

2. Tap Content & Privacy Restrictions, then turn on Content & Privacy Restrictions.
3. Tap Intelligence & Siri, tap Image Creation, then tap Allow or Don't Allow.

Block access to ChatGPT

1. Go to Settings , then tap Screen Time.
2. Tap Content & Privacy Restrictions, then turn on Content & Privacy Restrictions.
3. Tap Intelligence & Siri, tap ChatGPT Extension, then tap Allow or Don't Allow.

*Apple Intelligence uses generative models and outputs may vary. Check important information for accuracy.

Family Sharing

Set up Family Sharing on iPad

Family Sharing lets you and up to five other family members share access to Apple services, eligible purchases, an iCloud storage plan, and more. You can even help locate each other's missing devices.

One adult family member—the *organizer*—invites other family members to participate. When family members join, Family Sharing is set up on everyone's devices automatically. The group then chooses which services and features they want to use and share.

Family Sharing is available on eligible devices. See the Apple Support article [System requirements for iCloud](#).



Create a Family Sharing group

You only need to set up Family Sharing on one device. Then it's available on all your devices that are signed in to the same [Apple Account](#).

1. Go to Settings  > [your name] > Family, then follow the onscreen instructions to set up your Family Sharing group.
2. Invite one or more family members. When you add an adult family member, you can designate them as a parent or guardian. [Learn about types of Family Sharing members](#).

You can also add family members later. See [Add Family Sharing members](#).

3. Tap a feature you want to set up for your Family Sharing group, then follow the onscreen instructions.

To set up parental controls or Apple Cash for a child, tap their name, tap the feature, then follow the onscreen instructions.

You can see what you're sharing with your family and adjust sharing settings at any time.

To learn how to set up or join a Family Sharing group on all your devices, see the Apple Support article [Set up Family Sharing](#).

What you can do with Family Sharing

With a Family Sharing group, you can set up or share the following:

- *Passwords and passkeys:* You can share passwords and passkeys with people in your family to access important accounts. See [Share passwords](#).
- *An iCloud Drive folder:* Organize and share family documents, photos, and more. See [Share files and folders in iCloud Drive](#).
- *Apple and App Store subscriptions:* You can share Apple subscriptions, including iCloud+, and eligible App Store subscriptions. See [Share subscriptions](#).
- *Purchases:* You can share items purchased in the App Store, Apple Books, and Apple TV. All purchases are billed to the family organizer. See [Share purchases](#).
- *Locations:* When you share your location with your Family Sharing group, all family members, including any new members added later, can use the Find My app  to see your location and help locate a missing device. See [Share locations with family members and locate their lost devices](#).
- *Apple Card and Apple Cash:* You can share Apple Card with trusted members of your Family Sharing group or set up an Apple Cash Family account for a child. See [Use Apple Cash and Apple Card with Family Sharing \(U.S. only\)](#).
- *Parental controls:* You can manage your children's purchases, how they use their Apple devices, and more. See [Set up parental controls with Family Sharing](#).
- *A device for your child:* You can set up a new iOS or iPadOS device for a child and customize parental controls. See [Set up a device for a child with Family Sharing](#).

See recommendations for Family Sharing features

To see suggestions to help you get the most out of Family Sharing, go to Settings  > Family, then tap Recommended For Your Family.

Add a member to a Family Sharing group on iPad

With [Family Sharing](#), each family member joins the family group with their own [Apple Account](#). That way you can share access to subscriptions and other features without sharing personal information like photos or documents.

The family organizer can easily invite family members who have an Apple Account or create an Apple Account for a child who doesn't have one yet.

[Learn about types of Family Sharing members.](#)

Add a family member with an Apple Account

The organizer of the Family Sharing group can add a family member who has their own Apple Account.

1. Go to Settings  > Family, then tap Add Member in the upper-right corner.
2. Tap Invite Others, then follow the onscreen instructions.

You can send the invitation using AirDrop, Messages, or Mail. If you're near the family member, you can also tap Invite in Person and ask the family member to enter their [Apple Account](#) email address (or phone number) and password on your device.

People you invite see your invitation at the top of Settings in the Family row. If they haven't accepted your invitation, you can also follow up with reminders.

Create an Apple Account for a child

Children under 13 can't create an Apple Account on their own. (This age varies by country or region.) But if you're the family organizer or a parent or guardian, you can create an Apple Account for a child and add them to the Family Sharing group.

1. Go to Settings  > Family.
2. Do one of the following:
 - *If you're the organizer:* Tap Add Member, then tap Create Child Account.

Note: If your child already has an Apple Account, tap Invite Others. They can enter their Apple Account and password on your device to accept the invitation.
 - *If you're a parent or guardian:* Tap Add Member.
3. Enter the child's name and birthday. The child's birthday is used to set suggested content restrictions that determine the content they can access. You can adjust these content restrictions later by going to Settings  > Family > [child's name] > Screen Time > Parental Controls) on your device and dragging the age slider.

You can also manually set [content restrictions](#), [communication limits](#), and [downtime](#) in Settings  Screen Time; share your child's location with all members of the Family Sharing group, including any new members added later; and use Ask to Buy. You can change these settings at any time. For more information, see any of the following:

- [Set up Screen Time for a family member](#)
- [Share locations with family members and locate their lost devices](#)
- [Apple Support article: Approve what kids buy with Ask to Buy](#)

4. Follow the onscreen instructions to finish creating the child's account.

For more information about child accounts and the age at which a child can create their own Apple Account, see the Apple Support article [Create an Apple Account for your child](#).

To change device settings for image creation features, Writing Tools, and the ChatGPT extension, see [Block access to Apple Intelligence features in Screen Time](#).

Note: You can use Apple Intelligence features on an iPad that supports [Apple Intelligence](#), any iPhone 16 model, iPhone 15 Pro, iPhone 15 Pro Max, iPhone AAA, a Mac or iPad with M1 or later, or an iPad mini (A17 Pro).

If you want to join an existing Family Sharing group, [ask the organizer to add you](#). You can only be a member of one Family Sharing group at a time. If you want to join a different group, leave your current group first. See [Leave a Family Sharing group](#).

Leave or remove a member from a Family Sharing group on iPad

In a [Family Sharing group](#), the organizer can remove members or disband the group, and family members (other than teens with parental controls or children) can remove themselves.

[Learn about types of Family Sharing members.](#)

Remove a member from a family group

The organizer of a Family Sharing group can remove other members. When a family member is removed, they immediately lose access to shared subscriptions and content purchased by other members.

1. Go to Settings  > Family.
2. Tap *[member's name]*, then tap Remove *[member's name]* from Family.

You can't remove a child from your Family Sharing group. However, you can move them to another group or delete their Apple Account. See the Apple Support article [Move a child to another group using Family Sharing](#).

If you turned on Screen Time for a teen, you need to turn off Screen Time settings before you can remove them from the group. See [Set up Screen Time for a family member](#).

Leave a Family Sharing group

When you leave a Family Sharing group, you stop sharing your purchases and subscriptions with family members and immediately lose access to any content they've shared.

Note: The organizer can't leave the Family Sharing group. If you want to change the organizer, you must disband the group, and have another adult create a new one.

1. Go to Settings  > Family.
2. Tap *[your name]*, then tap Stop Using Family Sharing.

Disband a Family Sharing group

When the family organizer turns off Family Sharing, all family members are removed from the group at the same time. When a Family Sharing group is disbanded, all members immediately lose access to the shared content and subscriptions.

Note: If a child is in the Family Sharing group, the organizer must move them to another group or delete their Apple Account before disbanding the group. See the Apple Support article [Move a child to another group using Family Sharing](#).

1. Go to Settings  > Family.
2. Tap *[your name]*, then tap Stop Using Family Sharing.

Share Apple and App Store subscriptions with family members on iPad

When you're in a [Family Sharing group](#), you can share Apple subscriptions and eligible App Store subscriptions with other family members.

If your Family Sharing group has [purchase sharing](#) turned on, any subscriptions shared with the group are billed directly to the organizer's default payment method.

Note: Not all services are available in all countries or regions, and some selections are subject to content restrictions set in Screen Time.

Share Apple subscriptions

1. Go to Settings  > Family.
2. Tap Subscriptions, then do one of the following:
 - Tap a subscription you want to share, then follow the onscreen instructions.
 - Tap Manage Subscriptions, then tap a subscription.

See any of the following to learn more.

- *Apple Arcade:* See [Subscribe to Apple Arcade](#). All members of your family can download and play Apple Arcade games from the App Store. Each player gets a personalized account—your progress is carried over between devices.
- *Apple Fitness+:* See [Apple Fitness+ at a glance](#) in the Apple Fitness+ User Guide. All members of your family can access workouts in the Fitness app on their iPhone or iPad.
- *Apple Music:* See [Subscribe to Apple Music](#). With a family subscription, each family member gets their own music library and personal recommendations.
- *Apple News+:* See [Subscribe to Apple News+](#). All members of your family can read Apple News+ publications for no additional charge.
- *Apple TV+ and Apple TV channels:* See [Subscribe to Apple TV+, MLS Season Pass, or an Apple TV channel](#) and [Add your TV provider to the Apple TV app](#). Each family member can watch on their iPhone, iPad, iPod touch, Mac, Apple TV, and supported smart TVs and streaming devices, using their own Apple Account and password.
- *iCloud+:* See [Subscribe to iCloud+](#). When you share iCloud+, all family members have access to iCloud+ features and storage. For storage, you only share the space—your photos and documents stay private and everyone keeps using their own accounts.

For information about combining your Apple subscriptions, see the Apple Support article [Bundle Apple subscriptions with Apple One](#).

Share App Store subscriptions

You can choose which eligible App Store subscriptions you share with family members. For information about the App Store, see [Get apps in the App Store](#).

1. Go to Settings  > Family > Subscriptions > Manage Subscriptions.

2. Do either of the following:

- *Share all new subscriptions:* Turn on Share with Family. When you purchase a new subscription that's eligible for sharing, it's shared with your Family Sharing members by default.
- *Change the settings of a specific subscription:* Tap a subscription, then turn Share with Family on or off.

If you don't see Share with Family, the subscription isn't eligible for sharing.

Share App Store, Apple TV, and Apple Books purchases with Family Sharing on iPad

With [Family Sharing](#), the organizer can set up purchase sharing to share App Store, Apple Books, and Apple TV purchases.

The organizer adds a payment method that's shared with the family; when a family member makes a purchase, the organizer is billed. The purchased item is added to the initiating family member's account and eligible purchases are shared with the rest of the family.

The family organizer can also require that children in the family group request approval for purchases or free downloads. See [Set up parental controls](#).

Turn on purchase sharing

When the family organizer turns on purchase sharing, they pay for family members' purchases and must have a valid payment method on file.

1. Go to Settings  > Family.
2. Tap Purchase Sharing, then follow the onscreen instructions.

Access shared content

When purchase sharing is turned on, you can download eligible apps and play content that your family members buy. See any of the following Apple Support articles:

- [How to download apps and content that your family members purchased](#)
- [What types of content can I share with my family?](#)
- [If you don't see your family's shared content](#)

Turn off purchase sharing for yourself

You can turn off purchase sharing for yourself. Family Sharing members won't see your purchases, but you can still see items other members have shared with you.

Note: Even though your items aren't shared, any purchases you make still use the shared family payment method.

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

If the organizer wants to turn off purchase sharing entirely, they can tap Stop Purchase Sharing.

If you don't want to share a specific item with your family members, see the Apple Support article [Hide and unhide music, movies, TV shows, audiobooks, and books](#).

You can also [share Apple and App Store subscriptions with family members](#).

Share locations with family members and locate their lost devices on iPad

With [Family Sharing](#), you can share your location with members of your Family Sharing group and help them find lost devices. When the family organizer sets up location sharing in Family Sharing settings, the organizer's location is automatically shared with everyone in the family, including any new members added later. Then, family members can choose whether or not to share their location.

Share your location with family members

When you share locations with your family, they can [see your location in Find My](#). You can also [get notified when family members change their locations](#)—for example, if a child leaves school during school hours.

1. Go to Settings  > Family > Location Sharing.
2. Select the family member you want to share your location with.

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 stop sharing your location with any family member at any time.

Note: Children and teens with [Screen Time turned on](#) may not be able to change their own location sharing settings.

To share your location, you must have Location Services turned on in Settings  > Privacy & Security. See [Control the location information you share](#).

Locate a family member's device

After you share your location with members of your Family Sharing group, they can help locate a missing device [added to the Find My app](#).

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

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

Ask a family member to share an AirTag with you

If you receive a notification in the Find My app that says AirTag Detected Near You or Unknown AirTag, you can ask the family member who owns it to share the AirTag with you.

1. In the notification, tap Ask Owner to Share AirTag.
2. Tap Ask Owner at the bottom of the screen.

You can also use [Find Devices on iCloud.com](#) to locate a family member's missing device. See [Locate a device in Find Devices on iCloud.com](#) in the iCloud User Guide.

Use Apple Cash and Apple Card with

Family Sharing on iPad (U.S. only)

You can use Apple Cash and Apple Card with your [Family Sharing](#) group. The organizer of the Family Sharing group can set up Apple Cash for a child, and share Apple Card with trusted members of their Family Sharing group.

[Learn about types of Family Sharing members.](#)

Set up Apple Cash Family for a child

The family organizer can set up Apple Cash for a child.

1. Go to Settings  > Family.
2. Tap the child for whom you want to set up Apple Cash.
3. Tap Apple Cash, then follow the onscreen instructions.

To see the card balance, monitor transactions, and narrow the list of people that the child can send money to, go to Settings > Wallet & Apple Pay. See [Manage your Apple Cash](#).

For more information about system requirements and how to manage Apple Cash accounts, see the Apple Support articles [Set up and use Apple Cash Family](#) and [View and limit your child or teen's Apple Cash activity](#).

Set up Apple Card Family

You can share your Apple Card with family members, manage payments, and control account settings and limits for children who are 13 years or older. You can also review and manage everyone's details.

1. Go to Settings > Family > Share My Apple Card.

The option only appears if you have Apple Card.

2. Follow the onscreen instructions.

For more information about what owners, co-owners, and participants can do with Apple Card, see the Apple Support article [Set up Apple Card Family and add a co-owner and participants](#).

Set up parental controls with Family Sharing on iPad

With [Family Sharing](#), the organizer, or another adult designated as a parent/guardian, can set up parental controls for children or others in the Family Sharing group. You can use Screen Time to manage how your children use their Apple devices. You can also turn on Ask to Buy, so children must receive approval for eligible purchases or free downloads.

[Learn about types of Family Sharing members.](#)

Customize parental controls during setup

When you [add a child](#) to your Family Sharing group or [set up a device for a child](#), you can customize parental controls from the start. You can change those settings at any time.

Follow the onscreen instructions during setup to add any of the following:

- Age-related restrictions for content in apps, books, TV shows, and movies

- Downtime and limits for specific apps
- Restrictions for who your child can communicate with
- Approvals for purchases or free downloads

See the Apple Support article [Use parental controls on your child's iPhone, iPad, and iPod touch](#).

Receive warnings about sensitive content

Screen Time can check whether you or other family members have received or sent any sexually explicit photos or videos. See [Check for sensitive photos in Messages and AirDrop on a family member's device](#).

You can also block sensitive content and set restrictions on purchases. See [Block adult content on a family member's device](#).

Set up Screen Time for a child

Screen Time allows you to manage settings for downtime, app use, contacts, content ratings, and more. To use Screen Time, your child must be using an eligible device. See the Screen Time section in the Apple Support article [System Requirements for iCloud](#).

1. Go to Settings  > Family > [child's name] > Screen Time.
2. Tap the child for whom you want to set up Screen Time.
3. Tap Screen Time, then do any of the following:
 - *Change restrictions for Web content:* Tap Web Content, then choose an option for access to web content.
 - *Change access to media viewing:* Tap a category of media (for example, Movies, TV Shows, Music Videos), then choose a rating or turn a feature on or off.
4. Continue following the onscreen instructions to set up Screen Time options.

For information about Screen Time settings, see [Set up Screen Time](#).

To learn more about the different content and privacy restrictions, see the Apple Support article [Use parental controls on your child's iPhone, iPad, and iPod touch](#).

If your child requests more screen time, you can approve or decline the request in Settings  > Screen Time or in Messages .

Turn on Ask to Buy

When you set up Ask to Buy, a child's purchases must be approved by the family organizer or a parent or guardian in the family group.

1. Go to Settings  > Family.
2. Tap the child for whom you want to set up Ask to Buy.
3. Tap Ask To Buy, then follow the onscreen instructions.

See the Apple Support article [Approve what kids buy with 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 on by default.

You can also set up an Apple Cash Family account for a child. See [Use Apple Cash and Apple Card with Family Sharing \(U.S. only\)](#).

Set up a device for a child with Family Sharing on iPad

With Family Sharing, the organizer, a parent, or a guardian can use Quick Start on their iPad to set up a new iPhone or iPad for a child and customize parental controls. You can also set up a device for a child without using Quick Start.

If you didn't sign in to a child's account when you set up their device, you can do so in Settings with their Apple Account and password, or by using proximity sign-in with a nearby iPhone or iPad.

Note: If the child already has an Apple Account, make sure they've been added to your [Family Sharing group](#). If the child doesn't have an Apple Account and they're under 13 ([this age varies by region](#)), you can [create an Apple Account for them](#) while adding them to the group.

Use Quick Start to set up an iPad or iPhone for a child

Note: Requires iPadOS 16 or later. Bluetooth must be turned on.

1. Go to Settings , then sign in to your Apple Account on your iPad.
2. On the new iPad or iPhone you want to set up for your child, press and hold the side button or top button until the Apple logo appears.
3. Bring your iPad next to the new device.
4. When you see Set Up New [device] on your iPad, tap Continue, follow the onscreen instructions, then do one of the following:
 - If you have a child in your family group, tap your child's name.
 - If you need to create a new Apple Account for a child [who is under 13](#), tap Create New Child Account, then create an Apple Account for your child.
5. Follow the onscreen instructions to finish setting up your child's device.

Set up an iPad or iPhone for a child without using Quick Start

1. Turn on the new device.
2. When the Quick Start screen appears, tap Set Up Without Another Device, follow the onscreen instructions, then tap Set Up for a Child in My Family.
3. Continue to follow the onscreen instructions to complete the setup.

Set up an iPad or iPhone for a child in Settings

If you didn't sign in to a child's account during setup, do the following:

1. Go to Settings .
2. Tap Sign in to your iPad.

3. Do one of the following:

- *Sign in with a nearby iPad or iPhone:* Tap Use Another Apple Device, then follow the onscreen instructions. If you already have a child in your family group, tap their name, then tap Get Started. If you need to create a new Apple Account for a child, tap Create New Child Account.
- *Sign in with an email address or phone number and password:* Tap Sign in Manually, then tap Sign in a child in my Family.

4. Continue to follow the onscreen instructions to complete the setup.

You can set [content restrictions, communication limits, and downtime](#); set up [Screen Distance](#); [share locations](#) with all members of the Family Sharing group, including any new members added later; and turn on [Ask to Buy](#). You can change these settings at any time.

Note: Screen Distance is available on [supported models](#).

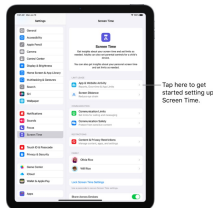
Screen Time

Get started with Screen Time on iPad

You can get information about how you and your family members spend time on your devices—including which apps and websites you use and how often you pick up your device. Screen Time also lets you [schedule time away from the screen](#) and [set limits for app use](#).

Turn on Screen Time

1. Go to Settings  > Screen Time.
2. Tap App & Website Activity, then tap Turn On App & Website Activity.



Use Screen Time on all your devices

You can share your Screen Time settings and reports across all your devices where you're signed in to the same Apple Account.

1. Go to Settings  > Screen Time.
2. Scroll down, then turn on Share Across Devices.

View your Screen Time summary

Any time after you turn on App & Website Activity, you can view a report of your device use, including how much time you spend using certain kinds of apps, how often you pick up your iPad and other devices, which apps send you the most notifications, and more.

1. Go to Settings  > Screen Time.
2. Tap See All App & Website Activity, then tap Devices to select which device you want to see usage for.

3. Tap Week to see a summary of your weekly use, or tap Day to see a summary of your daily use.



Use the Screen Time widget to check your device use at a glance

You can quickly check your device use by [adding a Screen Time widget](#) to your Home Screen. The widget displays information from your Screen Time summary—the larger the widget you add, the more information it displays.

If you [set up Screen Time for family members](#) through Family Sharing, you can tap the widget to see a list of the people in your family group. Tap the name of a family member whose report you want to view.

You can also view your summary by tapping a Screen Time Weekly Report notification when one appears on your screen. (If the notification disappears, you can [find it in Notification Center](#).)

Help protect your vision health with Screen Distance on iPad

Viewing a device (or a book) too closely for an extended period of time can increase the risk of myopia for younger users and eyestrain for users of all ages. The Screen Distance feature in Screen Time uses the TrueDepth camera ([supported models](#)) to detect when you hold iPad closer than 12 inches for an extended period, and encourages you to move it farther away.

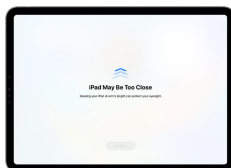
Screen Distance can remind younger users to engage in healthy viewing habits that can lower their risk of myopia. It gives adult users the opportunity to reduce digital eyestrain.

Note: Screen Distance is turned on by default for children under 13 in a Family Sharing group.

Turn Screen Distance on or off

1. Go to Settings  > Screen Time.
2. Tap Screen Distance, then turn on Screen Distance.

With Screen Distance on, when you hold the screen too close to your face for an extended period, Screen Distance covers the screen with an alert, preventing you from continuing. When you move iPad more than 12 inches away, you can tap Continue to resume using it.



Set up Screen Time on iPad

You can schedule time away from the screen, set time limits for app use, and more.

Schedule time away from the screen

Block apps and notifications for periods when you want time away from your devices. For example, you might want to schedule downtime during meals or at bedtime.

During downtime, only calls, messages, and apps you choose to allow are available. You can receive calls from contacts you've selected to [allow communication with during downtime](#), and you can use apps you've chosen to [allow at all times](#).

1. Go to Settings  > Screen Time.
2. Tap App & Website Activity, then turn on App & Website Activity if you haven't already.
3. Tap Downtime, then do one of the following:
 - Tap Turn On Downtime Until Tomorrow.
 - Tap Scheduled to schedule downtime in advance.

When you schedule downtime, a 5-minute reminder is sent before downtime begins. You can ignore the reminder, or turn on downtime until the beginning of the scheduled downtime.

4. Select Every Day or Customize Days, then set the start and end times.

You can turn off the Downtime schedule at any time by turning off Scheduled.

Set limits for app use

Set a time limit for a category of apps (for example, Games or Social Networking) and for individual apps.

1. Go to Settings  > Screen Time.
2. Tap App Limits, then tap Add Limit.
3. Select one or more app categories.

To set limits for individual apps, tap the category name to see all the apps in that category, then select the apps you want to limit. If you select multiple categories or apps, the time limit you set applies to all of them.

4. Tap Next, then set the amount of time allowed.

To set an amount of time for each day, tap Customize Days, then set limits for specific days.

5. When you finish setting limits, tap Add.

Choose apps and contacts to allow at all times

Specify apps that can be used and contacts you can communicate with at all times (for example, in the event of an emergency), even during downtime.

1. Go to Settings  > Screen Time > Always Allowed.
2. Below Allowed Apps, tap  or  next to an app to add or remove it from the Allowed Apps list.

3. To specify contacts you want to allow communication with, tap **Contacts**.

The option you selected in **Communication Limits** appears here. You can change this setting to **Specific Contacts**, then choose one of the following:

- *Choose From My Contacts*: To select specific people to allow communication with.
- *Add New Contact*: To add a new contact and allow communication with that person.

4. Tap  at the top left.

Set communication limits and block apps and content on iPad

Set communication limits and privacy protections and block content and apps on iPad.

Allow or block calls and messages from specific contacts

You can either allow or block communication—including incoming and outgoing phone calls, FaceTime calls, and messages—from certain contacts in iCloud, either at all times or during certain periods.

1. If you haven't already turned on **Contacts** in iCloud, go to **Settings**  > [your name] > **iCloud**, tap **See All**, then turn on **Contacts**.
2. Go to **Settings**  > **Screen Time**.
3. Tap **Communication Limits**, tap **During Screen Time**, then select one of the following for communication at all times (other than during downtime):
 - *Contacts Only*: To allow communication with only your contacts.
 - *Contacts & Groups with at Least One Contact*: To only allow one-on-one conversations with people in your contacts and group conversations that include at least one person in your contacts.
 - *Everyone*: To allow conversations with anyone, including unknown numbers.
4. Tap **Back** at the top left, then tap **During Downtime**.

The option you selected in step 3 (for **During Screen Time**) is already set here. You can change this setting to **Specific Contacts**, then choose one of the following:

- *Choose From My Contacts*: To allow communication with your existing contacts during downtime.
- *Add New Contact*: To add a contact and allow communication with them during Downtime.

If someone who's currently blocked by your **Communication Limit** settings tries to call you or send you a message, their communication won't go through.

If you try to call or send a message to someone who's currently blocked by your **Communication Limit** settings, their name or number appears in red in your list of recent calls or messages, and your communication won't go through. You can communicate with them when the communication limit is changed. If the limit applies only to downtime, you receive a **Time Limit** message. You can resume communication with the contact when downtime is over.

To resume communication with contacts who are blocked by your Communication Limit settings, change the settings by following the steps above.

Block content and prevent iTunes & App Store purchases

Set Content & Privacy Restrictions to block inappropriate content and set restrictions for iTunes Store and App Store purchases.

1. Go to Settings  > Screen Time.
2. Tap Content & Privacy Restrictions, then turn on Content & Privacy Restrictions.
3. Do any of the following:
 - *Set restrictions for store purchases and redownloads:* Tap iTunes & App Store Purchases.
 - *Remove an app or feature from the Home Screen:* Tap Allowed Apps & Features.
 - *Set content ratings and other restrictions for App Store, Media, Web, & Game Center:* Tap App Store, Media, Web, & Games.
 - *Restrict access to Apple Intelligence, Siri, and Math Results:* Tap Intelligence & Siri. (See [Block access to Apple Intelligence features in Screen Time.](#))
 - *Allow changes to privacy settings in certain features, apps, or media:* Tap an option below Privacy, then tap Allow Changes or Don't Allow Changes.
 - *Allow changes to other settings:* Tap an option below Allow Changes To, then tap Allow or Don't Allow.

To allow access to image creation feature, Writing Tools, and the ChatGPT extension, see [Block access to Apple Intelligence features in Screen Time.](#)

Note: You can use Apple Intelligence features on an [iPad that supports Apple Intelligence](#), any iPhone 16 model, iPhone 15 Pro, iPhone 15 Pro Max, iPhone AAA, or a Mac with M1 or later.

Turn built-in apps and features on or off

You can restrict the use of built-in apps or features. If you turn off an app, it isn't deleted; it's temporarily hidden from your Home Screen until you turn it back on.

1. Go to Settings  > Screen Time.
2. Tap Content & Privacy Restrictions, then turn on Content & Privacy Restrictions.
3. Tap Allowed Apps & Features, then turn off the apps or features you want to restrict.

Block adult websites

You can block specific websites by URL.

1. Go to Settings  > Screen Time.
2. Tap Content & Privacy Restrictions, then turn on Content & Privacy Restrictions.
3. Tap App Store, Media, Web, & Games, then tap Web Content.

4. Select Limit Adult Websites, tap Add Website below Never Allow, and enter the URLs of the websites you want to block

Lock your Screen Time settings

You can secure your Screen Time settings by entering a Screen Time passcode. That way, no one can change the settings without first entering the Screen Time passcode.

1. Go to Settings  > Screen Time.
2. Tap Lock Screen Time Settings (scroll down, if necessary).
3. Enter a four-digit passcode, reenter it, then tap OK.

If you forget your Screen Time passcode, see [If you forgot your Screen Time passcode](#).

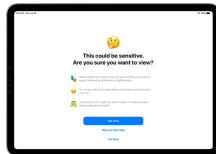
Check for sensitive images on iPad

Your iPad (or your family member's iPad) can detect nudity in images before they're viewed in Messages, AirDrop, [Contact Posters](#), FaceTime messages, the Photos app, and third-party apps that use Apple's Communication Safety framework. If nudity is detected in an image, the image is blurred and resources are provided to help your child handle the situation (not available in all countries or regions). This feature doesn't give Apple access to the photos. See the Apple Support article [About Communication Safety in Messages](#).

1. Go to Settings  > Screen Time.
2. Tap Communication Safety, then turn on Communication Safety.

When Communication Safety is turned on, iPad detects nude images before they're viewed, and displays a warning.

The parent's Screen Time [passcode](#) must be entered before any image determined by iPad to contain nudity can be viewed.



Note: When you turn on Communication Safety, it turns on Sensitive Content Warning in Settings > Privacy & Security. You can also turn on Sensitive Content Warning separately in Settings > Privacy & Security. See [Receive warnings about sensitive content](#).

Set up Screen Time for a family member on iPad

You can set up Screen Time for a family member on their device by following the steps in [Set up Screen Time](#), or if they're in a Family Sharing group for which you're the organizer, you can [set up Screen Time for them through Family Sharing](#) on your device.

If you're the organizer (or a parent or guardian) of a Family Sharing group, when you set up a child account, you enter the child's name and birthday. The child's birthday is used to set suggested content restrictions that determine the content they can access. You can adjust these content restrictions later by going to Settings  > Family > [child's name] > Screen Time > Parental Controls on your device and dragging the age slider.

You can also manually set up [content restrictions](#), [communication limits](#) and [downtime](#) in Settings > Screen Time on the child's device.

For children under 13, [Communication Safety](#) and [Screen Distance](#) are turned on by default. The Web Content filter is set by default to Limit Adult Websites for children under 13. (This age varies by country or region.)

Set up Screen Time for a family member

1. On your device, go to Settings  > Screen Time.
2. Scroll down and select a family member below Family.
3. To schedule downtime for your family member, follow the instructions in [Schedule time away from the screen](#).

If your child requests more screen time, you can approve or decline the request in Settings > Screen Time or in Messages.

4. To set limits for app use for your family member, follow the instructions in [Set limits for app use](#).
5. To choose apps and contacts to allow your family member to use at all times, follow the instructions in [Choose apps and contacts to allow at all times](#).

Note: If your family member needs health or accessibility apps, make sure they're in the Allowed Apps list. If Messages isn't always allowed, your family member may not be able to send or receive messages (including to emergency numbers and contacts) during downtime or after the app limit has expired.

6. To help reduce your family member's risk of myopia or eyestrain, [turn on Screen Distance](#).

You can also do any of the following for a family member:

- [Block content and prevent iTunes & App Store purchases](#)
- [Allow or block calls and messages from specific contacts](#)
- [Check for sensitive images](#)

Check for nude content on a family member's iPad

You can have your family member's iPad detect nudity in images before they're sent or received in Messages, AirDrop, Contact Posters, FaceTime messages, the Photos app, and third-party apps that adopt Apple's Communication Safety framework. If nudity is detected in an image, the image is blurred and resources are provided to help your child handle the situation (not available in all countries or regions). This feature doesn't give Apple access to the photos. See the Apple Support article [About Communication Safety on your child's Apple device](#).

Note: For children under 13 in a Family Sharing group, Communication Safety is turned on by default.

1. On your device, go to Settings  > Screen Time.
2. Scroll down and tap the name of your family member.

3. Tap Communication Safety, then turn on Communication Safety.

You may need to enter the Screen Time passcode.

Note: When you turn on Communication Safety, it turns on the Sensitive Content Warning in Settings  > Privacy & Security. See [Receive warnings about sensitive content](#).

Block adult content on a family member's device

When you set up a child account, you enter the child's birthday after tapping Create Child Account. The child's age automatically determines the content they can access. You can help ensure that the content on your family member's device is age appropriate by manually limiting the explicitness ratings in Content & Privacy Restrictions.

1. On your family member's device, go to Settings  > Screen Time.
2. Tap Content & Privacy Restrictions, then turn on Content & Privacy Restrictions.
3. Choose specific content and privacy options.
 - To protect your family member's hearing, scroll down, tap Reduce Loud Audio, then select Don't Allow. (This prevents changes to the maximum headphone volume.) See [Reduce loud headphone sounds in Settings](#).
 - To restrict access to specific apps or features, go to Settings > Screen Time > Content & Privacy Restrictions > Allowed Apps & Features, then turn them off. To allow them, turn them on.
4. Tap  at the top left.

Add or change Screen Time settings for a family member later

To add or change Screen Time settings later, follow the steps described in the sections above.

Important: If you set up Screen Time for a family member on their device (not through Family Sharing), and you forget the Screen Time passcode, you can use your [Apple Account](#) to reset it. However, if you set up Screen Time for a family member on your device through Family Sharing and you forget your Screen Time passcode, you can reset it on your device using your device passcode, Touch ID, or Face ID.

Wallet & Apple Pay

Set up Apple Pay on iPad

Set up Apple Pay to make secure payments in apps and on websites that support [Apple Pay](#). (Available in certain countries and regions; see [Countries and regions that support Apple Pay](#).)

Add a debit or credit card

1. Go to Settings  > Wallet & Apple Pay.
2. Tap Add Card. You may be asked to [sign in to your Apple Account](#).

3. Add any of the following types of cards:

- *A new card:* Tap Debit or Credit Card, tap Continue, then position your card so that it appears in the frame, or enter the card details manually.
- *Apple Card:* See [Use Apple Card](#).
- *Your previous cards:* Tap Previous Cards, then choose any cards you previously used. These cards may include the card associated with your Apple Account, cards you use with Apple Pay on your other devices, cards you [added to Safari AutoFill](#), or cards you removed from Wallet. Tap Continue, authenticate with Face ID or Touch ID, then follow the onscreen instructions.
- *A card from a supported app:* Below "From Apps on Your iPad", tap the app of your bank or card issuer.

4. Verify your information with your bank or card issuer. They may ask you to provide more information or to download an app before approving your card for use with Apple Pay.

See the Apple Support article [If you can't add a card to Apple Wallet to use with Apple Pay](#).

Set the default card

The first card you add becomes your default card for payments. You can set a different card as the default at any time.

