign in to many third-party apps by simply glancing at your iPhone.

To use Face ID, you must also [set up a passcode](#) on your iPhone.

---

## Set up Face ID or add an alternate appearance

- If you didn't set up Face ID when you first set up your iPhone, go to Settings  > Face ID & Passcode > Set up Face ID, then follow the onscreen instructions.
- To set up an additional appearance for Face ID to recognize, go to Settings > Face ID & Passcode > Set Up an Alternate Appearance, then follow the onscreen instructions.



If you have physical limitations, you can tap Accessibility Options during Face ID set up. When you do this, setting up facial recognition doesn't require the full range of head motion. Using Face ID is still secure, but it requires more consistency in how you look at iPhone.

Face ID also has an accessibility feature you can use if you're blind or have low vision. If you don't want Face ID to require that you look at iPhone with your eyes open, go to Settings > Accessibility, then turn off Require Attention for Face ID. This feature is automatically turned off if you turn on VoiceOver when you first set up iPhone. See [Change Face ID and attention settings on iPhone](#).

---

## Temporarily disable Face ID

You can temporarily prevent Face ID from unlocking your iPhone.


1. Press and hold the side button and either volume button for 2 seconds.
2. After the sliders appear, press the side button to immediately lock iPhone.

iPhone locks automatically if you don't touch the screen for a minute or so.

The next time you unlock iPhone with your passcode, Face ID is enabled again.

---

## Turn off Face ID

1. Go to Settings  > Face ID & Passcode.
  2. Do one of the following:
    - *Turn off Face ID for specific items only:* Turn off one or more options: iPhone Unlock, Apple Pay, iTunes & App Store, or Safari AutoFill.
    - *Turn off Face ID:* Tap Reset Face ID.
- 

If your device is lost or stolen, you can prevent Face ID from being used to unlock your device with Find My iPhone Lost Mode. (See [Add or remove a device in Find My on iPhone](#).)

For more information about Face ID, see [About Face ID advanced technology](#).


## Set up Touch ID on iPhone

Use Touch ID (supported models) to unlock iPhone, authorize purchases and payments, and sign in to many third-party apps by pressing the Home button with your finger or thumb.

To use Touch ID, you must also [set up a passcode](#) on your iPhone.

---

## Turn on fingerprint recognition

1. If you didn't turn on fingerprint recognition when you first set up your iPhone, go to Settings  > Touch ID & Passcode.
2. Turn on any of the options, then follow the onscreen instructions.


If you turn on iTunes & App Store, you're asked for your Apple ID password when you make your first purchase from the App Store, Apple Books, or iTunes Store. When you make your next purchases, you're asked to use Touch ID.

*Note:* If you can't add a fingerprint or unlock your iPhone using Touch ID, see the Apple Support article [If Touch ID isn't working](#).

---

### **Add a fingerprint**

You can add multiple fingerprints (both of your thumbs and forefingers, for example).

1. Go to Settings  > Touch ID & Passcode.
  2. Tap Add a Fingerprint.
  3. Follow the onscreen instructions.
- 

### **Name or delete a fingerprint**

1. Go to Settings  > Touch ID & Passcode.

If you added more than one fingerprint, place a finger on the Home button to identify its print.

2. Tap the fingerprint, then enter a name (such as "Thumb") or tap Delete Fingerprint.
- 

### **Unlock iPhone by touching instead of pressing the Home button**

Go to Settings  > Accessibility > Home Button, then turn on Rest Finger to Open.

---


### **Turn off Touch ID**

Go to Settings  > Touch ID & Passcode, then turn off one or more of the options.

---

## **Change access to items when iPhone is locked**

By default, some commonly used features (such as Today View and Control Center) are available when iPhone is locked. (For security, USB connections aren't allowed when iPhone is locked.) You can change whether any of these items can be accessed from the Lock screen.

Go to Settings  > Face ID & Passcode (iPhone X and later) or Touch ID & Passcode (other models). Then select your options.

You can turn access on or off to the following features while iPhone is locked:

- Today View (see [View and organize Today View on iPhone](#))
- Recent notifications (see [View and respond to notifications on iPhone](#))
- Control Center (see [Use and customize Control Center on iPhone](#))

- Siri (see [Ask Siri on iPhone](#))
- Replying to messages (see [Send and receive text messages on iPhone](#))
- Home Control (see [A look at Home on iPhone](#))
- Wallet (see [Add and manage passes in Wallet on iPhone](#))
- Returning missed calls (see [Manage incoming calls on iPhone](#))
- Connecting to a Mac, a PC, or an accessory with USB (such as when you connect iPhone to your computer using USB)

## Sign in to websites and apps with your Apple ID on iPhone

Use your Apple ID to securely sign in to apps and websites so you don't need to fill out forms or create and remember new passwords.

---

### Create an account for a website or an app

When the website or app asks you to create an account, tap Sign in with Apple, then follow the onscreen instructions.

The only information you need to share is your name and email address, but if you don't want to share your email address, choose Hide My Email while creating your account. Apple automatically supplies a unique email address for you that forwards any website or app-related information to your real address.

---

### Sign in to your account

When the website or app asks you to sign in, tap Sign in with Apple, then use Face ID or Touch ID, depending on your model, or your iPhone passcode to authenticate yourself.


Without entering your Apple ID or password, you can also sign in from other devices, such as iPad, Watch, Mac, and Apple TV, where you're signed in with the same Apple ID. To sign in from an Android app, a Windows app, or any web browser, enter your Apple ID and Apple ID password.

The Sign in with Apple feature uses two-factor authentication. With two-factor authentication, your account can be accessed only on devices you trust, like your iPhone, iPad, or Mac. For information about how two-factor authentication works, see the Apple Support article [Two-factor authentication for Apple ID](#).

---

# Create website and app passwords on iPhone

When you sign up for services on websites and in apps, you can let iPhone create strong passwords for many of your accounts, or you can create your own passwords. iPhone stores the passwords in iCloud Keychain and fills them in for you automatically, so you don't have to memorize them. If you use the same password in more than one account, iPhone flags it for you to change.

*Note:* For iPhone to create and store passwords, iCloud Keychain must be turned on. Go to Settings  > [your name] > iCloud > Keychain.

---

## Create a password for a new account

1. On the new account screen for the website or app, enter a new account name.

For supported websites and apps, iPhone suggests a unique, complex password.

2. Do one of the following:

- *Choose the suggested password:* Tap Use Strong Password.
- *Make up your own password:* Tap Choose My Own Password.


3. To later allow iPhone to automatically fill in the password for you, tap Yes when you're asked if you want to save the password.

---

## Automatically fill in a saved password

1. On the sign-in screen for the website or app, tap the account name field.

2. Do one of the following:


- Tap the account suggested at the bottom of the screen or near the top of the keyboard.
- Tap , tap Other Passwords, then tap an account.

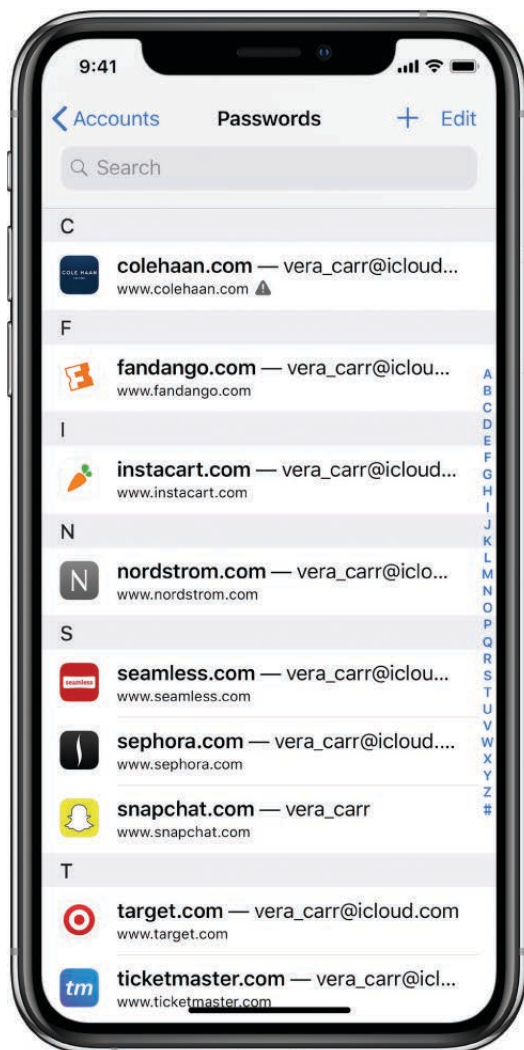
The password is filled in. To see the password, tap .

To enter an account or password that isn't saved, tap  on the sign-in screen.

---



## View your saved passwords

 **Ask Siri.** Say something like: "Show me my passwords." [Learn how to ask Siri.](#)




To view the password for an account, tap it.



You can also view your passwords without asking Siri. Do one of the following, then tap an account to view its password:

- Go to Settings  > Passwords & Accounts > Website & App Passwords.
- On a sign-in screen, tap , then tap Other Passwords.

---

### Replace a reused password

To help you replace reused passwords with unique ones, reused passwords are flagged with  in the passwords list.

1. Go to Settings  > Passwords & Accounts > Website & App Passwords.
  2. Tap any account flagged with a .
  3. Tap Change Password, then change your password on the website or in the app that appears.
-



## Prevent iPhone from automatically filling in passwords

Go to Settings  > Passwords & Accounts, then turn off AutoFill Passwords.

---

## Share website and app passwords with AirDrop on iPhone


Use AirDrop to securely share passwords with someone using an iPhone, iPad, iPod touch, or Mac.

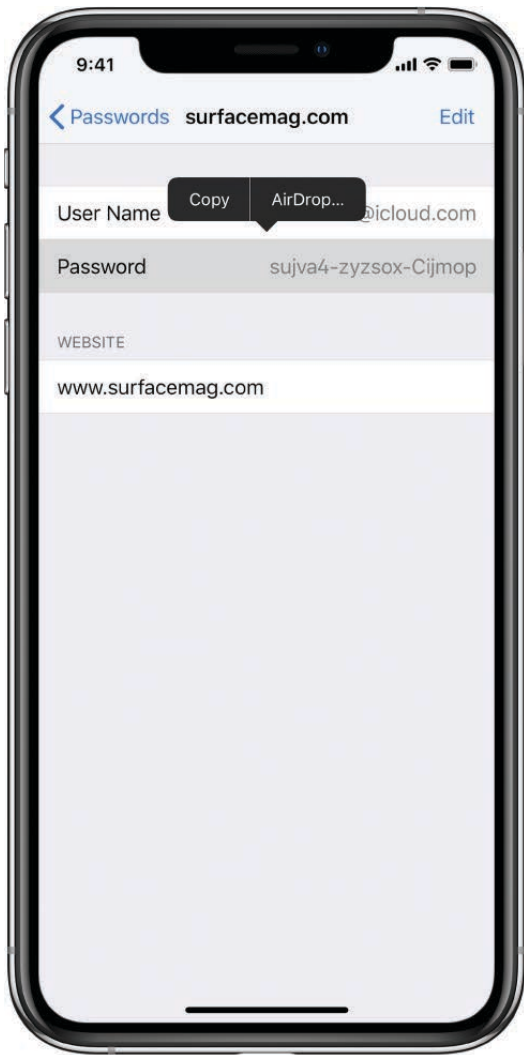
[iCloud Keychain must be set up](#) on your iPhone.

---

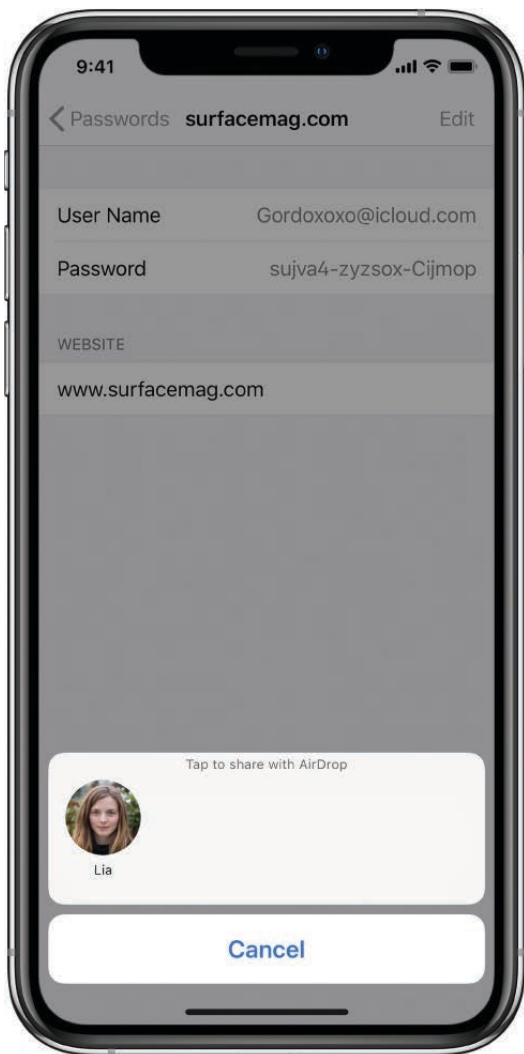
### Send a password

The person you're sharing with must be in your Contacts. To share with someone on iPhone, iPad, or iPod touch, ask them to open Control Center and [allow AirDrop to receive items](#). To share with someone on a Mac, ask them to allow themselves to be discovered in AirDrop in the Finder.

1. On your iPhone, go to Settings  > Passwords & Accounts > Website & App Passwords.
2. Tap the account you want to share.
3. Tap Password, then tap AirDrop.