Go to Settings  > Wallet & Apple Pay, tap Default Card, then choose a card.

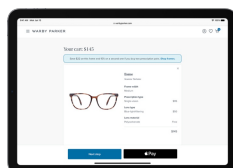
View and manage card details

1. Go to Settings  > Wallet & Apple Pay.
2. Tap a card, then do any of the following:
 - Tap Transactions to view your recent history. To hide this information, turn off Show 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 Apple Pay.

Note: The availability of Apple Pay and its features varies by country or region. See the Apple Support article [Countries and regions that support Apple Pay](#).

Use Apple Pay in apps and on the web on iPad

You can make purchases using [Apple Pay](#) in apps, in App Clips, and on the web wherever you see the Apple Pay button. (Available in certain countries and regions; see [Countries and regions that support Apple Pay](#).)



Pay in an app, an App Clip, or Safari

1. During checkout, tap the Apple Pay button.
2. Review the payment information and set any of the following:

- Payment method

You can choose a different payment card; if available, you can also pay with rewards or installments (available on cards from participating banks and card providers in certain markets; subject to eligibility and approval).

- Billing and shipping addresses
- Contact information

Tip: If you subscribe to iCloud+, you can [use Hide My Email](#) to keep your real email address private.

3. Authenticate with Face ID, Touch ID, or your passcode to complete the payment.

See the Apple Support articles [Pay with rewards using Apple Pay](#) and [Pay with installments using Apple Pay](#).

Use Apple Pay in third-party browsers on Mac, Window devices, and other devices

When you shop in a supported third-party web browser, you can complete the purchase with Apple Pay using the payment information on your iPad. (Not available in all countries or regions.)

1. At checkout, click Apple Pay, then [scan the code](#) using your iPad camera.
2. On your iPad, review the payment information and set any of the following:
 - Payment method
 - Billing and shipping addresses
 - Contact information
3. Authenticate with Face ID, Touch ID, or your passcode to complete the payment.

Use Apple Cash on iPad

With Apple Cash (available in the U.S.), you can send and receive money, get cash back from Apple Card transactions, make purchases, and transfer your Apple Cash balance to your bank account.

Set up Apple Cash

1. Go to Settings  > Wallet & Apple Pay.
2. Tap Apple Cash, then follow the onscreen instructions.

For more information, see the Apple Support article [Set up Apple Cash](#).

Make purchases with Apple Cash

You can make purchases with Apple Cash using [Apple Pay](#) or the virtual card number:

- *With Apple Pay:* Use [Use Apple Pay in apps and on the web](#).
- *With the virtual card number:* Go to Settings  > Wallet & Apple Pay, tap the Apple Cash card, then tap Card Information.

See the Apple Support article [Use your virtual card number for Apple Cash](#).

Send and receive payments with Apple Cash in Messages

You can start a person-to-person payment in the following ways:

- *In Wallet:* Go to the Wallet app  on your iPhone, tap the Apple Cash card, tap Send or Request, then follow the prompts.
- *In Messages:* Go to the Messages app , start a new message or tap an existing conversation, tap , tap Apple Cash, then follow the prompts.

For more information, see the Apple Support article [Send and receive money with Apple Cash](#).

Manage your Apple Cash

1. Go to Settings  > Wallet & Apple Pay.
2. Tap Apple Cash.
3. Do any of the following:
 - *Add money or set up Auto Reload:* See the Apple Support article [Add money to Apple Cash](#).
 - *Transfer funds to your bank:* See the Apple Support article [Transfer money in Apple Cash to your bank account or debit card](#).
 - *Set up and manage recurring payments:* See the Apple Support article [Send and receive money with Apple Cash](#).
 - *See the virtual card number:* Tap Card Information, then use the information for purchases in apps or on the web.
 - *View card details:* Update your bank account information, request transaction statements, contact support, and more.

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

Use Apple Card on iPad

Apple Card (available in the U.S.) is a credit card created by Apple and designed to help you lead a healthier financial life. You can sign up for Apple Card 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, and Apple Card support is available anytime by simply sending a text from Messages.

Apply for Apple Card

1. Go to Settings  > Wallet & Apple Pay.
2. Tap Add Card, then tap Apply for Apple Card.

For more information, see the Apple Support article [How to apply for Apple Card](#).

Make purchases with Apple Card

You can make purchases with Apple Card in the following ways:

- *With Apple Pay:* At contactless payment terminals (on iPhone only) and [in apps and on the web](#).
- *With the virtual card number:* Go to Settings  > Wallet & Apple Pay, tap Apple Card, then tap Card Information to see the card number, expiration date, and security code.
- *With the titanium card:* In stores, restaurants, and other locations where Apple Pay isn't yet accepted, use the physical card.

View transactions, make payments, and manage your Apple Card

1. Go to Settings  > Wallet & Apple Pay.
2. Tap Apple Card.
3. Do any of the following:
 - *Review your spending:* Tap Transactions. See the Apple Support article [See your Apple Card spending history](#).
 - *Make a one-time payment or schedule automatic payments:* Tap Make a Payment or Autopay. See the Apple Support article [How to make Apple Card payments](#).
 - *See the virtual card number:* Tap Card Information to see the card number, expiration date, and security code.
 - *Manage your account:* See account details, contact support, and more.

Tip: [Add the Apple Card widget](#) to your Home Screen to see your balance, available credit, and spending activity at a glance.

1. Daily Cash may not be divided between Apple Cash and a Savings account. Apple Card owners and co-owners may individually change where their Daily Cash is deposited at any time. To open Savings, you must add Apple Card to Wallet on an iPhone or iPad with the latest version of iOS or iPadOS. Apple is not a financial institution. Apple Card and Savings are issued and provided by Goldman Sachs Bank USA, Salt Lake City Branch. Member FDIC.

2. Apple Cash is provided by Green Dot Bank. Member FDIC.

Remove payment cards from Apple Wallet on iPad

You can remove cards and passes that you don't use anymore from Apple Wallet. You can also remove debit and credit cards from Apple Pay if your iPad is lost or stolen.

Remove a debit or credit card from your iPad

1. Go to Settings  > Wallet & Apple Pay.
2. Tap the card or pass you want to remove, then tap Remove Card.

If you remove a card, you can add it 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 iPad. You can add the cards again the next time you sign in to your Apple Account.

Remove your cards from Apple Pay if your iPad is lost or stolen

If you enabled [Find My](#), you can use it to help locate and secure your iPad.

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

- *On another iPhone or iPad:* Go to Settings  > [your name], select the lost iPad, then tap Remove Items (below Wallet & Apple Pay).
- *Using a web browser:* Sign in to your [Apple Account](#). Click Devices, then select the lost device. In the Wallet & Apple Pay section, click Remove Items.
- Call the issuers of your cards.

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

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

Change your Wallet & Apple Pay settings on iPad

In Settings, you can customize your preferences for Wallet & Apple Pay.

Customize your Apple Pay settings

1. Go to Settings  > Wallet & Apple Pay.
2. Adjust any of the following:
 - *Notifications:* Change [notification settings](#).
 - *Apple Cash:* Turn on or off [Apple Cash](#).
 - *Transaction Defaults:* Enter your default information for [Apple Pay in apps and on the web](#).
 - *Pay Later:* Shows available payment options from your cards in Wallet when you check out with Apple Pay.
 - *Rewards:* Shows rewards from your cards in Wallet when you check out with Apple Pay.
 - *Compatible Cards:* Checks your [saved cards in Safari AutoFill](#) for compatibility with Apple Pay and allows you to use them in Wallet.
 - *Add Orders to Wallet:* Orders from participating merchants are automatically added to Wallet for order tracking on iPhone. See [Track your orders in Wallet on iPhone](#) in the iPhone User Guide.
 - *Other Pay Later Options:* See additional pay later services when you check out with Apple Pay.

Change your default shipping and contact information

1. Go to Settings  > Wallet & Apple Pay.
2. Below Transaction Defaults, set your shipping address, email, and phone number.

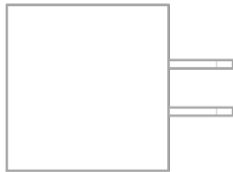
Accessories

Power adapter and charge cable for iPad

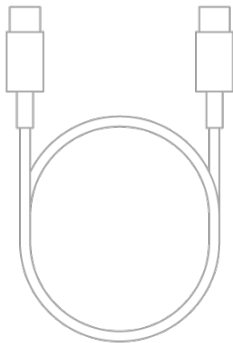
You can connect iPad to a power outlet and [charge the battery](#) by using the included USB-C power adapter and charge cable. The size and type of the adapter depends on your iPad model and your country or region. The type of charge cable depends on your iPad model.

You can also use the charge cable to [connect iPad to your computer](#) for charging, transferring files, using iPad as a second display for your Mac, and more.

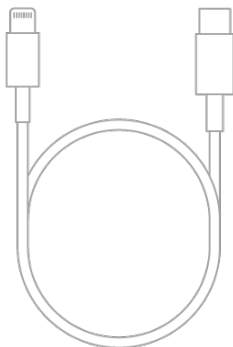
USB-C Power Adapter



USB-C Charge Cable



Lightning to USB-C Cable



AirPods and EarPods

Use AirPods with iPad

After you pair AirPods (sold separately) with iPad, you can use AirPods to listen to audio playing on iPad, make and answer FaceTime calls, listen and respond to messages, hear reminders when you need them, listen to conversations more easily in noisy environments, and more.

Pair AirPods with your iPad

1. On iPad, go to Settings  > Bluetooth, then turn on Bluetooth.
2. Go to the Home Screen on your iPad.
3. Do one of the following:
 - *AirPods (1, 2, and 3) and AirPods Pro:* Open the case with your AirPods inside, then hold it next to your iPad.
 - *AirPods Max:* Take your AirPods Max out of the Smart Case, then hold AirPods Max next to your iPad.
4. Follow the onscreen instructions, then tap Done.

Note: If onscreen instructions for pairing your AirPods Max don't appear, go to Settings > Bluetooth, then select your AirPods Max. If the status light doesn't flash white on AirPods Max, press and hold the noise control button until it does.

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

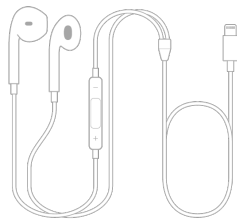
Note: If you can't pair your AirPods, see the Apple Support article [If your AirPods won't connect](#).

Do more with AirPods and your iPad

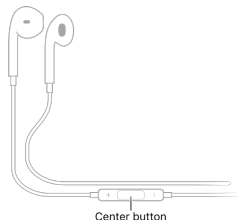
See the [AirPods User Guide](#) for detailed instructions on how to get the most out of your AirPods.

Use EarPods with Lightning Connector on iPad

You can use EarPods with Lightning Connector (sold separately) to listen to music and videos, and make calls on an [iPad model with a Lightning port](#). EarPods 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 iPad is locked.



Control audio with your EarPods

- *Pause:* Press the center button. Press again to resume playback.
- *Skip forward:* Press the center button twice quickly.
- *Skip backward:* Press the center button three times quickly.

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

Manage calls using your EarPods

- *Answer an incoming call:* Press the center button.
- *End the current call:* Press the center button.
- *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.

Ask Siri with your EarPods

Press and hold the center button until you hear a beep. Let go, then ask Siri to perform a task or answer your question. See [Use Siri](#).

Use headphone audio-level features on iPad

You can set a maximum decibel level to ensure that headphone audio doesn't become uncomfortable for you. iPad analyzes your headphone audio and reduces any sound above this level.

You can also check whether the current audio level is OK or loud by viewing a headphone level meter.

Reduce loud headphone sounds in Settings

1. Go to Settings  > Sounds & Haptics > Headphone Safety > Reduce Loud Audio.
2. Turn on Reduce Loud Sounds, then drag the slider.

Note: If you [set up Screen Time](#) for a family member, you can prevent them from changing the Reduce Loud Sounds level. Go to Settings > Screen Time > Content & Privacy Restrictions > Reduce Loud Sounds, then select Don't Allow.

Check your headphone level while you listen

While using headphones with iPad, you can use Hearing in Control Center to check their current decibel level. AirPods, EarPods, and many other wired and wireless headphones are compatible with Hearing in Control Center.

1. [Open Control Center](#), then touch and hold in the Control Center area.
2. Tap Add a Control, then tap .

The audio level (in decibels) of your headphones is displayed on the Headphone Level meter.

Note: You can also scroll below the Headphone Level meter to turn Live Listen on or off. See [Use Live Listen](#). Typically, headphone level monitoring and Live Listen aren't used at the same time. The Headphone Level monitor is intended for listening to audio playback. Live Listen is intended for listening to external sounds with the iPad microphone.

Improve the accuracy of audio measurements for third-party Bluetooth headphones

Classify your Bluetooth® devices as headphones, speakers, or other devices.

1. Go to Settings  > Bluetooth, then tap the information button  next to the name of the device.

2. Tap Device Type, then choose a classification.

When you connect AirPods, EarPods, and other compatible headphones to your iPad, the headphone audio levels are automatically sent to iPad. Headphone audio measurements are most accurate when using Apple or Beats headphones. Audio played through other headphones can be estimated based on the volume of your iPad.

Apple Pencil

Apple Pencil compatibility with iPad models

Find out which Apple Pencil (sold separately) works with your iPad.

Apple Pencil (1st generation)



Apple Pencil (1st generation) is compatible with the following models:

- iPad mini (5th generation)
- iPad (6th, 7th, 8th, 9th, and 10th generations)
- iPad XXX
- iPad Air (3rd generation)
- iPad Pro 9.7-inch
- iPad Pro 10.5-inch
- iPad Pro 12.9-inch (1st and 2nd generation)

See [Pair and charge Apple Pencil \(1st generation\)](#).

Apple Pencil (2nd generation)

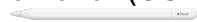


Apple Pencil (2nd generation) is compatible with the following models:

- iPad mini (6th generation)
- iPad Air (4th and 5th generations)
- iPad Pro 11-inch (1st, 2nd, 3rd, and 4th generations)
- iPad Pro 12.9-inch (3rd, 4th, 5th, and 6th generations)

See [Pair and charge Apple Pencil \(2nd generation\)](#).

Apple Pencil (USB-C)



Apple Pencil (USB-C) is compatible with the following models:

- iPad mini (6th generation)
- iPad mini (A17 Pro)
- iPad (10th generation)
- iPad XXX
- iPad Air (4th and 5th generations)
- iPad Air 11-inch (M2)

- iPad Air 13-inch (M2)
- iPad YYY
- iPad ZZZ
- iPad Pro 11-inch (1st, 2nd, 3rd, and 4th generations)
- iPad Pro 12.9-inch (3rd, 4th, 5th, and 6th generations)
- iPad Pro 11-inch (M4)
- iPad Pro 13-inch (M4)

See [Pair and charge Apple Pencil \(USB-C\)](#).

Apple Pencil Pro



Apple Pencil Pro is compatible with the following models:

- iPad mini (A17 Pro)
- iPad Air 11-inch (M2)
- iPad Air 13-inch (M2)
- iPad YYY
- iPad ZZZ
- iPad Pro 11-inch (M4)
- iPad Pro 13-inch (M4)

See [Pair and charge Apple Pencil Pro with iPad](#).

Pair and charge Apple Pencil (1st generation) with iPad

You can pair and charge Apple Pencil (1st generation) by plugging it into the Lightning or USB-C connector on your [compatible iPad](#).



Pair and charge Apple Pencil (1st generation) on an iPad with a Home button

1. Remove the cap and plug Apple Pencil into the Lightning connector on your iPad.



2. Do any of the following:

- *Pair Apple Pencil:* When the Pair button appears, tap it.

After you pair Apple Pencil, unplug it from iPad. Apple Pencil stays paired until you restart your iPad, turn off Bluetooth®, or pair with another iPad. Just pair Apple Pencil again when you're ready to use it.

- *Charge Apple Pencil:* Apple Pencil charges while it's plugged into your iPad.

If your pencil came with an Apple Pencil Charging Adapter, you can also charge it using the Lightning Cable and power adapter that came with your iPad.

Pair and charge Apple Pencil with iPad (10th generation) and iPad XXX

1. Remove the cap and plug Apple Pencil into the USB-C to Apple Pencil Adapter.
2. Connect the other end of the adapter to your iPad using the USB-C charge cable that came with your iPad.



3. Do any of the following:
 - *Pair Apple Pencil:* When the Pair button appears, tap it.

After you pair Apple Pencil, unplug it from iPad. Apple Pencil stays paired until you restart your iPad, turn off Bluetooth, or pair with another iPad. Just pair Apple Pencil again when you're ready to use it.
 - *Charge Apple Pencil:* Apple Pencil charges while it's plugged into your iPad.

Tip: You can also charge Apple Pencil using the USB-C charge cable and power adapter that came with your iPad.

Check the battery level of Apple Pencil

- Check the Batteries widget. See [Add, edit, and remove widgets](#).
- Go to Settings  > Apple Pencil.

Pair and charge Apple Pencil (2nd generation) with iPad

You can attach Apple Pencil (2nd generation) to the magnetic connector on the right side of your [compatible iPad](#) to pair and charge it.



Pair Apple Pencil (2nd generation) with iPad

Attach Apple Pencil to the magnetic connector on the right side of your iPad.

Charge Apple Pencil (2nd generation)

1. Make sure that Bluetooth® is turned on in Settings  > Bluetooth.
2. Attach Apple Pencil to the magnetic connector on the right side of your iPad.

Check the battery level of Apple Pencil

Do any of the following:

- Check the Batteries widget. See [Add, edit, and remove widgets](#).
- Go to Settings  > Apple Pencil.

Pair and charge Apple Pencil (USB-C) with iPad

You can pair and charge Apple Pencil by plugging it into the USB-C connector on your [compatible iPad](#).



Pair and charge Apple Pencil (USB-C)

1. Slide open the end of Apple Pencil and connect it to the USB-C charge cable that came with your iPad.



2. Connect the other end of the USB-C charge cable to the USB-C connector on iPad.
3. Do any of the following:

- *Pair Apple Pencil:* Tap "Tap to Connect."

After you pair Apple Pencil, you can disconnect it from the USB-C charge cable. Apple Pencil stays paired until you restart your iPad, turn off Bluetooth®, or pair with another iPad. Just pair Apple Pencil again you're ready to use it.

- *Charge Apple Pencil:* Apple Pencil charges while it's plugged into your iPad.

Tip: You can also charge Apple Pencil using the USB-C charge cable and power adapter that came with your iPad.

Check the battery level of Apple Pencil

Do any of the following:

- Check the Batteries widget. See [Add, edit, and remove widgets](#).
- Go to Settings ⓘ > Apple Pencil.

Pair and charge Apple Pencil Pro with iPad

Attach Apple Pencil Pro to the magnetic connector on the long side of your [compatible iPad](#) to pair and charge it.

Pair Apple Pencil Pro with iPad

Attach Apple Pencil Pro to the magnetic connector on the long side of your iPad.

Charge Apple Pencil Pro

1. Make sure that Bluetooth® is turned on in Settings ⓘ > Bluetooth.
2. Attach Apple Pencil Pro to the magnetic connector on the long side of your iPad.

Check the battery level of Apple Pencil

- Check the Batteries widget. See [Add, edit, and remove widgets](#).
- Go to Settings ⓘ > Apple Pencil.

Enter text with Scribble on iPad

On [supported models](#), you can use Apple Pencil (sold separately) and Scribble to enter text. Without opening or using the onscreen keyboard, you can quickly reply to a message, write yourself a reminder, and more. Scribble converts your handwriting to text directly on your iPad, so your writing stays private.

Note: Scribble is available in several languages. See the [iOS and iPadOS Feature Availability website](#).

Use Apple Pencil to enter text in any text field

1. Write with Apple Pencil in any text field, and Scribble automatically converts your handwriting into typed text.

Scribble even works when your handwriting extends beyond the edges of the text field.

2. To use an action shortcut, tap the Scribble toolbar.

Available actions depend on the app you're using, and may include the Undo button ↶, the Show Keyboard button ⌨, and more.

To automatically minimize the toolbar when you're entering text, tap ⌵, then turn on Auto-minimize. To show the full toolbar, tap the minimized version.

Use Apple Pencil to enter text in Notes and Freeform

1. In Notes or Freeform, tap ⌵ to show the tool palette.
2. In the tool palette, tap the Handwriting tool ✎ (to the left of the pen).
3. Write with Apple Pencil, and Scribble automatically converts your handwriting into typed text.

Select and revise text with Apple Pencil

As you enter text using Apple Pencil and Scribble, you can do the following:

- *Delete a word:* Scratch it out.
- *Insert text:* Touch and hold in a text area, then write in the space that opens.
- *Join or separate characters:* Draw a vertical line between them.
- *Select text:* Draw a circle around the text or underline it to select it and see editing options. To change the selection, drag from the beginning or end of the selected text.
- *Select a word:* Double-tap the word.
- *Select a paragraph:* Triple-tap a word within the paragraph, or drag Apple Pencil over the paragraph.

Stop converting your handwriting to text

Go to Settings > Apple Pencil, then turn off Scribble.

Draw with Apple Pencil on iPad

On [supported models](#), you can use Apple Pencil (sold separately) to draw or sketch, mark up a photo, sign a document, and more.

Compared to using your finger, Apple Pencil gives you extra control as you draw.

Apply shading and darker lines

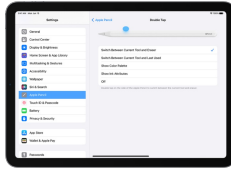
While you draw or sketch, tilt your Apple Pencil to apply shading or to vary the line thickness (depending on the drawing tool).

With Apple Pencil (1st and 2nd generations) and Apple Pencil Pro, you can also press more firmly to darken the line.

Double-tap to switch tools

With Apple Pencil (2nd generation) and Apple Pencil Pro, you can double-tap the barrel of the pencil to quickly switch back to the tool you used last. For example, you can switch from the marker back to the eraser. (The double-tap option is available in supported apps, such as Notes.)

To choose another action for the double-tap setting, go to Settings  > Apple Pencil > Double Tap.



Squeeze Apple Pencil Pro to perform an action

With Apple Pencil Pro, you can squeeze the barrel of the pencil to quickly perform an action such as undo or show the tool palette.

To choose an action for the squeeze setting, go to Settings  > Apple Pencil > Squeeze.



Use barrel roll on Apple Pencil Pro

With Apple Pencil Pro, you can rotate the barrel and preview the angle of drawing tools such as the highlighter and fountain pen.

Barrel roll works with the fountain pen and highlighter tools in Apple apps like Freeform, Notes, and [when you are using Markup](#). It may also work with tools in select third-party apps; contact the app developer for more information.

Turn haptic feedback for Apple Pencil Pro off or on

When you squeeze or double-tap Apple Pencil Pro, you feel a light pulse, which is haptic feedback.

1. [Pair Apple Pencil Pro](#) with your [compatible iPad](#).
2. Go to Settings  > Apple Pencil, then turn Haptics on or off.

Hover to preview tools and controls

With Apple Pencil hover, you can quickly preview and switch between different tools and controls in supported apps. You can preview a drawing tool before it makes a mark on the canvas. You can also sketch, write, and make adjustments with greater precision.

Apple Pencil hover is available on the following models:

- iPad Pro 11-inch (4th generation) and iPad Pro 12.9-inch (6th generation) with Apple Pencil (2nd generation)
- iPad Air 11-inch (M2), iPad Air 13-inch (M2), iPad YYY, iPad ZZZ, iPad Pro 11-inch (M4), and iPad Pro 13-inch (M4) with Apple Pencil Pro

Hold Apple Pencil up to 12 mm above the iPad display. Here are some examples of what you can do:

- *Explore the tool palette:* Hold Apple Pencil over the [tool palette](#), then move over the tools such as the pencil, brush, eraser, and colors. Touch the tool, color, and options you want to use.
- *Preview before you make a mark:* Hold Apple Pencil over the drawing area. With some drawing tools, you can even tilt Apple Pencil and change the azimuth (lateral angle) for different effects. For example, in the Notes app , you can preview the color, line thickness, and opacity of the highlighter.

With Apple Pencil Pro, you can rotate the barrel and preview the angle of drawing tools such as the highlighter and fountain pen.

- *Erase with precision:* Select the eraser tool, then select options such as the pixel eraser size or the object eraser. Hold Apple Pencil over the drawing area to preview the effects of the eraser.

To turn off Apple Pencil hover, go to Settings  > Apple Pencil, then turn off Hover.

Take and mark up a screenshot with Apple Pencil on iPad

You can use Apple Pencil to quickly take a picture of the iPad screen, then mark it up to share with others or use in documents.

1. To capture the screen, swipe up with Apple Pencil from either corner at the bottom of your iPad.
2. To mark up the screenshot, draw with Apple Pencil.

Use the tool palette at the bottom of the screen to change drawing tools. See [Write and draw in documents](#).

3. To send the marked up screenshot to others (such as in a message), or to save it in a document (such as in a note), tap , then choose an option.
4. When you're finished, tap Done, then choose an option.

Quickly write notes with Apple Pencil on iPad

You can use Apple Pencil to quickly write a note from anywhere on iPad, even while iPad is locked ([supported models](#)).

Create a Quick Note

See [Use Quick Notes](#).

Wake iPad by drawing or writing a note

Tap Apple Pencil on the Lock Screen, then begin drawing or taking notes.

Whatever you create is [saved in Notes](#).

Apple TV, smart TVs, and video displays

Wirelessly stream videos and photos to Apple TV or a smart TV from iPad

You can use your Apple TV or an AirPlay 2-enabled smart TV to watch videos and view photos streamed from your iPad.

Note: To stream videos or photos to Apple TV or a smart TV from your iPad, both devices must be on the same [Wi-Fi network](#).

Play video on Apple TV or an AirPlay 2-enabled smart TV

1. While playing video in the Apple TV app  or another supported video app on your iPad, tap the screen to show the controls.
2. 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 iPad.

To change the playback destination, choose a different AirPlay option on your iPad screen.

Show photos on Apple TV or an AirPlay 2-enabled smart TV

1. In Photos  on your iPad, tap a photo, then tap .
2. Swipe up, tap , 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 iPad.

To stop streaming photos, tap  near the top of the iPad screen, then tap Turn off AirPlay.

Turn automatic AirPlay streaming on or off

You can allow your iPad to discover and automatically connect to any frequently used Apple TV or smart TV when playing content from apps that you regularly use with AirPlay.

Go to Settings  > General > AirPlay & Continuity, then choose Automatic, Never, or Ask.

Mirror your iPad on Apple TV or a smart TV

On Apple TV or a smart TV, you can show whatever appears on your iPad.

1. [Open Control Center](#) on your iPad.
2. Tap , 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 iPad.

To switch back to iPad, open Control Center, tap , then tap Stop Mirroring.

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

To learn more about using Apple TV, see the [Apple TV User Guide](#).

Connect iPad to a display with a cable

With the appropriate cable or adapter, you can connect your iPad to a secondary display, like a computer display, TV, or projector, where you can view the iPad screen.

To extend the workspace of your Mac by connecting it to your iPad, see [Use iPad as a second display for Mac](#).

Connect iPad to Studio Display or Pro Display XDR

Your Apple display automatically turns on when you plug it into power and connect it to your iPad ([supported models](#)) using the Thunderbolt cable included with the display. Your iPad charges while connected to the display.

For more information about Studio Display or Pro Display XDR, see the [Displays Support website](#).

Connect your iPad using the USB-C connector

On [models with a USB-C connector](#), you may be able to connect iPad to a USB or Thunderbolt 3 port on the display.

If the [charge cable](#) that came with your iPad isn't compatible with the port on your display, TV, or projector, do the following:

1. Plug a USB-C Display AV Adapter or USB-C VGA Multi-port Adapter into the charging port on iPad.
2. Connect an HDMI or VGA cable to the adapter.
3. Connect the other end of the HDMI or VGA cable to the display, TV, or projector.
4. If necessary, switch to the correct video source on the display, TV, or projector. If you need help, use the display's manual.

If the display doesn't turn on when you connect it to iPad, unplug it from iPad, then plug it back in. If that doesn't work, unplug the display from its power source, then plug it in again.

See the Apple Support article [Charge and connect with the USB-C port on iPad Pro](#).

Connect your iPad if it has a Lightning connector

On a [model with a Lightning connector](#), do the following:

1. Plug a Lightning Digital AV Adapter or Lightning to VGA Adapter into the charging port on iPad.
2. Connect an HDMI or VGA cable to the adapter.
3. Connect the other end of the HDMI or VGA cable to the display, TV, or projector.
4. If necessary, switch to the correct video source on the display, TV, or projector. If you need help, see the manual that came with your display.

To charge your iPad while it's connected to the display, TV, or projector, insert one end of your charge cable into the extra port on the adapter, insert the other end of the charge cable into the power adapter, then plug the power adapter to a power outlet.

Organize windows on your iPad and external display with Stage Manager

Stage Manager lets you connect [supported iPad Pro and iPad Air models](#) to an external display with up to 6K of resolution, giving you fast access to windows and apps.

To use [Stage Manager](#), place your iPad in landscape orientation, connect it to an external display, open Control Center, then tap .

The window of the app you're using is positioned prominently in the center, so you can focus on it without going full screen. Your other apps are arranged on the left side in order of recent use.

In Stage Manager, you can do any of the following:

- Resize your windows to make them the perfect size for your task.
- Move your windows around on the center canvas.
- Access your favorite apps from the Dock, along with the ones you used recently.
- Use App Library to quickly find the app you want.
- Drag and drop windows from the side or open apps from the Dock to create app sets you can tap to get back to.
- Move files and windows between your [supported iPad](#) and your external display.

For more information, see [Move, resize, and organize windows](#).

Play audio from iPad on HomePod and other wireless speakers

You can play audio from iPad on wireless devices like HomePod, Apple TV, AirPlay 2-enabled smart TVs, and Bluetooth® headphones and speakers.

Play audio from iPad on a wireless device

1. On your iPad, open an audio app, such as Podcasts  or Music , then choose an item to play.
2. Tap , then choose a playback destination.

Note: If your AirPlay 2-enabled devices don't appear in the list of playback destinations, make sure they're on the same Wi-Fi network. With a Bluetooth device, the playback destination returns to iPad if you move the device out of Bluetooth range.

To select the playback destination, you can also tap  on the Lock Screen or in Control Center.

Note: For information about setting up a Bluetooth audio device, see [Pair your iPad with a Bluetooth accessory](#).

Play audio on multiple AirPlay 2-enabled devices

With AirPlay 2 and iPad, 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.

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”

You can also choose playback destinations from the iPad screen.

1. Tap  in Control Center, on the Lock Screen, or on the Now Playing screen for the app you’re listening to.
2. Select each device you want to use.

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

To learn more about using HomePod speakers and Apple TV, see the [HomePod User Guide](#) and [Apple TV User Guide](#).

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

Keyboards

iPad keyboards

iPad keyboards (sold separately) allow you to type while viewing the entire iPad screen. They magnetically attach to iPad—without switches, plugs, or pairing—and provide a lightweight protective cover when closed.

Find the right keyboard for your iPad

Keyboard	Compatible with
Magic Keyboard for iPad Pro	iPad Pro 11-inch (M4)
	iPad Pro 13-inch (M4)
Magic Keyboard for iPad Air and iPad Pro	iPad Air 11-inch (M2)
	iPad Air 13-inch (M2)
	iPad YYY
	iPad ZZZ
	iPad Air (4th and 5th generation)
	iPad Pro 11-inch (1st, 2nd, 3rd, and 4th generation)
	iPad Pro 12.9-inch (3rd, 4th, 5th, and 6th generation)
Magic Keyboard Folio	iPad (10th generation)
	iPad XXX
Smart Keyboard Folio	iPad Air (4th and 5th generation)
	iPad Pro 11-inch (1st, 2nd, 3rd, and 4th generation)
	iPad Pro 12.9-inch (3rd, 4th, 5th, and 6th generation)

Keyboard	Compatible with
Smart Keyboard	iPad (7th, 8th, and 9th generation)
	iPad Air (3rd generation)
	iPad Pro 10.5-inch

Switch between keyboards with iPad

With an Apple external keyboard, you can switch between the language keyboard for your region, an emoji keyboard, other language keyboards that you add, and the onscreen keyboard.

Switch between language keyboards and the onscreen emoji keyboard

1. On the external keyboard, press and hold the Control key.
2. Press the Space bar to cycle between the language keyboard for your region, the emoji keyboard, and [other language keyboards that you add](#).

When you select the emoji keyboard, you can do the following:

- *Search for an emoji:* Enter a commonly used word or phrase—such as “heart” or “smiley face”—in the search field above the emoji keyboard.
- *Enter an emoji:* Tap it; or use the arrow keys on the external keyboard to select it, then press Return.

Tip: To quickly switch to the emoji keyboard, press -E on the Magic Keyboard for iPad or Smart Keyboard.

With Magic Keyboard for iPad and Smart Keyboard, you can also press  to choose between keyboards. If you want to use  to show only the emoji keyboard instead of switching languages, go to Settings  > General > Keyboard > Hardware Keyboard, then turn on Press  for Emoji.

Tip: If you added a Chinese, Korean, Japanese, or Hebrew keyboard, you can press the Caps Lock key to switch back and forth between Latin script and the other keyboard you’re using. To prevent use of the Caps Lock key for switching languages, go to Settings > General > Keyboard > Hardware Keyboard, then turn off Switch Languages using Caps Lock.

Switch to the onscreen keyboard

1. Do one of the following:
 - Tap  in the Shortcuts bar (at the bottom of the screen).
 - If you installed additional language keyboards, tap the language button next to the predictive text suggestions (opposite of the Dictation button  in the Shortcuts bar).
2. Tap Show Keyboard.

To hide the onscreen keyboard, tap .

Note: With Magic Keyboard for iPad and Smart Keyboard, you can use  to show only the emoji keyboard instead of switching languages. Go to Settings  > General > Keyboard > Hardware Keyboard, then turn on Press  for Emoji. To switch between other language keyboards, press and hold the Control key, then press the Space bar.

Enter characters with diacritical marks while using an Apple external keyboard with iPad

If the Apple external keyboard you use with iPad doesn't include accents and other diacritical marks for the language you're typing, you can use an Option key modifier or the onscreen keyboard to enter those marks.

Use the Option key to enter a diacritical mark for a character

To enter a character with a diacritical mark, you can press the Option key to select a mark.

1. Do one of the following:

- [Add a keyboard for a language](#) that supports diacritical marks, then in an app, [switch to that language keyboard](#).

For example, add the Spanish (Mexico) keyboard, then in an app, use  on Magic Keyboard for iPad to select Español (México).

- Go to Settings  > General > Keyboard > Hardware Keyboard, then [choose an alternative keyboard layout](#) that supports diacritical marks.

For example, if you have the English (US) language keyboard, tap English (US), then choose U.S. International — PC or ABC — Extended.

2. In an app, press and hold the Option key, then press a key that enters a diacritical mark.

For example, the Spanish (Mexico) keyboard and the U.S. International — PC alternative layout support these diacritical marks:

- *Acute accent* (for example, é): Option-E.
- *Grave accent* (for example, è): Option-`.
- *Tilde* (for example, ñ): Option-N.
- *Diaeresis or umlaut* (for example, ü): Option-U.
- *Circumflex* (for example, ê): Option-I.

3. Press the letter.

For example, to enter ñ using the Spanish (Mexico) keyboard or the U.S. International — PC alternative layout, press Option-N, then type an *n*.

Note: The ABC - Extended alternative layout also allows you to enter tone marks for typing Mandarin Chinese in Pinyin orthography. For example, to type ŭ in lǔxíng ("travel"), press Option-V, then type a *v*. In addition, the ABC - Extended layout allows you to type diacritical marks and letters from several different European languages, such as Czech, French, German, Hungarian, and Polish.

Use the onscreen keyboard to enter a diacritical mark

1. [Switch](#) to the onscreen keyboard.
2. On the onscreen keyboard, touch and hold the letter, number, or symbol on the keyboard that's related to the character you want.

For example, to enter é, touch and hold the *e* key.

3. Slide your finger to choose a variant.
4. To hide the onscreen keyboard when you're finished, tap .

Dictate text while using an Apple external keyboard with iPad

You can dictate text instead of typing it on an Apple external keyboard.

Note: Dictation may not be available in all languages or in all countries or regions, and features may vary. Cellular data charges may apply (Wi-Fi + Cellular models).

1. Go to Settings  > General > Keyboard, then turn on Enable Dictation.
2. Tap the Dictation button  in the Shortcuts bar (at the bottom of the screen), then speak.

As you speak to insert text, iPad automatically inserts punctuation for you. You can insert emoji by saying their names (for example, "mind blown emoji" or "happy emoji").

3. When you finish, tap  at the bottom of the screen.

Tip: To quickly switch to dictation, press -D on the Magic Keyboard for iPad or Smart Keyboard.

Use shortcuts on an Apple external keyboard with iPad

You can use the Shortcuts bar (at the bottom of the screen) and combination keystrokes known as *keyboard shortcuts* to quickly perform many common actions.

Use the Shortcuts bar to accept suggested words and spellings

While typing, you can do the following:

- Accept a suggested word by tapping it in the Shortcuts bar.
- Accept a suggestion highlighted in the Shortcuts bar by entering a space or punctuation. (If you enter a comma, period, or other punctuation after entering a space to accept a suggestion, the space is deleted.)
- Reject the suggestions by tapping your original word (shown with quotation marks in the Shortcuts bar).

To turn off the suggestions, go to Settings  > General > Keyboard, then turn off Predictive Text.

Use the Shortcuts bar to switch between language, emoji, and onscreen keyboards

You can use the Shortcuts bar to switch between the language keyboard for your region, an emoji keyboard, [other language keyboards that you add](#), and the onscreen keyboard.

1. Do one of the following:
 - Tap  in the Shortcuts bar.
 - If you installed additional language keyboards, tap the language button next to the predictive text suggestions (opposite of the Dictation button  in the Shortcuts bar).
2. Choose an option.

Use the Shortcuts bar for other shortcuts

- *Use app-specific shortcuts:* Buttons on the outer edges of the Shortcuts bar vary depending on the app you're using or the task you're doing. Each app is different—try out the Shortcuts bar to see what you can do.
- *Change keyboard settings:* Tap  (or the language button that replaced it), then tap Keyboard Settings.
- *Minimize the Shortcuts bar:* Tap  (or the language button that replaced it), then tap Minimize. To see the full Shortcuts bar, tap the minimized version.
- *Dictate text:* Tap the Dictation button , then speak. When you're finished, tap  at the bottom of the screen.

Use keyboard shortcuts

You can use keyboard shortcuts on an Apple external keyboard to perform the following actions on iPad:

- *Quickly switch between apps:* Press and hold the Command key, then press Tab until you reach the app you want to open.
- *Open Search:* Press Command-Space.
- *Navigate between lists, text fields, and more:* Press Tab to navigate between areas of an app. For example, in Notes, with the Folders list showing, press Tab to switch between the Folders list, the Notes list, and the search field.
- *View multitasking and other systemwide shortcuts:* (Magic Keyboard for iPad and Smart Keyboard) Press and hold , then tap categories below the list.
- *View shortcuts for the app you're using:* Press and hold the Command key, then tap categories below the list.

You can change the actions that are performed by the Command key (and other modifier keys like Caps Lock). Go to Settings  > General > Keyboard > Hardware Keyboard, tap Modifier Keys, tap a key, then choose the action you want it to perform.

To use additional keyboard shortcuts, go to Settings > Accessibility > Keyboards > Full Keyboard Access, then turn on Full Keyboard Access. See [Control iPad using Full Keyboard Access](#).

Note: You can also set up text replacements that enter words or phrases after you type just a few characters. For example, type "omw" to enter "On my way!" See [Use text replacements](#).

You can also accept suggested words before you finish typing them. See [Save keystrokes with text replacements](#).

Choose an alternative layout for an Apple external keyboard with iPad

With an alternative keyboard layout, you can enter letters and marks that are different from the ones on your Apple external keyboard. For example, with the ABC - Extended keyboard layout, you can type letters and [enter diacritical marks](#) for several different European languages and tone marks for Mandarin Chinese in Pinyin.

1. Go to Settings  > General > Keyboard > Hardware Keyboard.

2. Tap a language at the top of the screen, then choose an alternative layout from the list.

Change typing assistance options for an Apple external keyboard with iPad

You can change options for auto-correction, smart punctuation, and more.

Change typing assistance options for an external keyboard

Go to Settings  > General > Keyboard > Hardware Keyboard, then do any of the following:

- *Turn Auto-Capitalization on or off:* When this option is selected, an app supporting this feature capitalizes proper nouns and the first words in sentences as you type.
- *Turn Auto-Correction on or off:* When this option is selected, an app supporting this feature corrects the spelling as you type.
- *Turn "." Shortcut on or off:* When this option is selected, double-tapping the space bar inserts a period followed by a space.

Change typing assistance options for all keyboards

You can turn on or off special typing features—such as predictive text and smart punctuation—that assist you when you type. These settings apply to your onscreen keyboard and external keyboard.

1. Go to Settings > General, then tap Keyboard.
2. In the list below All Keyboards, turn typing features on or off.

For several options, including auto-correction and auto-capitalization, you can specify different settings for your external keyboard in Settings  > General > Keyboard > Hardware Keyboard.

Trackpads

Connect Magic Trackpad to iPad

You can connect Magic Trackpad, including Magic Trackpad 2, to your iPad (Magic Trackpad sold separately).

Pair Magic Trackpad

1. Make sure Magic Trackpad is turned on and charged.
2. On iPad, go to Settings  > Bluetooth, then turn on Bluetooth.
3. Select the device when it appears in the Other Devices list.

Note: If Magic Trackpad is already paired with your Mac or another iPad, you must unpair them before you can connect Magic Trackpad to your iPad. Do one of the following:

- *On iPhone or iPad:* See [Unpair a Bluetooth accessory](#).
- *On macOS 13 or later:* Choose Apple menu  > System Settings, click Bluetooth in the sidebar, Control-click the device, then choose Forget.

- *On macOS 12.5 or earlier:* Choose Apple menu > System Preferences, click Bluetooth, Control-click the device, then click Remove.

Reconnect Magic Trackpad to iPad

Magic Trackpad disconnects when you turn its switch to Off, or when you move it or iPad out of Bluetooth® range—about 33 feet (10 meters).

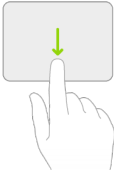
To reconnect, turn the trackpad switch to On, or bring the trackpad and iPad back into range, then click the trackpad.

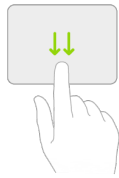
Trackpad gestures for iPad

You can use Magic Trackpad or the trackpad built into the Magic Keyboard for iPad and the Magic Keyboard Folio, to open apps, go to the Home Screen, open Slide Over, and more (all trackpads sold separately).

When your iPad is near your Mac (macOS 12.3 or later required on [supported models](#)), you can also [share a trackpad](#) between both devices. Many of the trackpad gestures in the following tables are supported by Mac trackpads.

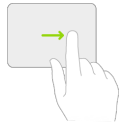
Trackpad gestures for Magic Trackpad, Magic Trackpad 2, Magic Keyboard for iPad, and Magic Keyboard Folio

Gesture	Description
	Click. Press with one finger until you feel a click.
	Click and hold. Press and hold with one finger.
	Drag. Click and hold an item, then slide your finger across the trackpad to move it.
	Wake iPad. Click the trackpad. Or, if you're using an external keyboard, press any key.
	Open the Dock. Use one finger to swipe the pointer past the bottom of the screen.



Go Home. Use one finger to swipe the pointer past the bottom of the screen. After the Dock appears, swipe the pointer past the bottom of the screen again.

Alternatively, click the bar at the bottom of the screen (on an iPad with Face ID).



View Slide Over. Use one finger to swipe the pointer past the right edge of the screen. To hide Slide Over, swipe right again.



Open Control Center. Use one finger to move the pointer to select the status icons at the top right, then click.

Or, select the status icons at the top right, then swipe up with one finger.



Open Notification Center. Use one finger to move the pointer to select the status icons at the top left, then click.

Or, use one finger to move the pointer past the top of the screen near the middle.

Additional gestures for Magic Trackpad 2, Magic Keyboard for iPad, and Magic Keyboard Folio

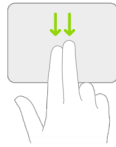
Gesture	Description
	Scroll up or down. Swipe two fingers up or down.
	Scroll left or right. Swipe two fingers left or right.
	Zoom. Place two fingers near each other. Pinch open to zoom in, or pinch closed to zoom out.
	Go Home. Swipe up with three fingers.
	Open the App Switcher. Swipe up with three fingers, pausing before you lift your fingers. Or, pinch four fingers together, pausing before you lift your fingers.



Switch between open apps. Swipe left or right with three fingers.



Open Today View. When the Home Screen or the Lock Screen is visible, use two fingers to swipe right.



Open search from the Home Screen. Swipe down with two fingers.



Secondary click. Click with two fingers to show the quick actions menu for items like icons on the Home Screen, messages in a mailbox, and the Camera button in Control Center.

Or, if you're using an external keyboard, you can press the Control key while you click the trackpad.

Change trackpad settings on iPad

You can change how you use a trackpad to interact with items on the iPad screen.

1. Go to Settings  > General, then choose one of the following, depending on your accessories:
 - Trackpad
 - Trackpad & Mouse
2. Do any of the following:
 - *Change the tracking speed:* Drag the slider to set the tracking speed of the pointer when you move it across the screen.
 - *Turn Natural Scrolling on or off:* With this option selected, the contents on the screen move in the same direction as your finger.
 - *Turn Tap to Click on or off:* If you select this option, lightly tapping the trackpad with one finger has the same effect as pressing the trackpad until it clicks.
 - *Turn Two-Finger Secondary Click on or off:* With this option selected, you click with two fingers to [show the quick actions menu](#) for items like icons on the Home Screen, messages in a mailbox, or the Camera button in Control Center.

Note: You can also change the appearance of the pointer, such as its color, shape, and size. See [Adjust pointer settings](#).

Mouse devices

Connect a mouse to iPad

You can connect Magic Mouse, another Bluetooth® mouse, or a USB mouse to your iPad.

Note: Mouse devices are sold separately. Not all mouse devices are fully compatible with all models of iPad.

Pair Magic Mouse or other Bluetooth mouse

1. For Magic Mouse, make sure the mouse is turned on and charged.

For any other Bluetooth mouse, follow the instructions that came with the mouse to put it in discovery mode.

2. On iPad, go to Settings  > Bluetooth, then turn on Bluetooth.
3. Select the device when it appears in the Other Devices list.

If you're asked for a PIN when you pair Magic Mouse, type "0000" (four zeros), then tap Pair.

Note: If the mouse is already paired with your Mac or another iPad, you must unpair them before you can connect the mouse to your iPad. Do one of the following:

- *On iPhone or iPad:* See [Unpair a Bluetooth accessory](#).
- *On macOS 13 or later:* Choose Apple menu  > System Settings, click Bluetooth in the sidebar, Control-click the device, then choose Forget.
- *On macOS 12.5 or earlier:* Choose Apple menu > System Preferences, click Bluetooth, Control-click the device, then click Remove.

Reconnect a Bluetooth mouse to iPad

The mouse disconnects when you turn the switch on the mouse to Off or when you move the mouse or iPad out of Bluetooth range—about 33 feet (10 meters).

To reconnect, turn the mouse switch to On, or bring the mouse and iPad back into range, then click the mouse.

Connect a USB mouse

With the appropriate cable or adapters, you can connect various third-party mouse devices with iPad using USB and USB-based receivers. Refer to the device manufacturer's instructions.

Mouse actions and gestures for iPad

You can use a mouse to open apps, go to the Home Screen, open Slide Over, and more (mouse devices sold separately).

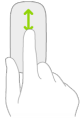
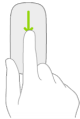
When your iPad is near your Mac (macOS 12.3 or later required on [supported models](#)), you can also [share a mouse](#) between both devices.

Note: Not all mouse devices are fully compatible with all models of iPad.

Mouse actions

Action	Description
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	Click. Press the mouse until you feel a click.
	Click and hold. Press and hold the mouse.
	Drag. Click and hold an item, then move the mouse.
	Wake iPad. Click the mouse. Or, if you're using an external keyboard, press any key.
	Open the Dock. Move the mouse to position the pointer at the bottom of the screen.
	Go Home. Move the mouse to position the pointer at the bottom of the screen. After the Dock appears, move the pointer past the bottom of the screen. Or, click the bar at the bottom of the screen (on an iPad with Face ID).
	Open the App Switcher. With the Home Screen visible, move the pointer past the bottom of the screen. Or from an app, drag the bar at the bottom of the screen toward the middle of the screen and pause (on an iPad with Face ID).
	View Slide Over. Use the mouse to move the pointer past the right edge of the screen. To hide Slide Over, move the pointer past the right edge again.
	Open Control Center. Use the mouse to move the pointer to select the status icons at the top right, then click. Or, move the pointer past the top-right corner of the screen.
	Open Notification Center. Use the mouse to move the pointer to select the status icons at the top left, then click. Or, use the mouse to move the pointer past the top of the screen (near the middle).

Gesture	Description
	Scroll up or down. Slide a finger up or down on the surface of the mouse.
	Scroll left or right. Slide a finger left or right on the surface of the mouse.
	Secondary click. Use a finger on one side of the mouse to show the quick actions menu when clicking items like icons on the Home Screen, messages in a mailbox, or the Camera button in Control Center. <i>Note:</i> To turn on Secondary click and choose which side of the mouse to use, go to Settings  > General > Trackpad & Mouse > Secondary Click. If you're using an external keyboard, you can press the Control key while you click the mouse. On a multi-button mouse, click the second button.
	Open Today View. When the Home Screen or the Lock Screen is visible, swipe right on the surface of the mouse.
	Open search from the Home Screen. Swipe down on the surface of the mouse.

Change mouse settings on iPad

You can change how you use a mouse to interact with items on the iPad screen.

- Go to Settings  > General, then select Trackpad & Mouse.
- Do any of the following:
 - Change the tracking speed:* Drag the slider to set the tracking speed of the pointer when you move it across the screen.
 - Turn Natural Scrolling on or off:* With this option selected, the contents on the screen move in the same direction as your finger.
 - Specify a finger to use for Secondary Click:* You can specify either the right or left finger to [show the quick actions menu](#) when you click items like icons on the Home Screen, messages in a mailbox, or the Camera button in Control Center. To turn off Secondary Click, choose Off (Magic Mouse 2).

Note: You can also change the appearance of the pointer, such as its color, shape, and size. See [Adjust pointer settings](#).

Connect external storage devices to iPad

You can use the Files app  and other supported apps to access files stored on external devices, such as USB drives and SD cards, connected to your iPad.

Connect a USB drive or an SD card reader

1. Attach the USB drive or SD card reader to the charging port on your iPad using a compatible connector or adapter.

Depending on your iPad model and external device, you may need the Lightning to USB Camera Adapter, Lightning to USB 3 Camera Adapter, USB-C to SD Card Camera Reader, or Lightning to SD Card Camera Reader (all sold separately).

On [models that support Thunderbolt / USB 4](#), you can connect multiple USB drives and other Thunderbolt devices to each other, and then connect the chain of devices to the charging port on your iPad.

Note: An external storage device must have only a single data partition, and it must be formatted as APFS, APFS (encrypted), macOS Extended (HFS+), exFAT (FAT64), FAT32, or FAT. To change the formatting of a storage device, use a Mac or PC.

2. Do any of the following:

- *Insert an SD memory card into a card reader:* Don't force the card into the slot on the reader; it fits only one way.

Note: You can import photos and videos from the memory card directly to the Photos app. See [Import and export photos and videos](#).

- *View the contents of the drive or memory card:* In a supported app (for example, Files), tap Browse at the bottom of the screen, then tap the name of the device below Locations. If you don't see Locations, tap Browse again at the bottom of the screen.
- *Disconnect the drive or card reader:* Remove it from the charging port on iPad.

External hard drives often require an external power source when used with iPad.

On [models that support Thunderbolt / USB 4](#), if an external hard drive doesn't supply its own power, you can use a powered USB hub. If your iPad has a Lightning connector, you can use the Lightning to USB 3 Camera Adapter connected to a USB power adapter.

Connect iPad to Bluetooth accessories

Connect your iPad to Bluetooth® accessories to stream music and videos, play games, connect to keyboards, and more.

Pair your iPad with a Bluetooth accessory

1. Put your Bluetooth accessory in discovery mode. If you aren't sure how to make it discoverable, check the instructions that came with your accessory.
2. On your iPad, go to Settings  > Bluetooth and make sure Bluetooth is turned on.

3. Tap the name of the accessory when it appears onscreen, below the devices list.

You might need to enter the accessory PIN or passcode. Check the instructions that came with your accessory.

Note: iPad must be within about 33 feet (10 meters) of the Bluetooth accessory to pair.

If you have trouble pairing your accessory, see the Apple Support article [If you can't connect a Bluetooth accessory to your iPhone or iPad](#).

Unpair a Bluetooth accessory

1. On your iPad, go to Settings  > Bluetooth.
2. Tap ⓘ next to the accessory you want to unpair, then tap Forget This Device.
3. Tap Forget Device to confirm.

If you don't see the devices list, make sure [Bluetooth is turned on](#).

Note: If you unpair AirPods, they're automatically unpaired from other devices where you're [signed in to your Apple Account](#).

Disconnect from all Bluetooth accessories

If you need to quickly disconnect from all Bluetooth accessories and devices without turning Bluetooth off, [open Control Center](#), then tap . Your Bluetooth accessories and devices disconnect from your iPad until the next day.

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

Play audio from your iPad on a Bluetooth accessory from your iPad

After you [connect your iPad to a Bluetooth accessory](#), you can play and control the audio from your iPad on the accessory.

Play audio from your iPad on a Bluetooth audio accessory

1. Open an audio app such as Music or Podcasts on your iPad and play an item.
2. Tap , then tap your Bluetooth accessory.

While audio is playing, you can change the playback destination on the Lock Screen or in Control Center.

The playback destination returns to your iPad if you move the Bluetooth accessory out of range.

Note: For information about protecting your hearing from loud volume while listening to headphones with iPad, see [Use headphone audio-level features](#).

Improve the audio accuracy of third-party Bluetooth accessories and devices

You can improve the sound of third-party Bluetooth accessories and devices by specifying the device type (such as headphone, speaker, or hearing aid) on your

iPad.

1. Go to Settings  > Bluetooth, then tap ⓘ next to the name of the accessory or device.
2. Tap Device Type, then choose the type of device.

Apple Watch with Fitness+ on iPad

Used in conjunction with Apple Watch, Apple Fitness+ is a subscription service that lets you choose from a catalog of workouts led by expert trainers. While you follow a workout on your iPad, in-session metrics like heart rate and calories burned (which are captured by your watch) appear on your screen. (watchOS 7.2 or later required; Apple Watch sold separately; Apple Fitness+ availability varies by country or region.)

See [Apple Fitness+ at a glance](#) in the Apple Fitness+ User Guide.

Print from iPad

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

iPad and the printer must be on the same Wi-Fi network. See the Apple Support article [About AirPrint](#).

Choose an AirPrint-enabled printer

After confirming that your printer supports AirPrint and that your iPad and printer are on the same Wi-Fi network, do the following:

1. Open the app you want to print from.
2. Tap , , , or  (depending on the app).
3. Tap Print, tap No Printer Selected, then choose an AirPrint-enabled printer.

Print a document

1. Open the app you want to print from.
2. Tap , , , or  (depending on the app).
3. Tap Print. (If you don't see Print, swipe up.)

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.

Apple Polishing Cloth

If your iPad Pro 11-inch (M4) or iPad Pro 13-inch (M4) has nano-texture glass (optional and only available on models with 1 TB and 2 TB of storage), use the included Apple Polishing Cloth to clean it.

Use iPad with iPhone, Mac, and Windows devices

Use Continuity to work across Apple devices

With Continuity, you can use your iPad together with your iPhone, Mac, and Apple Watch to work smarter and move seamlessly between your devices.

What is Continuity?

Continuity is the way that your Apple devices work together. There are many Continuity features that allow you to easily work across your Apple devices, without ever missing a beat. There's no specific Continuity app—it's built into the operating system and many apps you use every day. You just need to be [signed in to the same Apple Account](#) on your Apple devices. Many features also require that you have [Wi-Fi](#) and [Bluetooth®](#) turned on.

There are minimum system requirements for Continuity features; see the Apple Support article [System requirements for Continuity features on Apple devices](#).

Share content between devices

You can easily share content between your devices, whether it's copying text on an iPad and pasting it your Mac, sharing a file from your iPhone to your iPad, or handing off tasks between devices.

Quickly share photos, videos, contacts, and anything else, with anyone near you—wirelessly. AirDrop makes sharing to iPhone, iPad, and Mac as simple as dragging and dropping. See [Use AirDrop to send items to nearby devices](#).

Copy text, images, photos, and videos on one Apple device and then paste the content on another Apple device with Universal Clipboard. For example, you can copy a recipe from Safari on your iPad, then paste it into Notes on your nearby Mac. See [Cut, copy, and paste between iPad and other devices](#).

Start a document, an email, or a message on one device and pick up where you left off on another device. Handoff works with apps like Mail, Safari, Maps, Messages, Reminders, Calendar, Contacts, Pages, Numbers, and Keynote. See [Hand off tasks between devices](#).

Answer calls, send texts, and share your internet connection

Make it easy to stay connected when you set up your iPad to receive calls and text messages from your iPhone, or share its Personal Hotspot with other devices.

Relay calls from your iPhone to your iPad, as well as send and receive texts. You can also hand off a FaceTime call from one device to another, so if you start a call on your iPhone and want to continue it on a larger screen, it's easy to transfer the call to your iPad. See [Allow phone calls and text messages on your iPad](#).

If you have an iPad (Wi-Fi + Cellular), you can share internet using the Personal Hotspot on your iPad when you're within range of your Mac (and other devices)—no setup is required. Your iPad automatically appears in the Wi-Fi status menu—just select it to connect to the internet. See [Share your internet connection with Personal Hotspot](#).

Stream content to a larger screen

Want to see it on the big screen? Share, play, or present videos, music, photos, and more from your iPad to your Mac. You can also stream content from iPad to your Mac, an Apple TV, or an AirPlay 2-enabled TV. See [Stream video and audio from your iPad with AirPlay](#).

Use your iPad camera with your Mac

With the camera on your iPad, you can take a picture or scan a document and have it appear instantly on your Mac. (You can also use Markup tools on an image or draw a sketch on your iPad and have it appear on your Mac.) See [Insert sketches, photos, and scans on Mac](#).

You can also use your iPad camera when you make a FaceTime call on Apple TV. See [Use FaceTime on Apple TV 4K \(2nd generation or later\)](#).

Extend your workspace with iPad and Mac

When your Mac is near an iPad, Universal Control allows you to use a single keyboard and trackpad, or a connected mouse, to work across the devices. You can even drag content between them—for example, you can sketch a drawing with Apple Pencil on iPad, then drag it to your Mac to drop into a Keynote presentation. See [Use a keyboard and mouse or trackpad across your Mac and iPad](#).

With Sidecar, your iPad becomes a second display for your Mac. You can either extend your Mac desktop, or show the same app on both screens but control different aspects of it. See [Use iPad as a second display for Mac](#).

Use AirDrop on iPad to send items to nearby Apple devices

With AirDrop, you can wirelessly send photos, videos, documents, and more to a nearby iPhone, iPad, or Mac. You can use AirDrop to send files to your own devices or to share files with others.

You can use AirDrop with an iPhone, iPad, and Mac.

Transfers are encrypted for security, and the recipient can accept or decline each transfer as it arrives.

Note: If you leave Bluetooth or Wi-Fi range after an AirDrop transfer is initiated, the transfer continues over the internet.

Before you begin

Make sure of the following:

- Both devices have [Wi-Fi](#) and [Bluetooth®](#) turned on.
- The devices are within 30 feet (10 meters) of each other.

If you're using a VPN, make sure its configuration does not prevent local networking as that may interfere with some Continuity features.

If you want to use AirDrop to send items between your Apple devices, [sign in to the same Apple Account](#) in order to automatically accept and save the items.

Turn on AirDrop

- *On an iPhone or iPad:* [Open Control Center](#), touch and hold the top-left group of controls, then tap . Tap Contacts Only or Everyone for 10 Minutes to choose who you want to receive items from.

Note: The Contacts Only and Everyone for 10 Minutes options are available only on devices with [minimum system requirements](#).

- *On a Mac:* Click  in the menu bar, then click . When it's blue, it's on.

To choose who can send items to you, click the right arrow next to AirDrop, then click Contacts Only or Everyone.

Send an item using AirDrop

To send an item to someone with AirDrop, both you and your recipient must have turned on AirDrop and chosen to accept items from either Contacts or Everyone. If a recipient chooses to only accept items from a contact, you must be in their contacts list and they need to have your Apple Account email address or phone number included in your contact card.

Then do any of the following:

- *On an iPhone or iPad:* Open the item, then tap , Share, , , or another button (depending on the app). Tap , then tap the recipient you want to share with. The recipients you see are those who are nearby, have Wi-Fi and Bluetooth turned on, and are able to accept files from your device.
- *On a Mac:* Open the item on a Mac, click  in the toolbar, then click AirDrop. Select the recipient you want to share with. The recipients you see are those who are nearby, have Wi-Fi and Bluetooth turned on, and are able to accept files from your device.

Tip: You can also share items with AirDrop in the Finder. Go to the Finder, click AirDrop in the sidebar, then drag the item you want to share to the recipient you want to send it to.

To use AirDrop to securely share app and website passwords with someone using an iPhone, iPad, or Mac, see [Use passwords on iPad](#).

Receive items with AirDrop

On your device, tap or click Accept on the AirDrop notification.

Most items are saved in the app that they're sent from. For example, if you use AirDrop to send a photo from the Photos app, it's saved in the Photos app on the other device.

Depending on the device, you might find your files in other places. On an iPhone or iPad, some items may be saved in the Files app. On a Mac, some items are automatically saved in the Downloads folder. You may also have the option to choose where to save items.

Note: If you opened AirDrop in the Finder on a Mac, the notification to accept or decline appears here, rather than in Notification Center.

If you send items from one of your Apple devices to another (for example, from your Mac to your iPad), and you're signed in to iCloud using the same Apple Account on both devices, the item is automatically accepted and saved.

Turn off cellular data for AirDrop

Cellular data charges may apply when you use AirDrop.

If you don't want to use cellular data when you're out of Bluetooth or Wi-Fi range, go to Settings > General > AirDrop, then turn off Use Cellular Data.

Typically this is a one-time setting, but you might want to change it if, for example, you're traveling and want to avoid roaming charges.

If AirDrop isn't working

- Make sure that both the sender and recipient have [Wi-Fi](#) and [Bluetooth®](#) turned on and that you're both using an iPhone, iPad, or Mac.
- Check that the recipient has their AirDrop settings set to [receive from Everyone or Contacts Only](#).
- If you're having difficulty getting AirDrop to work, restart your device and try again.
- For additional support, see the Apple Support articles [How to use AirDrop on your iPhone or iPad](#) and [Use AirDrop on your Mac](#).

AirDrop is best for sharing a small selection of files between devices. If you want to share many files between your Mac and other Apple devices, see [Transfer files from iPad to a storage device, a server, or the cloud](#).

Hand off tasks between iPad and your other devices

With Handoff, you can start a task on one device and complete it on another. For example, you can start an email on your iPad but then finish it on your Mac computer's bigger screen.

You can use Handoff with many Apple apps—for example, Safari, Mail, FaceTime, and Maps. Some third-party apps also work with Handoff.

You can use Handoff between your iPhone, iPad, and Mac. You can also hand off tasks between your Apple Watch and iPhone.

Before you begin

Make sure of the following:

- Both devices have [Wi-Fi](#) and [Bluetooth®](#) turned on.
- You're [signed in to the same Apple Account](#) on both devices.
- Both devices meet [minimum system requirements for Handoff](#).

If you're using a VPN, make sure its configuration does not prevent local networking as that may interfere with some Continuity features.

Turn on Handoff

Turn on Handoff on both your iPad and your other Apple device.

- *On iPhone or iPad:* Go to Settings > General > AirPlay & Continuity, then turn on Handoff.
- *On your Mac:* Choose Apple menu  > System Settings, click General  in the sidebar, click AirDrop & Handoff, then turn "Allow Handoff between this Mac and your iCloud devices" on or off.

Note: If your Mac has macOS 12.5 or earlier, choose Apple menu  > System Preferences, click General, then select "Allow Handoff between this Mac and your iCloud devices."

Hand off a task between your iPad and other devices

When your devices are near each other, an icon appears whenever a task can be handed off. Just tap or click the Handoff icon to continue working on your other device.

The Handoff icon appears in the following locations:

- *On an iPhone:* At the bottom of the [App Switcher](#) screen.
- *On an iPad:* At the right end of the Dock.
- *On a Mac:* Toward the right end of the Dock, if the Dock is at the bottom of the screen. If you set up the Dock to appear on the left or right side of your screen, the Handoff icon appears at the bottom of the Dock.

If Handoff isn't working

- Make sure that both devices have [Wi-Fi](#) and [Bluetooth®](#) turned on, and you're [signed in to the same Apple Account](#).
- Check that your app supports Handoff. Calendar, Contacts, FaceTime, Keynote, Mail, Maps, Pages, Numbers, Reminders, and Safari, as well as many third-party apps, allow Handoff.

Tip: When Handoff is on, you can use [Universal Clipboard](#) to copy and paste text, images, photos, and videos across devices.

Cut and paste between your iPad and other devices

With Universal Clipboard, you can copy content from one of your Apple devices and paste it on another. For example, you can copy text on your iPad and paste it into a note on your iPhone, or copy an image from a Safari webpage on your iPhone and paste into an email message on your Mac.

You can use Universal Clipboard with your iPhone, iPad, and Mac.

Before you begin

Make sure of the following:

- Both devices have [Wi-Fi](#), [Bluetooth®](#), and [Handoff](#) turned on.
- You're [signed in to the same Apple Account](#) on both devices.
- Both devices meet [minimum system requirements for Universal Clipboard](#).

If you're using a VPN, make sure its configuration does not prevent local networking as that may interfere with some Continuity features.

Copy and paste between your iPad and other devices

Universal Clipboard isn't a feature that you see, but it behaves just like copy and paste does on your iPad, except with Universal Clipboard, when you paste, you can do so on one of your other Apple devices, like an iPhone or a Mac.

1. Select the text or image on your iPad, then tap Copy.

2. On your other device, either tap (on another iPad or an iPhone) or place the pointer (on a Mac) where you want to paste the text or image, then tap or click Paste. You can also use keyboard shortcuts.

For more information on how to copy or paste on your iPhone, iPad, or Mac, see [How to copy and paste on an iPhone or iPad](#) or [How to copy and paste on a Mac](#).

Note: When you copy the content, it's available on your Clipboard for a short amount of time.

How to copy and paste on an iPhone or iPad

- *Select and copy text:* Double-tap with one finger to select a word or triple-tap with one finger to select a paragraph. (You can also move the grab points to adjust your selection.) Then tap Copy.
- *Select and copy an image:* Touch and hold to select an image, then tap Copy.
- *Paste text or an image:* Tap where you want to paste the text or image, then tap Paste.

To find additional gestures that allow you to copy and paste, see [Select, cut, copy, and paste text on iPhone](#) and [Select, cut, copy, and paste text on iPad](#).

How to copy and paste on a Mac

- *Select text or an image:* With your pointer, select the text or image you want to copy.
- *Copy text or an image:* Press Command-C or choose Edit > Copy from the menu bar.
- *Paste text or an image:* Move your pointer where you want to paste the text or image, then press Command-V, or choose Edit > Paste from the menu bar.

To find additional gestures that allow you to copy and paste, see [Select, cut, copy, and paste text on iPhone](#) and [Select, cut, copy, and paste text on iPad](#).

If Universal Clipboard isn't working

- Make sure that you're [signed in to the same Apple Account](#) on both devices.
- Make sure that your iPhone and Mac have [Wi-Fi](#), [Bluetooth®](#), and [Handoff](#) turned on.
- Your devices must be within 30 feet (10 meters) of one another.
- If you're having difficulty getting Universal Clipboard to work, restart your devices and try again.