4. Tap the contact you want to send the password to.



---

## Receive a password

To receive a password, you must be in the sender's contacts.

1. If you haven't already done so, [allow AirDrop to receive items](#).
2. When you receive a request to accept a password from someone else, tap Accept.

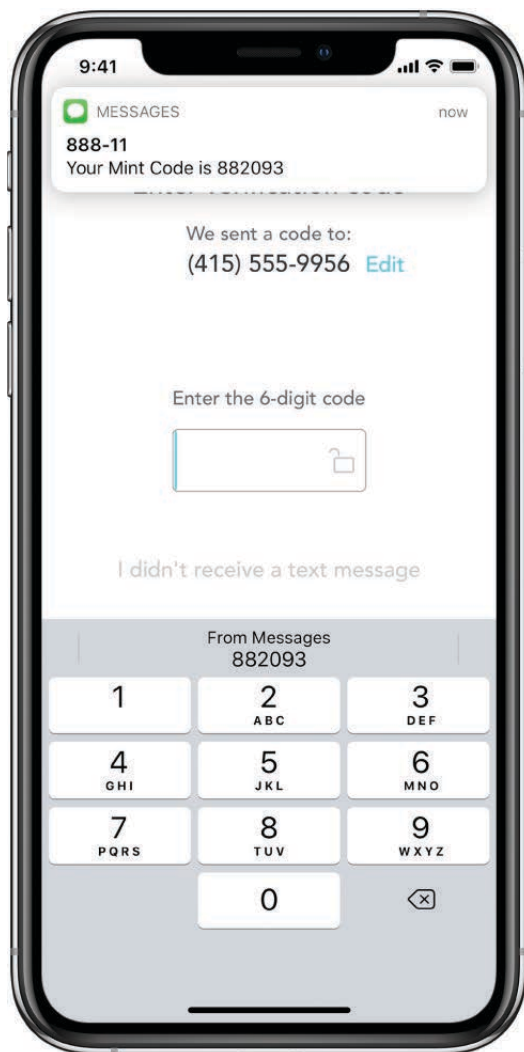
The password is saved on your iPhone, where you can [view it](#) and let iPhone [automatically fill it in](#) on the sign-in screen for the account.

---

## Automatically fill in SMS passcodes on iPhone

When you sign in to some apps and websites, a one-time SMS passcode is sent to your iPhone. As a security measure, you are required to enter the code into the app or website. iPhone can detect the passcode in Messages and display it above the keyboard.

To use the passcode, tap it.



*Note:* With Continuity, all the SMS/MMS messages you send and receive on iPhone can also appear on your other iPhone, iPad, and iPod touch devices and your Mac. See the Apple Support article [Use Continuity to connect your Mac, iPhone, iPad, iPod touch, and Apple Watch](#).

## Make your Apple ID more secure from iPhone


Two-factor authentication ensures that only you can access your Apple ID account, even if someone else knows your Apple ID password. Two-factor authentication is built into iOS 9 and later, iPadOS 13, and OS X 10.11 and later.

For information about how two-factor authentication works, see the Apple Support article [Two-factor authentication for Apple ID](#).

*Note:* If you use two-step verification and upgrade to iOS 11 or later, your account might be migrated to use two-factor authentication. See the Apple Support article [Switch from two-step verification to two-factor authentication](#).

---

## Turn on two-factor authentication

1. Go to Settings  > [your name] > Password & Security.
2. Tap Turn On Two-Factor Authentication, then tap Continue.
3. Enter a *trusted phone number*, a phone number where you want to receive verification codes for two-factor authentication (it can be the number for your iPhone).

You can choose to receive the codes by text message or automated phone call.

4. Tap Next.
5. Enter the verification code sent to your trusted phone number.

To send or resend a verification code, tap "Didn't get a verification code?"

You won't be asked for a verification code again on your iPhone unless you sign out completely, erase your iPhone, sign in to your [Apple ID account](#) page in Safari, or need to change your Apple ID password for security reasons.



Certain features in the latest version of iOS require the security of two-factor authentication, which is designed to protect your information. After you turn on two-factor authentication, you have a two-week period during which you can unenroll. After that period, you can't turn off two-factor authentication. To unenroll, open your enrollment confirmation email and click the link to return to your previous security settings. Keep in mind that unenrolling makes your account less secure and means you can't use features that require a higher level of security.

---

## Add another device or a Mac as a trusted device

The new device must meet these minimum system requirements: iOS 9, iPadOS 13, or OS X 10.11.

1. After you turn on two-factor authentication on one device, sign in with the same Apple ID on another device.

Even if you've already signed in, sign in again. (On iPhone, iPad, or iPod touch, go to Settings  > [your name]. On a Mac, choose Apple menu  > System Preferences > iCloud.)

2. When you're asked to enter a six-digit verification code, do one of the following:
  - *Obtain the verification code on your iPhone or another trusted device that's connected to the Internet:* Look for a notification on that device, then tap or click Allow to make the code appear on that device. (A trusted device is an iPhone, iPad, iPod touch, or Mac on which you've already turned on two-factor authentication and on which you're signed in with your Apple ID.)



- *Obtain the verification at a trusted phone number:* If a trusted device isn't available, tap "Didn't get a verification code?" then choose a phone number.
  - *Obtain the verification code on a trusted device that's offline:* On a trusted iPhone, iPad, or iPod touch, go to Settings > [your name] > Password & Security, then tap Get Verification Code. On a trusted Mac, choose Apple menu > System Preferences > iCloud > Account Details > Security, then click Get Verification Code.
3. Enter the verification code on the new device.

You won't be asked for a verification code again unless you sign out completely, erase your device, sign in to your Apple ID account page in Safari, or need to change your Apple ID password for security reasons.

---

### **Add or remove a trusted phone number**

When you enrolled in two-factor authentication, you had to verify one trusted phone number. You should also consider adding other phone numbers you can access, such as a home phone, or a number used by a family member or close friend.

1. Go to Settings  > [your name] > Password & Security.
2. Tap Edit (above the list of trusted phone numbers), then do one of the following:
  - *Add a number:* Tap Add a Trusted Phone Number.
  - *Remove a number:* Tap  next to the phone number.

Trusted phone numbers don't automatically receive verification codes. If you can't access any trusted devices when setting up a new device for two-factor authentication, tap "Didn't get a verification code?" on the new device, then choose one of your trusted phone numbers to receive the verification code.

---

### **View or remove trusted devices**

1. Go to Settings  > [your name].

A list of the devices associated with your Apple ID appears near the bottom of the screen.

2. To see if a listed device is trusted, tap it, then look for "This device is trusted and can receive Apple ID verification codes."
  3. To remove a device, tap it, then tap Remove from Account.
-

## Generate a password for an app that signs in to your Apple ID account

With two-factor authentication, you need an app-specific password to sign in to your Apple ID account from a third-party app or service—such as an email, contacts, or calendar app. After you generate the app-specific password, use it to sign in to your Apple ID account from the app and access the information you store in iCloud.

1. Sign in to your [Apple ID account](#).
2. Tap Generate Password (below App-Specific Passwords).
3. Follow the onscreen instructions.

After you generate your app-specific password, enter or paste it into the password field of the app as you would normally.

For more information, see the Apple Support article [Using app-specific passwords](#).

---


## Set up iCloud Keychain on iPhone

Use iCloud Keychain to keep your website and app passwords, credit card information, Wi-Fi network information, and other account information up to date across all of your approved devices and Mac computers. (iOS 7, iPadOS 13, OS X 10.9, or later required.) iCloud Keychain is secured with 256-bit AES encryption during storage and transmission, and its data cannot be read by Apple.

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

---

### Set up iCloud Keychain

If you didn't turn on iCloud Keychain when you first set up your iPhone, go to Settings  > [your name] > iCloud > Keychain, turn on iCloud Keychain, then follow the onscreen instructions.

When you set up iCloud Keychain, you create an iCloud Security Code, which you can use to authorize additional devices that use your iCloud Keychain. It's also used for verification 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 an additional device

When you turn on iCloud Keychain on an additional device, your other devices using iCloud Keychain receive a notification requesting your approval of the additional device.

On one of your other devices, approve the additional device. Your iCloud Keychain automatically begins updating on the additional device.

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

---

### **Reset or create an 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](#).

---

To learn more about iCloud Keychain, see the Apple Support article [Set up iCloud Keychain](#).

## **Use VPN on iPhone**

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.



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# Restart, update, reset, and restore


## Restart iPhone

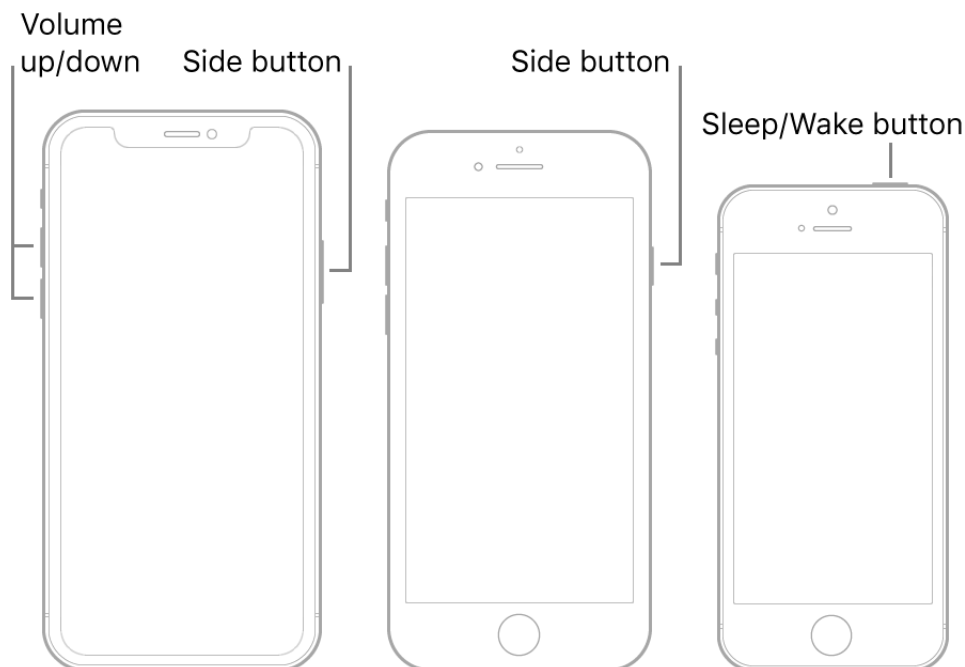
If your iPhone isn't working right, try restarting it.

---

### Turn iPhone off and on

1. To turn iPhone off, do one of following:

- *iPhone X and later:* Simultaneously press and hold the side button and either volume button until the sliders appear, then drag the top slider.
- *Other models:* Press and hold the side button or Sleep/Wake button (depending on your model), then drag the slider.
- *All models:* Go to Settings  > General > Shut Down, then drag the slider.



2. To turn iPhone back on, press and hold the side button or Sleep/Wake button (depending on your model) until the Apple logo appears.

---

If you can't turn iPhone off and on, try [forcing it to restart](#).

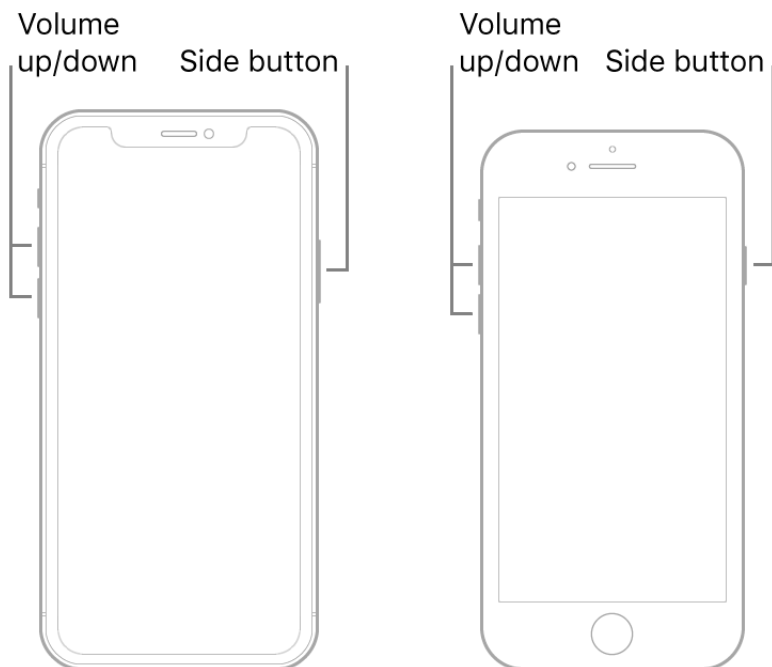
# Force restart iPhone

If iPhone isn't responding, and you can't [turn it off and on](#), try forcing it to restart.