Universal Clipboard is best for sharing small selections of text or copied images between devices. If you want to share multiple files between your iPad and Mac, see [Transfer files from iPad to a storage device, a server, or the cloud](#).

Stream video and audio from your iPad with AirPlay

With AirPlay, you can stream video and audio from your iPad to a nearby Mac or TV. You can also mirror what's on your iPad screen.

You can use AirPlay with your iPad and a Mac, an Apple TV, or another TV.

Before you begin

Make sure of the following:

- Both devices have [Wi-Fi](#) turned on and are connected to the same network.
- If you're streaming between your own Apple devices, it's useful to [sign in to the same Apple Account](#).
- To use AirPlay to stream content to a Mac, both devices meet [minimum system requirements](#).
- To use AirPlay to stream content to a TV, make sure you're using Apple TV or an AirPlay 2-enabled smart TV.

If you're using a VPN, make sure its configuration does not prevent local networking as that may interfere with some Continuity features.

Set up a Mac to allow streaming from your iPad

1. On a Mac, choose Apple menu  > System Settings, click General in the sidebar (you may need to scroll down), then click AirDrop & Handoff.

Note: If you're using a Mac with macOS 12.5 or earlier, choose Apple menu  > System Preferences, then click Sharing.

2. Turn on AirPlay Receiver.
3. Click the pop-up menu next to "Allow AirPlay for" and choose the devices that can use AirPlay to stream content to this Mac.
 - *Allow only your devices:* If you only want to allow AirPlay from devices where you're signed in to the same Apple Account, select "Current user."
 - *Allow any device:* Select "Anyone on the same network" or Everyone.

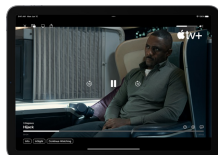
To require a password to use AirPlay with the Mac, select the option, then enter a password.

Stream photos or videos from your iPad to a Mac or TV

You can stream photos and videos from your iPad to a Mac, an Apple TV, or an AirPlay 2-enabled smart TV.

1. On your iPad, find the photo or video that you want to stream.
2. Tap .

Note: In some apps, you might need to tap a different button first. For example, in the Photos app, tap , then tap AirPlay.



3. Choose your Mac or TV from the list.
4. To show playback controls on the Mac, move the pointer over the video playing on the Mac screen.

5. To stop streaming, on your iPad, tap AirPlay in the app you're streaming from, then tap your iPad on the list.

Note: You can set up your iPad to discover and automatically connect to any Apple TV or smart TV that you use frequently when you play content from apps that you use regularly with AirPlay. To turn this feature on or off on your iPad, go to Settings > General > AirPlay & Continuity, then choose Automatic, Never, or Ask.

Share your iPad screen on a Mac or TV

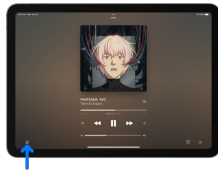
1. [Open Control Center](#) on your iPad.
2. Tap , then choose your Mac or TV as the playback destination.

To switch back, open Control Center, tap , then tap Stop Mirroring.

Play audio from iPad on Mac or TV

You can use AirPlay to stream audio from your iPad to a Mac or TV. If you're streaming to your Mac, make sure you've set up the Mac to allow streaming from another device first. See [Allow streaming from another device](#).

1. Open an audio app, such as Podcasts  or Music  on your iPad, then choose an item to play.
2. Tap , then choose a playback destination.



You can also use AirPlay to stream audio from your iPad to a HomePod. To learn more, see [Play audio on HomePod using an iOS or iPadOS device](#).

Use AirPlay in your hotel room

If you stay in a hotel room with a TV that supports AirPlay, you can use it to play movies, TV shows, music, and more from your iPad.

1. Open Camera  on your iPad.
2. If it's not already on, turn on the room's TV and locate the AirPlay QR code.
3. [Scan the QR code with your iPad camera](#), then follow the onscreen instructions to connect to your hotel Wi-Fi (if you're not already connected) and the room's TV.
4. Use your iPad to display content on the TV screen by [streaming photos or video](#), [mirroring your screen](#), or [playing audio](#). Choose your hotel TV as the playback destination.
5. To stop streaming or mirroring, tap the AirPlay or Screen Mirroring button ( or ) on your iPad, then tap your iPad in the list or tap Stop Mirroring.

Note: AirPlay in hotels is available in certain countries and regions.

If AirPlay isn't working

- Make sure that both of your devices are on the same network.
- Check that your Mac is set up to [allow streaming from another device](#).

- See the Apple Support article [If screen mirroring or streaming isn't working on your AirPlay-compatible device](#).

Use iPhone to allow calls and text messages on your iPad

You can relay phone calls and text messages through your iPhone to your iPad, so it's easy to stay in touch no matter what device you're on.

Use your iPhone to make and receive phone calls or messages on your iPad.

Note: Cellular charges may apply. Wi-Fi Calling isn't available from all carriers.

Before you begin

Make sure of the following:

- Both devices have [Wi-Fi](#) and [Bluetooth®](#) turned on.
- You're [signed in to the same Apple Account](#) on both devices.
- FaceTime is set up on your iPhone and iPad. See [Get started with FaceTime on iPhone](#) and [Get started with FaceTime](#).

If you're using a VPN, make sure its configuration does not prevent local networking as that may interfere with some Continuity features.

Set up your iPhone to allow phone calls on your iPad

1. Go to Settings  > Cellular.

Note: If your iPhone has Dual SIMs, choose a line (below SIMs).

2. Do any of the following:

- Tap Calls on Other Devices, turn on Allow Calls on Other Devices, then choose the devices you want to allow to make and receive calls.

The devices you choose can make and receive calls when they're near your iPhone, connected to Wi-Fi, and signed in to the same Apple Account.

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

Other devices can make and receive calls over Wi-Fi, even when they're not near your iPhone, as long as they're signed in to the same Apple Account.

3. On your iPad, go to Settings  > FaceTime, then turn on Allow Calls on Other Devices.

Make or receive phone calls on your iPad

After you set up your iPhone to allow calls on your other devices, you can make and receive phone calls on your iPad and Mac.

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

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

- *Receive a call:* Swipe or tap the notification to answer or ignore the call.

Stop receiving phone calls on your iPad

If you no longer want to receive phone calls on your iPad, you can turn off the option on your iPhone.

1. Go to Settings  > FaceTime on your iPhone.
2. Turn off Allow Calls on Other Devices.

Send and receive messages on your iPad

You can send and receive messages—both iMessage and SMS/MMS messages—on your iPad. For more information on iMessage and SMS/MMS messages, see [What is the difference between iMessage, RCS, and SMS/MMS?](#)

To send and receive iMessages on iPad, see [Set up iMessage on iPad](#).

To send and receive SMS/MMS messages on your iPad, see [Access your messages on all your Apple devices](#).

In addition to making and receiving phone calls on your iPad, you can also use Handoff to transfer a FaceTime call from one device to another. See [Hand off a FaceTime call from your iPad to your other Apple devices for iPad](#).

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

Share your internet connection from iPad (Wi-Fi + Cellular) with Personal Hotspot

You can share the internet connection from your iPad (Wi-Fi + Cellular) with other devices using a feature called Instant Hotspot. Instant Hotspot uses your iPad device's Personal Hotspot, and is useful when your other device doesn't have internet access from a Wi-Fi network.

There are several ways to connect other devices to your Personal Hotspot:

- Connect your Mac to your iPad through Wi-Fi settings.
- Pair your two devices with Bluetooth®.
- Connect your Mac to your iPad with a cable.

You can share the Personal Hotspot on your iPad with another iPad, an iPhone, a Mac, a Windows device, and more.

Note: Personal Hotspot isn't available with all carriers. Additional fees may apply. The number of devices that can join your Personal Hotspot at one time depends on your carrier and iPad model. Contact your carrier for more information.

Before you begin

Make sure of the following:

- Both devices have [Wi-Fi](#) and [Bluetooth](#) turned on.
- The devices are within 30 feet (10 meters) of each other.
- Both devices meet [minimum system requirements for Instant Hotspot](#).

If you're using a VPN, make sure its configuration does not prevent local networking as that may interfere with some Continuity features.

If you're sharing your Personal Hotspot with your Apple devices, it's faster to connect if you [sign in to the same Apple Account](#) on both devices.

Note: You can only use Personal Hotspot by sharing your iPad device's cellular internet connection. You can't connect your iPad to a Wi-Fi network, and then share that network with another device.

Set up Personal Hotspot on iPad

On your iPad, go to Settings  > Personal Hotspot, then tap Allow Others to Join.

Optionally, you can change the Wi-Fi password. Your Wi-Fi network name is your device name, which you can change in Settings > General > About.

Note: If Cellular Data is turned on in Settings > Cellular, but you don't see Set Up Personal Hotspot as an option, contact your carrier about adding Personal Hotspot to your plan.

Turn Personal Hotspot on and off on iPad

On your iPad, [open Control Center](#). Tap  to make your Personal Hotspot discoverable.

You can choose who is allowed to use your Personal Hotspot, set a password, and—if you're in a Family Sharing group—decide if you want to automatically share your Personal Hotspot with specific family members.

Connect to a Personal Hotspot with Wi-Fi

You can connect another device to the Personal Hotspot on your iPad using Wi-Fi settings. You can connect another iPad, an iPhone, a Mac, a Windows device, and many other devices that are able to connect to a Wi-Fi network.

1. On the device that you want to connect to your iPad device's Personal Hotspot, do any of the following:
 - *On an iPhone with Touch ID:* Swipe down from the top-right edge to open Control Center. Tap  to turn Wi-Fi on, then choose your iPad.
 - *On an iPhone with Face ID:* Swipe up from the bottom to open Control Center. Tap  to turn Wi-Fi on, then choose your iPad.
 - *On an iPad:* Swipe down from the top-right edge to open Control Center. Tap  to turn Wi-Fi on, then choose your iPad.
 - *On a Mac:* Click  in the menu bar, then choose your iPad.
 - *On a Windows device or other device:* Follow the manufacturer's instructions to connect to a Personal Hotspot.
2. Enter the password you set up for your Personal Hotspot to connect. If you're connecting another Apple device and you're signed in to the same [Apple Account](#) on both devices, you don't need to enter a password.

Note: When a Mac is connected to your Personal Hotspot, a blue band appears at the top of your iPad screen, and  appears in the status bar of the connected Mac.

When you're not using the hotspot, your devices automatically disconnect to save battery life.

Connect to a Personal Hotspot with Bluetooth

You can connect a Mac or Windows device to the Personal Hotspot on your iPad using Bluetooth instead of Wi-Fi. Both devices must have Bluetooth turned on.

1. On your Mac, choose Apple menu  > System Settings, then click Bluetooth in the sidebar. (You may need to scroll down.)

Note: If your Mac has macOS 12.5 or earlier, choose Apple menu  > System Preferences, then click Bluetooth.

2. On your iPad, go to Settings > Bluetooth to make it discoverable.
3. On your Mac, select your iPad when it appears. (It may take a moment.)

As soon as it's connected by Bluetooth, your Mac is able to use your iPad device's cellular connection.

To connect your Windows device to your iPad using Bluetooth, follow the manufacturer's directions to set up a Bluetooth network connection.

Connect to a Personal Hotspot with a USB cable

You can connect a Mac or Windows device to the Personal Hotspot on your iPad using the USB cable that came with your iPad (or another cable that matches the ports on your iPad and other device).

Note: If you see an alert on your iPad that says Trust This Computer? tap Trust. You may be asked to enter your device passcode to proceed. If you see an alert on your Mac that says "Allow accessory to connect?" click Allow.

As soon as it's connected by a cable, your Mac or Windows device is able to use your iPad device's cellular connection.

If your Personal Hotspot isn't working

- Make sure that your devices have [Wi-Fi](#) and [Bluetooth](#) turned on.
- Your devices must be within 30 feet (10 meters) of one another.
- See the Apple Support article [If Personal Hotspot is not working on your iPhone or iPad \(Wi-Fi + Cellular\)](#) for additional troubleshooting steps.
- Maximize compatibility in Settings > Personal Hotspot, then enable Maximize Compatibility. Maximize Compatibility may reduce performance for devices connected to your Personal Hotspot when turned on.

When you share a Personal Hotspot from your iPad, it uses cellular data for the internet connection. To monitor your cellular data network usage, go to Settings > Cellular. See [View or change cellular data settings](#).

If you use Family Sharing, you can share your Personal Hotspot with any member of your family. See [Set up Family Sharing](#).

Use iPad as a webcam for Apple TV

With Continuity Camera, you can use your iPad as a webcam or microphone for your Apple TV 4K, and take advantage of the powerful iPad camera and video effects for apps and FaceTime calls.

Here are some things you can do with Continuity Camera on Apple TV:

- [Use your iPad as a webcam in FaceTime](#).
- [Sing along to Apple Music and appear onscreen with visual effects](#).

Insert sketches, photos, and scans from

your iPad on Mac

With Continuity Camera and Continuity Sketch, you can draw a sketch, take a photo, or scan a document using your nearby iPad and have it appear instantly on your Mac, exactly where you need it—for example, in an email, note, or folder. You can also mark up a file on your Mac with your iPad using Continuity Markup.

You can use Continuity Camera, Continuity Sketch, and Continuity Markup with an iPad and Mac.

Before you begin

Make sure of the following:

- Both devices have [Wi-Fi](#) and [Bluetooth®](#) turned on.
- You're [signed in to the same Apple Account](#) on both devices.
- Both devices [meet minimum system requirements for Continuity Camera, Continuity Sketch, and Continuity Markup](#).

If you're using a VPN, make sure its configuration does not prevent local networking as that may interfere with some Continuity features.

Depending on where the photo or scan is inserted, you can mark it up or adjust other aspects, such as crop it or apply a filter.

Insert a sketch, photo, or scan from your iPad

You can draw a sketch on your iPad and have it appear on your Mac with Continuity Sketch, or take a photo or scan a document on your iPad and have it appear on your Mac with Continuity Camera.

1. On your Mac, [Control-click](#) where you want to insert the sketch or photo—for example, in an open window, like a note or email message.

You can also Control-click the desktop or a folder in a Finder window.

2. Choose Import from iPad, then choose Add Sketch or Take Photo.

3. Do any of the following:

- *Add a sketch:* On your iPad, draw a sketch using your finger.

On iPad, you can also use Apple Pencil.

- *Take a photo:* On your iPad, take the photo, then tap Use Photo or Retake.

- *Scan a document:* On your iPad, take the scan. Your iPad detects the edges of the document and autocorrects any skewing of the image. If you want to adjust the area included in the scan, drag the frame or its edges. When you're ready, tap Keep Scan or Retake. You can continue to scan documents until you're done, then tap Save.

On your Mac, the sketch, picture, or scan appears in the location you chose in step 1. If you added it from the desktop or a folder, it appears as a file.

Note: Scans you take on your iPad aren't saved on the device.

Use your iPad to mark up a file on your Mac

Use your iPad to add text, make drawings, rotate, and crop images, PDF documents, and more on your Mac, called Continuity Markup.

1. On your Mac, open the Finder.
2. Select the file you want to mark up, then press the Space bar to open a preview window.
3. Click  in the toolbar.
4. Click the Annotate button, then use the [Markup tools](#) to draw, add text or shapes, use the magnifier, and more.

On iPad, you can also use Apple Pencil.

5. When you're done, tap Done on your iPad.
6. To save your changes, click Done on your Mac.

If Continuity Camera, Continuity Sketch, or Continuity Markup isn't working:

- Make sure you're [signed in to the same Apple Account](#) on both devices.
- Make sure that both devices have [Wi-Fi](#) and [Bluetooth](#) turned on.
- Make sure that your devices are within 30 feet of one another.
- Make sure your device meets [minimum system requirements for Continuity Camera](#).

Use iPad as a second display for your Mac

With Sidecar, you can extend the workspace of your Mac by using your iPad as a second display. The extended workspace allows you to use different apps on the different screens, or to use the same app across both screens, but control different aspects of it. For example, when you use the same app on both screens, you can view your artwork on your Mac while you use Apple Pencil and an app's tools and palettes on iPad.

You can use Sidecar with your Mac and iPad.



Before you begin

Make sure of the following:

- Both devices have [Wi-Fi](#), [Bluetooth®](#), and [Handoff](#) turned on.
- You're [signed in to the same Apple Account](#) on both devices.
- The devices must be within 30 feet (10 meters) of each other.
- Both devices meet [minimum system requirements for Sidecar](#).

If you're using a VPN, make sure its configuration does not prevent local networking as that may interfere with some Continuity features.

Set up Sidecar

1. On your Mac, choose Apple menu  > System Settings, then click Displays in the sidebar. (You may need to scroll down.)

Note: If your Mac has macOS 12.5 or earlier, choose Apple menu  > System Preferences, then click Displays.

You can also connect your Mac and iPad using a USB cable. You can use the USB cable that came with your iPad or another cable that matches the ports on your Mac and iPad.

2. Click  on the right, then choose your iPad.
3. To change Sidecar options (for example, to show a sidebar or Touch Bar on your iPad or extend or mirror your Mac display) choose your iPad in Displays, then choose from the available options.

You can also adjust the arrangement of your Mac and iPad displays. Click Arrange, then drag your displays into a new position.

Tip: You can also use Control Center to set up Sidecar. Click screen mirroring in the menu bar, click Screen Mirroring, then choose your iPad. You can adjust some Display settings here, or click Display Settings for more options.

Use Sidecar with your Mac or iPad

Do any of the following:

- *Move windows between Mac and iPad:* Drag a window to the edge of the screen until the pointer appears on the other device. Or while using an app, choose Window > "Move to".
- *Use the sidebar on iPad:* With your finger or Apple Pencil, tap the icons in the sidebar to show or hide the menu bar, show  or hide  the Dock, or show the onscreen keyboard . Or tap one or more modifier keys, such as Control , to use keyboard shortcuts.
- *Use the Touch Bar on iPad:* With your finger or Apple Pencil, tap any button in the Touch Bar. The buttons available vary depending on the app or task.
- *Use Apple Pencil on iPad:* With your Apple Pencil, tap to select items such as menu commands, checkboxes, or files. If your Apple Pencil supports it (and you selected the option in Displays settings), you can double-tap the lower section of your Apple Pencil to switch drawing tools in some apps. See the Apple Support article [Pair Apple Pencil with your iPad](#).
- *Use gestures on iPad:* Use basic gestures, such as tap, swipe, scroll, and zoom, as well as gestures for entering and editing text. See the [Learn basic gestures to interact with iPad](#).
- *On iPad, switch between the Mac desktop and the iPad Home Screen:* To show the Home Screen, swipe up from the bottom edge of your iPad. To return to the Mac desktop, swipe up, then tap .

Turn off Sidecar

When you're ready to stop using your iPad as a second display for your Mac, do one of the following:

- *On a Mac:* Click  in the menu bar, click Display, then deselect your iPad from the list below "Mirror or extend to."
- *On an iPad:* Tap  at the bottom of the sidebar.

If Sidecar isn't working

- Make sure you're [signed in with the same Apple Account](#) on both devices.

- Make sure that both devices have [Wi-Fi](#), [Bluetooth](#), and [Handoff](#) turned on and are on the same Wi-Fi network.
- Make sure that your devices are within 30 feet (10 meters) of one another,
- For more troubleshooting tips, see the Sidecar system requirements in the Apple Support article [Use an iPad as a second display for a Mac](#).

Use a keyboard and mouse or trackpad to control Mac and iPad

With Universal Control, you can use the keyboard and mouse or trackpad connected to your Mac to work across your Mac and iPad when they're near each other. You can even connect an additional Mac or iPad and work across three devices. When you use Universal Control, you can open and use apps, enter text, and drag items across devices. If an external keyboard and mouse or trackpad are connected to your iPad, you can use them to work across both devices too.

You can use Universal Control with your Mac and iPad.

Before you begin

Make sure of the following:

- Both devices have [Wi-Fi](#), [Bluetooth®](#), [Handoff](#), and [two-factor authentication](#) turned on.
- You're [signed in to the same Apple Account](#) on both devices.
- The devices must be within 30 feet (10 meters) of each other.
- Both devices meet [minimum system requirements for Universal Control](#).
- If your Mac doesn't have a built-in trackpad or keyboard, you must connect a keyboard and mouse or trackpad to your Mac. To connect an Apple keyboard, mouse, or trackpad, see [Connect an Apple wireless keyboard, mouse, or trackpad with Mac](#).

If you're using a VPN, make sure its configuration does not prevent local networking as that may interfere with some Continuity features.

Set up Universal Control

To connect your Mac and iPad, make sure that both devices are awake and unlocked, then do one of the following:

- On your Mac, use your mouse or trackpad to move the pointer to the right or left edge of the screen, whichever is closest to your other device. Pause, then move the pointer slightly past the edge of the screen. When a border appears at the edge of the other device, continue moving the pointer to the other device's screen.
- On your Mac, click  in the menu bar, click Display, then choose your other device below "Link keyboard and mouse to." Then use your mouse or trackpad to move the pointer past the edge of the Mac screen until it appears on your other device.

After you establish a connection, you can move the pointer across screens until one of your devices goes to sleep or you disconnect them.

Use your Mac keyboard and mouse or trackpad with your iPad

Many actions and gestures that you can do on your iPad with an external mouse or trackpad also work with your Mac mouse or trackpad. See [Mouse actions and gestures](#) and [Trackpad gestures](#).

With your Mac keyboard, you can also use many iPad features available with external keyboards. See the keyboard topics in the Accessories chapter, beginning with [Switch between keyboards](#).

Change the screen arrangement between your Mac and iPad

The direction in which you move the pointer when establishing the Universal Control connection determines which side of the display you use to move the pointer across devices.

You can adjust the arrangement of your devices.

1. On your Mac, choose Apple menu  > System Settings, then click Displays in the sidebar. (You may need to scroll down.) On the right, scroll down, then click Arrange.

Note: If your Mac has macOS 12.5 or earlier, choose Apple menu  > System Preferences, then click Displays.

2. Drag the iPad image to the desired position.

Disconnect Universal Control between your Mac and iPad

You can disconnect your Mac and iPad to temporarily stop using Universal Control.

Do one of the following:

- *On your iPad:* Press the top button on your iPad to put it to sleep.
- *On your Mac:* Click  in the menu bar, click Display, then deselect your iPad, below "Link keyboard and mouse to."

Stop your Mac and iPad from automatically connecting

After you set up Universal Control, your Mac and iPad or another Mac automatically reconnect whenever they're close to each other and their screens are unlocked. To stop your Mac and iPad or another Mac from automatically connecting, you can turn off this option your Mac.

On your Mac, choose Apple menu  > System Settings, then click Displays in the sidebar (you may need to scroll down). On the right, click Advanced, then turn off "Automatically reconnect to any nearby Mac or iPad."

Note: If your Mac has macOS 12.5 or earlier, choose Apple menu  > System Preferences, then click Displays.

Turn off Universal Control

You can turn off Universal Control to prevent the use of your Mac keyboard and mouse or trackpad across your iPad and other devices.

1. On your Mac, choose Apple menu  > System Settings, click Displays in the sidebar (you may need to scroll down), then click Universal Control.

Note: If your Mac has macOS 12.5 or earlier, choose Apple menu  > System Preferences, click Displays, then click Universal Control.

2. Click Advanced on the right, then do one of the following:

- *Turn off all Universal Control connections:* Turn off "Allow your pointer and keyboard to move between any nearby Mac or iPad."
- *Prevent a connection when moving the pointer to the edge of the screen:* Turn off "Push through the edge of a display to connect to a nearby Mac or iPad."

To prevent connecting your iPad keyboard and mouse or trackpad to your Mac, on iPad go to Settings  > General > AirPlay & Continuity, then turn off Cursor and Keyboard.

If Universal Control isn't working

- Make sure you're [signed in with the same Apple Account](#) on both devices.
- Make sure that both devices have [Wi-Fi](#), [Bluetooth](#), [Handoff](#), and [two-factor authentication](#) turned on and are on the same Wi-Fi network.
- Make sure that your devices are within 30 feet (10 meters) of one another,
- For more troubleshooting tips, see the Sidecar system requirements in the Apple Support article [Universal Control: Use a single keyboard and mouse between Mac and iPad](#).

Connect iPad and your computer with a cable

You can use a cable to directly connect your iPad to a Mac with OS X 10.9 or later, or to a Windows device with Windows 7 or later.

Using the charging cable for your iPad, connect iPad to the USB port on your computer. If the cable isn't compatible with the port on your computer, you'll need to use an adapter (sold separately).

Note: If an alert appears on your iPad asking whether to trust this computer, select Trust. (See the Apple Support article [About the 'Trust This Computer' alert](#).)

After you connect your iPad to a computer with a cable, you can do any of the following:

- [Set up iPad](#) for the first time.
- [Share your internet connection with Personal Hotspot](#) with your computer.
- [Use your computer to erase all content and settings](#) from iPad.
- [Update iPad](#) using your computer.
- [Sync content or transfer files](#) between your Mac and iPad.
- [Sync content or transfer files](#) between your Windows device and iPad.

The iPad battery charges when iPad is connected to your computer and your computer is connected to power.

Transfer files between your iPad and computer

Transfer files between your iPad and your

Transfer files between your iPad and your computer

There are multiple ways to transfer your photos, videos, and other files between your iPad and computer.

- *Quickly transfer files wirelessly:* See [Use AirDrop to send items to nearby devices](#).
- *Use iCloud:* See [Automatically keep your files up to date with iCloud](#).
- *Use an external storage device, a file server, or a service like Box or DropBox:* See [Transfer files from iPad to a storage device, a server, or the cloud](#).
- *Use a cable:* For Mac, see [Connect iPad and your computer with a cable](#). For Windows devices, see [Transfer files between your PC and devices with iTunes](#).

Important: Transferring, sharing, or syncing may be restricted for some types of data, such as files saved in an app's proprietary format, files saved in older software versions, and files protected by copyrights.

Transfer files wirelessly between your iPad and computer with email, messages, or AirDrop

Use email to transfer files

- To transfer files using Mail on your iPad, see [Add email attachments](#) and [Download email attachments](#).
- To transfer files using Mail on your Mac, see [Add attachments to emails in Mail on Mac](#) and [Save email attachments in Mail on Mac](#).

Use text messages to transfer files

- To transfer files using Messages on your iPad, see [Turn on AirDrop](#).
- To transfer files using Messages on your Mac, see [Send photos and videos in Messages on Mac](#).

Use AirDrop to transfer files

- To transfer files using AirDrop on your iPad, see [Use AirDrop to send items to nearby devices](#).
- To transfer files using AirDrop on your Mac, see [Use AirDrop on your Mac to send files to devices near you](#).

Files sent to your iPad are located in the app where you saved the file or in the app that opens automatically when the file is received. Files sent to your Mac are located in the app where you saved the file or in the Downloads folder.

Transfer files or sync content between your iPad and computer with the Finder or iTunes

You can [connect your iPad to a computer](#) to do the following:

- Transfer files used by iPad apps that support file sharing.
- Sync supported content like movies and podcasts.

Depending on your computer, you use either the Finder or iTunes on your computer to sync content and transfer files.

Transfer files for supported apps

You can transfer files by copying them from one device to another using the Finder or iTunes. Only files from iPad apps that support file sharing can be transferred.

- *To transfer files with your Mac (macOS 10.15 or later):* See the Apple Support article [Use the Finder to share files between your Mac and your iPhone](#).
- *To transfer files with your Windows device or Mac (macOS 10.14 or earlier):* See the Apple Support article [Use iTunes to share files between your computer and your iOS or iPadOS device](#).

Sync supported content

Syncing with the Finder or iTunes keeps supported content up to date between your iPad and computer. For example, when you add a movie to your iPad, you can sync so that the movie also appears on your computer. After you set up syncing between your devices with a cable, you can set them to sync wirelessly and automatically whenever they're connected to the same Wi-Fi network.

You can sync content like music, movies, TV shows, podcasts, photos, contacts, and calendars.

- *To sync content with your Mac (macOS 10.15 or later):* See [Sync content between your Mac and iPad](#) in the Mac User Guide.
- *To sync content with your Windows device or Mac (macOS 10.14 or earlier):* See the Apple Support article [Use iTunes to sync your iPad with your computer](#).

If the files you want to share between your iPad and computer aren't supported by syncing or transferring with the Finder or iTunes, see [Transfer files between devices](#) for other options.

Automatically keep your files up to date on your iPad and computer with iCloud

You can store your files, photos, videos, and more in iCloud so you can access them and keep them synced on all your devices. Any change you make to a file on a device that's signed in to iCloud appears on all devices that are signed in.

You can also access your information in iCloud from anywhere by using a supported web browser. See [System requirements for iCloud](#).

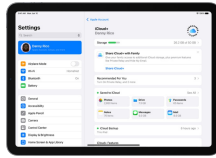
Important: OS X 10.10 (or later) or Windows 7 (or later) are required. You must be [signed in to your Apple Account](#) on both your iPad and your computer, along with any web browsers you might be using.

Set up iCloud on your iPad

1. Go to Settings  > [your name] on your iPad.

If you don't see your name, tap Apple Account, enter your Apple Account email or phone number, then enter your password.

2. Tap iCloud, then turn on items you want to keep there.



For example, turn on iCloud Drive to make your files in iCloud Drive available to your computer.

Set up iCloud on your Mac

1. Follow the instructions to [set up iCloud features on Mac](#) in the Mac User Guide.
2. Turn on the same items that you turned on for iPad.

Set up iCloud on your Windows device

1. Follow the instructions to [set up iCloud](#) in the iCloud for Windows User Guide.
2. Turn on the same items that you turned on for iPad, then click Apply.

iCloud comes with an email account and 5 GB of free storage for your data. For more storage and additional features, you can [Subscribe to iCloud+](#).

Note: Some iCloud features have minimum system requirements. iCloud may not be available in all areas, and iCloud features may vary by area. See the Apple Support article [System requirements for iCloud](#). For information about features, go to apple.com/icloud/.

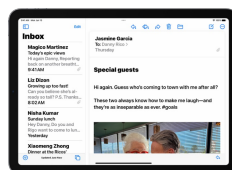
Accessibility

Get started with accessibility features on iPad

Customize iPad in ways that work best for you with features for vision, hearing, mobility, speech, and cognitive accessibility—whether you need them temporarily or on an ongoing basis.

You can [turn on accessibility features when you set up your iPad for the first time](#), or at any time in Settings  > Accessibility.

Vision



Use the built-in screen reader to hear what's on the screen and navigate iPad with gestures. Or make text bigger, zoom in on the screen, adjust display colors, and more.

You can even use your iPad as a magnifying glass, and hold it up to get descriptions of your surroundings if you can't see them.

[Learn more about accessibility features for vision](#)

Mobility

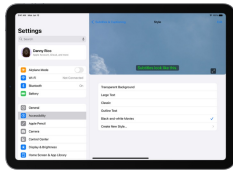


Navigate and perform actions on iPad using just your eyes or spoken commands. Or connect an assistive device or an external keyboard and use it to control iPad.

You can also make it easier to use gestures and set other options so iPad responds best to your touch.

[Learn more about accessibility features for mobility](#)

Hearing

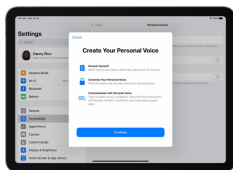


Get real-time captioning of spoken audio from an app or live conversation, turn on flash notifications, have iPad recognize sounds, and more.

You can also pair hearing devices with your iPad, and adjust headphone audio so it's right for you.

[Learn more about accessibility features for hearing](#)

Speech

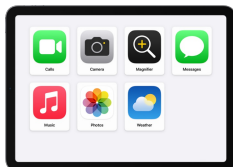


Create a custom voice that sounds like you, or choose one of dozens of system voices, then use it to have what you type spoken out loud.

You can also have Siri recognize a wider range of speech patterns, or teach iPad to perform an action when you speak a word or sound of your choosing.

[Learn more about accessibility features for speech](#)

Cognitive



iPadOS accessibility features can help you—or someone you care for—use iPad with greater independence. You can set up an iPad with a simplified interface for someone with a cognitive disability, or temporarily lock iPad to one app when you let a child use it.

[Learn more about cognitive accessibility features](#)

Tip: Control your go-to accessibility features and settings with Siri, the click of a button, or from Control Center. See [Quickly turn accessibility features on or off](#).

Use accessibility features during iPad setup

iPad has accessibility features that you can turn on the first time you turn on your iPad, to make it easier to set up and personalize other iPad features.

Hear what's onscreen with VoiceOver

VoiceOver—a gesture-based screen reader—tells you what's happening onscreen.

1. After iPad is turned on, triple-click the top button (on an iPad with Face ID) or triple-click the Home button (on other iPad models) to [turn on VoiceOver](#).
2. Do any of the following and more:
 - *Speak the entire screen:* Swipe up with two fingers.
 - *Find out what you're touching:* Touch the screen or drag your finger over it. VoiceOver speaks the name of the item your finger is on, including icons and text. Swipe right to elect the next item. Tap with four fingers near the top to select the first item on the screen.
 - *Select an item:* Tap to select a button or link, and activate it by double-tapping.
 - *Scroll to another page:* Swipe with three fingers.
 - *Open the onscreen rotor:* Turn two fingers on the screen, as if rotating a dial. See [Control VoiceOver using the rotor](#).

Note: When VoiceOver is on, basic gestures don't work as usual. See [Use VoiceOver gestures](#) and [Operate iPad when VoiceOver is on](#).

You can adjust audio options, language, voice, speaking rate, how much detail VoiceOver provides, and more in [VoiceOver settings](#).

Zoom in on part of the screen

1. Double-tap the screen with three fingers, then use the slider to set a magnification level.
2. Use three fingers to scroll around the zoomed-in screen.

See [Zoom in](#).

Turn on other features during setup

You can turn on additional accessibility features from the Quick Start screen.

Tap ⓘ to turn on or adjust settings for any of the following:

- [VoiceOver](#)
- [Zoom](#)

- [Display & Text Size](#)
- [Motion](#)
- [Spoken Content](#)
- Touch (such as [AssistiveTouch](#) and [Touch Accommodations](#), [Switch Control](#), or any [external keyboard](#).)