---

## Force restart iPhone X and later, iPhone 8, or iPhone 8 Plus:

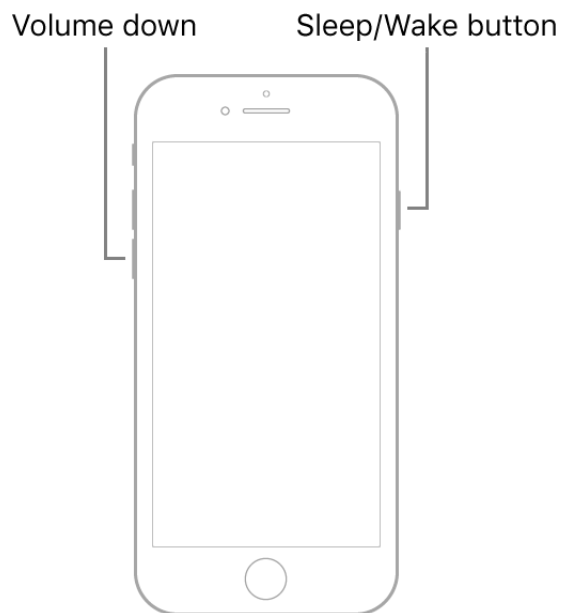
1. Press and release the volume up button.
2. Press and release the volume down button.
3. Press and hold the side button.
4. When the Apple logo appears, release the button.



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## Force restart iPhone 7 or iPhone 7 Plus

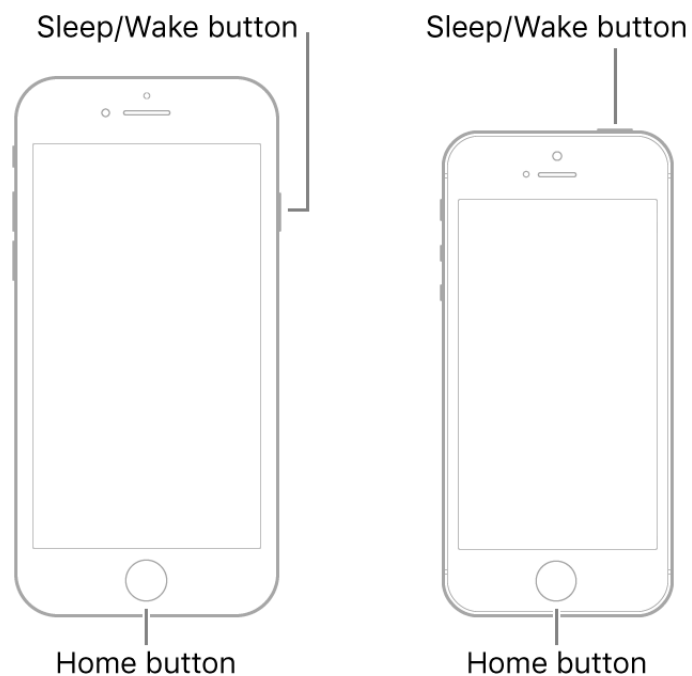
1. Press and hold both the volume down button and the Sleep/Wake button.
2. When the Apple logo appears, release both buttons.



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### Force restart iPhone 6s, iPhone 6s Plus, or iPhone SE

1. Press and hold both the Sleep/Wake button and the Home button.
2. When the Apple logo appears, release both buttons.



---

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


## Update iOS software on iPhone

When you update the iOS software, your data and settings remain unchanged.

*Note:* Set up iPhone to [back up](#) automatically, or back up your device manually, before you update.

---


### Update iPhone automatically

If you didn't turn on automatic updates when you first set up iPhone, go to Settings  > General > Software Update > Automatic Updates, then turn on Automatic Updates.

iPhone automatically installs updates wirelessly, and you're notified before the update occurs. To see the currently installed version of iOS, go to Settings > General > Software Update.

---

### Update iPhone manually

Go to Settings  > General > Software Update > Automatic Updates, then turn off Automatic Updates.

At any time, you can check for and install software updates. Go to Settings > General > Software Update. The screen shows the currently installed version of iOS and whether an update is available.

---

### Update using iTunes

[Sync iPhone with your computer using iTunes.](#)


iTunes checks for available software updates each time you sync.

---

See the Apple Support articles [Update to iOS 12](#) and [If you can't update or restore your iPhone, iPad, or iPod touch](#).


## Back up iPhone using iCloud or iTunes

You can back up iPhone using iCloud or iTunes. To decide which method is best for you, see [About backups for iOS devices](#).

 **Tip:** If you replace your iPhone, you can use its backup to transfer your information to the new device. See [Restore all content to iPhone from a backup](#).

---

### Back up iPhone using iCloud

1. Go to Settings  > [your name] > iCloud > iCloud Backup.
2. Turn on iCloud Backup.
3. To perform a manual backup, tap Back Up Now.

To view your iCloud backups, go to Settings > [your name] > iCloud > Manage Storage > Backups. To delete a backup, choose a backup from the list, then tap Delete Backup.

---

### Back up iPhone using iTunes

1. [Connect iPhone and your computer using USB](#).
2. On your computer, open iTunes.
3. Click the iPhone button, then click Summary in the sidebar.
4. In the Summary pane, select "Encrypt iPhone backup" if you want to encrypt the backup stored on your computer.

Encrypted backups are indicated by , and a password is required to restore them.

5. Click one of the following:
  - *Back Up Now*: Starts a manual backup.
  - *This computer*: Turns on automatic backups that start whenever you connect iPhone to your computer.

To view or delete iTunes backups, choose iTunes > Preferences, then click Devices.

---


If you need more help deciding whether to back up iPhone using iCloud or iTunes, see the Apple Support article [About backups for iOS devices](#).

## Return iPhone settings to their defaults

You can return settings to their defaults without erasing your content.

If you want to save your settings, [back up using iCloud or iTunes](#) before returning them to their defaults. For example, if you're trying to solve a problem but returning settings to their defaults doesn't help, you might want to restore your previous settings from a back up.

---

1. Go to Settings  > General > Reset.
2. Choose an option:

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

- *Reset All Settings:* All settings—including network settings, the keyboard dictionary, the Home screen layout, location settings, privacy settings, and Apple Pay cards—are removed or reset to their defaults. No data or media are deleted.
- *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 or mobile device management (MDM) are removed. 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.

To remove VPN settings installed by a configuration profile, go to Settings > General > Profiles & Device Management, select the configuration profile, then tap Remove Profile. This also removes other settings and accounts provided by the profile. See [Install or remove configuration profiles on iPhone](#) in this guide.

To remove network settings installed by MDM, go to Settings > General > Profiles & Device Management, select the management, then tap Remove Management. This also removes other settings and certificates provided by MDM. See "Mobile device management (MDM)" in the [iOS Deployment Reference](#).

- *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.

---

If you want to use iTunes to delete your content along with your settings and then restore iPhone to factory settings, see [Erase all content and settings from iPhone with iTunes](#). If you want to completely erase all content and settings, see [Erase all content and settings from iPhone](#).

## Restore all content to iPhone from a backup


You can restore content and settings from a backup.

If you're asked to enter your passcode and you've forgotten it, see [Reset the passcode](#). If you're asked to enter your Apple ID password and you've forgotten it, see the [Recover your Apple ID website](#).

---

## Erase then restore iPhone from a backup

**Important:** You must first create a backup of your iPhone. See [Back up iPhone using iCloud or iTunes](#).

1. Go to Settings  > General > Reset.
2. Tap Erase All Content and Settings.
3. Follow the setup assistant when iPhone restarts.

The setup assistant gives you the option to restore iPhone from an iCloud or iTunes backup. (See [Turn on and set up iPhone](#).)

---

## Restore iPhone from an iTunes backup

**Important:** You must first create a backup of your iPhone in iTunes. See [Back up iPhone using iCloud or iTunes](#).

1. Connect iPhone to the computer you normally back up to.
  2. Open iTunes on the computer, then in iTunes choose File > Devices > Restore from Backup.
- 

See the Apple Support articles [Restore your iPhone, iPad, or iPod touch from a backup](#) and [If you can't update or restore your iPhone, iPad, or iPod touch](#). For more information about iTunes, refer to the Help in the app.

## Restore purchased and deleted items to iPhone

You can redownload items from the App Store, Book Store, and iTunes Store without repurchasing them. If you're part of a [Family Sharing](#) group, you can download items purchased by other family members, too. To restore purchases that aren't on your iPhone, see the Apple Support article [Redownload apps, music, movies, TV shows, and books from the App Store, iTunes Store, and Apple Books](#).

You can also [recover recently deleted email, photos, notes](#), and [voice memos](#).

## Sell or give away your iPhone

Before you sell or give away your iPhone, see the Apple Support article [What to do before you sell or give 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 iPhone using iCloud or iTunes.](#) If you replace one iPhone with another, you can [use the setup assistant](#) to restore the backup to your new iPhone.
- [Erase all content and settings](#) that contain personal information. If you previously [turned on Find my iPhone](#), Activation Lock is removed when you erase iPhone, making it ready for a new owner.

## Erase all content and settings from iPhone

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

- 
1. Go to Settings  > General > Reset.

If you're asked to enter your passcode and you've forgotten it, see [Reset the passcode](#). If you're asked to enter your Apple ID password and you've forgotten it, see the [Recover your Apple ID website](#).

2. Tap Erase All Content and Settings.

---

When iPhone restarts with all content and settings erased, the setup assistant gives you the option to either set up iPhone as new or restore it from an iCloud or iTunes backup. (See [Turn on and set up iPhone.](#))

## Erase all content and settings from iPhone with iTunes

You can restore content and settings from a backup, or restore iPhone to factory settings.

- 
1. [Connect iPhone and your computer using USB.](#)
  2. Open iTunes on the computer.
  3. Click the iPhone button near the top of the iTunes window.




4. In the Summary pane, click Restore iPhone.

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See the Apple Support article [If you can't update or restore your iPhone, iPad, or iPod touch](#). For more information about iTunes, refer to the Help in the app.

## Install or remove configuration profiles on iPhone

Configuration profiles define settings for using iPhone with corporate or school networks or accounts. You might be asked to install a configuration profile that was sent to you in an email, or one that is downloaded from a webpage. You're asked for permission to install the profile and, when you open the file, information about what it contains is displayed. You can see the profiles you have installed in Settings  > General > Profiles & Device Management. If you delete a profile, all of the settings, apps, and data associated with the profile are also deleted.

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# Accessibility

## Get started with accessibility features on iPhone

iPhone provides many accessibility features to support your vision, physical and motor, hearing, and learning needs. Learn how to configure these features and set up shortcuts for easy access.

---

### Turn on accessibility features during setup

When you first set up iPhone, you can turn on many accessibility features right away.

To enable VoiceOver, turn on iPhone, then do one of the following:

- *iPhone X and later:* Triple-click the side button.
- *Models with a Home button:* Triple-click the Home button.

To enable Zoom, turn on iPhone, then double-tap the screen with three fingers.


To turn on other features, such as Switch Control, Larger Text, or Smart Invert, do the following:

1. Turn on iPhone, then choose a language and country.
2. Tap [the Accessibility Options button].
3. Turn on the features you want.

---

### Change accessibility settings

After you set up iPhone, you can adjust accessibility settings.

1. Go to Settings  > Accessibility.
2. Choose any of the following features:
  - Vision
    - [VoiceOver](#)
    - [Zoom](#)
    - [Magnifier](#)
    - [Display & Text Size](#)

- [Motion](#)
  - [Spoken Content](#)
  - [Audio Descriptions](#)
  - Physical and Motor
    - [Touch](#)
    - [Face ID & Attention](#)
    - [Switch Control](#)
    - [Voice Control](#)
    - [Side or Home Button](#)
    - [Apple TV Remote](#)
    - [Keyboards](#)
  - Hearing
    - [Hearing Devices](#)
    - [RTT/TTY](#)
    - [Audio/Visual](#)
    - [Subtitles & Captioning](#)
  - General
    - [Guided Access](#)
    - [Siri](#)
    - [Accessibility Shortcut](#)
-

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# Vision

## VoiceOver

### Turn on and practice VoiceOver on iPhone

With VoiceOver—a gesture-based screen reader—you can use iPhone even if you don't see the screen. VoiceOver gives audible descriptions of what's on your screen—from battery level, to who's calling, to which app your finger is on. You can also adjust the speaking rate and pitch to suit your needs.

When you touch the screen or drag your finger over it, VoiceOver speaks the name of the item your finger is on, including icons and text. To interact with the item, such as a button or link, or to navigate to another item, [use VoiceOver gestures](#).


When you go to a new screen, VoiceOver plays a sound, then selects and speaks the name of the first item on the screen (typically in the top-left corner). VoiceOver tells you when the display changes to landscape or portrait orientation, when the screen becomes dimmed or locked, and what's active on the Lock screen when you wake iPhone.

---

### Turn VoiceOver on or off

**Important:** VoiceOver changes the gestures you use to control iPhone. When VoiceOver is on, you must use VoiceOver gestures to operate iPhone.

To turn VoiceOver on or off, use any of the following methods:


- Go to Settings  > Accessibility > VoiceOver, then turn the setting on or off.
- Summon Siri and say "Turn on VoiceOver" or "Turn off VoiceOver."
- [Triple-click the side button](#) (iPhone X and later).
- [Triple-click the Home button](#) (other models).
- [Use Control Center](#).

---

### Learn and practice VoiceOver gestures

You can practice VoiceOver gestures in a special area without affecting iPhone or its settings. When you practice a gesture, VoiceOver describes the gesture and the resulting action.

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. For best results using multifinger gestures, touch the screen with some space between your fingers.


1. Go to Settings  > Accessibility > VoiceOver.
  2. Turn on VoiceOver, tap VoiceOver Practice, then double-tap to start.
  3. Practice the following gestures with one, two, three, and four fingers:
    - Tap
    - Double-tap
    - Triple-tap
    - Swipe left, right, up, or down
  4. When you finish practicing, tap Done, then double-tap to exit.
- 

## Change your VoiceOver settings on iPhone

You can customize the settings for VoiceOver, such as the audio options, language, voice, speaking rate, and verbosity.