If you've set up accessibility features on an iPhone or iPad that's nearby, you can transfer your settings to your new iPad with Quick Start—just follow the onscreen instructions. See [Turn on and set up iPad](#). (See [Move from an Android device to iPad](#) if your previous device wasn't made by Apple.)

Change Siri accessibility settings on iPad

You can change how quickly or when Siri responds, use text to make requests to Siri, have Siri listen for atypical speech patterns, have Siri audibly share notifications, and announce and end calls.

Tell Siri when and how to respond to requests

1. Go to Settings  > Accessibility > Siri.
2. Do any of the following:
 - *Set how long Siri waits for you to finish speaking:* Below Siri Pause Time, choose Default, Longer, or Longest.
 - *Change how fast Siri speaks:* Adjust the slider below Speaking Rate.
 - *Decide when Siri responds aloud or in text:* Choose an option below Spoken Responses. You can also [change how Siri responds](#).
 - *Use Siri even when iPad is covered or facing down:* Turn on Always Listen for "Hey Siri."

To have Siri respond when iPad is facing up, go to Settings > Siri (or Apple Intelligence & Siri), then turn on Listen for "Siri" or "Hey Siri."

- *Require "Siri" or "Hey Siri" in order to interrupt Siri:* Turn on Require "Siri" for Interruptions. This can be useful if you use VoiceOver or Voice Control and don't want VoiceOver speech or Voice Control commands to interrupt Siri.

To change how you activate Siri, see [Set up Siri](#) and [Change when Siri responds](#).

Type instead of speak to Siri

1. Go to Settings  > Accessibility > Siri, then turn on Type to Siri.

Note: If you have an [iPad that supports Apple Intelligence](#) and Apple Intelligence is turned on, you can automatically type to Siri, so this option isn't shown. See [Use Apple Intelligence with Siri](#).
2. To make a request, [activate Siri](#), then interact with Siri using the keyboard and text field.

Have Siri recognize a wider range of speech patterns

You can have Siri listen for atypical speech. This may be helpful if you have an acquired or progressive condition that affects speech, such as cerebral palsy, amyotrophic lateral sclerosis (ALS), or stroke.

Go to Settings  > Accessibility > Siri, then turn on Listen for Atypical Speech.

You can also teach iPad to perform an action when you speak a word or make a sound of your choosing. See [Use Vocal Shortcuts](#).

Announce calls and notifications for specific apps

You can have Siri [announce notifications](#) from apps like Messages on your iPad speaker, [supported headphones](#), and on [MFi hearing devices](#).

1. Go to Settings  > Accessibility > Siri, then turn on Announce Notifications on Speaker.
2. Tap Announce Notifications, then for each app, choose whether to announce all notifications or only time-sensitive notifications.

End calls with Siri

1. Go to Settings  > Accessibility > Siri, tap Call Hangup, then turn on Call Hangup.

Note: Available in select languages and [on supported models](#). Requires download of speech models.)

2. To end a call, say something like: "Siri, hang up." (Participants on the call will hear you.)

You can also [route and automatically answer calls](#) or have Siri [announce and answer calls](#).

Quickly turn accessibility features on or off on iPad

You can quickly turn many accessibility features on or off by clicking an iPad button. You can also use Control Center, Siri, or Vocal Shortcuts.

Use the Accessibility Shortcut

Triple-click the top button or Home button to turn the accessibility features of your choice on or off.

1. Go to Settings  > Accessibility > Accessibility Shortcut, then select the features you want.

If you select only one feature, the feature is immediately turned on or off when you click the button shortcut.

2. Triple-click one of the following:
 - The Home button (on an iPad with a Home button)
 - The top button (on other iPad models)

To have iPad recognize a slower triple-click, see [Adjust the top or Home button](#).

3. Tap the feature you want to turn on or off (if Accessibility Shortcut is set up with more than one feature).

Note: To add some features—like [Assistive Access](#) or [Guided Access](#)—to the Accessibility Shortcut, you need to set them up first. You can use the Accessibility Shortcut to enter and exit Assistive Access, but you can't use it to turn on other features while Assistive Access is active. To use the Accessibility Shortcut while Guided Access is on, you must turn on Accessibility Shortcut in [Guided Access settings](#)

Use Control Center

You can add accessibility features to [Control Center](#) for quick access when you swipe down from the top-right corner of the screen.

1. To change the features available in Control Center, swipe down from the top-right corner of the screen, tap **+** in the top-left corner, then tap Add a Control.
2. Tap a control to add it to Control Center. Scroll down to see more controls, including categories of controls for accessibility, hearing, mobility, and vision.

You can change which features appear when you tap  in Control Center. Go to Settings  > Accessibility > Hearing Control Center, then add or remove features.

Use Siri

Say something like: "Turn on Voice Control" or "Turn off VoiceOver." [Learn how to use Siri.](#)

Use a Vocal Shortcut

You can teach iPad to turn on an accessibility feature when you speak a word or another sound of your choosing. See [Use Vocal Shortcuts](#).

Vision

Accessibility features for vision on iPad

With built-in accessibility features for vision on iPad, you can make it easier to see what's on the screen, or you can hear what's on the screen spoken out loud. You can even use your iPad as a magnifying glass, and hold it up to get descriptions of what's around you if you can't see it.

To explore accessibility features for vision, go to Settings  > Accessibility. Vision features are at the top.

Hear what's on the screen

Have the built-in screen reader speak what's on the screen. Navigate your iPad with gestures, or with a connected keyboard or braille display.

[Turn on and practice VoiceOver](#)

Even if VoiceOver is off, have iPad read all text on the screen, what you're typing, and more.

[Hear what's on the screen or typed](#)

Get spoken descriptions of visual content in movies, TV shows, and other media, when available.

[Hear audio descriptions for video content](#)



**Control iPad with
VoiceOver**



**Speak onscreen
text**



**Hear descriptions
of video**

Tip: With [Siri](#) and [Dictation](#), you can complete common tasks and enter text using just your voice.

Get information about your surroundings

Have iPad read text on household appliances, ATMs, and more.

[Read aloud text and labels around you](#)

Hold up iPad and get information about what your camera is pointed at, including when people, doors, or text are detected.

[Get live descriptions of visual information around you](#)

Use iPad as a magnifying glass to zoom in on items around you.

[Magnify and examine objects around you](#)



**Point at text and
hear it spoken**



**Hear about your
surroundings**



Get a closer look

Make text and other onscreen content larger

Enlarge what you're viewing—the entire screen or one part of it.

[Zoom in](#)

Adjust the reading size for text across iPad apps and system features.

[Make text easier to read](#)

Display a separate window with a larger version of the text that you're typing.

[Use Hover Typing](#)



Zoom in



**Make text bigger
and bolder**



**Enlarge text as you
type**

If you use a mouse or trackpad with iPad, you can also [show a larger version of text when you hover over it](#) or [make the pointer easier to see](#).

View what's on the screen more comfortably

Pause animated images, and slow down the motion of user interface elements. Or dim your display when media you're viewing depicts strobe or flashing lights.

[Stop or reduce onscreen motion](#)

Get animated dots on the edges of the screen that may help reduce motion sickness.

[Use iPad more comfortably while riding as a passenger in a vehicle](#)

If you prefer light text on a dark background, choose a dark color scheme for the iPad user interface.

[Turn Dark Mode on or off](#)

Differentiate content on the screen more easily by inverting colors, applying a color filter, and more.

[Change display colors](#)

	Reduce onscreen motion		Use iPad more comfortably in a car
	Use Dark Mode		Adjust the display colors

Zoom in on the iPad 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), magnify only part of the screen with a resizable lens (Window Zoom), or magnify a portion of the screen that stays in one place (Pinned 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*: Control Zoom using shortcuts on an external keyboard.
 - *Zoom Controller*: Turn the controller on, set controller actions, and adjust the color and opacity.
 - *Zoom Region*: Choose Pinned Zoom, 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. If you use iPad with a pointer device, you can also set the following below Pointer Control:
 - *Zoom Pan*: Choose Continuous, Centered, or Edges to set how the screen image moves with the pointer.
 - *Adjust Size with Zoom*: Allow the pointer to scale with zoom.
4. 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 Shortcut](#) 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 adjust any of the following:
 - *Choose Region*: Choose Pinned Zoom, Full Screen Zoom, or Window Zoom.
 - *Resize Lens*: (Window Zoom) Tap Resize Lens, then drag any of the round handles that appear.
 - *Choose Filter*: Choose Inverted, Grayscale, Grayscale Inverted, or Low Light.
 - *Show Controller*: Show the Zoom 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 an Apple external keyboard, the Zoom region follows the insertion point, keeping it in the center of the screen. See [iPad keyboards](#).

To turn off Zoom, double-tap the screen with three fingers or [use Accessibility Shortcut](#).

View a larger version of text you're reading or typing on iPad

With Hover Text on iPad, you can move the pointer over text and other items on the screen (such as icons) to view a larger version of them. Or use Hover Typing to display a separate window with a larger version of text that you're typing.

Before you begin

To use Hover Text, you need to connect a pointing device such as a trackpad or mouse with your iPad. On [supported iPad models](#), you can also use Apple Pencil (2nd generation) or Apple Pencil Pro as the pointing device.

You don't need to connect a pointing device to use Hover Typing.

Show a larger version of text when you hover over it

1. Go to Settings  > Accessibility > Hover Text, then turn on Hover Text.
2. Move the pointer over text to display a larger version of it. Or hover the tip of a supported Apple Pencil over the text.
3. If you have a connected keyboard, you need to press and hold the Control key to show the Hover Text window.

If you use iPad with a connected keyboard, you can have the Hover Text window automatically displayed when you move the pointer over text, without needing to press and hold a key every time. Go to Settings  > Accessibility > Hover Text, then turn on Activation Lock. To use activation lock, quickly press the Control key three times.

You can change the key you press to activate Hover Text and activation lock. Tap Activation Modifier, then choose another key.

Show a larger version of text you're typing

1. Go to Settings  > Accessibility > Hover Text, then tap Hover Typing.
2. Turn on Hover Typing.
3. As you type in a text entry field, a larger version of what you're typing is displayed.

To temporarily hide the Hover Typing window, swipe on it. It reappears when you start typing again.

Customize Hover Text or Hover Typing

1. Go to Settings  > Accessibility > Hover Text. To customize Hover Typing, tap Hover Typing.
2. Customize any of the following:
 - *Display mode*: Choose where to show the Hover Text or Hover Typing window—inline (near the cursor), or at the top or bottom of the screen.
 - *Appearance*: Choose the size, font, and color of the text in the Hover Text or Hover Typing window, or the colors of the window itself.
 - *Scrolling speed*: Choose a faster or slower speed (for scrolling in the Hover Text window when viewing large blocks of text).

Change display colors on iPad to make it easier to see what's onscreen

To make it easier to see what's on your iPad screen, you can invert and filter colors or make transparent items solid.

Tip: Quickly set brightness with the slider in [Control Center](#).

Invert colors

Make the background dark so text and content stand out. This can be especially

useful in apps and websites that don't support [Dark Mode](#).

1. Go to Settings  > Accessibility > Display & Text Size.
2. Turn on one of the following:
 - *Smart Invert*: Reverse colors everywhere except images.
 - *Classic Invert*: Reverse all the colors onscreen.

Differentiate or tone down colors

You can apply a filter to view the entire screen in grayscale, adjust colors for color vision deficiencies, or tint the screen a color of your choosing.

1. Go to Settings  > Accessibility > Display & Text Size.
2. Tap Color Filters, turn on Color Filters, then tap a color filter to apply it.

You can drag any slider that appears to adjust the intensity or hue. The pencils reflect how the filter affects a range of colors.

Note: Color filters can change the look of images and videos.

Turn on Reduce White Point to tone down the intensity of bright colors.

To have screen colors become warmer as it gets dark out, use [Night Shift](#). Night Shift automatically removes inverted colors and color filter effects (except grayscale).

You can also use the Magnifier app to capture an image of nearby text or objects and apply a color filter to it. See [Customize controls in Magnifier](#).

Make transparent items solid

Some backgrounds appear transparent or blurred by default. You can make these transparent backgrounds opaque by giving them a solid color. In this way you simplify those parts of your screen and make them easier to see.

1. Go to Settings  > Accessibility > Display & Text Size.
2. Turn on Reduce Transparency.

Differentiate without color

Some screen items rely on color to convey information. You can replace these with alternative ways to tell them apart, like shapes or text.

1. Go to Settings  > Accessibility > Display & Text Size.
2. Turn on Differentiate Without Color.

Use symbols for on/off switches

Switches turn green when they are on. You can also have switches use a vertical line to indicate when they're on and a circle to indicate when they're off.

1. Go to Settings  > Accessibility > Display & Text Size.
2. Turn on On/Off Labels.

To apply these settings to only the contents of the zoom window, see [Zoom in](#).

Make text easier to read on iPad

You can make it easier to read text on iPad by increasing its size, making it bold, and more.



Make text bigger and bolder

You can set a single preferred text size for all supported apps (including Calendar, Mail, Messages, Notes, Settings, and more). You can also turn on bold text.

1. Go to Settings  > Accessibility > Display & Text Size.
2. Do any of following:
 - *Make text bigger*: Tap Larger Text, then drag the slider to adjust the text size.

For additional text sizes, turn on Larger Accessibility Sizes.

- *Make text heavier*: Turn on Bold Text.

Tip: Change the size of text while you're in an app. [Open Control Center](#), then adjust the Text Size slider . If you don't see the Text Size slider, tap + in the top-left corner, tap Add a Control, then tap the Text Size control.

You can also [turn on Display Zoom](#) to increase the size of text as well as interface elements like icons and buttons.

Identify tappable text

You can underline any text that performs an action when you tap it.

1. Go to Settings  > Accessibility > Display & Text Size.
2. Turn on Button Shapes.

You can also [change display colors on iPad to make it easier to see what's onscreen](#) or [zoom in on the screen](#).

Stop or reduce onscreen motion on iPad

If you don't want visual motion on your iPad screen, 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 full-screen and bubble effects in the Messages app
- Animated images on the web and in apps

1. Go to Settings  > Accessibility > Motion.

2. These settings stop or reduce motion:

- *Reduce Motion*: Turn on. (When off, more items in the user interface animate, such as the parallax effect of icons.)
- *Auto-Play Message Effects*: Turn off. (When on, the Messages app automatically plays 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*: Turn off. (When on, it allows apps such as the App Store to automatically play video previews.)
- *Auto-Play Animated Images*: Turn off. (When on, rapid animated images and moving elements such as GIFs in Messages and Safari play automatically.)
- *Dim Flashing Lights*: Turn on. (The display of media automatically dims when flashes or strobe effects are detected.)
- *Prefer Non-Blinking Cursor*: Turn on. (Stop the blinking of the vertical bar that appears at the insertion point where you're typing. If you use a braille display with iPad, the cursor indicator on the display also stops blinking.)
- *Limit Frame Rate*: Turn on. (On [models with ProMotion display technology](#), this limits the maximum frame rate of the display to 60 frames per second.)

To apply these effects to specific apps, see [Customize visual accessibility settings for specific apps](#).

Important: Your iPad uses an on-device algorithm to detect flashing or strobing lights included in supported video content and automatically dims them on your iPad in real time. Motion settings should not be relied upon in circumstances where you could be harmed or injured, in high-risk situations, or for the treatment of any medical condition.

Use iPad more comfortably while riding in a vehicle

If you experience discomfort when you use iPad while riding as a passenger in a car or other on-road vehicle, you can turn on Vehicle Motion Cues—onscreen cues that may help reduce motion sickness. Vehicle Motion Cues appear as animated dots on the edges of the screen that represent how the vehicle is moving without interfering with what you're doing on iPad.

Note: Vehicle Motion Cues should not be used while operating a moving vehicle and in other situations requiring attention to safety. For important information about avoiding distractions that could lead to dangerous situations, see [Important safety information](#). Vehicle Motion Cues work best when you're seated facing forward in the vehicle.

1. Go to Settings  > Accessibility > Motion.
2. Tap Show Vehicle Motion Cues, then turn on Show Vehicle Motion Cues.
3. To show or hide Vehicle Motion Cues, [open Control Center](#), then tap .

Tip: You can also set up a shortcut to turn Vehicle Motion Cues on or off. See [Quickly turn accessibility features on or off](#).

Customize visual accessibility settings for specific apps on iPad

You can choose different color, text size, and motion settings for certain apps or for the Home Screen and App Library.

1. Go to Settings  > Accessibility > Per-App Settings.
2. Tap Add App, then choose an app from the list (or Home Screen & App Library).
3. Tap the name of the app (or Home Screen & App Library) to access its settings.

Hear iPad speak the screen, selected text, and typing feedback

Even if VoiceOver is turned off, you can have iPad read text on the screen out loud. Have iPad read the entire screen or a specific selection. Or hear what you type spoken out loud, character by character or word by word.

Have iPad speak onscreen text

1. Go to Settings  > Accessibility > Spoken Content.
2. Turn on any of the following:
 - *Speak Selection*: Have iPad speak the text you select.
 - *Speak Screen*: Have iPad read all text on the screen, starting from the top.

Turn on Speech Controller to keep the Speak Screen controls on the screen.

Turn on Highlight Content to have words or sentences highlighted as iPad reads them out loud.
 - *Typing Feedback options*: As you type, have iPad speak character by character, word by word, and more.
3. Do any of the following:
 - *Hear selected text (if you turned on Speak Selection)*: Select the text you want spoken, then tap Speak.
 - *Hear all text on the screen (if you turned on Speak Screen)*: Swipe down with two fingers from the top of the screen.

Use the controls that appear to pause speaking, adjust the rate, navigate forward or back to the content you want to hear, or use Speak on Touch (tap the text you want iPad to read).
 - *Hear what you type (if you turned on Typing Feedback options)*: Start typing.

Say something like: "Speak screen." [Learn how to use Siri.](#)

Change how Spoken Content sounds

1. Go to Settings  > Accessibility > Spoken Content.

2. Adjust any of the following:

- *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 audio descriptions for video content on iPad

If you can't see your screen and your content includes audio descriptions, you can listen to an audio description—a separate audio track that narrates or describes the visual content of a clip, show, or movie.

1. Go to Settings  > Accessibility > Audio Descriptions.
2. Turn on Audio Descriptions.

If you don't see audio descriptions, see the Apple Support article [Turn on audio descriptions on your iPhone or iPad](#).

If you're a content creator and want to add audio descriptions to a file, see [Add descriptive audio tracks](#) in the Compressor User Guide.

VoiceOver

Turn on and practice VoiceOver on iPad

With VoiceOver—a gesture-based screen reader—you can use iPad even if you can't see the screen. VoiceOver gives audible descriptions of what's on your screen—for example, hear the battery level, who's calling, or what item your finger is on. You can also customize the VoiceOver speaking voice 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 screen changes to landscape or portrait orientation, when the screen becomes dimmed or locked, and what's active on the Lock Screen when you wake iPad.

Turn VoiceOver on or off

Important: VoiceOver changes the gestures you use to control iPad. When VoiceOver is on, you must use VoiceOver gestures to operate iPad.

To turn VoiceOver on or off, do any of the following:

- Go to Settings  > Accessibility > VoiceOver, then turn VoiceOver on or off.
- Use [Control Center](#) if you've added VoiceOver there.
- Use [the Accessibility Shortcut](#) if you've set it up to turn on VoiceOver.

Say something like: "Turn on VoiceOver" or "Turn off VoiceOver." [Learn how to use Siri](#).

Siri knows when VoiceOver is on and often reads more information back to you than appears on the screen. You can also use VoiceOver to read what Siri shows on the screen.

Use an interactive tutorial to learn VoiceOver

You can learn VoiceOver basics and practice essential gestures with the interactive VoiceOver Tutorial.

With VoiceOver turned on, go to Settings  > Accessibility > VoiceOver, then tap VoiceOver Tutorial to get started.

Practice VoiceOver gestures

You can use the VoiceOver Practice area to safely try out VoiceOver gestures and hear what they do—without performing any action or otherwise affecting iPad.

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 iPad

You can customize the settings for VoiceOver, such as the audio options, language, voice, speaking rate, and verbosity.

Adjust the volume of VoiceOver speech and sounds

- To increase or decrease your iPad's volume, including the volume of VoiceOver speech and sounds, as well as all other iPad audio, press the volume buttons on iPad.
- To temporarily reduce the volume of other iPad audio while VoiceOver is speaking, go to Settings  > Accessibility > VoiceOver > Audio, tap Audio Ducking, then select When Speaking. Drag the Ducking Amount slider to set how much the volume decreases for other iPad audio—like media and calls—when VoiceOver is speaking.
- To set other audio options, go to Settings  > Accessibility > VoiceOver > Audio, then set options such as the following:
 - *Sounds*: Adjust and preview sound effects.
 - *Send to HDMI*: Route audio to externally connected devices, such as an instrument amplifier or a DJ mixer.

Set the VoiceOver language

- *Change the primary language:* VoiceOver uses the same language you choose for your iPad. To choose a different primary language, go to Settings  > General > Language & Region, then tap Add Language.
- *Switch languages using the rotor:* [Use the rotor](#) to switch to a voice for another language.
- *Automatically switch languages:* VoiceOver can detect text in another language and automatically switch to a voice for that language. Go to Settings > Accessibility > VoiceOver > Speech, then turn on Detect Languages.

Note: VoiceOver is not available in all languages. See the Apple Support article [Languages supported by VoiceOver](#).

Change the speaking voice

You can change the VoiceOver speaking voice, or add another voice [use the rotor](#) to switch between voices as needed.

1. Go to Settings  > Accessibility > VoiceOver.
2. Tap Speech, then do one of the following:
 - *Change the primary voice:* Tap the name of the current primary voice, then tap Voice.
 - *Add another voice:* Tap Add Rotor Voice.
3. Choose a voice. To choose an enhanced voice, tap  first.

Adjust the speaking voice

Go to Settings  > Accessibility > VoiceOver, then do any of the following:

- *Adjust the speaking rate:* Drag the Speaking Rate slider.
- *Adjust the pitch:* Tap Speech, tap a voice, then drag the slider. You can also turn on 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 > Verbosity, then do any of the following:

- *Change how VoiceOver speaks punctuation:* Tap Punctuation, then choose a group. You can also create new groups—for example, a programming group in which “[” is spoken as “left brack.”
- *Change how VoiceOver reads notifications:* Tap System Notifications. By default, VoiceOver reads notifications, including incoming text messages, as they occur—even if iPad is locked. Unacknowledged notifications are repeated when you unlock iPad.

- *Choose additional options:* Have VoiceOver speak hints, uppercase letters, embedded links, and more. VoiceOver can even confirm rotor actions and tell you when the flashlight is turned on.

Customize VoiceOver settings for an activity

You can customize a group of VoiceOver settings for an activity, such as programming. Then, when you open certain apps or adjust the rotor, the settings for speech, audio, verbosity, typing, navigation, and braille are applied automatically.

1. Go to Settings  > Accessibility > VoiceOver > Activities.
2. Choose an existing activity or tap Add Activity.
3. Adjust the settings, then below Automatic Switching, do any of the following:
 - *Apply the settings for certain apps:* Tap Apps, then select the ones you want this setting to apply to.
 - *Apply the settings for certain contexts:* Tap Context, then select one or more contexts, such as Word Processing, Messaging, or Console.

Use flat or grouped navigation

Go to Settings  > Accessibility > VoiceOver > Navigation Style, then choose one of the following:

- *Flat:* VoiceOver moves sequentially through each item on the screen when you use the move next and previous commands.
- *Grouped:* VoiceOver moves through items and groups of items on the screen. To move into a group, use a two-finger swipe right. To move out of a group, use a two-finger swipe left.

Set a delay between touching the screen and selecting an item

You can control the amount of time between when you touch the screen and when VoiceOver selects the item you've touched. Increasing this value may help reduce accidental touches.

Go to Settings  > Accessibility > VoiceOver, tap Delay before Selection, then tap  or  to increase or decrease the delay.

Adjust VoiceOver visuals

Go to Settings  > Accessibility > VoiceOver, then turn on any of the following:

- *Large Cursor:* If you have difficulty seeing the 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.

Use Quick Settings to adjust VoiceOver from anywhere on iPad

When VoiceOver is turned on, you can access Quick Settings by doing a two-finger quadruple tap.

To customize Quick Settings, do the following:

1. Go to Settings  > Accessibility > VoiceOver > Quick Settings.
2. Choose the settings you want, or drag  to reorder settings.

Use VoiceOver gestures on iPad

Use VoiceOver gestures on the screen

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.

Action	Gesture
Select and speak an item	Tap or touch the item
Select the next item	Swipe right
Select the previous item	Swipe left
Move into a group of items	Two-finger swipe right
Move out of a group of items	Two-finger 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

For more information about navigation styles, see [Use flat or grouped navigation](#).

Scroll up, down, left, and right

Use VoiceOver gestures to move to another page.

Action	Gesture
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.

Action	Gesture
Select an item	Tap
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.

Action	Gesture
Mute or unmute VoiceOver	Three-finger double tap. If both VoiceOver and Zoom are turned on, 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 black and appears to be turned off.)	Three-finger triple tap. If both VoiceOver and Zoom are turned on, 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 use handwriting to select an item by writing its name. If you use Braille Screen Input to type braille directly on the screen, when you're not entering text, you can type to search for an item. To dismiss the Item Chooser without making a selection, do a two-finger scrub (move two fingers back and forth three times quickly, making a "z").
Open the VoiceOver quick settings	Two-finger quadruple tap.
Start or stop Live Recognition	Four-finger triple tap. See Get live descriptions of your surroundings with VoiceOver .

Use the VoiceOver rotor

You can use the onscreen 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. See [Control VoiceOver using the rotor](#).

You can use these gestures with the rotor.

Action	Gesture
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 iPad when VoiceOver is on

When VoiceOver is on, you need to use special gestures to unlock iPad, go to the Home Screen, open Control Center, switch apps, and more.

Unlock iPad

- *On an iPad with a Home button:* Press the Home button using the finger you registered with Touch ID.
- *On an iPad with Touch ID:* Rest your finger on the top button using the finger you registered with Touch ID.
- *On an iPad with Face ID:* Wake iPad and glance at it, then drag up from the bottom edge of the screen until you hear two rising tones (if Face ID is enabled).

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

- Drag one finger up from the bottom edge of the screen until you hear two rising tones, then lift your finger.
- On an iPad with a Home button, press the Home button.

Use the dock

Slide one finger up from the bottom edge until you hear two rising tones, then swipe down.

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. To open the App Switcher, do one of the following:
 - Drag one finger up from the bottom edge of the screen until you hear three tones, then lift your finger.
 - Double-click the Home button (on an iPad with a 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.

Open Control Center

- Drag one finger down from the top edge of the screen until you hear two rising tones.
- Tap any item in the status bar, then swipe up with three fingers.

To dismiss Control Center, do a two-finger scrub (move two fingers back and forth three times quickly, making a "z").

View notifications

- Drag one finger down from the top edge of the screen until you hear three rising tones.
- Tap any item in the status bar, then swipe down with three fingers.

To dismiss the notifications screen, do a two-finger scrub (move two fingers back and forth three times quickly, making a "z").

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

Do one of the following:

- **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.

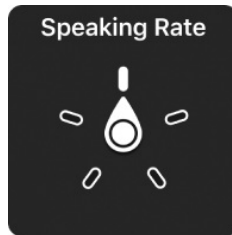
When you're finished, tap Done, then double-tap.

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 iPad

You can use the onscreen 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 an Apple external 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, swipe down or up to 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:* See [Change the speaking voice](#).
- *Have VoiceOver confirm rotor actions:* Tap Verbosity, then turn on Speak Confirmation.

Use the onscreen keyboard with VoiceOver on iPad

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. To enter text, do one of the following:

- *Standard typing:* Select a key by swiping left or right on the keyboard, 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, do one of the following:

- *Standard typing:* 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:* Do any of the following:
 - 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 (move two fingers back and forth three times quickly, making a "z") 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 iPad, 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.
 - *Verbosity:* Tap Deleting Text. To have VoiceOver speak deleted characters in a lower pitch, tap Change Pitch.

Write with your finger in VoiceOver on iPad

With handwriting mode in VoiceOver, you can enter text by writing characters on the screen with your finger. In addition to typing or dictation, use handwriting mode to enter your iPad 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 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 (move two fingers back and forth three times quickly, making a "z"), 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.

Keep the screen off when you use VoiceOver on iPad

If you use VoiceOver on iPad, and don't need to see what's on the screen, you can turn on the screen curtain to improve battery life and maintain privacy. When the screen curtain is on, your iPad is active even though the display is off.

With VoiceOver on, triple-tap with three fingers to turn the screen curtain on or off. If both VoiceOver and the Zoom feature are turned on, quadruple-tap with three fingers.

Use VoiceOver on iPad with an Apple external keyboard

If you [use an Apple external keyboard](#) with iPad, you can use keyboard shortcuts 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 > Typing > 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" below.

VoiceOver keyboard commands

You can control VoiceOver using key combinations.

(VO = modifier keys)

Action	Shortcut
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 Search	Option-Up Arrow
Open the App Switcher	VO-H-H
Switch apps	Command-Tab or Command-Shift-Tab
Open the Item Chooser	VO-I
Change the label of the selected item	VO-Slash
Start, stop, or pause an action	VO-Hyphen
Swipe up or down	VO-Up Arrow or VO-Down Arrow
Turn the rotor left or right	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-Fn-Hyphen (or VO-Globe key-Hyphen, depending on your keyboard)
Return to the previous screen	Esc

Quick Nav using the arrow keys

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

Action	Shortcut
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

Single-key Quick Nav for web browsing

To navigate a webpage quickly, turn on Quick Nav (VO-Q), then press keys on the keyboard to navigate to specific item types, such as headings or links. To move to the previous item, hold the Shift key as you press a key for the item type.

Item type	Shortcut
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.

Action	Shortcut
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

Use a braille display with VoiceOver on iPad

With VoiceOver, you can connect a Bluetooth® wireless refreshable braille display and use it to control and navigate iPad and read what's on the screen. The braille you type on the display is automatically translated into text, and the display shows what you're typing in context. You can read and type using contracted or uncontracted braille, with support for many international braille tables.

For a list of supported braille displays, see the Apple Support article [Braille displays supported by iPhone, iPad, and iPod touch](#).

Connect a braille display and learn commands to control iPad

1. Turn on the braille display.
2. On iPad, go to Settings  > Bluetooth, turn on Bluetooth, then choose the display.
3. On iPad, go to Settings > Accessibility > VoiceOver > Braille, then choose the display.
4. To see the braille commands for controlling iPad, tap More Info, then tap Braille Commands.

See the Apple Support article [Common braille commands for VoiceOver on your iPhone, iPad, and iPod touch](#).

Change the braille display settings

1. On iPad, go to Settings  > Accessibility > VoiceOver > Braille.

2. Set any of the following:

Setting	Description
Match Input and Output Tables	Set the braille display to use the same method for both the input and the output.
Output	Choose the braille table you want to use to read braille output. You can choose from tables for additional languages as well as six-dot or eight-dot and contracted or uncontracted braille.
Input	Choose the braille table you want to use to type braille input. You can choose from tables for additional languages as well as six-dot or eight-dot and contracted or uncontracted braille.
Braille Screen Input	Choose the input method for entering braille using the screen. See Type braille on the screen .
Braille Tables	Add tables to the braille table rotors.
Automatic Translation	Turn this option on to automatically translate the braille you type into text soon after you stop typing.
Status Cells	Turn on the general and text status cells and choose their location.
Equations use Nemeth Code	Turn on Nemeth Code for mathematical equations.
Show On-screen Keyboard	Display the keyboard on the screen.
Turn Pages when Panning	Automatically turn pages when panning.
Word Wrap	Wrap words to the next line.
Braille Alert Messages	When turned on, your braille display shows an alert message for the specified duration.
Ignore Chord Duration	Adjust the amount of time required before subsequent key presses are recognized as braille chords.
Auto Advance Duration	Adjust this setting to your preferred reading speed.
Sound Curtain	When a braille display is connected to iPad, mute most sounds. Emergency alerts will still play sounds.
Enable Bluetooth on Start	Automatically turn on Bluetooth when you turn on VoiceOver so that braille displays can connect to iPad.

Output closed captions in braille during media playback

1. On iPad, go to Settings  > Accessibility > VoiceOver > Verbosity.
2. Choose Braille or Speech and Braille.

Use a 2D braille display

If you use a supported 2D braille display, you can use the rotor to switch between different output modes, such as the mode for displaying images or the mode for reading text on multiple lines.

1. [Connect your braille display](#) to iPad.
2. With VoiceOver turned on, use the Braille Text Mode rotor to switch between output modes. See [Control VoiceOver using the rotor](#).

Type braille directly on the iPad screen with VoiceOver

When you turn on Braille Screen Input in VoiceOver, you can use your fingers to type braille directly on the iPad screen, without a physical braille keyboard. You can also use Braille Screen Input to enter braille commands for navigating and controlling your iPad.

Type braille on the screen

1. With VoiceOver turned on, do one of the following to start Braille Screen Input:
 - *Use a gesture:* Place one finger from each hand at the top and bottom edges of the screen and double-tap. If the gesture doesn't work, go to Settings  > Accessibility > VoiceOver > Braille. Tap Braille Screen Input, then turn on Use Activation Gestures.
 - *Use the rotor:* When you're in a text input area, [set the rotor](#) to Braille Screen Input. If Braille Screen Input isn't in the rotor, go to Settings  > Accessibility > VoiceOver > Rotor. Tap Rotor Items, then select Braille Screen Input.
2. Place iPad in one of the following positions:
 - *Tabletop mode:* Lay iPad flat in front of you.
 - *Screen away mode:* Hold iPad in landscape orientation with the screen facing away from you. Your fingers wrap around the sides of iPad to tap the screen.

3. Enter braille characters by tapping the screen with one or more fingers at the same time.

Tip: To hear where each dot is located, touch and hold, then drag your finger around the screen. To move the entry dots to match your natural finger positions, double-tap all six typing fingers at the same time (your right three fingers for dots 4, 5, and 6, and your left three fingers for dots 1, 2, and 3).