---

### **Adjust the VoiceOver volume and other audio options**

- To increase or decrease the volume, press the volume buttons on iPhone.
  - To set other audio options, go to Settings  > Accessibility > VoiceOver > Audio, then do any of the following:
    - Turn on Mute Sound Effects.
    - Turn on Audio Ducking to temporarily reduce playback volume when VoiceOver speaks.
    - Adjust audio routing options when you connect additional devices, such as an instrument amplifier or a DJ mixer.
- 

### **Set the VoiceOver language**



VoiceOver uses the same language you choose for your iPhone. VoiceOver pronunciation of some languages is affected by the Region Format you choose.

1. Go to Settings  > General > Language & Region.

2. Tap iPhone Language, then choose a language.
- 

### Adjust the speaking voice

Go to Settings  > Accessibility > VoiceOver, then do any of the following:

- *Adjust the speaking rate:* Drag the Speaking Rate slider.
- *Choose a voice:* Tap Speech > Voice, then choose a voice. To download an enhanced voice, tap .
- *Adjust the pitch:* Tap Speech, then drag the slider. You can also turn on Use Pitch Change to have VoiceOver use 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.
- *Specify the pronunciation of certain words:* Tap Speech > Pronunciations, tap , enter a phrase, then dictate or spell out how you want the phrase to be pronounced.

*Note:* You can dictate only if you turned on Enable Dictation in Settings > General > Keyboards.

---

### Set how much VoiceOver tells you

Go to Settings  > Accessibility > VoiceOver, then tap any of the following:


- *Verbosity:* Choose options to have VoiceOver speak hints, punctuation, uppercase letters, embedded links, and more. VoiceOver can even confirm rotor actions.

To change how VoiceOver speaks punctuation, tap Punctuation, then choose a group. You can make new groups such as a programming group where "[" is spoken as "right brack."

- *Always Speak Notifications:* VoiceOver reads notifications, including incoming text messages as they occur, even if iPhone is locked. Unacknowledged notifications are repeated when you unlock iPhone.
- 

### Customize VoiceOver settings for an activity

You can customize a group of VoiceOver settings for an activity such as programming. Apply the settings automatically when you open certain apps or by adjusting the rotor.

1. Go to Settings  > Accessibility > VoiceOver > Activities.
2. Choose an existing activity or tap Add Activity.
3. Adjust settings for speech, verbosity, and braille.
4. Choose Apps or Context to automatically apply the settings for this activity.

---

## Adjust VoiceOver visuals

Go to Settings  > Accessibility > VoiceOver, then turn on any of the following:

- *Large Cursor*: If you have trouble seeing the black outline around the selected item, you can enlarge and thicken the outline.
  - *Caption Panel*: The text spoken by VoiceOver is displayed at the bottom of the screen.
- 

## Learn VoiceOver gestures on iPhone

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.

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

---

## Explore and speak items on the screen

To explore the screen, drag your finger over it. VoiceOver speaks the name of each item you touch.

You can also use VoiceOver gestures to explore the screen in order, from top to bottom and left to right.

---

Select and speak an item	Tap or touch the item
Select the next item	Swipe right
Select the previous item	Swipe left
Select the first item on the screen	Four-finger tap near the top of the screen
Select the last item on the screen	Four-finger tap near the bottom of the screen
Speak the entire screen from the top	Two-finger swipe up
Speak the entire screen from the selected item	Two-finger swipe down
Pause or continue speaking	Two-finger tap
Speak additional information, such as the position within a list or whether text is selected	Three-finger tap

---

### **Scroll up, down, left, and right**

Use VoiceOver gestures to move to another page.

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Scroll up one page	Three-finger swipe down
Scroll down one page	Three-finger swipe up
Scroll left one page	Three-finger swipe right
Scroll right one page	Three-finger swipe left

---

### **Take action on an item**


Use VoiceOver gestures to perform actions on an item.



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Activate the selected item	Double-tap
Double-tap the selected item	Triple-tap
Drag a slider	Tap the slider to select it, then swipe up or down with one finger; or double-tap and hold the slider until you hear three rising tones, then drag the slider
Start or stop the current action (for example, play or pause music or a video, take a photo in Camera, start or stop a recording, start or stop the stopwatch)	Two-finger double-tap
Dismiss an alert or return to the previous screen	Two-finger scrub (move two fingers back and forth three times quickly, making a "z")
Edit an item's label to make it easier to find	Two-finger double-tap and hold

---

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

---

### **Use gestures to control VoiceOver**

Use these gestures to control VoiceOver.

Mute or unmute VoiceOver	Three-finger double-tap. If both VoiceOver and Zoom are enabled, use the three-finger triple-tap gesture.
Turn the screen curtain on or off (When the screen curtain is on, the screen contents are active even though the display is turned off.)	Three-finger triple-tap. If both VoiceOver and Zoom are enabled, use the three-finger quadruple-tap gesture.
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.
Open the Item Chooser	Two-finger triple-tap.  To move quickly through the list of items, type a name in the search field, 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. You can also <a href="#">use handwriting</a> to select an item by writing its name.  To dismiss the Item Chooser without making a selection, double-tap.

## Use the VoiceOver rotor

You can use the rotor to change VoiceOver settings, jump from one item to the next on the screen, select special input methods such as Braille Screen Input or Handwriting, and more. For details, see [Control VoiceOver using the rotor on iPhone](#).

Use these gestures to use the rotor.

Choose a rotor setting	Two-finger rotation
Move to the previous item or increase (depending on the rotor setting)	Swipe up
Move to the next item or decrease (depending on the rotor setting)	Swipe down

---

## Operate iPhone using VoiceOver gestures

When VoiceOver is on, you need to use special gestures to unlock iPhone, open Control Center, switch apps, and more.

---

### Unlock iPhone

- Models with Face ID: Wake iPhone and glance at it, then drag up from the bottom edge of the screen until you feel a vibration or hear two rising tones.
- Models with Touch ID: Press the Home button.

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

---

### Go to the Home screen

- *iPhone X and later*: Drag one finger up from the bottom edge of the screen until you feel a vibration or hear two rising tones, then lift your finger.
- *Other models*: Press the Home button.

---

### Switch to another app

Swipe right or left with four fingers to cycle through the open apps.

Alternatively, you can use the App Switcher:

1. Open the App Switcher using one of the following methods:
  - *iPhone X and later*: Drag one finger up from the bottom edge of the screen until you feel the second vibration or hear the third sound, then lift your finger.
  - *Other models*: Double-click the Home button.
2. To browse the open apps, swipe left or right until the app you want is selected.
3. Double-tap to open the app.

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### Open Control Center

- *iPhone X and later*: Drag one finger down from the top edge of the screen until you feel a vibration or hear the second tone.
- *All models*: 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 tone, then swipe up.

To dismiss Control Center, do a two-finger scrub.

---

### **View notifications**

- *iPhone X and later:* Drag one finger down from the top edge of the screen until you feel the second vibration or hear the third tone.

To dismiss the notifications screen, do a two-finger scrub.

- *All models:* 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 tone, then swipe down.

To dismiss the notifications screen, do a two-finger scrub.

---

### **Speak status bar information**

1. Tap the status bar at the top of the screen.
  2. Swipe left or right to hear the time, battery state, Wi-Fi signal strength, and more.
- 

### **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.
- *Move actions:* Tap an app, then swipe down to hear available actions. When you hear "Edit Mode," double-tap to start arranging apps. Find the app you want to move, then swipe down to the Move action and double-tap. Move the VoiceOver cursor to the new destination for the app, then choose from the available actions: Cancel Move, Create New Folder, Add to Folder, Move Before, or Move After.

When you're finished, tap Done, then double-tap.

---

### **Search from the Home screen**

1. Tap anywhere on the Home screen outside the status bar.
  2. Swipe down with three fingers.
- 

### **Control VoiceOver using the rotor on iPhone**

You can use the VoiceOver rotor to change how VoiceOver works. You can adjust the VoiceOver volume or speaking rate, move from one item to the next on the screen, select special input methods such as Braille Screen Input or Handwriting, and more.



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

---

### Use the VoiceOver rotor

1. When VoiceOver is turned on, rotate two fingers on your screen as if you're turning a dial. If you prefer to use one finger on each hand, simultaneously drag up with one finger and drag down with the other.



VoiceOver speaks the rotor setting. Keep rotating your fingers to hear more settings. Stop rotating your fingers when you hear the setting you want.

2. Swipe your finger up or down on the screen to use the setting.

The available rotor settings and their effects depend on what you're doing. For example, if you choose Headings when you're browsing a webpage, a swipe down or up will move the VoiceOver cursor to the next or previous heading.

---

### Customize the VoiceOver rotor

1. Go to Settings  > Accessibility > VoiceOver.
  2. Do any of the following:
    - *Add or reorder the rotor settings:* Tap Rotor, then choose the settings you want or drag  to reorder settings.
    - *Add another language:* Tap Speech > Add New Language (below Rotor Languages), then choose a language.
    - *Have VoiceOver confirm rotor actions:* Tap Verbosity, then turn on Speak Confirmation.
- 

### Use the onscreen keyboard with VoiceOver on iPhone

VoiceOver changes how you use the onscreen keyboard when you activate an editable text field. You can enter, select, and delete text; change the keyboard language; and more.

---

## Enter text with the onscreen keyboard

1. Select a text field, then double-tap.

The insertion point and the onscreen keyboard appear.

2. Enter text using one of the following methods:

- *Standard typing (default)*: 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.
- *Dictation*: Use a two-finger double-tap on the keyboard to start and stop dictation.

To enter an accented character, use one of the following methods:

- *Standard typing (default)*: Select the plain character, then double-tap and hold until you hear a tone indicating alternate characters have appeared. Drag left or right to select and hear the choices. Release your finger to enter the current selection.
  - *Touch typing*: Touch and hold a character until the alternate characters appear.
-



## Edit text with the onscreen keyboard

- *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.

- *Delete a character:* Use .
  - *Select text:* Use one of the following methods.
    - Set the rotor to Text Selection, swipe up or down to choose Character, Word, Line, or Sentence, then swipe left or right to move backward or forward. (You may need to enable Text Selection—go to Settings  > Accessibility > VoiceOver > Rotor.)
    - 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.
  - *Fix misspelled words:* Set the rotor to Misspelled Words, then swipe up or down to jump to the previous or next misspelled word. Swipe left or right to choose a suggested replacement, then double-tap to use the replacement.
  - *Undo:* Shake iPhone, swipe left or right to choose the action to undo, then double-tap.
-

## Change the keyboard settings

1. Go to Settings  > Accessibility > VoiceOver.
  2. Tap any of the following:
    - *Typing Style*: You can choose a new style. Or, set the rotor to Typing Mode, then swipe up or down.
    - *Phonetic Feedback*: Speak text character by character. VoiceOver first speaks the character, then its phonetic equivalent—for example, “f” and then “foxtrot.”
    - *Typing Feedback*: Choose to speak characters, words, both, or nothing.
    - *Rotor*: Select the settings you want to include in the rotor.
    - *Speech*: Tap Add New Language (below Rotor Languages), then choose a language.
    - *Verbosity*: Tap Deleting Text. To have VoiceOver speak deleted characters in a lower pitch, tap Change Pitch.
- 

## Write with your finger using VoiceOver on iPhone


With Handwriting mode, you can 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 to open apps from the Home screen.



---

## Use handwriting mode

1. Set the rotor to Handwriting.

If Handwriting isn't in the rotor, go to Settings  > Accessibility > VoiceOver > Rotor, then add it.

2. To choose a character type (lowercase, numbers, uppercase, or punctuation), swipe up or down with three fingers.

To hear the selected character type, tap with three fingers.

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

You can also do any of the following:

- *Enter an alternate character (a character with an accent, 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 previous character:* Swipe left with two fingers.

4. To exit handwriting mode, do a two-finger scrub, or set the rotor to a different setting.
- 

## Enter your passcode silently with handwriting mode

1. On the passcode screen, set the rotor to Handwriting.
  2. Write the characters of your passcode with your finger.
- 

## Select an item on the Home screen

1. On the Home screen, set the rotor to Handwriting.
2. Start writing the name of the item with your finger.

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.

---

## Quickly navigate a long list

1. Select the index to the right of the list (for example, next to your Contacts list or in the VoiceOver Item Chooser).
  2. Set the rotor to Handwriting, then use your finger to write the letter you want to navigate to.
-

## Control VoiceOver on iPhone with Magic Keyboard


If you [pair Magic Keyboard](#) with iPhone, you can use keyboard shortcuts on Magic Keyboard to activate VoiceOver commands.

Additionally, 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.

---

### Choose the VoiceOver modifier

The modifier is a key or set of keys you press with one or more other keys to enter VoiceOver commands. You can set the modifier to be the Caps Lock key or the Control and Option keys pressed at the same time.

1. Go to Settings  > Accessibility > VoiceOver > Modifier Keys.
2. Choose the modifier for VoiceOver commands: the Caps Lock key or the Control and Option keys.

This modifier is abbreviated as “VO” in the lists below.

---

### VoiceOver keyboard commands

VO = modifier keys

- *Turn on VoiceOver Help:* VO-K
- *Turn off VoiceOver Help:* Esc (Escape)
- *Select the next or previous item:* VO-Right Arrow or VO-Left Arrow
- *Activate the selected item:* VO-Space bar
- *Touch and hold the selected item:* VO-Shift-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
- *Go to the Home screen:* VO-H

- *Move to the status bar:* VO-M
  - *Open the notifications screen:* Move to the status bar (VO-M), then Option-Up Arrow
  - *Open Control Center:* Move to the status bar (VO-M), then Option-Down Arrow
  - *Open Spotlight Search:* Option-Up Arrow
  - *Open the App Switcher:* VO-H-H
  - *Open the Item Chooser:* VO-I
  - *Change the label of the selected item:* VO-/
  - *Start, stop, or pause an action:* VO-Hyphen
  - *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-F11
  - *Return to the previous screen:* Esc
- 

### **Quick Nav using the arrow keys**

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 Magic 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
- 

## Type onscreen braille using VoiceOver on iPhone


If you turn on Braille Screen Input, you can use your fingers to enter six-dot braille or contracted braille directly on the iPhone screen.

---

### Enter braille on the screen

Enter braille with iPhone lying 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).

1. Set the rotor to Braille Screen Input.


If you don't see Braille Screen Input in the rotor, go to Settings  > Accessibility > VoiceOver > Rotor, then select it from the list.

2. Enter braille characters by tapping the screen with one or several fingers at the same time.

You can also do any of the following:

- *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:* Swipe right with two fingers.
- *Cycle through spelling suggestions:* Swipe up or down with one finger.

- *Enter a carriage return, or send a message (in Messages):* Swipe up with three fingers.
  - *Switch between six-dot braille and contracted braille:* Swipe to the right with three fingers.
  - *Turn braille contractions on or off:* Swipe to the right with three fingers.
  - *Translate immediately (when contractions are enabled):* Swipe down with two fingers.
  - *Switch to the next keyboard:* Swipe up with two fingers.
3. To exit Braille Screen Input, do a two-finger scrub, or adjust the rotor to another setting.

 **Tip:** To have iPhone read dots aloud, tap and hold the dots, then when you hear the timer tones and announcement, release the dots.


---

### 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.

---

### Change Braille Screen Input settings


1. Go to Settings  > Accessibility > VoiceOver > Braille > Braille Screen Input.
  2. Do any of the following:
    - Set six-dot or contracted Braille as the default.
    - Reverse dot positions for six-dot and eight-dot Braille.
- 

### Use a braille display with VoiceOver on iPhone

You can use a Bluetooth braille display to read VoiceOver output, and 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 Apple Support article [Braille displays supported by iPhone, iPad, and iPod touch](#).


---

## Connect a braille display

1. Turn on the braille display.
2. On iPhone, go to Settings  > Bluetooth, turn on Bluetooth, then choose the display.
3. On iPhone, go to Settings > Accessibility > VoiceOver > Braille, then choose the display.


---

## Adjust the braille settings

1. On iPhone, go to Settings  > Accessibility > VoiceOver > Braille.
2. Do any of the following:
  - Choose contracted, uncontracted eight-dot, or uncontracted six-dot braille input or output
  - Add Braille tables that appear in the Braille Table rotor
  - 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
  - Adjust the key debounce duration (the timing used between typing and activating commands)

---

## Output closed captions in braille during media playback


1. On iPhone, go to Settings  > Accessibility > VoiceOver > Verbosity.
2. Choose Braille or Speech and Braille.

---

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 on your iPhone, iPad, and iPod touch](#).

## Customize VoiceOver gestures and keyboard shortcuts on iPhone

You can customize the gestures and keyboard shortcuts that activate VoiceOver commands.

- 
1. Go to Settings  > Accessibility > VoiceOver > Commands.
  2. Tap any of the following:
    - *All Commands*: Navigate to the command you want to customize, then tap Edit, Add Gesture, or Add Keyboard Shortcut.
    - *Touch Gestures*: List the gestures and the associated commands.
    - *Handwriting*: List the gestures for handwriting and the associated commands.
    - *Braille Screen Input*: List the gestures for Braille Screen Input and the associated commands.
- 

To clear your custom gestures and keyboard shortcuts, tap Reset VoiceOver Commands.

## Use VoiceOver in apps on iPhone

You can use VoiceOver to interact with apps such as Maps, Camera, Photos, Voice Memos, Safari, and more even if you can't see the screen.

---

### **Make and receive calls in Phone using VoiceOver**

Use VoiceOver to make and receive phone calls.

- *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, then double-tap.
  - *Display the numeric keypad again*: Select the Keypad button near the center of the screen, then double-tap.
- 



### **Read PDF documents in Apple Books or Files using VoiceOver**


VoiceOver can read detailed information—such as forms, tables, and lists—in PDF documents.

---



## Browse the web in Safari using VoiceOver

- *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 settings for web browsing:* Go to Settings  > Accessibility > VoiceOver > Rotor. Tap to select or deselect settings, or drag  up or down to reposition an item.
- *Skip images while navigating:* Go to Settings > 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 webpages).
- *Allow websites to customize their behavior for assistive technologies:* Go to Settings > Accessibility > VoiceOver > Web, then turn on Accessibility Events. This setting may reveal whether an assistive technology is active on your iPhone.

 **Tip:** If you [pair Magic Keyboard](#) with iPhone, you can use single-key Quick Nav commands to navigate webpages.

---

## Read math equations using VoiceOver

VoiceOver can read math equations on the web (encoded using MathML) and in supported Apple apps such as Numbers and Keynote.


- *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 in 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, or up or down, to read one part at a time.

Equations spoken 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 [Use a braille display with VoiceOver on iPhone](#).

---

## Navigate in Maps with VoiceOver

In the Maps app, 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.

- *Control how the map tracks your current location:* Double-tap  until you hear the tracking option you want:
  - *Tracking on:* The map automatically centers on your current location.
  - *Tracking on with heading:* The map automatically centers on your current location and rotates so that the heading you're facing is at the top of the screen. In this mode, iPhone speaks street names and points of interest as you approach them.
  - *Tracking off:* The map doesn't automatically center on your current 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.

---

## Use Camera, Photos, and Voice Memos with VoiceOver

Use VoiceOver gestures to take and edit Camera videos and Voice Memo recordings.

- *Pause or continue a recording:* Double-tap the screen with two fingers.
- *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 in on the iPhone screen

In many apps, you can 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. You can also use the Zoom feature to magnify the screen no matter what you're doing. You can magnify the entire screen (Full Screen Zoom) or magnify only part of the screen with a resizable lens (Window Zoom). And, you can use Zoom together with VoiceOver.

---

### Set up Zoom

1. Go to Settings  > Accessibility > Zoom, then turn on Zoom.
  2. Adjust any of the following:
    - *Follow Focus:* Track your selections, the text insertion point, and your typing.
    - *Smart Typing:* Switch to Window Zoom when a keyboard appears.
    - *Keyboard Shortcuts:* Turn on keyboard shortcuts to control Zoom.
    - *Zoom Controller:* Turn the controller on, set controller actions, and adjust the color and opacity.
    - *Zoom Region:* Choose Full Screen Zoom or Window Zoom.
    - *Zoom Filter:* Choose None, Inverted, Grayscale, Grayscale Inverted, or Low Light.
    - *Maximum Zoom Level:* Drag the slider to adjust the level.
  3. To add Zoom to Accessibility Shortcut, go to Settings > Accessibility > Accessibility Shortcut, then tap Zoom.
-

## Use Zoom

1. Double-tap the screen with three fingers or [use accessibility shortcuts](#) to turn on Zoom.
2. To see more of the screen, do any of the following:
  - *Adjust the magnification:* Double-tap the screen with three fingers (without lifting your fingers after the second tap), then drag up or down. Or triple-tap with three fingers, then drag the Zoom Level slider.
  - *Move the Zoom lens:* (Window Zoom) Drag the handle at the bottom of the Zoom lens.
  - *Pan to another area:* (Full Screen Zoom) Drag the screen with three fingers.
3. To adjust the settings with the Zoom menu, triple-tap with three fingers, then do any of the following:
  - *Switch between Window Zoom and Full Screen Zoom:* Tap Choose Region.
  - *Resize the Zoom lens:* (Window Zoom) Tap Resize Lens, then drag any of the round handles that appear.
  - *Apply a filter:* Tap Choose Filter, then choose Inverted, Grayscale, Grayscale Inverted, or Low Light.
  - *Show the Zoom Controller:* Tap Show Controller.
4. To use the Zoom Controller, do any of the following:
  - *Show the Zoom menu:* Tap the controller.
  - *Zoom in or out:* Double-tap the controller.
  - *Pan:* When zoomed in, drag the controller.

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

To turn off Zoom, double-tap the screen with three fingers or [use accessibility shortcuts](#).

---


On supported models, you can turn on Display Zoom to see larger onscreen controls. Go to Settings > Display & Brightness > View.

## Magnify nearby objects with Magnifier on iPhone

Use your iPhone as a magnifying glass to zoom in on objects near you.

---

## Set up Magnifier



1. Go to Settings  > Accessibility > Magnifier.
2. Turn on Magnifier.

This adds Magnifier as an accessibility shortcut.

3. To automatically adjust the brightness of Magnifier based on ambient light settings, turn on Auto-Adjust Exposure.

---

## Turn on and adjust Magnifier

1. [Use accessibility shortcuts](#) to turn on Magnifier.
2. Make any of the following adjustments:
  - *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.
  - *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.
  - *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.

To turn off Magnifier, swipe up from the bottom edge of the screen (iPhone X and later) or press the Home button (other models).

---

## Adjust the display and text size on iPhone

If you have color blindness or other vision challenges, you can customize the display settings to make the screen easier to see.

---

## Use display accommodations

1. Go to Settings  > Accessibility > Display & Text Size.

2. Adjust any of the following:

- *Bold Text*: Display the text in boldface characters.
- *Larger Text*: Turn on Larger Accessibility Sizes, then adjust the text size using the Font Size slider.

This setting adjusts to your preferred text size in apps that support Dynamic Type, such as Settings, Calendar, Contacts, Mail, Messages, and Notes.

- *Button Shapes*: This setting underlines text you can tap.
- *On/Off Labels*: This setting indicates switches turned on with “1” and switches turned off with “0”.
- *Reduce Transparency*: This setting reduces the transparency and blurs on some backgrounds.
- *Increase Contrast*: This setting improves the contrast and legibility by altering color and text styling.

Apps that support Dynamic Type—such as Settings, Calendar, Contacts, Mail, Messages, and Notes—adjust to your preferred text size.

- *Differentiate Without Color*: This setting replaces user interface items that rely on color to convey information with alternatives.
- *Smart Invert or Classic Invert*: Smart Invert Colors reverses the colors of the display, except for images, media, and some apps that use dark color styles.
- *Color Filters*: Tap a filter to apply it. To adjust the intensity or hue, drag the sliders.
- *Reduce White Point*: This setting reduces the intensity of bright colors.
- *Auto-Brightness*: This setting automatically adjusts the screen brightness for current light conditions using the built-in ambient light sensor.

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

---

## Reduce or stop the motion of screen elements on iPhone

If you have sensitivity to motion effects or screen movement on your iPhone, you can stop or reduce the movement of some screen elements, such as:

- Parallax effect of wallpaper, apps, and alerts
  - Screen transitions
  - Siri animations
  - Typing autocompletion
  - Animated effects in Messages
- 

1. Go to Settings  > Accessibility > Motion.

2. Turn on or off any of the following controls:


- *Reduce Motion*: This setting reduces the motion of the user interface, including the parallax effect of icons.
  - *Prefer Cross-Fade Transitions*: This setting reduces the motion of user interface controls that slide in and out when appearing and disappearing.
  - *Auto-Play Message Effects*: This setting allows the Messages app to automatically play full-screen effects. If you turn this setting off, you can still manually play effects by tapping Replay below the message bubble.
  - *Auto-Play Video Previews*: This setting allows apps such as the App Store to automatically play video previews.
- 

## Hear iPhone speak the screen, selected text, and typing feedback

Even if VoiceOver is turned off, you can have iPhone speak selected text or the entire screen. iPhone can also provide feedback and speak text corrections and suggestions as you type.

---

## Change the speech settings

1. Go to Settings  > Accessibility > Spoken Content.
2. Adjust any of the following:
  - *Speak Selection*: To hear text you selected, tap the Speak button.
  - *Speak Screen*: To hear the entire screen, swipe down with two fingers from the top of the screen.
  - *Speech Controller*: Show the controller for quick access to Speak Screen and Speak on Touch.
  - *Highlight Content*: iPhone can highlight words, sentences, or both as they're spoken. You can change the highlight color and style.
  - *Typing Feedback*: You can configure typing feedback for software and hardware keyboards and choose to have iPhone speak each character, entire words, auto-corrections, auto-capitalizations, and typing predictions.

To hear typing predictions, you also need to go to Settings > General > Keyboards, then turn on Predictive.

- *Voices*: Choose a voice and dialect.
- *Speaking Rate*: Drag the slider.
- *Pronunciations*: Dictate or spell out how you want certain phrases to be spoken.

---

## Hear iPhone speak

 **Ask Siri.** Say something like: "Speak screen." [Learn how to ask Siri.](#)

Or do any of the following:

- *Hear selected text*: Select the text, then tap Speak.
- *Hear the entire screen*: Swipe down with two fingers from the top of the screen. Use the controls that appear to pause speaking or adjust the rate.
- *Hear typing feedback*: Start typing. To hear typing predictions (when turned on), touch and hold each word.

---

## Hear audio descriptions for video content on iPhone

If you have video content that includes audio descriptions of scenes, iPhone can play the descriptions for you.



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1. Go to Settings  > Accessibility > Audio Descriptions.

2. Turn on Audio Descriptions.

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# Physical and Motor

## Touch

### Use AssistiveTouch on iPhone


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 actions or gestures that are difficult for you. You can also use a compatible adaptive accessory (such as a joystick) together with AssistiveTouch to control iPhone.