You can also use gestures to perform actions such as the following:

Action	Gesture
Enter a space	Swipe right with one finger; in screen away mode, swipe to <i>your</i> 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
Cycle through modes (like Braille Entry Mode and Command Mode)	Swipe left or right with three fingers
Translate immediately (if you're typing contracted braille)	Swipe down with two fingers
Switch to the next braille table	Swipe up with two fingers

4. To exit Braille Screen Input, slide two fingers in opposite directions, or do a two-finger scrub (draw the letter "z" by quickly moving two fingers back and forth three times).

Tip: You can view and edit the commands and gestures you can perform when Braille Screen Input is turned on. Go to Settings > Accessibility > VoiceOver > Commands > Braille Screen Input.

Type on the screen to enter braille commands

With Braille Screen Input Command Mode, you can control iPad by typing braille commands on the screen. You can use the same commands you use with a refreshable braille display.

1. With VoiceOver turned on, place one finger from each hand at the top and bottom edges of the screen and double-tap to start Braille Screen Input.
2. Switch to Command Mode by swiping left or right with three fingers.
3. Type braille commands directly on the screen.

See the Apple Support article [Common braille commands for VoiceOver on your iPhone, iPad, and iPod touch](#).

Change Braille Screen Input settings

1. Go to Settings  > Accessibility > VoiceOver > Braille > Braille Screen Input.

2. Set any of the following:

- *Use Activation Gestures*: To start Braille Screen Input, place one finger from each hand at the top and bottom edges of the screen and double-tap. If this option is off, use the rotor to start Braille Screen Input.
- *Start Automatically when Editing*: Have Braille Screen Input start automatically when you enter a text input area.
- *Keep Active until Dismissed*: After you launch an app or choose an item in Braille Entry Mode, automatically switch to Command Mode and keep it active.
- *Reverse Dot Positions*: For six-dot braille, swap the positions of dots 1 and 3, and dots 4 and 6.
- *Visual Text Feedback*: As you type in braille, display a text translation of what you're typing.
- *Typing Feedback*: Get sound or haptic feedback as you enter text with Braille Screen Input.
- *Mode announcements*: When you switch Braille Screen Input modes, have VoiceOver speak, play sounds, or both.
- *Braille table*: Set the method for braille screen input.

Customize VoiceOver gestures and keyboard shortcuts on iPad

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 on iPad with a pointer device

If you use a pointer device with iPad, you can adjust how it works with VoiceOver.

1. Go to Settings  > Accessibility > VoiceOver.

2. Below Pointer Control, tap any of the following:

- *Pointer*: Set the pointer to ignore, follow, or move the VoiceOver cursor.
- *Speak Under Pointer*: You can adjust the delay to speak the item under the pointer.

Get live descriptions of your surroundings with VoiceOver on iPad

If you're blind or have low vision, you can use VoiceOver Recognition on iPad to scan your surroundings and get live descriptions of the scenes detected in the camera view. You can also get descriptions of onscreen images and user interface elements, even in apps and on webpages that don't provide accessibility information.

Important: VoiceOver Recognition should not be relied upon in circumstances where you could be harmed or injured, in high-risk situations, for navigation, or for the diagnosis or treatment of any medical condition.

Get live descriptions of your surroundings

1. With VoiceOver on, triple-tap the screen with four fingers to start Live Recognition.
2. Choose the kinds of visual information you want VoiceOver to describe, like scenes, people, doors, furniture, or text. At the bottom of the screen, select a category, then double-tap to turn it on or off. If you turn on Point & Speak, you can point your finger at text and have VoiceOver read it aloud.

Note: Detection of people, doors, and furniture is available only on [supported iPad models](#).

3. Position iPad so the rear camera can detect what's around you. VoiceOver describes what it detects.

To interrupt VoiceOver speech and move to the next detected item, tap the screen with two fingers.

4. To turn off Live Recognition, triple-tap the screen with four fingers. Or if the VoiceOver cursor is focused on an interface element for Live Recognition, do a two-finger scrub (move two fingers back and forth three times quickly, making a "z").

Tip: You can set up a shortcut to quickly start and stop Live Recognition. See [Set up shortcuts for Live Recognition](#).

You can also use Detection Mode in the Magnifier app to detect and describe scenes, people, and more. See [Get live descriptions of visual information around you with Magnifier](#).

To change Live Recognition settings, go to the Magnifier app , tap , then tap Detect. Tap [Scenes](#), [People](#), [Doors](#), [Furniture](#), [Text](#), or [Point & Speak](#).

Get descriptions of images in apps and on the web

With VoiceOver Recognition, you can get descriptions of the people, objects, and text in images in apps and on webpages, even if they don't provide accessibility information. You can move your finger over a photo to discover a person's position relative to other objects, or navigate nutrition labels and receipts in the order items are listed.

1. Go to Settings  > Accessibility > VoiceOver > VoiceOver Recognition, then turn on Image Descriptions.
2. To get descriptions of text found in images, turn on Text Recognition.
3. Go to an app such as Photos  or Safari , then select an image.
4. Swipe up to hear more options, then double-tap when you hear Explore Image
5. Move your finger around the image to find out the position of each object.

You can [add custom descriptions](#) to your images with Markup.

Note: Image Descriptions are not available in all languages. See the [iOS and iPadOS 18 Feature Availability](#) webpage.

Get descriptions of user interface elements

With VoiceOver Recognition, you can get descriptions of user interface elements in apps and on webpages, even if they don't provide accessibility information.

1. Go to Settings  > Accessibility > VoiceOver > VoiceOver Recognition.
2. Turn on Screen Recognition.

Use VoiceOver in apps on iPad

You can use VoiceOver in all the built-in apps that come with your iPad—such as Safari, Maps, and more. With VoiceOver Recognition, you can get descriptions of images and screen elements on webpages and in apps, even if they don't provide accessibility information.

Browse the web in Safari

1. With VoiceOver on, go to the Safari app  on your iPad.
2. Do any of the following:
 - *Search the web:* Select the address field, double-tap to show the keyboard, then enter a search term, phrase, or URL. Double-tap Go, or select a search suggestion, then double-tap.
 - *Skip to the next element on a webpage:* 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. Select or deselect items, 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:* In the Safari address field, select the Format Options button, double-tap, select Show Reader View (not available for all webpages), then double-tap.

Tip: If you [use an Apple external keyboard](#) with iPad, you can [use single-key Quick Nav for web browsing](#).

Navigate in Maps

1. With VoiceOver on, go to the Maps app  on your iPad.
2. Do any of the following:
 - *Control how the map tracks your current location:* Select , then 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, iPad 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 up or down with one finger.
 - *Pan the map:* Select the map, then swipe with three fingers.
 - *Browse locations and pins on the map:* Select the map, 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.
 - *Get information about a location:* Select the location (for example, a business, landmark, or pin), then double-tap to open the information card. Swipe left or right to hear information such as directions, street address, phone number, business hours, and customer reviews.
 - *Get guidance to the starting point:* When you start walking directions in Maps, iPad guides you in the direction of the starting point using sound.

Read PDFs

In the Books and Files apps, you can use VoiceOver to read PDFs. VoiceOver even describes detailed information—such as forms, tables, and lists.

Take photos and videos

1. With VoiceOver on, go to the Camera app  on your iPad. VoiceOver describes objects in the viewfinder.
2. Select Camera Mode, then swipe up or down with one finger to switch between modes, like Photo or Video.
3. To take a photo or start or stop recording a video, double-tap the screen with two fingers.

Trim voice memo recordings

You can use VoiceOver to edit recordings in the Voice Memos app.

1. With VoiceOver on, go to the Voice Memos  app on your iPad.
2. Select the recording you want to trim, then double-tap.
3. Select Edit at the top right, then double-tap.

4. Select , then double-tap.
5. In the Waveform Overview, select Trim Beginning or Trim End, double-tap and hold, then swipe up or down to adjust the start or end time.
6. Select Trim, then double-tap.
7. Select Save, then double-tap.
8. Select Done, then double-tap.

Hear visual Weather data as sound

Some maps in the Weather app are encoded to allow you to hear the data as a changing tone or pitch. For example, as intensity of weather condition changes in a visual animation on screen, you can have these described using variations in sound.

1. With VoiceOver on, go to the Weather app  on your iPad.
2. Open a location page with a precipitation, wind, or air quality map.
3. Double-tap and hold the map until you hear a tone or the words "Weather Map Snapshot." If you hear spoken instructions, follow them.

As you run your finger or pointer over a sonified map, the pitch shifts to represent the changing values.

Read math equations

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. To drill down into the selected element, double-tap it, then swipe left or right to read one part of the element 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](#).

Use VoiceOver Recognition

With VoiceOver Recognition, you can get descriptions of images and screen elements on webpages and in apps, even if they don't provide accessibility information.

Important: VoiceOver Recognition should not be relied upon in circumstances where you could be harmed or injured, in high-risk situations, for navigation, or for the diagnosis or treatment of any medical condition.

1. Go to Settings  > Accessibility > VoiceOver > VoiceOver Recognition.
2. Turn on any of the following:
 - *Image Descriptions:* Get descriptions of images in apps and on the web.
 - *Screen Recognition:* Get descriptions of screen elements in apps.
 - *Text Recognition:* Get descriptions of text found in images.
3. Tap Feedback Style, then choose Speak, Play Sound, or Do Nothing.

Mobility

Accessibility features for mobility on iPad

With built-in accessibility features for mobility, you can navigate and interact with iPad using just your eyes, spoken commands, assistive devices, an external keyboard, and more. You can also set options so it's easier to use gestures and press iPad buttons.

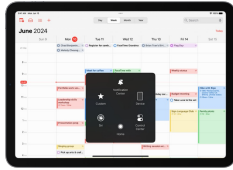
To explore accessibility features for mobility, go to Settings ⓘ > Accessibility, then scroll down to the Physical and Motor section.

Action	Related features and settings
Navigate your iPad hands-free	• Eye Tracking • Voice Control • Siri • Shortcuts • Call audio routing • Use simple sounds to perform gestures
Let iPad type for you	• Dictation • Predictive text • Scribble
Connect other inputs	• Switch Control • Keyboards • Bluetooth accessories • Head tracking • Eye-tracking device • iPad keyboards
Control other devices	• Apple TV Remote • Platform Switching
Customize gestures	• AssistiveTouch • AirPods • Pointer scrolling speed • Home or top button • Face ID and attention
Adjust the sensitivity of your input	• Slow Keys and Sticky Keys • Siri Pause Time • Touch accommodations

Tip: Control your go-to accessibility features and settings with the click of a button or from Control Center. See [Quickly open features with Accessibility Shortcut](#).

Use AssistiveTouch on iPad

With AssistiveTouch on iPad, you can adapt the touchscreen to fit your needs. If certain gestures don't work for you, replace them with a tap or alternate gesture, or use a simple sound. You can also use AssistiveTouch when you need to press iPad buttons. You can use AssistiveTouch without any accessory or with a compatible adaptive accessory (such as a joystick).



You can use AssistiveTouch to perform actions such as the following:

- Go to the Home Screen
- Double-tap
- Perform multifinger gestures
- Perform scroll gestures
- Activate Siri
- Access Control Center, notifications, the Lock Screen, or the App Switcher
- Adjust the volume on iPad
- Shake iPad
- Take a screenshot
- Use Apple Pay
- Speak screen
- Adjust dwell settings
- Control Analytics
- Restart iPad

Set up AssistiveTouch

Say something like: “Turn on AssistiveTouch” or “Turn off AssistiveTouch.” [Learn how to use Siri.](#)

Or do the following:

1. Go to Settings  > Accessibility > Touch > AssistiveTouch.
2. Turn on AssistiveTouch. The AssistiveTouch menu button  appears on the screen.

3. To customize AssistiveTouch, tap any of the following:

- *Customize Top Level Menu:* Tap an icon to change its action. Tap  or  to change the number of icons in the menu. The menu can have up to eight icons.
- *Single-Tap, Double-Tap, or Long Press:* 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.
- *Virtual Trackpad:* Turn a small region of the screen into a resizable trackpad. See [Use an adjustable onscreen trackpad on iPad](#).
- *Confirm with AssistiveTouch:* On an [iPad with Face ID](#), use AssistiveTouch to confirm payments with Face ID instead of double-clicking the top button. Or on iPad (10th generation and later), iPad mini (6th generation), iPad mini (A17 Pro), and iPad Air (4th generation and later), use AssistiveTouch to confirm payments with your passcode instead of double-clicking the top button.

Tip: To quickly turn AssistiveTouch on or off, you can [set up the Accessibility Shortcut](#), then triple-click the top or Home button.

Use AssistiveTouch

When AssistiveTouch is on, tap the AssistiveTouch menu button , then choose an action or gesture.

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.

To move the AssistiveTouch menu button, drag it to a new location on the screen.

For a multifinger gesture, do the following:

- *Pinch and Rotate:* Tap Custom, then tap Pinch and Rotate. When the two pinch circles appear, touch anywhere on the screen to move the pinch circles, then drag them in or out to perform a pinch or rotate 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.

Control iPad with a pointer device

You can connect Bluetooth® and USB assistive pointer devices, such as trackpads, game controllers, and mouse devices.

1. Go to Settings  > Accessibility > Touch > AssistiveTouch.
2. Turn on AssistiveTouch.

3. 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.
- *Pointer Style*: Adjust the size, color, and auto-hide settings.
- *Show Onscreen Keyboard*: Display the onscreen keyboard.
- *Sound on Click*: Play a sound when the pointer device is clicked.
- *Always Show Menu*: Show the AssistiveTouch menu when a pointer device is connected.
- *Tracking Sensitivity*: Adjust how quickly the pointer moves when you drag the mouse or your finger on the trackpad.

You can also [change the appearance of the pointer](#).

Set up Dwell Control

iPad performs a selected action when you hold the cursor still on a screen element or an area of the screen.

1. Go to Settings  > Accessibility > Touch > AssistiveTouch, then turn on Dwell Control.
2. Adjust any of the following:
 - *Fallback Action*: Turn on to revert the dwell action to the selected fallback action after performing an operation.
 - *Movement Tolerance*: Adjust the distance the cursor can move while dwelling on an item.
 - *Hot Corners*: Perform a selected action—such as take a screenshot, open Control Center, activate Siri, scroll, or use a shortcut—when the cursor dwells in a corner of the screen.
 - *Time needed to initiate a dwell action*: Tap  or .

Use simple sounds to perform gestures

With AssistiveTouch, you can have iPad perform a gesture or other action when you make a simple sound, such as a mouth pop or an S-sound.

1. Go to Settings  > Accessibility > Touch > AssistiveTouch, then turn AssistiveTouch on.
2. Tap Sound Actions, then tap a sound.
3. Select the gesture or other action you want performed when you make the sound.
4. To perform the gesture or action, just make the sound.

Create custom gestures

You can add gestures you use often (such as touch and hold or two-finger rotation) to the AssistiveTouch menu. You can even create several gestures with, for example, 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 iPad 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 drag gestures, 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.

Use an adjustable onscreen trackpad on iPad

With Virtual Trackpad on iPad, you can turn a small region of the screen into a resizable trackpad, and use it to move and click an onscreen pointer.



Set up Virtual Trackpad

Before you can use Virtual Trackpad, you need to add it to AssistiveTouch.

1. Go to Settings  > Accessibility > Touch > AssistiveTouch.
2. Do any of the following:
 - *Add Virtual Trackpad to the AssistiveTouch menu*: Tap Customize Top Level Menu, tap , tap the + button that appears, then choose Virtual Trackpad.
 - *Set a custom action to open Virtual Trackpad*: Tap an action (such as double-tap or long press) below Custom Actions, then choose Virtual Trackpad.

Use Virtual Trackpad

1. Go to Settings  > Accessibility > Touch > AssistiveTouch.
2. Turn on AssistiveTouch.

3. Depending on how you [set up Virtual Trackpad](#), do one of the following to open it:
 - *Use the AssistiveTouch menu:* Tap the AssistiveTouch menu button , then tap Virtual Trackpad.
 - *Use the custom action you set:* Tap, double-tap, or long press the AssistiveTouch menu button .
4. Do any of the following:
 - Drag your finger on the trackpad to move the pointer.
 - Tap the trackpad to click at the location of the pointer.
 - Drag the arrows in the top-left corner of the trackpad to resize it.
 - Drag a border of the trackpad to move it.
5. To close Virtual Trackpad, repeat the action you use to open it.

Change Virtual Trackpad settings

1. Go to Settings  > Accessibility > Touch > AssistiveTouch.
2. Tap Virtual Trackpad.
3. Change any of the following:
 - *Tracking:* Adjust how quickly the pointer moves.
 - *Scrolling:* Adjust the scrolling speed. Or turn Natural Scrolling—content moves in the same direction as your fingers—on or off.
 - *Appearance:* Change how the trackpad looks, make it fill the entire screen, or adjust how long it takes for the trackpad to fade after you stop using it.

You can also [change the appearance of the pointer](#).

Control iPad with the movement of your eyes

With Eye Tracking, you can control iPad using just your eyes. An onscreen pointer follows the movement of your eyes, and when you look at an item and hold your gaze steady or *dwell*, you perform an action, such as a tap. All data used to set up and control Eye Tracking is processed on device.

Before you begin

Eye Tracking uses the built-in, front-facing camera on iPad. For best results, make sure that the camera has a clear view of your face and that your face is adequately lit. iPad should be on a stable surface about a foot and a half away from your face.

Eye Tracking is available with [supported iPad models](#).

Turn on Eye Tracking

1. Go to Settings  > Accessibility > Eye Tracking, then turn on Eye Tracking.
2. Follow the onscreen instructions to calibrate Eye Tracking. As a dot appears in different locations around the screen, follow its movement with your eyes.

Note: You need to calibrate Eye Tracking every time you turn it on.

Use Eye Tracking

After you turn on and calibrate Eye Tracking, an onscreen pointer follows the movement of your eyes. When you're looking at an item on the screen, an outline appears around the item.

When you hold your gaze steady at a location on the screen, the dwell pointer ● appears where you're looking and the dwell timer begins (the dwell pointer circle starts to fill). When the dwell timer finishes, an action—tap, by default—is performed.

To perform additional onscreen gestures or physical button presses, use the AssistiveTouch menu ■. See [Use AssistiveTouch](#).

Recalibrate Eye Tracking

If you change the position of your face or your iPad, Eye Tracking calibration automatically starts if recalibration is needed. You can also manually start Eye Tracking calibration.

1. Look at the top-left corner of your screen and hold your gaze steady.

The dwell pointer ● appears and the dwell timer begins (the dwell pointer circle starts to fill). When the dwell timer finishes, Eye Tracking calibration starts.

2. Follow the onscreen instructions to calibrate Eye Tracking. As a dot appears in different locations around the screen, follow its movement with your eyes.

You can change which corner of the screen you need to look at to start recalibration or assign actions to other corners. See [Set up Dwell Control](#).

Set options for Eye Tracking

You can set options for how the Eye Tracking pointer responds to your gaze.

1. Go to Settings ⓘ > Accessibility > Eye Tracking, then adjust any of the following:
 - *Smoothing*: Increase this value to make the movement of the pointer smoother. Or decrease this value to make the pointer more responsive.
 - *Snap to Item*: Have the Eye Tracking pointer automatically move to the item on the screen that's closest to where you're looking.
 - *Zoom on Keyboard Keys*: When you dwell on the keyboard, zoom in on the section of the keyboard you're looking at. Dwell again on a key to tap it.
 - *Auto-Hide*: Show the Eye Tracking pointer when you hold your gaze steady for the amount of time specified. When your eyes are moving, the pointer automatically fades.
 - *Dwell Control*: Turn Dwell Control on or off. To adjust settings for Dwell Control, such as the default dwell action and the duration of the dwell timer, see [Set up Dwell Control](#).

To change the size or color of the Eye Tracking pointer, go to Settings > Accessibility > Pointer Control. See [Make the pointer easier to see](#).

Use an external eye-tracking device with iPad

You can also use a [Made for iPhone \(MFi\)](#) eye-tracking device to control iPad.

1. Follow the eye-tracking device manufacturer's instructions to connect your device to iPad with a Lightning or USB-C connector (depending on your iPad model).

2. Set up your eye-tracking device using the device's companion app.
3. Go to Settings  > Accessibility > Touch > AssistiveTouch, then [turn on AssistiveTouch](#).
4. If you want to be able to interact with an item on the screen when you hold your gaze steady on the item, turn on Dwell Control.

To adjust settings for Dwell Control, such as the default dwell action and the duration of the dwell timer, see [Set up Dwell Control](#).

5. To set additional options for your eye-tracking device, tap Devices (below Pointer Devices), tap the name of the device, then adjust any of the following:
 - *Customize Additional Buttons*: Perform actions using a physical switch (if supported by your eye-tracking device).
 - *Snap to Item*: Have the pointer automatically move to the item on the screen that's closest to where you're looking.
 - *Auto-Hide*: Show the pointer when you hold your gaze steady for the amount of time specified. When your eyes are moving, the pointer automatically fades.

To change the color and size of the pointer, go to Settings > Accessibility > Pointer Control. See [Adjust pointer settings](#).

Adjust how iPad responds to your touch

If you have difficulties with hand tremors, dexterity, or fine motor control, you can adjust how the iPad touchscreen responds to tap, swipe, and touch-and-hold gestures. You can have iPad recognize faster or slower touches and ignore multiple touches. You can also prevent iPad from waking when you touch the screen, or turn off Shake to Undo if you unintentionally shake iPad.

Adjust settings for taps, swipes, and multiple touches

1. Go to Settings  > Accessibility > Touch > Touch Accommodations, then turn on Touch Accommodations.

2. You can configure iPad to do any of the following:

- *Respond to longer or shorter touches:* Turn on Hold Duration, then tap  or  to adjust the duration.
- *Prevent unintended swipe gestures:* If you turn on Hold Duration (above), you can increase the amount of movement required before a swipe gesture begins. Tap Swipe Gestures, turn on Swipe Gestures, then adjust required movement.
- *Treat multiple touches as a single touch:* Turn on Ignore Repeat, then tap  or  to adjust the amount of time allowed between multiple touches.
- *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, iPad 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, iPad registers the tap where you lift your finger. iPad responds to a tap when you lift your finger within a certain period of time. Tap  or  to adjust the timing. Your iPad can respond to other gestures, such as a drag gesture, if you wait longer than the gesture delay.

Adjust settings for touch-and-hold gestures

You use the touch-and-hold gesture to see additional options or actions you can perform, or show a preview of content. If you have trouble performing this gesture, do the following:

1. Go to Settings  > Accessibility > Touch > Haptic Touch.
2. Choose the touch duration—Fast or Slow.
3. Test your new settings on the image at the bottom of the screen.

Turn off Tap to Wake

On a [supported iPad model](#), you can prevent touches on the screen from waking iPad. Go to Settings  > Accessibility > Touch, then turn off Tap to Wake.

Turn off Shake to Undo

If you tend to unintentionally shake iPad, you can turn off Shake to Undo. Go to Settings  > Accessibility > Touch.

Tip: To undo text edits, swipe left with three fingers.

Route and automatically answer calls on iPad

You can automatically direct the audio of FaceTime calls to the iPad speaker, a Bluetooth® headset, or your hearing device. iPad can also automatically answer calls after a length of time you set.

1. Go to Settings  > Accessibility > Touch > Call Audio Routing, then choose an audio destination.
2. Tap Auto-Answer Calls, turn on Auto-Answer Calls, then set the duration of time before the call is answered by tapping  or .

During a call, you can switch the audio routing from your hearing aid to the iPad speaker by removing the hearing aid from your ear.

Change Face ID and attention settings on iPad

On an iPad with Face ID, you can adjust Face ID and attention settings if you have physical or vision limitations.

Set up Face ID with Accessibility Options

Setting up Face ID usually 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 when you unlock iPad.

Change attention settings

For additional security, Face ID is *attention-aware*. It unlocks iPad only when your eyes are open and looking at the screen. iPad 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 iPad to check for your attention, do the following:

1. Go to Settings  > Face ID & Passcode.
2. Turn on or off any of the following:
 - Require Attention for Face ID
 - Attention Aware Features

These settings are turned off by default if you turn on VoiceOver when you first set up iPad.

Note: Requiring attention makes Face ID more secure.

Use Voice Control commands to interact with iPad

After you turn on Voice Control on your iPad, you can speak commands to interact with what's on the screen, perform gestures and button presses, dictate and edit text, and more.

Note: When Voice Control is on, you use Voice Control to dictate text; standard iPadOS Dictation isn't available. If you just want to enter text using Dictation, without controlling your iPad with your voice, see [Dictate text](#). Voice Control isn't available in all languages. See the [iOS and iPadOS Feature Availability website](#).

Set up Voice Control

Before you turn on Voice Control for the first time, make sure iPad is connected to the internet over a Wi-Fi network. After iPad completes a one-time file download from Apple, you don't need an internet connection to use Voice Control.

1. Go to Settings  > Accessibility > Voice Control.
2. Tap Set Up Voice Control, then tap Continue to start the file download.

When the download is complete,  appears in the status bar to indicate that Voice Control is turned on.

3. Set options such as the following:
 - *Language*: Set the language and download languages for offline use.
 - *Customize Commands*: View the available commands and create new commands.
 - *Vocabulary*: Teach Voice Control to recognize new words and phrases. You can enter a word or phrase and teach Voice Control how you pronounce it, or import a vocabulary list.

Note: Not all Voice Control languages support a custom vocabulary.
 - *Show Confirmation*: When Voice Control recognizes a command, a visual confirmation appears at the top of the screen.
 - *Play Sound*: When Voice Control 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*: On an [iPad with Face ID](#), Voice Control wakes up when you look at your iPad and goes to sleep when you look away.

Turn Voice Control on or off

After you set up Voice Control, you can turn it on or off quickly by doing any of the following:

- Use [Control Center](#) if you've added it there.
- Use [Accessibility Shortcut](#) if you've set it up.

Say something like: "Turn on Voice Control" or "Turn off Voice Control."
[Learn how to use Siri.](#)

Start using commands

To use Voice Control on your iPad, just say a command.

 **Voice Control**: Say, for example, "Open Control Center," "Go home," "Tap *item name*," or "Turn up volume."

Tip: Use the interactive Voice Control Tutorial to get familiar with Voice Control and practice essential commands. Go to Settings  > Accessibility > Voice Control, then tap Open Voice Control Tutorial.

Pause or resume Voice Control

Pause Voice Control when you don't want words you say to be interpreted as commands or dictation. Resume Voice Control when you're ready for it to listen for commands and dictation again.

 **Voice Control**: Say "Stop listening" or "Start listening."

See what commands you can use

Display a list of the available commands, which vary depending on the app you're working in and what you're doing. For example, you see text formatting commands while writing a document.

 **Voice Control:** Say "Show commands."

To browse the full list of supported commands and see examples of how to use them, go to Settings  > Accessibility > Voice Control > Commands.

Label onscreen items

When you're not sure what to call something, you can display a name or number next to each item on the screen. You can then use the item's name or number to interact with it.

 **Voice Control:** Say "Show names" or "Show numbers."

To interact with an item, say its name or number, or say a command—such as "Long press"—followed by the item's name or number. The item names or numbers disappear after you say the command.

Show a numbered grid on the screen

You can make it easier to interact with a precise area of the screen by superimposing a grid.

 **Voice Control:** Say "Show grid."

- *Interact with a location on the grid:* If a number is at the location you want to interact with, say any command—such as "Tap"—followed by the grid number. The grid disappears after you say the command.
- *Drill down on an area of the grid:* If you need to further refine the location, say a grid number to show a more detailed grid in that area.

Say "Hide names," "Hide numbers," or "Hide grid" to turn the overlay off.

Enter text

When working in a text input area, you can dictate word by word (with Dictation mode) or character by character (with Spelling mode). To avoid mistakenly entering a Voice Control command as text, have Voice Control respond only to commands (with Command mode).

When you're in a text input area and [label onscreen items with numbers](#), numbers are shown next to each line of text. Select a line or another section of the text to display a number for each word in the selection; select a single word to show a number for each character in the word. To interact with a text item (such as a line or a word), say a command followed by the item's name or number. For example, you can say "Delete [*item number*]" or "Uppercase [*item number*]."

Command	Description
 Voice Control: Say "Dictation mode."	Dictate word by word. Any words you say that aren't Voice Control commands are entered as text. Dictation mode is on by default. In some Voice Control languages, if several words phonetically match what you say, they appear onscreen. Tap to choose the one you want.

Command	Description
 Voice Control: Say “Spelling mode.”	Dictate character by character. Spelling mode is helpful when you need to enter a password, a web address, or another sequence of characters that wouldn't be recognized as a word in Dictation mode. When Spelling mode is on,  appears in the text input area. To increase accuracy when entering letters, you can use the letter's phonetic alphabet code word (for example, say “Alfa Bravo Charlie” to enter “abc”). <i>Note:</i> Spelling mode isn't available in all Voice Control languages.
 Voice Control: Say “Command mode.”	Voice Control responds only to commands. Words and characters that aren't commands are ignored and aren't entered as text. Command mode is helpful when you need to say a series of commands and don't want them inadvertently entered in a text input area. When Command mode is on,  appears in the text input area to indicate you can't dictate to enter text.

Adjust settings for the top or Home button

You can adjust accessibility settings for the Home button (on an iPad that has one) or top button (on other iPad models).

- Go to Settings  > Accessibility, then tap Home Button (on an iPad with a Home button) or Top Button (on other iPad models).
- Set any of the following:
 - Click Speed:* Choose the speed required to double-click or triple-click the button—Default, Slow, or Slowest.
 - Press and Hold to Speak:* Choose whether Siri responds when you press and hold the button.
 - Rest Finger to Open:* On an [iPad with Touch ID](#), you can unlock and open iPad by resting your finger on Touch ID.

On an [iPad with Face ID](#), you can also [use AssistiveTouch](#) or [use Switch Control](#) to confirm payments with Face ID instead of double-clicking the top button.

Use buttons on the Apple TV Remote on iPad

On the Apple TV Remote on iPad, you can use buttons instead of swipe gestures.

Go to Settings  > Accessibility > Apple TV Remote, then turn on Directional Buttons.

Make the pointer easier to see when using a mouse or trackpad with iPad

If you have difficulty seeing or following the pointer when you [use a mouse or trackpad](#) with iPad, you can change its size and color so it's easier to locate on the screen.

Go to Settings  > Accessibility > Pointer Control, then adjust any of the following:

- Increase Contrast
- Automatically Hide Pointer
- Color
- Pointer Size
- Pointer Animations
- Trackpad Inertia (available when a supported multi-touch trackpad is connected)
- Scrolling Speed

To customize the buttons of the pointing device, go to Settings > Accessibility > Touch > AssistiveTouch > Devices.

Adjust the onscreen and external keyboard settings for accessibility on iPad

You can set the onscreen keyboard on iPad to show only uppercase letters, and if you use a physical keyboard with your iPad, adjust key sensitivity and make it easier to press combinations of keys.

You can also [set typing options](#), such as auto-correction and slide to type, and [add keyboards](#) for other languages or alternative layouts.

Set the onscreen keyboard to display only uppercase letters

If it's easier to read uppercase letters, you can set an option so the onscreen keyboard doesn't display lowercase letters.

Go to Settings  > Accessibility > Keyboards, then turn off Show Lowercase Keys.

Tip: Rotate iPad to landscape orientation to use a larger keyboard for typing in many apps, including Mail, Messages, Notes, and Safari. See [Change or lock the screen orientation](#).

Change how the keys respond on an external keyboard

If you [use a physical keyboard](#) with iPad, you can adjust the sensitivity of keys and make it easier to press combinations of keys.

Go to Settings  > Accessibility > Keyboards, then tap any of the following:

- **Key Repeat:** You can set how long you must press and hold a key before it starts repeating and how fast it repeats once it starts. You can also prevent the key from repeating at all.
- **Sticky Keys:** When you need to press multiple keys at the same time, you can press each key separately instead. For example, enter the keyboard shortcut Command-Z by pressing Command, then pressing Z.
- **Slow Keys:** Adjust the time between when you press a key and when it's activated.

Control iPad with an external keyboard

If you [use a physical keyboard](#) with iPad, you can use Full Keyboard Access to control your device with keyboard shortcuts instead of the touchscreen. Full Keyboard Access highlights the item on the screen that has focus.

Control iPad using Full Keyboard Access

1. Go to Settings  > Accessibility > Keyboards, tap Full Keyboard Access, then turn on Full Keyboard Access.
2. Navigate iPad using the following default commands.

Action	Shortcut
View available Full Keyboard Access commands	Tab-H
Move forward	Tab
Move backward	Shift-Tab
Activate the selected item	Space bar
Go to the Home Screen	Fn-H
Open the App Switcher	Fn-Up Arrow
Open Control Center	Fn-C
Open Notification Center	Fn-N

Customize Full Keyboard Access

You can change the keyboard shortcuts associated with Full Keyboard Access commands, and customize the appearance of Full Keyboard Access (such as the color, contrast, and size of the highlight).

1. Go to Settings  > Accessibility > Keyboards, then tap Full Keyboard Access.
2. Do any of the following:
 - *View a complete list of Full Keyboard Access commands and customize them:* Tap Commands.
 - *Change the look of Full Keyboard Access:* Tap an option below Appearance.

Adjust the accessibility settings for AirPods

on iPad

With AirPods 3 or later, AirPods Pro, or AirPods Max, you can adjust the accessibility settings to suit your mobility or hearing needs.

1. Go to Settings  > Accessibility > AirPods.
2. If you have multiple AirPods, select one.
3. Set any of the following options:
 - *Press Speed*: Adjust how quickly you must press two or three times before an action occurs.
 - *Press and Hold Duration*: Adjust the duration required to press and hold on your AirPods.
 - *Noise Cancellation with One AirPod*: With AirPods Pro, turn on noise cancellation even when you're using only one of your AirPods.
 - *Spatial Audio Head Tracking*: When you turn on Follow iPad, Spatial Audio sounds like it's coming from your iPad instead of following the movement of your head (for supported audio and video content).
 - *Tone Volume*: Adjust the volume of the sound effects that are played by your AirPods, such as low battery alerts.

If you have AirPods Pro 2, you can use your iPad to take a hearing test. If you have perceived mild to moderate hearing loss, you can get hearing assistance with the Hearing Aid feature. See [Use hearing health features with AirPods Pro 2](#).

Change Apple Pencil double tap and squeeze settings for accessibility

If you have difficulty using double tap or squeeze on Apple Pencil, you can adjust Apple Pencil settings for accessibility.