With AssistiveTouch, you can use a simple tap (or the equivalent on your accessory) to perform actions such as the following:


- Open the AssistiveTouch menu
- Go to the Home screen
- Double-tap
- Perform multifinger gestures
- Summon Siri
- Access Control Center, notifications, Lock screen, or App Switcher
- Adjust the volume on iPhone
- Shake iPhone
- Take a screenshot
- Use 3D Touch (on supported models)
- Use Apple Pay
- Use Emergency SOS
- Speak screen
- Restart iPhone


---

## Set up AssistiveTouch

 **Ask Siri.** Say something like: “Turn on AssistiveTouch” or “Turn off AssistiveTouch.”  
[Learn how to ask Siri.](#)

Or do the following:


1. Go to Settings  > Accessibility > Touch > AssistiveTouch.
2. Turn on AssistiveTouch.
3. To customize AssistiveTouch, tap any of the following:
  - *Customize Top Level Menu:* The menu can have up to eight actions.
  - *Single-Tap, Double-Tap, Long Press, or 3D Touch:* Assign custom actions that run when you interact with the menu button.
  - *Create New Gesture:* Add your favorite gestures.
  - *Idle Opacity:* Adjust the visibility of the menu button when not in use.

 **Tip:** To turn AssistiveTouch on or off quickly, [triple-click the side button](#) (iPhone X and later) or [triple-click the Home button](#) (other models).

---

## Add a pointer device

You can connect Bluetooth and USB assistive pointer devices, such as joysticks and mouse devices. Magic Mouse and Magic Trackpad aren't supported over Bluetooth.

1. Go to Settings  > Accessibility > Touch > AssistiveTouch.
2. Below Pointer Devices, tap any of the following:
  - *Devices:* Pair or unpair devices and customize buttons.
  - *Mouse Keys:* Allow the AssistiveTouch pointer to be controlled using the keyboard number pad.
  - *Pointer Style:* Adjust the size, color, and auto-hide settings.
  - *Show Onscreen Keyboard:* Display the onscreen keyboard.
  - *Always Show Menu:* Show the AssistiveTouch menu when a pointer device is connected.
  - *Tracking speed:* Drag the slider to adjust the speed.
  - *Drag Lock:* Turn on to enable dragging.
  - *Zoom Pan:* Choose Continuous, Centered, or Edges.

- *Dwell Control*: When turned on, holding the cursor still for the specified amount of time performs the selected dwell action.
  - *Movement Tolerance*: Adjust the distance you can move while dwelling on an item.
- 

### **Move the AssistiveTouch menu button**

Drag the menu button to a new location on the screen.

---

### **Use AssistiveTouch**

Tap the menu button, then choose an action or gesture.

For a multifinger gesture, do the following:


- *Pinch*: 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.
- *Multifinger swipe or drag*: Tap Device > More > Gestures, then tap the number of digits needed for the gesture. When the circles appear on the screen, swipe or drag in the direction required by the gesture. When you finish, tap the menu button.

To return to the previous menu, tap the arrow in the center of the menu. To exit the menu without performing a gesture: Tap anywhere outside the menu.

---

### **Create custom gestures**

You can add your favorite gestures (such as touch and hold or two-finger rotation) to the AssistiveTouch menu. You can even create several gestures with different degrees of rotation.

1. Go to Settings  > Accessibility > Touch > AssistiveTouch > Create New Gesture.
2. Perform your gesture on the recording screen. For example:
  - *Touch-and-hold gesture*: Touch and hold 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.
  - *Two-finger rotation 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 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.

3. If your gesture doesn't turn out quite right, tap Cancel, then try again.

4. When you're satisfied with your gesture, tap Save, then name the gesture.

To use your custom gesture, tap the AssistiveTouch menu button, tap Custom, then choose the gesture. When the blue circles representing your gesture appear, drag them to where you want to use the gesture, then release.

---

## Adjust touch settings on iPhone


If you have trouble using the touchscreen or buttons, you can change how iPhone responds to your touch.

---

### Turn on and use Reachability

When you use supported models in Portrait orientation, you can turn on Reachability to bring items at the top of the screen down to the lower half of the screen.



1. Go to Settings  > Accessibility > Touch, then turn on Reachability.
2. To bring the top of the screen into reach, do the following:


- *iPhone X and later:* Swipe down on the bottom edge of the screen.
- *Other models:* Lightly double-tap the Home button.

To reset the screen, tap the top of the screen.

---


### **Adjust 3D Touch settings**


On models with 3D Touch, you can control the sensitivity of 3D Touch or turn it off.

1. Go to Settings  > Accessibility > Touch > 3D Touch.
  2. Do one of the following:
    - 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.
- 

### **Adjust Haptic Touch settings**




On models with Haptic Touch, you can adjust the amount of time needed to activate Haptic Touch when you use a touch-and-hold gesture.



1. Go to Settings  > Accessibility > Touch > Haptic Touch.
2. Choose Fast or Slow.



To test the setting, touch and hold  in the timing test section.

---

## Use touch accommodations


1. Go to Settings  > Accessibility > Touch > Touch Accommodations.
2. You can configure iPhone to do any of the following:
  - *Respond to touches of a certain duration:* Turn on Hold Duration, then tap  or  to adjust the duration (the default is 0.10 seconds).

To perform swipe gestures without waiting for the specified hold duration, tap Swipe Gestures, then turn on Swipe Gestures. You can choose the amount of required movement before a swipe gesture begins.
  - *Ignore multiple touches:* Turn on Ignore Repeat, then tap  or  to adjust the amount of time allowed between multiple touches. Then, if you touch the screen several times quickly, iPhone treats the touches as one.
  - *Respond to the first or last place you touch:* Choose Use Initial Touch Location or Use Final Touch Location.

If 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. If you choose Use Final Touch Location, 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. Tap  or  to adjust the timing. Your device can respond to other gestures, such as drags, if you wait longer than the gesture delay.


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### Turn off Tap to Wake

Go to Settings  > Accessibility > Touch, then turn off Tap to Wake.


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### Turn off Shake to Undo

If you tend to shake iPhone by accident, go to Settings  > Accessibility > Touch, then turn off Shake to Undo.

---


### Turn off vibrations



To prevent vibrations, including those for emergency alerts, go to Settings  > Accessibility > Touch, then turn off Vibration.

---

### Route audio calls

You can automatically route the audio of phone or FaceTime calls to your headphones, speaker, or hearing devices.

1. Go to Settings  > Accessibility > Touch > Call Audio Routing.
2. Choose an audio destination for calls.

3. To have iPhone answer calls automatically, tap Auto-Answer Calls, turn on Auto-Answer Calls, then tap  or  to set the duration of time before the call is answered.

During a call, you can switch the audio routing from your hearing aid to the iPhone speaker by removing the hearing aid from your ear. See [Use hearing devices with iPhone](#).

---


## Change Face ID and attention settings on iPhone

On iPhone X and later, you can adjust Face ID and attention settings if you have physical or vision limitations.

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### Set up Face ID with Accessibility Options

By default, setting up Face ID requires you to gently move your head in a circle to show all the angles of your face. If you can't perform the full range of head motion, you can still set up Face ID without moving your head.

1. Go to Settings  > Face ID & Passcode.
2. Position your face within the frame, then tap Accessibility Options.


Face ID is still secure but requires more consistency in how you look at iPhone.

---

### Change attention settings

For additional security, Face ID is *attention aware*. It unlocks iPhone only when your eyes are open and looking at the screen. iPhone can also reveal notifications and messages, keep the screen lit when you're reading, or lower the volume of alerts.

If you don't want iPhone to check for your attention, do the following:

1. Go to Settings  > Face ID & Passcode.
2. Turn any of the following on or off:
  - Require Attention for Face ID
  - Attention Aware Features
  - Haptic on Successful Authentication

These settings are turned off by default if you turn on VoiceOver when you first set up iPhone.

*Note:* Requiring attention makes Face ID more secure.

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# Switch Control

## Set up Switch Control on iPhone


If you have physical difficulties, you can use Switch Control to operate iPhone using one or more switches. With switches, you can select, tap, drag, type, and even draw freehand. You use a switch to select an item or location on the screen, then use the same (or a different) switch to choose an action.

---

### Add a switch

You can use any of the following sources as a switch:

- *An external adaptive switch:* Choose a Bluetooth switch or Made For iPhone (MFi) switch that plugs into the Lightning connector on iPhone.
- *The iPhone screen:* Tap the screen to trigger the switch.
- *The iPhone front-facing camera:* Move your head left or right while facing the camera to trigger the switch.

Before you add an external switch, connect it to iPhone, following the instructions that came with the switch. If the switch connects using Bluetooth, pair it with iPhone—turn on the switch, go to Settings  > Bluetooth, tap the switch, then follow the onscreen instructions. See [Connect Bluetooth devices to iPhone](#).


1. Go to Settings > Accessibility > Switch Control > Switches.
2. Tap Add New Switch, then choose a source.
3. Assign an action to the switch.

To ensure Switch Control functions correctly, you must assign the Select Item action to at least one switch.

---

### Choose a scanning style and customize Switch Control

You can adjust the behavior of Switch Control in a variety of ways, to suit your specific needs and style.

1. Go to Settings  > Accessibility > Switch Control.
2. Tap Scanning Style, then choose one of the following:
  - *Auto Scanning:* The focus automatically moves to the next item after a specified duration.

- *Manual Scanning*: You trigger a switch to move the focus to the next item (requires multiple switches).
- *Single Switch Step Scanning*: You trigger a switch to move the focus to the next item; if no action is taken with a specified duration, the item with the focus is automatically activated.

### 3. Customize Switch Control in the following ways:


- Add switches and specify their function.
- Create, edit, and choose recipes to temporarily assign special actions to switches.
- Adjust the scanning speed.
- 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 Scanner 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 press and hold a switch, and how long to wait before repeating.
- Assign another action to a switch by pressing and holding the switch for a long duration.
- Choose the actions shown in the Scanner Menu 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.
- Ignore accidental repeated switch triggers.
- Adjust the point scanning style and speed.
- Turn on sound effects.
- Speak items as they are scanned.
- Group items for faster scanning.
- Make the selection cursor larger or a different color.
- Create and save custom gestures to the Scanner Menu.

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## Turn Switch Control on or off

**Important:** Switch Control changes the gestures you use to control iPhone.

To turn Switch Control on or off, use any of the following methods:

- Go to Settings  > Accessibility > Switch Control.
  - [Triple-click the side button](#) (iPhone X and later).
  - [Triple-click the Home button](#) (other models).
  - [Use Control Center](#).
- 

## Use Switch Control on iPhone

With Switch Control, there are two methods to select an item on the screen:

- *Item scanning:* The focus moves (automatically or manually) from one item to the next until you select an item; this is the default scanning method.
- *Point scanning:* You select an item on the screen by pinpointing it with scanning crosshairs.

After you select an item, you can choose an action (for example, tap, drag, or pinch) in the Scanner Menu.

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## Use item scanning

With item scanning, the focus sequentially moves from one item to the next item on the screen.

1. If you use Auto Scanning, watch or listen as the focus moves. If you use Manual Scanning, trigger your Move to Next Item switch to move the focus.
2. When the focus surrounds the item you want, trigger your Select Item switch.
3. In the Scanner Menu, choose an action such as the following:
  - Tap
  - Gestures
  - Scroll
  - Media Controls
  - More (the dots at the bottom of the menu) for more options

- Home (to return to the Home screen)
- Device (for other hardware actions)
- Settings (to adjust Switch Control behavior)

The available actions in the Scanner Menu depend on the selected item.

To dismiss the Scanner menu without choosing an action, trigger your switch while the original item is highlighted and all the icons in the Scanner Menu are dimmed.

---

### **Switch from item scanning to point scanning**

Point scanning lets you select an item on the screen by pinpointing it with scanning crosshairs.

1. Use item scanning to select an item.
2. In the Scanner Menu, choose Point Mode.
3. To position the vertical crosshair:
  - a. Trigger your Select Item switch when the wide vertical band is over the item you want.
  - b. Trigger your Select Item switch again when the fine vertical line is over the item.
4. Repeat to position the horizontal crosshair.
5. Choose an action from the Scanner Menu.

To return to item scanning, choose Item Mode from the Scanner Menu.

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## **Control iPhone with your voice**

You can control iPhone with just your voice. You can edit text as you dictate, navigate with voice commands and gestures, and see numbers or names next to screen elements.

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### **Turn on Voice Control**


Do any of the following:

- Go to Settings  > Accessibility > Voice Control.
- Add Voice Control to Accessibility Shortcuts—go to Settings > Accessibility > Accessibility Shortcut, then tap Voice Control.

## Learn Voice Control commands

When Voice Control is turned on, you can say commands such as the following:

- "Open Control Center"
- "Go home"
- "Tap *item name*"
- "Open *app name*"
- "Take screenshot"
- "Turn up volume"

To learn more Voice Control commands, go to Settings  > Accessibility > Voice Control > Customize Commands, then tap a category.

---

## Use the screen overlay

For faster interactions, navigate iPhone with a screen overlay that shows item names, numbers, or a grid.

- *Item names*: Say "Show names" or "Show names continuously," then say "Tap *item name*."
- *Numbers*: Say "Show numbers" or "Show numbers continuously," then say the number next to the item you want.
- *Grid*: To interact with a screen location not represented by an item name or number, say "Show grid" or "Show grid continuously," then say the number closest to the location you want. To zoom in on the location, say another number on the smaller grid.

To turn off the overlay, say "Hide names," "Hide numbers," or "Hide grid."