Note: Double tap is available on [supported iPad models](#) with Apple Pencil (2nd generation) and Apple Pencil Pro. Squeeze is available on supported iPad models with Apple Pencil Pro.

1. Go to Settings  > Accessibility > Apple Pencil.
2. Do any of the following:
 - Drag the slider to adjust how firmly you need to press for the squeeze action. Turn on Extended Range for additional firmness options.
 - Turn double tap on or off.
 - Choose a slower duration for double tap.

Tip: More options for customizing Apple Pencil are available in Apple Pencil settings. Go to Settings  > Apple Pencil.

Switch Control

Intro to Switch Control on iPad

Switch Control is an assistive technology for anyone with limited mobility. It enables you to interact with iPad by activating a *switch*, such as pressing an external adaptive button, performing a head movement, or making a voiced or voiceless sound. Using one or more switches, you can navigate a cursor around the iPad screen, then open the Scanner menu to choose an available action such as tap, zoom in, zoom out, and more.

What is a switch?

A switch can be an external hardware device or a feature on your iPad.

Switches on iPad don't require any additional hardware. For example:

- *Screen*: Use a tap or long press anywhere on the iPad screen. You can set up tap and long press as two different switches with separate actions.
- *Camera*: While in view of the front-facing iPad camera, move your head to the left or right, or pinch your left or right index finger and thumb. You can set up each gesture as a different switch with a separate action.
- *Back Tap*: Double-tap or triple-tap the back of iPad. You can set up double tap and triple tap as two different switches with separate actions.
- *Sound*: Make simple voiced sounds (such as "Oo") or voiceless sounds (such as a pop). You can set up each sound as a different switch with a separate action.
- *AirPods*: Nod or shake your head while wearing [supported AirPods](#) that are paired with your iPad. You can set up nod and shake as two different switches with separate actions.
- *Gaming*: Turn any switch into a virtual game controller to play your favorite games on iPad.

External switches connect to iPad through Bluetooth® or the Lightning connector or USB-C connector. For example:

- Adaptive accessory
- Joystick
- Game controller
- [MFi](#) switch or switch interface

How does Switch Control work?

In Switch Control, each switch performs a specific action—for example, Move To Next Item moves the cursor to the next item on the screen. The switch's action is performed when you activate the switch—such as by pressing the adaptive button, moving your head, or making a sound.

You can use just one switch, or you can use multiple switches for different actions, depending on how you like to work. For example, you can activate your Move to Next Item switch to move the cursor from one item to the next. When the cursor highlights the item you want, you can activate your Select Item switch.

Set up and turn on Switch Control on iPad

To set up [Switch Control](#), you need to connect and add one or more [switches](#), then assign an action to each switch. You can choose a scanning style and fine-tune other settings to suit your needs. After you turn on Switch Control, you may need to change the assigned actions or readjust the settings. If you have difficulty performing these steps, you can get personalized help at your nearest Apple Store.

Step 1: Connect an external switch (optional)

If you want to use an adaptive accessory, joystick, game controller, or [MFi](#) device for Switch Control, you need to first connect it to iPad by following the manufacturer's instructions. If the switch connects using Bluetooth®, you need to pair it with iPad.

1. Turn on the switch.
2. Go to Settings ⓘ > Bluetooth, turn on Bluetooth, tap the name of the switch, then follow the onscreen instructions.

Step 2: Add switches and assign actions

You can use only one switch, or you can use multiple switches to accommodate different actions. Each switch performs an assigned action, such as selecting an item or moving the cursor to the next item.

1. Go to Settings ⓘ > Accessibility > Switch Control > Switches.
2. Tap Add New Switch, then choose External, Screen, Camera, Back Tap, or Sound.

If you're trying to add an external switch but it isn't shown in the list, make sure it's connected to your iPad as described above in [Step 1: Connect an external switch \(optional\)](#).

3. Assign an action to the switch.

The action for the switch depends on the number of switches you have and the scanning style you choose in [Step 3: Choose a scanning style](#), below. If you don't know which action to assign, choose Select Item, which is compatible with Auto Scanning (the default scanning style). You can return to this setting later to change the assigned action.

Tip: Turn your iPad into a game controller that uses gestures you've already set up, like the same switch (or alternative input method) that you navigate and control your iPad with.

Step 3: Choose a scanning style

By default, the cursor automatically moves from one item to the next after a specified duration. If you prefer to move the cursor manually, you can choose a different scanning style.

Go to Settings ⓘ > Accessibility > Switch Control > Scanning Style, then choose one of the following:

- *Auto Scanning:* The cursor automatically moves to the next item after a specified duration. This is the default scanning style.

If you use Auto Scanning with just one switch, make sure the Select Item action is assigned to the switch.

- *Manual Scanning:* When you activate your Move to Next Item switch, the cursor moves to the next item.

Manual Scanning requires at least two switches. Make sure the Move to Next Item action is assigned to one switch, and the Select Item action is assigned to another switch.

- *Single Switch Step Scanning:* When you activate the Move to Next Item switch, the cursor moves to the next item; if no action is taken within a specified duration, the current item is automatically selected.

This scanning style requires only one switch. Make sure the Move to Next Item action is assigned to the switch.

Step 4: Fine-tune Switch Control settings

You can adjust the behavior of Switch Control in a variety of ways, to suit your specific needs and style. For example, you can change the scanning speed or have iPad speak the highlighted items.

Go to Settings  > Accessibility > Switch Control, then adjust any of the following:

- *Auto Scanning Time:* Adjust the item scanning speed.
- *Pause on First Item:* Set scanning to pause on the first item in a group.
- *Loops:* Choose how many times to cycle through the screen before hiding Switch Control.
- *Move Repeat:* Set the delay before moving to the previous or next item while a switch is pressed.
- *Long Press:* Set whether a different action occurs when you press and hold a switch, and how long to wait before performing that action.
- *Tap Behavior:* Choose a tap behavior and set the interval for performing a second switch action to show the Scanner menu.
- *Focused Item After Tap:* Choose whether Switch Control resumes scanning at an item you tap or from the beginning.
- *Hold Duration:* Specify how long you need to press and hold a switch before it's accepted as a switch action.
- *Ignore Repeat:* Ignore accidental repeated switch triggers.
- *Sound Effects:* Turn on sound effects.
- *Speech:* Speak items as they're scanned.
- *Menu Items:* Choose the actions shown in the Scanner menu and the order in which they appear.
- *Group Items:* Group items for faster navigation.
- *Large Cursor:* Make the highlight more prominent.
- *Cursor Color:* Choose a different highlight color.

Step 5: Turn on Switch Control

Important: When Switch Control is turned on, you can't use the standard gestures on the touchscreen to exit Switch Control.

Go to Settings  > Accessibility > Switch Control, then turn on Switch Control.

Tip: You can add Switch Control to [Accessibility Shortcut](#), then quickly turn it on or off by triple-clicking the Home button (on an iPad with a Home button) or the top button (on other iPad models).

Use Switch Control on iPad to select items, perform actions, and more

After you [set up and turn on Switch Control](#), you can select items on the screen by doing any of the following:

- *Item mode:* The cursor sequentially highlights items or groups of items. This is the default method when you first turn on Switch Control and whenever the Scanner menu appears.
- *Gliding cursor:* You select a point on the screen using scanning crosshairs. This method is useful when you need to select a specific point, such as in Maps, or on a screen with many items.
- *Head tracking:* On [supported models](#), you can move your head (detected by the front-facing camera) to control the cursor on the screen. This method is useful when you need to select a specific point, such as in Maps, or on a screen with many items.

When the cursor is on the item you want, the Scanner menu opens to show the available actions such as tap, scroll, control the volume, and more.

Use item mode to select items and perform actions

1. Depending on the [scanning style](#) you're using, do one of the following:
 - *If using Auto Scanning:* Watch or listen as groups of items are sequentially highlighted.
 - *If using Manual Scanning:* Activate your Move to Next Item switch to navigate through the groups of items on the screen.
 - *If using Single Switch Step Scanning:* Activate your Move to Next Item switch to navigate through the groups of items on the screen.
2. When the group you want is highlighted, do one of the following:
 - *If using Auto Scanning:* Activate your Select Item switch.
 - *If using Manual Scanning:* Activate your Select Item switch.
 - *If using Single Switch Step Scanning:* Wait until the current group is automatically selected.
3. Repeat steps 1 and 2 to scan and select an item within the group.
4. Repeat steps 1 and 2 to scan and choose an action in the Scanner menu. The dots at the bottom of the menu provide more options.

To dismiss the Scanner menu without choosing an action, activate your Select Item switch when the original item is highlighted and all the icons in the menu are dimmed.

Use the gliding cursor to select a point

By default, Switch Control starts in item mode. To use the gliding cursor instead, do the following:

1. [Use item mode](#) to select any item, then choose Gliding Cursor (in the Scanner menu).
2. To position the vertical crosshair, activate your Select Item switch when the wide vertical band is over the item you want.
3. Activate your Select Item switch again when the fine vertical line is over the item.
4. To position the horizontal crosshair, activate your Select Item switch when the wide horizontal band is over the item you want.
5. Activate your Select Item switch again when the fine horizontal line is over the item.
6. In the Scanner menu, select the action you want, then activate your Select Item switch.

To return to item mode, open the Scanner menu, then choose Item Mode.

Set up head tracking

On an [iPad with Face ID](#), you can move your head to control a cursor on the screen. You can also assign actions to facial expressions, such as a smile or raised eyebrows.

To set up head tracking, do the following:

- Go to Settings  > Accessibility > Switch Control > Switches, then make sure you've [set up switches](#).
- Go to Settings > Accessibility > Switch Control > Head Tracking, turn on Head Tracking, then set any of these options:
 - *Assign actions to facial expressions*: Each expression can perform a different action and require a different degree of expressiveness.
 - *Choose how the pointer tracks your head movement*: Tap Tracking Mode, then choose With Face, When Facing Screen Edges, or Relative to Head.
 - *Adjust the pointer speed*: Tap  or .

Use head tracking

To use head tracking, do the following:

1. [Use item mode](#) to select any item, then choose Head Tracking (in the Scanner menu).
2. Move your head to position the cursor on the location you want, then activate it using your Select Item switch or facial expression.
3. In the Scanner menu, select the action you want, then activate your Select Item switch or facial expression.

To return to item mode, open the Scanner menu, then choose Item Mode.

Control several devices with one switch on iPad

You can remotely control your other Apple devices without adjusting any switch connections. With Platform Switching, you can navigate your iPad, Mac, or Apple TV using the same switch that you use to control your iPad.

- 1. Connect your devices to the same Wi-Fi network.
- 2. [Sign in with the same Apple Account](#) on all your devices.
- 3. [Set up and turn on Switch Control](#), then turn on Switch Control for the others: [iPhone](#), [Mac](#), or [Apple TV](#).
- 4. [Use the switch](#) to open the Scanner menu.
- 5. Choose Device, choose Use Other Device, then choose Connect.

To remove control from your iPad, choose Devices on the connected device, then choose Disconnect.

Hearing

Accessibility features for hearing on iPad

iPad comes with built-in tools designed to help you hear better—or stay connected without hearing a sound.

To explore accessibility features for hearing, go to Settings  > Accessibility, then scroll down to the Hearing section.

Use alternatives to sound

With Live Captions, get a transcription of the audio from any app and from live conversations around you.

[Get live captions of spoken audio](#)

Change how subtitles look. Or instead of standard subtitles, use closed captions and SDH when available.

[Display subtitles and captions](#)

If you can't hear your alerts, get notified visually.

[Flash the indicator light for notifications](#)

With Sound Recognition, have iPad listen for sounds—such as a doorbell or siren—and alert you when it recognizes them.

[Recognize sounds](#)

Type your Siri requests instead of speaking them.

[Change Siri accessibility settings](#)

Type to communicate on calls. The person you're talking to sees your message as you type it.

[Set up and use RTT](#)

	Get real-time captions of spoken audio		Customize subtitles and captions
	Blink the iPad light for notifications		Get notified about sounds around you
	Type to Siri		Make Real-Time Text (RTT) calls

You can also get transcriptions of [audio messages](#), [HomePod Intercom messages](#), and [podcasts](#).

Use hearing devices and make audio adjustments

Pair [Made for iPhone \(MFi\)](#) hearing aids or sound processors with iPad and adjust their settings.

[Use hearing devices](#)

Stream sound from the iPad microphone to your MFi hearing devices or AirPods.

[Use Live Listen](#)

Play stereo audio as mono, adjust left-right stereo balance, and more.

[Adjust audio settings](#)

Set accessibility options for AirPods and other Apple headphones paired with your iPad.

[Adjust the accessibility settings for AirPods](#)

Have your iPad play ambient sounds—such as ocean waves or rain—to help you focus or rest.

[Play background sounds](#)

	Hearing devices		Live Listen
	Audio balance		AirPods
	Background sounds		

You can also [have Siri announce notifications and calls](#) on your MFi hearing devices.

Tip: Control your go-to accessibility features and settings with the click of a button or from Control Center. See [Quickly open features with Accessibility Shortcut](#).

Use hearing devices with iPad

You can use [MFi](#) hearing aids or sound processors with iPad and adjust their settings. See the Apple Support article [Made for iPhone compatible hearing devices](#) for a list of models that work well with iPad.

If you have AirPods Pro 2, you can use your iPad to take a hearing test. If you have perceived mild to moderate hearing loss, you can get hearing assistance with the Hearing Aid feature. See [Use hearing health features with AirPods Pro 2](#).

Pair hearing devices with iPad

If your hearing devices aren't listed in Settings  > Accessibility > Hearing Devices, you need to pair them with iPad.

If your hearing devices are already paired to another nearby device, such as a Mac or iPad, make sure Bluetooth® is turned off on those devices. (When you finish pairing your hearing devices to your iPad, you can turn Bluetooth on again on those devices.)

1. On iPad, go to Settings > Bluetooth, then make sure Bluetooth is turned on.
2. Go to Settings > Accessibility > Hearing Devices.
3. Turn your hearing devices off and back on again.

If you're unsure how to turn them off, refer to the instructions that came with them, or check with the audiologist who helped you set them up.

4. When their name appears below MFi Hearing Devices (this could take a minute), tap the name 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 iPad whenever they turn on.

Adjust the settings and view the status of your hearing devices

- *In Settings:* Go to Settings  > Accessibility > Hearing Devices > MFi Hearing Devices.
- *By triple-clicking the top or Home button:* Use the [Accessibility Shortcut](#) if you've set it up.
- *In Control Center:* Tap . (If you don't see , add it to [Control Center](#).)
- *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 device (left, right, or both) receives streaming audio.
 - Control Live Listen.
 - Choose whether phone and media audio are routed to the hearing device.

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 synced with your other devices.

1. [Sign in to your Apple Account](#) on all the devices.
2. Connect all the devices to the same Wi-Fi network.

Stream audio to your hearing devices

You can stream audio from music, movies, podcasts, Siri, and more.

1. Tap  in Control Center, on the Lock Screen, or in the Now Playing controls for the app you're listening to.
2. Choose your hearing device.

You can also automatically [route audio calls](#) to a hearing device.

To troubleshoot issues you have using your hearing devices with iPad, see the Apple Support article, [Use Made for iPhone hearing devices](#).

Use iPad as a remote microphone with Live Listen

You can stream sound from the microphone on iPad to your [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.

If your AirPods don't automatically connect to iPad, tap  in Control Center or on the Lock Screen, then choose your AirPods.
2. To turn Live Listen on or off, do one of the following:
 - [Open Control Center](#), tap , tap your hearing device or AirPods, then tap Live Listen.

(If you don't see , add it to Control Center—go to Settings  > Control Center, then tap  next to Hearing.)
 - If you've [set up the Accessibility Shortcut](#), triple-click the side or Home button, tap Hearing Devices, then tap Live Listen.
 - If you're using hearing aids, go to Settings > Accessibility > Hearing Devices, then turn on Live Listen.
3. Position iPad near the sound source.

Recognize sounds using iPad

Your iPad can continuously listen for certain sounds—such as a doorbell, siren, or crying baby—and notify you when it recognizes these sounds.

Note: Don't rely on your iPad to recognize sounds in circumstances where you may be harmed or injured, in high-risk or emergency situations, or for navigation.

Set up Sound Recognition

1. Go to Settings  > Accessibility > Sound Recognition, then turn on Sound Recognition.
2. Tap Sounds, then turn on the sounds you want iPad to recognize.

Tip: To quickly turn Sound Recognition on or off, add it to [Control Center](#).

Add a custom alarm, appliance, or doorbell

You can also set up iPad to recognize a custom alarm, appliance, or doorbell if they aren't recognized automatically.

1. Go to Settings  > Accessibility > Sound Recognition > Sounds.
2. Tap Custom Alarm or Custom Appliance or Doorbell, then enter a name.
3. When your alarm, appliance, or doorbell is ready, place iPad near the sound and minimize background noise.
4. Tap Start Listening, then follow the onscreen instructions.

Set up and use RTT on iPad

With real-time text (RTT) and Wi-Fi calling on your iPhone, you can also make and receive RTT calls in the FaceTime app  on your iPad.

Important: RTT isn't supported by all carriers or in all countries or regions. RTT 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 call.

Set up RTT

1. Make sure you can [make and receive Wi-Fi calls on iPad](#).
2. Go to Settings  > Accessibility > RTT.
3. Turn on Software RTT, then do any of the following.
 - Tap Relay Number, then enter the phone number to use for relay calls using Software RTT.
 - Turn on Send Immediately to send each character as you type. Turn it off to complete messages before sending.

When RTT is turned on,  appears in the status bar at the top of the screen.

Start an RTT call

1. Open the FaceTime app  on iPad.
2. Tap New FaceTime, then type the name or number you want to call or tap  to add a contact.
3. Tap , tap Call, then tap RTT Call or RTT Relay Call.

Type text during an RTT call

1. After accepting or a [starting an RTT call](#) in the FaceTime app  on iPad, tap Use RTT, then tap .
2. 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.
3. To also transmit audio, tap  in the top-right corner.

Note: Standard voice call rates apply for RTT calls.

Flash the iPad indicator light for notifications

On an [iPad with an indicator light](#), you can set it to blink when you receive a notification. This can be useful if you can't hear the sounds that announce incoming calls or other alerts, or if you might miss audible alerts in a noisy environment.

The indicator light is the light-emitting diode (LED) located on the back of iPad, next to the camera lens.

1. Go to Settings  > Accessibility > Audio & Visual, then turn on LED Flash for Alerts.
2. Turn any of the following on or off:
 - *Flash While Unlocked*: The indicator light flashes even when iPad is unlocked.
 - *Flash in Silent Mode*: The indicator light flashes even when iPad is in Silent mode.

Adjust audio settings on iPad

You can use mono audio, adjust left-right stereo balance, and—with supported headphones—amplify soft sounds and adjust certain frequencies to best suit your hearing needs.

Balance the audio

1. Go to Settings  > Accessibility > Audio & Visual.
2. Adjust any of the following:
 - *Mono Audio*: Turn on Mono Audio to make the left and right speakers play the same content.
 - *Stereo Audio Balance*: Drag the Balance slider left or right.

Adjust certain frequencies and soft sounds

With Headphone Accommodations for [supported Apple and Beats headphones](#), you can adjust certain sounds to best suit your hearing. Make soft sounds louder and boost some frequencies so phone calls and media sound crisper and clearer.

1. Make sure you're in a quiet environment and that you've [paired your AirPods](#) or [paired other supported Bluetooth® headphones](#).
2. Go to Settings  > Accessibility > Audio & Visual > Headphone Accommodations, then turn on Headphone Accommodations.
3. Adjust any of the following:
 - *Frequencies*: Below Tune Audio For, choose an option to boost different frequencies.
 - *Soft sounds*: Drag the slider to set an amplification level for soft sounds.
4. Scroll down, then do any of the following:
 - Turn on Phone to apply the settings to phone calls.
 - Turn on Media to apply the settings to media playback like music, movies, and podcasts.

With some supported headphones, you can use Headphone Accommodations to personalize your headphone audio based on what sounds good to you. Tap Custom Audio Setup, then follow the onscreen instructions.

Tip: Quickly access Headphone Accommodations by tapping  in [Control Center](#). (If you don't see , add it—tap , tap Add a Control, scroll down to Hearing Accessibility, then tap Headphone Accommodations.)

For information about applying Headphone Accommodations settings to Transparency Mode and Conversation Boost when using AirPods Pro and iPad, see [Customize Transparency mode for AirPods Pro](#) in the AirPods User Guide.

Make dialogue sound clearer in videos

When you watch supported video content, you can turn on voice isolation so the dialogue is easier to hear. During dialogue, voices are isolated and all other audio is substantially reduced.

1. Go to Settings  > Accessibility > Audio & Visual.
2. Turn on Add Voice Isolation.
3. While watching a supported video in the Apple TV app , do one of the following:
 - Tap .
 - Tap , then tap Audio.
4. Tap Enhance Dialogue, then tap Isolate.

Play background sounds on iPad

You can have iPad play ambient background sounds—such as ocean waves or rain—to help you focus or rest.

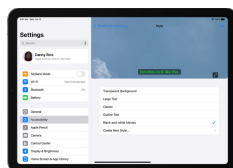
1. Go to Settings  > Accessibility > Audio & Visual > Background Sounds, then turn on Background Sounds.

Tip: Control Background Sounds with the click of a button or from Control Center. See [Quickly turn accessibility features on or off](#).

2. Set any of the following:
 - *Sound:* Choose a sound; the audio file downloads to your iPad.
 - *Volume:* Drag the slider.
 - *Use When Media is Playing:* Adjust the volume of the background sound when iPad is playing music or other media.
 - *Stop Sounds When Locked:* Background sounds stop playing when iPad is locked.

Display subtitles and captions on iPad

iPad can provide subtitles, closed captions, and transcriptions so you can follow along more easily with audio and video.



Turn on subtitles and captions in the Apple TV app

When you play video content in a supported app, you can turn on subtitles and closed captions (if available). iPad 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.

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

Show transcriptions for Intercom messages from HomePod on iPad

If members of your home [use HomePod for Intercom messages](#), iPad can transcribe the messages for you.

1. Go to Settings  > Accessibility > Subtitles & Captioning, then turn on Show Audio Transcriptions.
2. In the Home app , tap , then tap Home Settings.
3. Tap Intercom, then choose when you receive notifications.

See [Use HomePod as an Intercom](#) in the HomePod User Guide.

Get live captions of spoken audio on iPad

With Live Captions on iPad, you can get a real-time transcription of spoken audio. Use Live Captions to more easily follow the audio in any app, such as FaceTime or Podcasts, and in live conversations around you.

Note: Live Captions is available on [supported models](#) when the [primary language is set](#) to English (U.S.) or English (Canada). The accuracy of Live Captions may vary and shouldn't be relied upon in high-risk or emergency situations.

Set up and customize Live Captions

1. Go to Settings  > Accessibility > Live Captions, then turn on Live Captions.
2. Tap Appearance to customize the text, size, and color of the captions.
3. By default, Live Captions are shown across all apps. To get live captions only for certain apps such as FaceTime or RTT, turn them on below In-App Live Captions.

Use Live Captions

With Live Captions turned on, iPad automatically transcribes the spoken audio in apps—or from dialogue around you. You can do any of the following:

- *Transcribe an in-person conversation:* Tap Live Captions, then tap Microphone.
- *Transcribe iPad audio:* Tap Live Captions, then tap iPad Audio.
- *Pause the transcription:* Tap Live Captions, then tap Pause Listening.
- *Move the Live Captions window:* Drag the Live Captions window to reposition it on the screen.
- *Hide the Live Captions window:* The Live Captions window is automatically hidden when no audio is detected. If the window is showing, swipe left or right on the window to hide it. To restore the window, tap .
- *Make the transcription window full-screen:* Tap . To restore the window to the smaller size, tap .

Speech

Accessibility features for speech on iPad

iPad comes with built-in tools for communicating in the way that works best for you, whether you're nonspeaking, at risk of speech loss, or someone with a speech disability. You can have what you type spoken out loud, create a synthesized voice that sounds like you, and more.

To explore accessibility features for speech, go to Settings  > Accessibility, then scroll down to the Speech section.

Type to speak

If you're unable to speak or you have a speech disability, type what you want to say and have iPad speak it.

[Type to speak using Live Speech](#)

If you're at risk of losing your ability to speak, create a synthesized voice that sounds like you.

[Record your Personal Voice](#)

Type your Siri requests instead of speaking them.

[Type instead of speaking to Siri](#)

	Live Speech		Personal Voice
	Type to Siri		

Control iPad with your voice

Speak commands to navigate and interact with what's on the screen, dictate and edit text, and more.

[Use Voice Control commands](#)

You can use voiced or voiceless sounds—like an S-sound or a mouth pop—to navigate and interact with what’s on the screen.

[Use sound actions with Switch Control](#)

Have iPad perform an action when you speak a word or another sound of your choosing.

[Use Vocal Shortcuts](#)

If you have an acquired or progressive condition that affects speech, have Siri recognize a wider range of atypical speech patterns.

[Change Siri accessibility settings](#)

	Use voice commands		Use simple sounds
	Vocal Shortcuts		Have Siri listen for atypical speech

You can also [have Siri wait longer for you to finish speaking](#), or use [Dictation](#) to enter text using just your voice.

Tip: Control your go-to accessibility features and settings with the click of a button or from Control Center. See [Quickly open features with Accessibility Shortcut](#).

Type to speak using Live Speech on iPad

If you’re unable to speak or have lost your speech over time, you can use Live Speech on iPad to have what you type spoken out loud during in-person conversations and in apps like FaceTime. You can choose from dozens of system voices or use [a Personal Voice you create](#).

Note: Live Speech is not available in all languages. See the [iOS and iPadOS Feature Availability](#) webpage.

Turn on Live Speech

1. Go to Settings  > Accessibility > Live Speech, then turn on Live Speech.
2. Choose a voice. You can use Live Speech with any voice you choose, including your Personal Voice.
3. Triple-click the top button or Home button (depending on your iPad model), then tap Live Speech (if the Accessibility Shortcut is set up with more than one feature).

Have what you type spoken out loud

1. After you [turn on Live Speech](#), type what you want to have spoken in the Live Speech window.

You can also paste copied text into the window, or tap suggested words that appear above the keyboard as you type.

2. Tap Speak to have your text spoken out loud.

If you’re on a FaceTime call, Live Speech is output on the other end of the call. Otherwise, the speaker on your iPad outputs Live Speech.

Have saved phrases spoken out loud

With Live Speech, you can select from a list of phrases you use often.

1. After you [turn on Live Speech](#), tap Keyboard at the top of the Live Speech window.
2. Tap a category, like Recent or Saved, then tap a phrase to have it spoken out loud.
3. To hide your saved phrases and return to entering text with the keyboard, tap Phrases at the top of the Live Speech window.

Add or remove saved phrases

Add or remove phrases from the list of saved phrases that you use often.

1. Go to Settings  > Accessibility > Live Speech, then tap Phrases.
2. Tap Saved or another category you've created, then do any of the following:
 - *Add a saved phrase:* Tap [+](#), enter your phrase in the text field, then tap Save.
 - *Remove a saved phrase:* Tap a phrase, then tap Delete Phrase.

Create categories for saved phrases

Organize your saved phrases into categories, such as for different activities—like work, school, or gaming.

1. Go to Settings  > Accessibility > Live Speech, then tap Phrases.
2. Tap [+](#), enter a name for the category, choose an icon, then tap Done.

Allow audio from other apps in calls

You can allow the audio from apps to be audible in voice and video calls, which can be helpful if you use apps that assist with speaking and communication.

1. Go to Settings  > Accessibility > Audio & Visual, then tap Add Audio in Calls.
2. Turn on Allow Apps to Add Audio in Calls.

When this option is on, both audio and microphone input are included in calls. To silence all audio during a call, mute the microphone.

Record your personal voice on iPad

If you're at risk of speech loss or someone with a speech disability, you can use Personal Voice on iPad to create a synthesized voice that sounds like you. You can use your personal voice with Live Speech and [have what you type spoken out loud on iPad](#) during in-person conversations, in Phone and FaceTime calls, and in assistive communication apps.

1. Go to Settings  > Accessibility > Personal Voice.
2. Tap Create a Personal Voice, then follow the onscreen instructions.

(If you need to pause your recording session, tap Done. To resume, tap Continue Recording.)

Note: To see the option to create your personal voice, you must first [set a passcode](#). Personal Voice is available on supported iPad models and is not available in all languages. See the Apple Support article [Create a Personal Voice on your iPhone, iPad, or Mac](#).

Your personal voice is saved securely on your iPad for you to use during Phone and FaceTime calls, in-person conversations, and third-party alternative and augmentative communication (AAC) apps.

Important: Personal Voice can be used only with Live Speech and with third-party apps that you allow, such as Augmentative and Alternative Communication (AAC) apps. You can use Personal Voice only to create a voice that sounds like you on device, using your own voice, and for your own personal, noncommercial use. Your [Legacy Contact](#) won't be able to access your Personal Voice.

Use Vocal Shortcuts on iPad

With Vocal Shortcuts, you can teach iPad to perform an action when you speak a word or another sound of your choosing. Vocal Shortcuts can be useful if you have moderate to severe atypical speech but can reliably vocalize certain utterances. Audio is processed on device.

Set up Vocal Shortcuts

1. Go to Settings  > Accessibility > Vocal Shortcuts.
2. Tap Set Up, then tap Continue.
3. Choose an action for iPad to perform when you say the shortcut. If you want the action to be a request to Siri, tap Siri Request, then enter the request.
4. Enter the phrase you'll say when you want iPad to perform the action, then follow the onscreen instructions to repeat the phrase out loud so that iPad can recognize it.

After you set up Vocal Shortcuts,  is shown in the status bar to indicate that Vocal Shortcuts is using the iPad microphone to listen for shortcuts. When you don't want Vocal Shortcuts to use the microphone, go to Settings > Accessibility > Vocal Shortcuts, then turn off Vocal Shortcuts.

Add a Vocal Shortcut

1. Go to Settings  > Accessibility > Vocal Shortcuts.
2. Tap Add Action, then tap Continue.
3. Choose an action for iPad to perform when you say the shortcut. If you want the action to be a request to Siri, tap Siri Request, then enter the request.
4. Enter the phrase you'll say when you want iPad to perform the action, then follow the onscreen instructions to repeat the phrase out loud so that iPad can recognize it.

Use a Vocal Shortcut

After you've [set up Vocal Shortcuts](#), just say the phrase for one the [shortcuts you've created](#).

Delete a Vocal Shortcut

1. Go to Settings  > Accessibility > Vocal Shortcuts.
2. Tap Edit, tap  next to the shortcut you want to delete, then tap Delete.

Tip: If you have an acquired or progressive condition that affects speech, you can have Siri listen for and recognize a wider range of atypical speech patterns. See [Change Siri accessibility settings](#).

Cognitive

Cognitive accessibility features on iPad

iPad comes with built-in options to suit your cognitive needs—or those of someone you care for.

To explore accessibility features on iPad, go to Settings  > Accessibility.

Adapt iPad for someone you care for

If someone you care for has a cognitive disability, set up an iPad with a simplified interface. Choose and customize core features that work best for them.

[Assistive Access User Guide](#)

When you let a child use your iPad, limit their access to a single app.

[Lock iPad to one app](#)



Keep iPad simple



Lock iPad to one app

You can also reduce sensory stimulus from the screen—for example, automatically dim the display of content that depicts flashing or strobing lights, and pause the display of rapid animated images such as GIFs. See [Stop or reduce onscreen motion](#).

iPad offers many additional tools to help you focus, make it easier to enter text, or follow along with what you're reading or listening to with features like [Focus](#), [Dictation](#), [Spoken Content](#), and [Live Captions](#).

For more resources, visit the [Apple Cognitive Accessibility webpage](#).

Tip: Control your go-to accessibility features and settings with the click of a button or from Control Center. See [Quickly open features with Accessibility Shortcut](#).

Lock iPad to one app with Guided Access

With Guided Access, you can temporarily restrict iPad to a single app. This can be useful when you let a child use your iPad or when you want to stay focused on a task. You can set a time limit, and customize which features, hardware buttons, and areas of the screen are available.



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](#) (on an iPad with Face ID) or [Touch ID](#) (on other iPad 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*: Allow the use of [Accessibility Shortcut](#) during Guided Access sessions.
- *Display Auto-Lock*: Set how long it takes iPad to automatically lock during a Guided Access session.

Start a Guided Access session

1. Open the app you want to use.

2. To turn on Guided Access, do one of the following:

Say something like: "Turn on Guided Access." [Learn how to use Siri.](#)

- Use [Control Center](#) if you've added Guided Access there.
- Use the [Accessibility Shortcut](#).

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:

- Top Button
- Volume Buttons
- Motion (to prevent iPad from switching from portrait to landscape or from responding to other motions)
- Software Keyboards
- Touch
- Time Limit

5. Tap Start.

End a Guided Access session

Depending on the passcode options you chose when you [set up Guided Access](#), do any of the following:

- *Use the passcode*: Triple-click the top button (on an iPad with Face ID) or Home button (on other iPad models), then enter the Guided Access passcode. If you didn't set a Guided Access passcode, enter your iPad passcode.
- *Use Face ID or Touch ID*: If you turned on the Face ID or Touch ID option in Guided Access Passcode Settings, double-click the top button or Home button, then unlock your iPad with Face ID or Touch ID (depending on your iPad model).

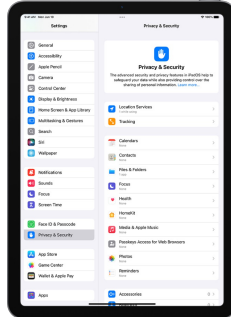
To set up an iPad with a simplified user interface and a customizable set of core features, see the [Assistive Access User Guide](#).

Privacy and security

Control what you share on iPad

Apps ask for permission the first time they want to use something on your iPad. You can control which apps can access your data, location, camera, and microphone, and manage safety protections. You can later change how much you want to share.

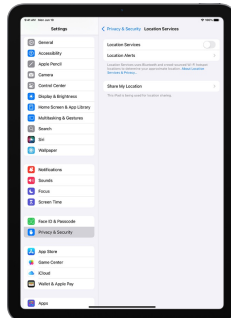
Control which apps have access to information on your iPad



You can let third-party apps use information in your iPad apps—such as Contacts, Photos, and Calendar—to help you get things done more quickly. For example, a message app may request access to your contacts to find friends who are using the same app. You can turn access on or off for any individual app.