---

## Customize Voice Control

1. Go to Settings > Accessibility > Voice Control.
  2. Adjust any of the following:
    - *Show Command Confirmation*: When iPhone recognizes a command, a visual confirmation appears at the top of the screen.
    - *Play Sound Upon Recognition*: When iPhone recognizes a command, an audible sound is played.
    - *Show Hints*: See command suggestions and hints.
    - *Overlay*: Display numbers, names, or a grid over screen elements.
    - *Attention Aware*: Voice Control wakes up when you look at your iPhone and goes to sleep when you look away.
  3. To teach Voice Control new words, tap Vocabulary.
- 

## Adjust settings for the side or Home button on iPhone

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1. Go to Settings  > Accessibility > Side Button (iPhone X and later) or Home Button (other models).
  2. Choose the speed required to double or triple-click.
  3. Choose how iPhone responds when you press and hold the side or Home button.
- 


## Use buttons on the Apple TV Remote on iPhone

On the Apple TV Remote on iPhone, you can use buttons instead of swipe gestures.

Go to Settings  > Accessibility > Apple TV Remote, then turn on Directional Buttons.


## Adjust software and hardware keyboard settings on iPhone

If you have difficulty distinguishing characters on the iPhone keyboard or manipulating a hardware keyboard, you can adjust settings such as the key repeat rate.

 **Tip:** Rotate iPhone to use a larger keyboard for typing in many apps, including Mail, Safari, Messages, Notes, and Contacts.

---

## Change the keyboard settings for accessibility

1. Go to Settings  > Accessibility > Keyboards.
  2. Do any of the following:
    - Show only uppercase keys on the iPhone keyboard.
    - Adjust the key repeat rate on hardware keyboards.
    - Use Sticky Keys to press and hold 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.
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# Hearing

## Use hearing devices with iPhone

You can use Made for iPhone (MFi) hearing aids or sound processors with iPhone and adjust their settings.

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### **Pair a hearing device with iPhone**

If your hearing devices aren't listed in Settings  > Accessibility > Hearing Devices > MFi Hearing Devices, you need to pair them with iPhone.

1. Open the battery door on each hearing device.
2. On iPhone, go to Settings > Bluetooth, then make sure Bluetooth is turned on.
3. Go to Settings > Accessibility > Hearing Devices > MFi Hearing Devices.
4. Close the battery doors on your hearing devices.
5. When their names appear in the list of devices (this could take a minute), tap the names and respond to the pairing requests.


Pairing can take as long as 60 seconds—don't try to stream audio or otherwise use the hearing devices until pairing is finished. When pairing is finished, you hear a series of beeps and a tone, and a checkmark appears next to the hearing devices in the Devices list.

You need to pair your devices only once (and your audiologist might do it for you). After that, your hearing devices automatically reconnect to iPhone whenever they turn on.

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## Adjust the settings and view the status of your hearing devices

- *In Settings:* Go to Settings  > Accessibility > Hearing Devices > MFi Hearing Devices.
  - *Using accessibility shortcuts:* See [Use accessibility shortcuts on iPhone](#).
  - *On the Lock screen:* Go to Settings > Accessibility > Hearing Devices > MFi Hearing Devices, then turn on Control on Lock Screen. From the Lock screen, you can do the following:
    - Check 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 alert tones through the hearing aid. (Not all hearing aids support this feature.)
- 

## Use your hearing devices with more than one device


If you pair your hearing devices with more than one device (both iPhone and iPad, for example), the connection for your hearing devices 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 device settings on one device are automatically sent to your other devices.

1. Sign in with your Apple ID on all the devices.
  2. Connect all the devices to the same Wi-Fi network.
- 

## Turn on Hearing Aid Compatibility

Hearing Aid Compatibility may reduce interference and improve audio quality with some hearing aid models.

1. Go to Settings  > Accessibility > Hearing Devices.
2. Turn on Hearing Aid Compatibility.

The FCC hearing aid compatibility rules require that certain phones be tested and rated under the American National Standard Institute (ANSI) C63.19 hearing aid compatibility standards.

The ANSI standard for hearing aid compatibility contains two types of ratings:

- *M*: For reduced radio-frequency interference to enable acoustic coupling with hearing aids that don't operate in telecoil mode
- *T*: 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 the FCC requirements if it's 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 aren't a guarantee that a particular hearing aid works well with a particular phone. Some hearing aids might work well with phones that do not meet the FCC requirements for hearing aid compatibility. To ensure that a particular hearing aid works well with a particular phone, use them together before purchasing.

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 service provider or the manufacturer of this phone for information on hearing aid compatibility. If you have questions about return or exchange policies, consult your service provider or phone retailer.

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## Stream audio from iPhone to your hearing devices

Stream audio from iPhone and its apps to your hearing devices. You can even use Live Listen to stream sound from the microphone to your Made For iPhone (MFi) hearing devices or AirPods.

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### **Stream audio to your hearing devices**




To stream audio from Phone, Siri, Music, Apple TV, and more, see [Connect Bluetooth devices to iPhone](#).

You can also automatically [route audio calls](#) to a hearing device.

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## Use iPhone as a remote microphone with Live Listen

Stream sound from the microphone on iPhone to your Made For iPhone (MFi) hearing devices or AirPods. This can help you hear better in some situations—for example, when having a conversation in a noisy environment.

1. If you're using AirPods, place them in your ears.
  2. Turn on Live Listen with one of the following methods:
    - Open Control Center, tap , tap your hearing device or AirPods, then turn on Live Listen.  
  
(If you don't see , add it to Control Center—go to Settings  > Control Center > Customize Controls, then choose Hearing.)
    - [Triple-click the side button](#) (iPhone X and later) or [triple-click the Home button](#) (other models), tap Hearing Devices, then tap Live Listen.
  3. Position iPhone near the sound source.
- 

## Set up and use RTT and TTY on iPhone

If you have hearing or speech difficulties, you can communicate by telephone using Teletype (TTY) or real-time text (RTT)—protocols that transmit text as you type and allow the recipient to read the message right away. RTT is a more advanced protocol that transmits audio as you type text.


iPhone provides built-in Software RTT and TTY from the Phone app—it requires no additional devices. If you turn on Software RTT/TTY, iPhone defaults to the RTT protocol whenever it's supported by the carrier.


iPhone also supports Hardware TTY, so you can connect iPhone to an external TTY device with the iPhone TTY Adapter (sold separately in many regions).

**Important:** RTT and TTY aren't supported by all carriers or in all regions. RTT and TTY functionality depends on your carrier and network environment. When making an emergency call in the U.S., iPhone sends special characters or tones to alert the operator. The operator's ability to receive or respond to these tones can vary depending on your location. Apple doesn't guarantee that the operator will be able to receive or respond to an RTT or TTY call.

---

## Set up RTT and TTY

1. Go to Settings  > Accessibility.
2. Tap RTT/TTY or TTY, then do any of the following:
  - If your iPhone has Dual SIM, choose a line.
  - Turn on Software RTT/TTY or Software TTY.
  - Tap Relay Number, then enter the phone number to use for relay calls using Software RTT/TTY.
  - Turn on Send Immediately to send each character as you type. Turn off to complete messages before sending.
  - Turn on Answer All Calls as RTT/TTY.
  - Turn on Hardware TTY.

When RTT or TTY is turned on,  appears in the status bar at the top of the screen.

---

## Connect iPhone to an external TTY device

If you turned on Hardware TTY in Settings, connect iPhone to your TTY device using the iPhone TTY Adapter. If Software TTY is also turned on, incoming calls default to Hardware TTY. For information about using a particular TTY device, see the documentation that came with it.

---

## Start an RTT or TTY call

1. In the Phone app, choose a contact, then tap the phone number.
2. Choose RTT/TTY Call or RTT/TTY Relay Call.
3. Wait for the call to connect, then tap RTT/TTY.


iPhone defaults to the RTT protocol whenever it's supported by the carrier.

If you haven't turned RTT on and you receive an incoming RTT call, tap the RTT button to answer the call with RTT.

---

## Type text during an RTT or TTY call


1. Enter your message in the text field.


If you turned on Send Immediately in Settings, your recipient sees each character as you type. Otherwise, tap  to send the message.

2. To also transmit audio, tap .
-

## Review the transcript of a Software RTT or TTY call

1. In the Phone app, tap Recents.

RTT and TTY calls have  next to them.

2. Next to the call you want to review, tap .
- 


*Note:* Continuity features aren't available for RTT and TTY support. Standard voice call rates apply for both Software RTT/TTY and Hardware TTY calls.

## Adjust audio and visual settings on iPhone

You can adjust audio and visual settings such as mono audio, audio balance, noise cancellation, and LED Flash for Alerts.


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### Adjust the volume balance and mono audio

1. Go to Settings  > Accessibility > Audio/Visual.
  2. Adjust any of the following:
    - *Mono Audio:* Combine the left and right channels into a mono signal played on both channels.
    - *Balance:* Drag the Left Right Stereo Balance slider.
- 


### Control noise cancellation on iPhone

Noise cancellation reduces ambient background noise on phone calls when you're holding the receiver to your ear.

1. Go to Settings  > Accessibility > Audio/Visual.
  2. Turn Phone Noise Cancellation on or off.
- 

### Flash the LED for alerts

If you can't hear the sounds that announce incoming calls and other alerts, iPhone can flash its LED (next to the camera lens on the back of iPhone). The LED flashes only if iPhone is locked.

 **Tip:** LED Flash for Alerts is a useful feature for anyone who might miss the tones associated with calls and other alerts in a noisy environment.

1. Go to Settings  > Accessibility > Audio/Visual, then turn on LED Flash for Alerts.


2. To prevent LED flashes when iPhone is in silent mode, turn off Flash on Silent.
- 

## Watch videos with subtitles and captions on iPhone


When you watch video content in the Apple TV app or another supported app, you can see subtitles and closed captions (if available). iPhone usually shows standard subtitles and captions, but you can also choose special accessible captions—such as subtitles for the deaf and hard of hearing (SDH)—if available.

---

### Turn on subtitles and captions in the Apple TV app

1. While playing video content, tap .
  2. Choose from the list of available subtitles and captions.
- 

### Customize the subtitles and captions in supported video apps

1. Go to Settings  > Accessibility > Subtitles & Captioning.
  2. If you prefer closed captioning or subtitles for the deaf and hard of hearing when available, turn on Closed Captions + SDH.
  3. Tap Style, then choose an existing caption style or create a new style based on the following:
    - Font, size, and color
    - Background color and opacity
    - Text opacity, edge style, and highlight
-

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# General

## Use Guided Access on iPhone

Guided Access helps you stay focused on a task by temporarily restricting iPhone to a single app, and allowing you to control which app features are available. You can do any of the following:

- Disable areas of the screen that aren't relevant to a task, or areas where an accidental gesture might cause a distraction
- Disable the iPhone hardware buttons
- Limit how long someone can use the app

---

### Set up Guided Access

1. Go to Settings  > Accessibility > Guided Access, then turn on Guided Access.

2. Adjust any of the following:

- *Passcode Settings*: Tap Set Guided Access Passcode, then enter a passcode.

You can also turn on Face ID (iPhone X and later) or Touch ID (other models) as a way to end a Guided Access session.

- *Time Limits*: Play a sound or speak the time remaining before a Guided Access session ends.
  - *Accessibility Shortcut*: Turn the shortcut on or off during Guided Access sessions.
  - *Display Auto-Lock*: Set how long it takes iPhone to automatically lock during a Guided Access session.
-

## Start a Guided Access session

1. Open the app you want to use.
2. Turn on Guided Access using one of the following methods:
  - Ask Siri. Say something like: "Turn on Guided Access." [Learn how to ask Siri.](#)
  - [Use accessibility shortcuts.](#)
3. Circle any areas of the screen you want to disable. Drag the mask into position or use the handles to adjust its size.
4. Tap Options, then turn on or off any of the following:
  - Sleep/Wake Button
  - Volume Buttons
  - Motion (to prevent iPhone from switching from portrait to landscape or from responding to other motions)
  - Keyboards
  - Touch
  - Time Limit
5. Tap Start.


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## End a Guided Access session

- *iPhone X and later:* Double-click the side button, then unlock with Face ID (if enabled). Or triple-click the side button, then enter the Guided Access passcode.
  - *Other models:* Double-click the Home button, then unlock with Touch ID (if enabled). Or triple-click the Home button, then enter the Guided Access passcode.
- 

## Use accessibility features with Siri on iPhone

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, or use Siri for what it does best—acting as your intelligent personal assistant.


 **Ask Siri.** Say something like: "Turn on VoiceOver" or "Turn off VoiceOver." [Learn how to ask Siri.](#)




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.

---

### **Type instead of speaking to Siri**

1. Go to Settings  > Accessibility > Siri, then turn on Type to Siri.
  2. To make a request, summon Siri, then interact with Siri by using the keyboard and text field.
- 

### **Control voice feedback for Siri**

1. Go to Settings  > Accessibility > Siri.
  2. Choose Always On, Control with Ring Switch, or Hands-Free Only.
- 

## **Use accessibility shortcuts on iPhone**

After you set up accessibility features, you can quickly turn them on or off with any of the methods below.

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### **Ask Siri to turn on an accessibility feature**

Say something like: "Turn on VoiceOver." [Learn how to ask Siri.](#)

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### **Triple-click the side button**

On iPhone X and later, you can turn accessibility features on or off by triple-clicking the side button.


- *Set up Accessibility Shortcut:* Go to Settings  > Accessibility > Accessibility Shortcut, then select the features you use the most.
- *Slow down the double-click or triple-click speed for the side button:* Go to Settings > Accessibility > Side Button.
- *Use Accessibility Shortcut:* Triple-click the side button.

See [Adjust settings for the side or Home button on iPhone.](#)

---

### **Triple-click the Home button**

On models with the Home button, you can turn accessibility features on or off by triple-clicking the Home button.



- *Set up Accessibility Shortcut:* Go to Settings  > Accessibility > Accessibility Shortcut, then select the features you use the most.
- *Slow down the double-click or triple-click speed for the Home button:* Go to Settings > Accessibility > Home Button.
- *Use Accessibility Shortcut:* Triple-click the Home button.

See [Adjust settings for the side or Home button on iPhone](#).

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## **Use Control Center**

You can also add accessibility features to Control Center and then activate them from there.

1. Go to Settings  > Control Center > Customize Controls, then tap  next to accessibility features you use the most.
  2. To activate an accessibility feature from Control Center, open Control Center, then tap the accessibility feature.
-

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# Safety, handling, and support

## Important safety information for iPhone

**⚠ 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 or its battery can be damaged if dropped, burned, punctured, or crushed, or if it comes in contact with liquid. If you suspect damage to iPhone or the battery, discontinue use of iPhone, as it may cause overheating or injury. Don't use iPhone with cracked glass, 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 (supported models), or cause injury to you. iPhone 8 and later, iPhone 7, and iPhone 7 Plus contain one or more lasers 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. Repairs by service providers other than Apple or an Apple Authorized Service Provider may not involve the use of Apple genuine parts and may affect the safety and functionality of the device. You can find more information about repairs and service at the [iPhone Repair website](#).

**Battery** Don't attempt to replace the iPhone battery yourself. The lithium-ion battery in iPhone should be replaced by Apple or an authorized service provider. Improper replacement or repair could damage the battery, cause overheating, or result in injury. The battery must be recycled or disposed of separately from household waste. Don't incinerate the battery. For information about battery service and recycling, see 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. For more about safety while driving, see [Turn on Do Not Disturb While Driving on iPhone](#).

**Navigation** Maps depends on data services. These data services are subject to change and may not be available in all regions, 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 on supported models, by placing iPhone face up on a Qi-certified charger. You can also charge iPhone with “Made for iPhone” or other third-party cables and power adapters that are compliant with USB 2.0 or later and with applicable country regulations and international and regional safety standards, including the International Standard for Safety Information Technology Equipment (IEC 60950-1). Other adapters may not meet applicable safety standards, and charging with such adapters could pose a risk of death or injury.

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. It’s important to keep iPhone and its power adapter or wireless charger in a well-ventilated area when in use or charging. When using a wireless charger, remove metallic cases and avoid placing metallic foreign objects on the charger (for example, keys, coins, batteries, or jewelry), as they may become warm or interfere with charging.

**Charging cable and connector** Avoid prolonged skin contact with the charging cable and connector when the charging cable is connected to a power source because it may cause discomfort or injury. Sleeping or sitting on the charging cable or connector should be avoided.

**Prolonged heat exposure** iPhone and its USB power adapter comply with applicable surface temperature standards and limits defined by the International Standard for Safety of Information Technology Equipment (IEC 60950-1). 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, its power adapter, or a wireless charger when it’s operating or connected to a power source for long periods of time. For example, don’t sleep on a device, power adapter, or wireless charger, or place them under a blanket, pillow, or your body, when it’s connected to a power source. Keep your 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.

**USB power adapter** To operate the Apple USB power adapter safely and reduce the possibility of heat-related injury or damage, plug the power adapter directly into a power outlet. Don’t use the power adapter in wet locations, such as near a sink, bathtub, or shower stall, and don’t connect or disconnect the power adapter with wet hands. Stop using the power adapter and any cables if any of the following conditions exist:

- The power adapter plug or prongs are damaged.
- The charge cable becomes frayed or otherwise damaged.
- The power adapter is exposed to excessive moisture, or liquid is spilled into the power adapter.
- The power adapter has been dropped, and its enclosure is damaged.


18W USB power adapter specifications:


- *Frequency:* 50 to 60 Hz, single phase
- *Line voltage:* 100 to 240 V
- *Output voltage:* 5V/3A or 9V/2A


5W USB power adapter specifications:

- *Frequency:* 50 to 60 Hz, single phase
- *Line voltage:* 100 to 240 V
- *Output voltage:* 5V/1A

**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 on iPhone](#). For more information about hearing loss, see the [Sound and Hearing website](#).

 **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 see the [RF Exposure website](#).

**Radio frequency interference** Observe signs and notices that prohibit or restrict the use of electronic devices. 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. When use is prohibited, such as while traveling in aircraft, or when asked to do so by authorities, turn off iPhone, or [use airplane mode](#) or Settings  > Wi-Fi and Settings > Bluetooth to turn off the iPhone wireless transmitters.

**Medical device interference** iPhone contains components and radios that emit electromagnetic fields. iPhone contains magnets, and the included EarPods also have magnets. These electromagnetic fields and magnets may interfere with medical devices, such as pacemakers and defibrillators. Consult your physician and medical device manufacturer for information specific to your medical device and whether you need to maintain a safe distance of separation between your medical device and iPhone and the EarPods. If you suspect iPhone or the EarPods are interfering with your medical device, stop using iPhone or EarPods.

**Not a medical device** iPhone is not a medical device and should not be used as a substitute for professional medical judgment. It is not designed or intended for use in the diagnosis of disease or other conditions, or in the cure, mitigation, treatment, or prevention of any condition or disease. Please consult your healthcare provider prior to making any decisions related to your health.

**Medical conditions** If you have any medical condition or experience symptoms that you believe could be affected by iPhone or flashing lights (for example, seizures, blackouts, eyestrain, or headaches), consult with your physician prior to using iPhone.

**Explosive and other atmospheric conditions** 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. Exposing iPhone to environments having high concentrations of industrial chemicals, including near evaporating liquified gasses such as helium, may damage or impair iPhone functionality. Obey all signs and instructions.

**Repetitive motion** When you perform repetitive activities such as typing, swiping, 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 for iPhone

**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 off iPhone by pressing and holding the side button or Sleep/Wake button (depending on your model), then dragging the slider.

- Use a soft, slightly damp, lint-free cloth—for example, a lens cloth.
- Avoid getting moisture in openings.
- Don't use cleaning products or compressed air.

iPhone has 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 on iPhone or dust gets on it, 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, lotion, 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.

Supported models are splash, water, and dust resistant and were tested under controlled laboratory conditions with a rating of either IP68 or 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. See the Apple Support article [About splash, water, and dust resistance of iPhone 7 and later](#). To prevent liquid damage on iPhone, avoid the following:

- Swimming or bathing with iPhone
- Exposing iPhone to pressurized water or high velocity water, such as when showering, water skiing, wake boarding, surfing, jet skiing, and so on
- Using iPhone in a sauna or steam room
- Intentionally submerging iPhone in water
- Operating iPhone outside the suggested temperature ranges or in extremely humid conditions
- Dropping iPhone or subjecting it to other impacts
- Disassembling iPhone, including removing screws

If your iPhone 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 to 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.



See the Apple Support article [Keeping iPhone, iPad, and iPod touch within acceptable operating temperatures](#).

## Get information about your iPhone

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### **View overall storage availability and storage used per app**

Go to Settings  > General > iPhone Storage.

See the Apple Support articles [How to check the storage on your iPhone, iPad, and iPod touch](#) and [Manage your iCloud storage](#).

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### **See battery usage**

Go to Settings  > Battery to see the elapsed time since iPhone has been charged and usage by app. See [Charge and monitor the iPhone battery](#).

You can also display battery level as a percentage, turn Low Power Mode on or off, and check your battery's health. See [Charge and monitor the iPhone battery](#).


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### **View call time and cellular usage**

Go to Settings  > Cellular. See [View or change cellular settings on iPhone](#).

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### **See more information about iPhone**

Go to Settings  > General > About. The items you can view include:

- Name
- iOS software version
- Model name
- Part and model numbers. To the right of Model, the part number appears. To see the model number, tap the part number.
- Serial number
- Cellular network
- Number of songs, videos, photos, and apps
- Capacity and available storage space

- Carrier settings. To the right of Carrier, the carrier settings version number appears. To see additional carrier-specific information, tap the version number. Contact your carrier for more details.
- 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 > Legal & Regulatory.

On supported models, you can also find the IMEI on the SIM card tray and the model number in the SIM tray opening.

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### **View or turn off diagnostic information**

Go to Settings  > Privacy > Analytics.

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.

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## View or change cellular settings on iPhone

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.

*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, an icon identifying the cellular network appears in the [status bar](#).

LTE, 5G E, 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.

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## Turn Cellular Data on or off


Go to Settings  > Cellular. 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 a region 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:* (availability varies by carrier and region) Using 4G or LTE loads Internet data faster in some cases but may decrease battery performance. There may be 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 iPhone, iPad, and iPod touch devices. See [Share your iPhone Internet connection](#) 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.

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### **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.

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### **Lock your SIM card**

If your device uses a SIM card for phone calls or cellular data, you can lock the card with a personal identification number (PIN) to prevent others from using the card. Then, every time you restart your device or remove the SIM card, your card locks automatically, and you're required to enter your PIN. See [Use a SIM PIN for your iPhone or iPad](#).

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## **Find more resources for iPhone software and service**

Refer to the following resources to get more iPhone-related safety, software, and service information.

To learn about	Do this
Using iPhone safely	See <a href="#">Important safety information for iPhone</a> .
iPhone service and support, tips, forums, and Apple software downloads	See the <a href="#">iPhone Support website</a> .
Service and support from your carrier	Contact your carrier or go to your carrier's website.
The latest information about iPhone	See the <a href="#">iPhone website</a> .
Getting personalized support (not available in all regions)	See the <a href="#">Apple Support website</a> .
Managing your Apple ID account	Sign in to your <a href="#">Apple ID account page</a> .
Using iCloud	See <a href="#">iCloud Help</a> .
Using iTunes	See the <a href="#">iTunes Support website</a> .
Using other Apple iOS apps	See the <a href="#">Apps Support website</a> .
Finding your iPhone serial number, IMEI, ICCID, or MEID	You can find your iPhone serial number, International Mobile Equipment Identity (IMEI), Integrated Circuit Card Identifier (ICCID), or Mobile Equipment Identifier (MEID) on the iPhone packaging. Or, on iPhone, go to Settings  > General > About. See the Apple Support article <a href="#">Find the serial number or IMEI on your iPhone, iPad, or iPod touch</a> .
Obtaining warranty service	First follow the advice in this guide, then see the <a href="#">iPhone Support website</a> .
Viewing iPhone regulatory information	On iPhone, go to Settings  > General > Legal & Regulatory.
Battery service	See the <a href="#">Battery Service and Recycling website</a> .
Battery performance and health	See the <a href="#">iPhone Battery and Performance website</a> .
Using iPhone in an enterprise environment	See the <a href="#">Apple at Work website</a> .

# FCC compliance 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.

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.  
One Apple Park Way, MS 911-AHW  
Cupertino, CA 95014  
USA

[www.apple.com/contact](http://www.apple.com/contact)

# ISED Canada compliance statement




This device complies with ISED 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.

Le présent appareil est conforme aux CNR d'ISDE 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'appareil doit accepter tout brouillage radioélectrique subi, même si le brouillage est susceptible d'en compromettre le fonctionnement.

La bande 5150–5250 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.

## Ultra Wideband information

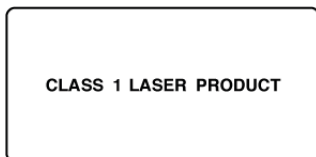
When use of Ultra Wideband is prohibited in your region, such as while traveling in aircraft, Ultra Wideband can be turned off by turning on airplane mode. On models with Ultra Wideband, open Control Center, then tap . You can also turn airplane mode on or off in Settings . When airplane mode is on,  appears in the status bar.

*Australia:* Ultra Wideband transmitters must not be operated within a nominated distance from specified Australian radio-astronomy sites. For further information about nominated distance, please refer to the Radiocommunications (Low Interference Potential Devices) Class Licence 2015 published by the Australian Communications and Media Authority.

Ultra Wideband is available only on iPhone 11 Pro, iPhone 11 Pro Max, and iPhone 11. Ultra Wideband availability varies by region.

# Class 1 Laser information for iPhone

iPhone 8 and later, 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. Caution: These devices contain one or more lasers. Use other than as described in the user guide, repair, or disassembly may cause damage, 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.



## Apple and the environment

At Apple, we recognize our responsibility to minimize the environmental impacts of our operations and products. See our [Environment website](#).

## Disposal and recycling information for iPhone

### ***Apple Recycling Program (available in some regions)***

For free recycling of your old device, a prepaid shipping label, and instructions, see the [Trade in with Apple GiveBack 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. See the [Trade in with Apple GiveBack 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](http://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 decidas desechar este producto y/o su batería, hazlo 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, visita [www.apple.com/mx/environment](http://www.apple.com/mx/environment) o [www.apple.com/la/environment](http://www.apple.com/la/environment).

### ***Turkey environmental information***

Türkiye Cumhuriyeti: AEEE Yönetmeliğine Uygundur.

### ***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. See the [Battery Service and Recycling website](#).

Dispose of batteries according to your local environmental laws and guidelines.

### ***China mainland battery statement***

警告：不要刺破或焚烧。该电池不含水银。

### ***Taiwan battery statement***



廢電池請回收

警告：請勿戳刺或焚燒。此電池不含汞。

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