[How to allow access to information in iPad apps](#)

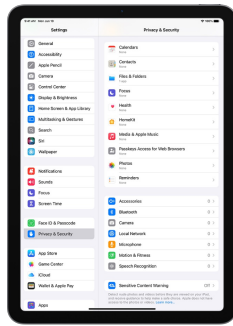
Control which apps can use the location of your iPad



When you give apps access to the location of your iPad, those apps can help you get directions, receive assistance in an emergency, and more. For example, a ride-sharing app may request access to your location to pick you up. When an app is using Location Services,  appears in the status bar.

[How to allow access to the location of your iPad](#)

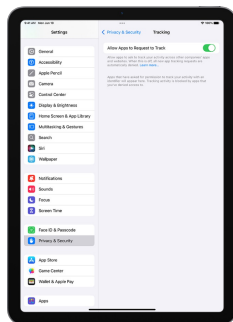
Control which apps have access to the camera and microphone on your iPad



You can let apps use the camera and microphone to make it easier to post content directly to those apps. For example, a social networking app may ask to use your camera so that you can take and upload pictures to that app. Whenever an app uses the camera (including when the camera and microphone are used together), a green indicator appears.

[How to allow access to the camera and microphone](#)

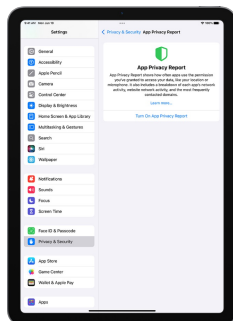
Control which apps can track you or your iPad across websites or other apps



All apps are required to ask your permission before tracking you or your iPad across websites or apps owned by other companies (for example, advertising or to share your information with data brokers). After you grant or deny permission to an app, you can change permission later. You can also stop all apps from requesting permission.

[How to allow access to your web activity](#)

Review how apps are using the permissions you grant them



You can see how apps are using the permissions you've granted them, and their network activity, by reviewing an App Privacy Report.

[How to view an app privacy report](#)

To learn more about how Apple protects your information, go to the [Privacy website](#). To learn how Apple designs security into the core of its platforms, see the [Apple Platform Security Guide](#).

Protect access to your iPad

Set a passcode on iPad

For better security, set a passcode that needs to be entered to unlock iPad when you turn it on or wake it. Setting a passcode also turns on data protection, which encrypts your iPad data with 256-bit AES encryption. (Some apps may opt out of using data protection.)

Set or change the passcode

1. Go to Settings , then depending on your model, tap one of the following:
 - Face ID & Passcode
 - Touch ID & Passcode
2. Tap Turn Passcode On or Change Passcode.

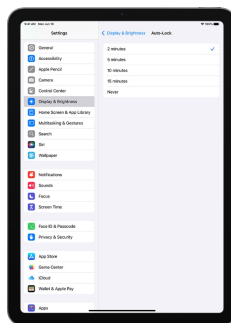
To view options for creating a passcode, tap Passcode Options. The most secure options are Custom Alphanumeric Code and Custom Numeric Code.

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

- You turn on or restart your iPad.
- You haven't unlocked your iPad for more than 48 hours.
- You haven't unlocked your iPad 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 iPad receives a remote lock command.
- There are five unsuccessful attempts to unlock your iPad with Face ID or Touch ID.

Change when iPad automatically locks

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



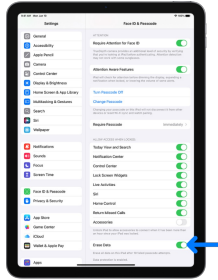
Erase data after 10 failed passcodes

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

1. Go to Settings , then depending on your model, tap one of the following:

- Face ID & Passcode
- Touch ID & Passcode
- Passcode

2. Turn on Erase Data.



Note: If you keep your iPad on the Home Screen and don't take any action, your Auto-Lock time is reduced by half.

After all data is erased, you must [restore iPad from a backup](#). If you didn't back up your iPad, you need to [set it up again as new](#).

Turn off the passcode

1. Go to Settings , then depending on your model, tap one of the following:

- Face ID & Passcode
- Touch ID & Passcode
- Passcode

2. Tap Turn Passcode Off.

Reset the passcode

If you enter the wrong passcode four times in a row, you'll be locked out of your device, and you'll receive a message that says iPad is disabled. If you can't remember your passcode, you can erase your iPad with a computer or with recovery mode, then set a new passcode. See the Apple Support article [If you forgot your iPad passcode, use your Mac or PC to reset it](#).

Note: If you made an iCloud or computer backup before you forgot your passcode, you can restore your data and settings from the backup.

Set up Face ID on iPad

Use Face ID ([supported models](#)) to securely and conveniently unlock iPad, authorize purchases and payments, and sign in to many third-party apps by simply glancing at your iPad.

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

Set up Face ID or add an alternate appearance

- If you didn't set up Face ID when you first set up your iPad, 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.

Choose when to use Face ID

You can use Face ID to unlock your iPad, authorize payments, automatically fill in passwords, and open password-protected apps.

Go to Settings  > Face ID & Passcode, then turn on options below Use Face ID For.

Temporarily disable Face ID

You can temporarily prevent Face ID from unlocking your iPad.

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

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

The next time you unlock iPad 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 of the options.
 - *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. See [Mark a device as lost in Find My](#).

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

Set up Touch ID on iPad

On an iPad with a Home button, iPad (10th generation and later), iPad Air (4th generation and later), iPad mini (6th generation), or iPad mini (A17 Pro), you can use Touch ID to securely and conveniently [unlock iPad](#), authorize purchases and payments, and sign in to many third-party apps.

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

Turn on Touch ID

1. Go to Settings  > Touch ID & Passcode.
2. Turn on any of the options below Use Touch ID For, then follow the onscreen instructions.

If you turn on iTunes & App Store, you're asked for your [Apple Account](#) password when you make your first purchase from the App Store, Apple Books, or the 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 iPad using Touch ID, see the Apple Support article [If Touch ID isn't working on your iPhone or iPad](#).

Choose when to use Touch ID

You can use Touch ID to unlock your iPad, authorize payments, automatically fill in passwords, and open password-protected apps.

Go to Settings  > Touch ID & Passcode, then turn on options below Use Touch ID For.

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, do one of the following to identify its print:

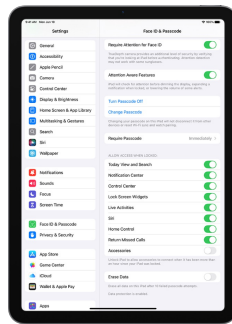
- *On an iPad with a Home button:* Rest a finger on the Home button.
 - *On iPad (10th generation and later), iPad mini (6th generation), iPad mini (A17 Pro), and iPad Air (4th generation and later):* Rest a finger on the top button.
2. Tap the fingerprint, then enter a name (such as "Thumb") or tap Delete Fingerprint.

Turn off Touch ID

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

Turn on Lock Screen features on iPad

You can make some commonly used features (such as Control Center, widgets, and media playback controls) available on the Lock Screen for easy access when iPad is locked.



1. Go to Settings , then depending on your model, tap one of the following:
 - Face ID & Passcode
 - Touch ID & Passcode
 - Passcode
2. Turn on options below Allow Access When Locked.

If you turn off Lock Screen access to a feature, you prevent someone who has your iPad from viewing any personal information that it might contain (such as an upcoming event in the Calendar widget). However, you also lose quick access to the information yourself.

Keep your Apple Account secure on iPad

Your Apple Account is the account you use to access Apple services like the App Store, Apple Music, iCloud, iMessage, and FaceTime. Your account includes the email address and password you use to sign in as well as the contact, payment, and security details you use across Apple services. Apple employs industry-standard practices to safeguard your Apple Account.

Best practices for maximizing the security of your Apple Account

- Don't let others use your Apple Account, even family members.

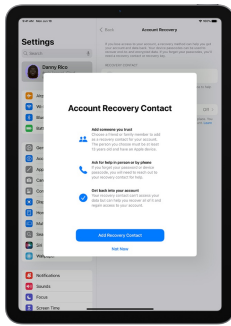
To share purchases, subscriptions, a family calendar, and more without sharing Apple Accounts, [set up Family Sharing](#).

- Use two-factor authentication. If you created your Apple Account on a device with iOS 13.4, iPadOS 13.4, macOS 10.15.4, or later, your account automatically uses two-factor authentication. If you previously created an Apple Account without two-factor authentication, [turn on two-factor authentication](#) now.
- Never provide your password, security questions, verification codes, recovery key, or any other account security details to anyone else. Apple will never ask you for this information.
- When accessing your Apple Account page in Safari or another web browser, look for  in the address field to verify that your session is encrypted and secure.
- When using a public computer, always sign out when your session is complete to prevent other people from accessing your account.
- Avoid phishing scams. Don't click links in suspicious email or text messages and never provide personal information on any website you aren't certain is legitimate. See the Apple Support article [Recognize and avoid social engineering schemes including phishing messages, phony support calls, and other scams](#).
- Don't use your password with other online accounts.
- If one of your devices is lost or stolen, turn on [Lost Mode](#) as soon as possible for that device. (You can do this on a friend's device and don't need to use your own.)

Add Account Recovery Contacts

If you forget your password or get locked out, choose one or more people you trust as Account Recovery Contacts to help you reset your Apple Account password and regain access to your account.

Go to Settings  > [your name] > Sign-In & Security > Recovery Contacts, tap Add Recovery Contact, then follow the onscreen instructions.



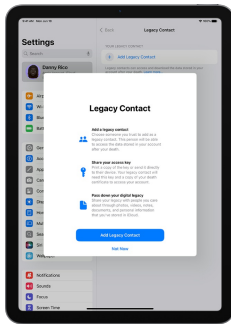
For more information, go to Settings ⓘ > [your name] > Sign-In & Security, then tap “Learn more” below Add Recovery Contact.

Add Legacy Contacts

The Digital Legacy program allows you to designate people as Legacy Contacts so they can access your Apple Account in the event of your death.

Go to Settings ⓘ > [your name] > Sign-In & Security > Legacy Contact, tap Add Legacy Contact, then follow the onscreen instructions.

For more information about how to share the access key with a legacy contact, how to remove a legacy contact, and how your legacy contact can request access to your account, see the Apple Support article [How to add a Legacy Contact for your Apple Account](#). Also see the Apple Support article [Data that a Legacy Contact can access](#).



Generate a recovery key for your account

For additional control over your account security, you can generate a recovery key that helps you reset your account password or regain access to your Apple Account. A recovery key is a randomly generated 28-character code that you should keep in a safe place. You can reset your account password by either entering your recovery key or using another device already signed in to your Apple Account. To ensure you have access to your account, you are personally responsible for maintaining access to the recovery key and your trusted devices.

See the Apple Support article [Set up a recovery key for your Apple Account](#).

For more information about best practices, see the Apple Support article [Security and your Apple Account](#).

To set up or manage your Apple Account, go to the [Apple Account website](#).

If you forgot your Apple Account password, see the [Recover your Apple Account website](#).

Manage what you share with apps

Control app tracking permissions on iPad

All apps are required to ask your permission before tracking you or your iPad across websites or apps owned by other companies for advertising or to share your information with data brokers. After you grant or deny permission to an app, you can change permission later. You can also stop all apps from requesting permission.

Review or change an app's permission to track you

1. Go to Settings  > Privacy & Security > Tracking.

The list shows the apps that requested permission to track you. You can turn permission on or off for any app on the list.

2. To stop all apps from asking permission to track you, turn off Allow Apps to Request to Track (at the top of the screen).

For more information about app tracking, tap "Learn more" near the top of the screen.

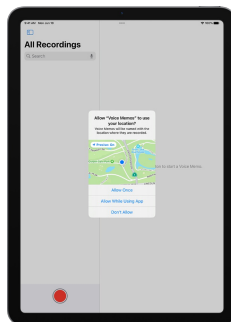
Control the location information you share on iPad

You control whether iPad and apps have information about your location.

To figure out where you are when getting directions, setting up meetings, and more, Location Services uses information (when available) from GPS networks (iPad models with Wi-Fi + Cellular), your Bluetooth® connections, your local Wi-Fi networks, and your cellular network (iPad models with Wi-Fi + Cellular, if you have Cellular Data turned on). When an app is using Location Services,  appears in the status bar.

When you set up iPad, you're asked if you want to turn on Location Services. Afterward, you can turn Location Services on or off at any time.

The first time an app wants location data from your iPad, you receive a request with an explanation. Some apps may make a one-time only request for your location. Other apps may ask you to share your location now and in the future. Whether you grant or deny ongoing access to your location, you can change an app's access later.



Turn on Location Services

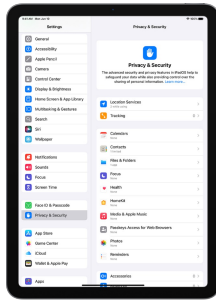
If you didn't turn on Location Services when you first set up iPad, go to Settings  > Privacy & Security > Location Services, then turn on Location Services.

Important: If you turn off Location Services, many important iPad features stop working.

View apps using your location information

1. Go to Settings  > Privacy & Security > Location Services.

2. To review or change access settings for an app or to see its explanation for requesting Location Services, tap the app.



To allow an app to use your specific location, leave **Precise Location** turned on. To share only your approximate location—which may be sufficient for an app that doesn't need your exact location—turn **Precise Location** off.

Note: If you set the access for an app to **Ask Next Time**, you're asked to turn on Location Services again the next time an app tries to use it.

To understand how a third-party app uses the information it's requesting, review its terms and privacy policy. See the Apple Support article [About privacy and Location Services in iOS, iPadOS, and watchOS](#).

Hide the map in Location Services alerts

When you allow an app to always use your location in the background, you may receive alerts about the app's use of that information. (These alerts let you change your permission, if you want to.) In the alerts, a map shows locations recently accessed by the app.

To hide the map, go to **Settings** > **Privacy & Security** > **Location Services** > **Location Alerts**, then turn off **Show Map** in **Location Alerts**.

With the setting off, you continue to receive location alerts, but the map isn't shown.

Review or 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 & Security** > **Location Services** > **System Services**.

Control access to information in apps on iPad

You control whether third-party apps have access to information in **Contacts**, **Photos**, **Calendar**, and other apps.

Review or change access to information in apps

The first time an app wants to use information from another app, you receive a request with an explanation. For example, a messaging app may request access to your contacts to find friends who are using the same app. After you grant or deny access, you can change access later.

1. Go to **Settings** > **Privacy & Security**.

2. Tap a category of information, such as Calendars, Reminders, or Motion & Fitness.

The list shows the apps that requested access. You can turn access on or off for any app on the list.

Review how apps are using the permissions you grant them

Go to Settings  > Privacy & Security, then tap App Privacy Report.

The App Privacy Report shows you how apps are using the permissions you granted them and shows you their network activity.

To turn off the report and delete its data, go to Settings  > Privacy & Security > App Privacy Report, then tap Turn Off App Privacy Report. You can return to this Settings screen to turn the report on again.

Control access to your contacts on iPad

On iPad, you control which of your contacts an app can access. The first time an app wants to access your contacts, you receive a request from the app, along with an explanation. For example, a messaging app may ask to access your contacts in order to find friends who are using the same app. After you grant or deny the app's request, choose which contacts the app can access. You can always change the access you granted later.

1. Go to Settings  > Privacy & Security.
2. Tap Contacts, then tap the app.
3. Choose how much access to your contacts you're giving the app (below Contacts Access).
4. If you're giving Limited Access, tap Edit Selected Contacts to choose individuals.

Select or deselect individual contacts, then tap Done.

Control how Apple delivers advertising to you on iPad

You control how Apple delivers advertising.

Ads delivered by Apple may appear in the App Store, Apple News, and Stocks. These ads don't access data from any other apps. In the App Store and Apple News, your search and download history may be used to serve you relevant search ads. In Apple News and Stocks, ads are served based partly on what you read or follow. This includes publishers you've enabled notifications for and the type of publishing subscription you have. The articles you read are not used to serve targeted ads to you outside these apps, and information collected about what you read is linked to a random identifier rather than to your Apple Account.

Review the information Apple uses to deliver ads

Go to Settings  > Privacy & Security > Apple Advertising > View Ad Targeting Information.

The information is used by Apple to deliver more relevant ads in the App Store, Apple News, and Stocks. Your personal data isn't provided to other parties.

Turn personalized ads on or off

Go to Settings  > Privacy & Security > Apple Advertising, then turn Personalized Ads on or off.

Note: Turning off personalized ads limits Apple's ability to deliver relevant ads to you. It may not reduce the number of ads you receive.

Learn more about privacy and Apple's advertising platform

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

Control access to hardware features on iPad

Before apps use the camera or microphone on your iPad, they're required to request your permission and explain why they're asking. For example, a social networking app may ask to use your camera so that you can take and upload pictures to that app. Apps are similarly required to request your permission to use various other hardware features, including Bluetooth® connectivity, motion and fitness sensors, and devices on your local network.

You can review which apps have requested access to these hardware features, and you can change their access at your discretion.

Review or change access to the camera, microphone, and other hardware features

1. Go to Settings  > Privacy & Security.
2. Tap a hardware feature, such as Camera, Bluetooth, Local Network, or Microphone.

The list shows the apps that requested access. You can turn access on or off for any app on the list.

Note: Whenever an app uses the camera (including when the camera and microphone are used together), a green indicator appears. An orange indicator appears at the top of the screen whenever an app uses the microphone without the camera. Also, a message appears at the top of Control Center to inform you when an app has recently used either.

Create and manage Hide My Email addresses in Settings on iPad

When you [subscribe to iCloud+](#), you can use Hide My Email to keep your personal email address private. With Hide My Email, you can generate unique, random email addresses that forward to your personal email account, so you don't have to share your real email address when filling out forms or signing up for newsletters on the web, or when sending email.

You can create and manage Hide My Email addresses in Settings . Go to Settings > [your name] > iCloud > Hide My Email, then do any of the following:

- *Create a Hide My Email address:* Tap Create New Address, then follow the onscreen instructions.

- *Deactivate a Hide My Email address:* Tap an address (below Create New Address), then tap Deactivate Email Address. After you deactivate the address, it no longer forwards emails to you.
- *Change which personal email address to forward to:* Tap Forward To, then choose an email address. Options consist of addresses that are available with your Apple Account.
- *Copy a forwarding address to use elsewhere:* Tap an address (below Create New Address), touch and hold the Hide My Email section, then tap Copy. To immediately use that address elsewhere, touch and hold in a text field, then tap Paste.

You can also generate Hide My Email addresses in Safari and Mail wherever email addresses are required. In supporting apps, you can also generate a Hide My Email address when an email address is required by tapping the email address field, then tapping Hide My Email above the keyboard.

Protect your web browsing with iCloud Private Relay on iPad

When you [subscribe to iCloud+](#), you can use iCloud Private Relay to help prevent websites and network providers from creating a detailed profile about you. When iCloud Private Relay is on, the traffic leaving your iPad is encrypted and sent through two separate internet relays. This prevents websites from seeing your IP address and exact location while preventing network providers from collecting your browsing activity in Safari.

Note: iCloud Private Relay isn't available in all countries or regions. For more information, see the [iOS and iPadOS Feature Availability](#) website.

Turn iCloud Private Relay on

Go to Settings  > [your name] > iCloud > Private Relay, then tap Private Relay.

Note: You need to turn on iCloud Private Relay on each device where you want to use it.

Turn iCloud Private Relay off

1. Go to Settings  > [your name] > iCloud > Private Relay, then tap Private Relay.
2. Do one of the following:
 - *Turn off iCloud Private Relay temporarily:* Tap Turn Off Until Tomorrow.
Within 24 hours, iCloud Private Relay will turn back on automatically. If you want it to resume sooner, follow the instructions for turning it on at any time.
 - *Turn off iCloud Private Relay completely:* Tap Turn Off Private Relay.

For information about turning off iCloud Private Relay temporarily for a specific website, see [Temporarily allow a website to see your IP address](#).

Turn iCloud Private Relay on or off for a Wi-Fi network

1. Go to Settings  > Wi-Fi.
2. Tap , then turn Limit IP Address Tracking on or off.

If you turn off Limit IP Address Tracking for a Wi-Fi network on your iPad, iCloud Private Relay is turned off for this network across all your devices where you're [signed in to the same Apple Account](#).

Turn iCloud Private Relay on or off for a cellular network (Wi-Fi + Cellular models)

1. Go to Settings  > Cellular Data, then do one of the following:
 - *If your iPad has a single plan:* Tap Cellular Data Options.
 - *If your iPad has multiple plans:* Select a plan (below Cellular Plans).
2. Turn Limit IP Address Tracking on or off.

The network setting is specific to a physical SIM or eSim in your iPad (eSIM not available in all countries or regions). See [View or change your cellular data account](#).

Set the specificity of your IP address location

Go to Settings  > [your name] > iCloud > Private Relay > IP Address Location, then choose one of the following:

- Maintain General Location (for example, to see local content in Safari)
- Use Country and Time Zone (to make your location more obscure)

iCloud Private Relay is not available in all countries or regions.

Use a private network address on iPad

To help protect your privacy, your iPad uses a unique private network address, called a *media access control (MAC) address*, on each Wi-Fi network it joins.

If a network can't use a private address (for example, to provide parental controls or to identify your iPad as authorized to join), you can stop using a private address for that network.

Turn a private address off for a network

1. Go to Settings  > Wi-Fi, then tap  for a network.
2. Turn Private Address off.

Important: For better privacy, leave Private Address turned on for all networks that support it. Using a private address helps reduce tracking of your iPad across different Wi-Fi networks.

Use Advanced Data Protection for your iCloud data

By default, iCloud secures your information by encrypting it when it's in transit, storing it in an encrypted format, and securing your encryption keys in Apple data centers. In addition, many Apple services use end-to-end encryption; your information is encrypted using keys derived from your devices and your device passcode, which only you know.

For the highest level of cloud data security, you can turn on Advanced Data Protection (iPadOS 16.2 or later required). It uses end-to-end encryption on more data categories such as the following:

- Device backup
- Messages backup
- iCloud Drive
- Notes
- Photos
- Reminders
- Safari bookmarks
- Siri Shortcuts
- Voice Memos
- Wallet passes

With Advanced Data Protection, your protected data can be decrypted only on your trusted devices, protecting your information even in the case of a data breach in the cloud. Not even Apple can access your information.

For detailed information about the requirements for using Advanced Data Protection, see the Apple Support article [How to turn on Advanced Data Protection for iCloud](#).

Turn on Advanced Data Protection

1. Go to Settings > [your name] > iCloud, then tap Advanced Data Protection.
2. Tap Turn On Advanced Data Protection.
3. If you haven't set up a Recovery Contact or Recovery Key, tap Account Recovery, tap Set Up Account Recovery, then follow the onscreen instructions.

WARNING: If you use Advanced Data Protection, you're responsible for your data recovery. Because Apple won't have the keys required to recover your data, you'll need to have a Recovery Contact or Recovery Key set up on your account. You can use these additional recovery methods to regain access to your data if you ever forget your password or lose access to your account.

If you choose to turn off Advanced Data Protection later, your iCloud data will revert to the standard level of security.

Harden your iPad from a cyberattack with Lockdown Mode

Lockdown Mode is an extreme protection feature for iPad. Protections include safer wireless connectivity defaults, media handling, media sharing defaults, sandboxing, and network security optimizations.

Lockdown Mode is optional and should be used only if you believe you might be targeted by a highly sophisticated cyberattack, such as by a private company developing state-sponsored mercenary spyware.

Important: Most people are never targeted by attacks of this nature.

When iPad is in Lockdown Mode, it doesn't function as it typically does. Apps, websites, and features are strictly limited for security, and some functionality isn't available.

Learn about Lockdown Mode

Go to Settings  > Privacy & Security > Lockdown Mode, then tap Learn More.

Turn on Lockdown Mode

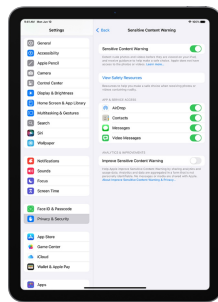
Go to Settings  > Privacy & Security > Lockdown Mode, then turn on Lockdown Mode.

Receive warnings about sensitive content on iPad

You can have your iPad (or your family member's iPad) check for sensitive images and warn you before you view them.

Turn on Sensitive Content Warning

1. Go to Settings  > Privacy & Security.
2. Tap Sensitive Content Warning, then turn on Sensitive Content Warning.



You (or your family member) will receive a warning before receiving or sending sexually explicit photos.

Note: Sensitive Content Warning is turned on automatically if you set up Screen Time and turn on Communication Safety. See [Check for nude content on a family member's iPad](#).

In Screen Time, you can also block inappropriate content and set restrictions on purchases.

Use Contact Key Verification on iPad

You can use Contact Key Verification to receive automatic alerts that help verify you're communicating only with the people you intend. You can also generate unique codes that you and your contacts can compare simultaneously in the Messages app to further verify each other's identities. Additionally, you can post your Public Verification Code to a social media account so other people can confirm that it's you when they send you a message, and you can save other people's codes in the Contacts app.

Note: Contact Key Verification is designed to prevent highly sophisticated cyberattacks; it isn't designed to prevent fraud such as phishing or other text-based scams. To learn more about Contact Key Verification and troubleshooting, see the Apple Support article [About iMessage Contact Key Verification](#).

Before you begin

To use Contact Key Verification, make sure of the following:

- Your devices are passcode or password protected.
- You're signed in to iCloud and iMessage with the same Apple Account and you have two-factor authentication turned on for your Apple Account.
- The person you're trying to verify is in your contacts.

Turn on Contact Key Verification

1. Go to Settings  > [your name] > Contact Key Verification.
2. Turn on Verification in iMessage, then tap Continue.

Note: When you turn on Contact Key Verification, you're prompted to update all of your Apple devices to compatible software. If you have a device that can't be updated, you need to sign out of iMessage on that device before you can turn on this feature.

Share a Public Verification Code

You can share your Public Verification Code in a message, or post it on a social media account so other people can verify your identity.

1. Go to Settings  > [your name] > Contact Key Verification.
2. Tap Show Public Verification Code.
3. To share your Public Verification Code, tap Copy Verification Code, tap OK, then paste the code wherever you want to share it.

You can also use someone else's Public Verification Code to verify their identity. For example, if someone shares a Public Verification Code with you that doesn't match the code they have displayed on their social media profile, you should stop sending them messages until you can confirm their identity.

Generate verification codes in Messages

For a higher level of security, you and your contacts can generate a verification code in Messages, then save each other's Public Verification Codes in Contacts. This is useful when you want to verify each other simultaneously, or if the Public Verification Code you received doesn't match the one your contact shares with you.

1. Go to the Messages app  on your iPad.
2. Tap the person's name at the top of the conversation, scroll down, then tap Verify Contact.

When the other person taps Verify Contact on their device, a contact verification code appears.

3. Compare the verification codes on both devices, then do one of the following:
 - *If the codes match:* Tap Mark as Verified, tap Update to add the verification code to the other person's contact card, then tap Done.
 - *If the codes don't match:* You might not be communicating with the person that you intend. Tap No Match, then stop sending messages to the person until you can verify their identity.

After you verify a contact, a checkmark appears next to their name in Messages. You can also check their verification status in the Conversation Details, or find their Public Verification Code in Contacts.

Restart, update, reset, and restore

Turn iPad on or off

Use the top button to turn on iPad. You can use the top button (along with either volume button on some models) or Settings  to turn off iPad.

If your iPad isn't working as expected, you can try restarting it by turning it off, then turning it back on. If turning it off and on doesn't fix the issue, try [forcing it to restart](#).

Turn iPad on or off (models with Face ID or with Touch ID in the top button)

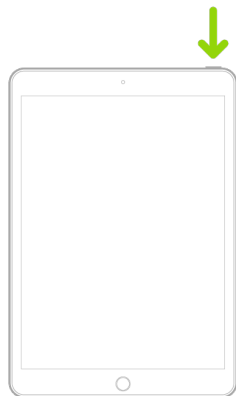
If your iPad doesn't have the Home button, do the following:

- *Turn on iPad:* Press and hold the top button until the Apple logo appears.
- *Turn off iPad:* Simultaneously press and hold the top button and either volume button, then drag the slider.



Turn iPad on or off (models with the Home button)

- *Turn on iPad:* Press and hold the top button until the Apple logo appears.
- *Turn off iPad:* Press and hold the top button, then drag the slider.



To turn off any model, you can go to Settings  > General > Shut Down, then drag the slider.

Force restart iPad

If iPad isn't responding, and you can't restart it by [turning it off then on](#), try forcing it to restart.

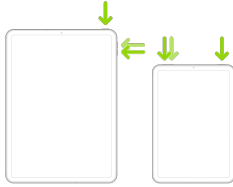
Note: If iPad doesn't restart after you try these steps, see the Apple Support article [If your iPad won't turn on or is frozen](#). Or if your iPad isn't working as expected after you restart it, see the [iPad Support website](#).

Force restart iPad (models with Face ID or with Touch ID in the top button)

button)

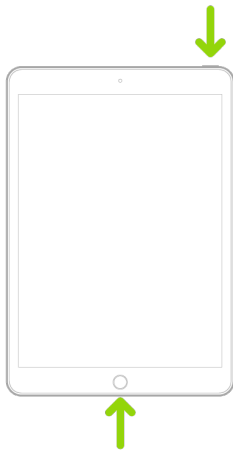
If your iPad doesn't have the Home button, do the following:

1. Press and quickly release the volume button nearest to the top button.
2. Press and quickly release the volume button farthest from the top button.
3. Press and hold the top button.
4. When the Apple logo appears, release the top button.



Force restart iPad (models with the Home button)

Press and hold the top button and the Home button at the same time. When the Apple logo appears, release both buttons.



Update iPadOS

When you update to the latest version of iPadOS, your data and settings remain unchanged.

Before you update, set up iPad to [back up](#) automatically, or back up your iPad manually.

Update iPad automatically

If you didn't turn on automatic updates when you first set up your iPad, do the following:

1. Go to Settings  > General > Software Update > Automatic Updates.
2. Turn on iOS Updates below Automatically Install and Automatically Download.

When an update is available, iPad downloads and installs the update overnight while charging and connected to Wi-Fi. You're notified before an update is installed.

Update iPad manually

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 iPadOS and whether an update is available.

To turn off automatic updates, go to Settings > General > Software Update > Automatic Updates.

Update using your computer

1. [Connect iPad and your computer with a cable.](#)
2. Do one of the following:
 - *On a Mac (macOS 10.15 or later):* In the Finder sidebar, select your iPad, then click General at the top of the window.
 - *On a Mac (macOS 10.14 or earlier) or a Windows device:* Open the iTunes app, click the button resembling an iPad near the top left of the iTunes window, then click Summary.

Note: Use the latest version of iTunes. See the Apple Support article [Update to the latest version of iTunes](#).

3. Click Check for Update.
4. To install an available update, click Update.

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

Back up iPad

You can back up iPad using iCloud or your computer. To decide which method is best for you, see [About backups for iPhone, iPad, and iPod touch](#).

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

Back up iPad using iCloud

iCloud backups store information and settings on your device that don't regularly sync to iCloud. This includes things like device settings, Home Screen layout, and app organization. See the Apple Support article [What does iCloud back up?](#)

1. Go to Settings  > [your name] > iCloud > iCloud Backup.
2. Turn on Backup This iPad.

iCloud automatically backs up your iPad daily when iPad is connected to power, locked, and connected to Wi-Fi.

Note: On Wi-Fi + Cellular models [that support 5G](#), your carrier may give you the option to back up iPad using your cellular network. Go to Settings > [your name] > iCloud > iCloud Backup, then turn Backup Over Cellular on or off .

3. To perform a manual backup, tap Back Up Now.

If you need help backing up your iPad with iCloud, see the Apple Support article [If you can't back up to iCloud](#).

View available iCloud storage

Go to Settings  > [your name] > iCloud.

The amount of iCloud storage used and the amount of iCloud storage available appear at the top of the screen.

Manage iCloud storage

You can view details about iCloud backups, such as the last backup, the next backup size, and the apps included in the backup.

1. Go to Settings  > [your name] > iCloud > iCloud Backup, then tap your iPad (This iPad).
2. To reduce the size of a backup, tap the apps you don't want to back up anymore; the apps' existing backup data will also be deleted from iCloud.

For more information, see the Apple Support article [Manage your iCloud storage](#).

Back up iPad using your Mac

You can save a backup of your iPad on your Mac.

1. [Connect iPad and your computer with a cable](#).
2. In the Finder sidebar on your Mac, select your iPad.

To use the Finder to back up iPad, macOS 10.15 or later is required. With earlier versions of macOS, [use iTunes](#) to back up iPad.
3. At the top of the Finder window, click General.
4. Select "Back up all of the data on your iPad to this Mac."
5. To encrypt your backup data and protect it with a password, select "Encrypt local backup."
6. Click Back Up Now.

Note: You can also connect iPad to your computer wirelessly if you [set up syncing over Wi-Fi](#).

Back up iPad using your Windows device

1. [Connect iPad and your computer with a cable](#).
2. In the iTunes app on your Windows device, click the iPad button near the top left of the iTunes window.
3. Click Summary.
4. Click Back Up Now (below Backups).
5. To encrypt your backups, select "Encrypt local backup," type a password, then click Set Password.

To see the backups stored on your computer, choose Edit > Preferences, then click Devices. Encrypted backups have a lock icon in the list of backups.

Note: You can also connect iPad to your computer wirelessly if you [set up syncing over Wi-Fi](#).

Reset iPad settings to their defaults

You can return your iPad settings to their defaults without erasing your content.

If you want to save your settings, [back up iPad](#) before resetting it. For example, if you're trying to solve a problem but resetting iPad doesn't help, you might want to restore your previous settings from a backup.

1. Go to Settings  > General > Transfer or Reset iPad > Reset.

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

2. Choose an option:

- *Reset All Settings:* All settings—including network settings, the keyboard dictionary, location settings, privacy settings, and Apple Pay cards—are removed or reset to their defaults. No data or media are deleted.
- *Reset Network Settings:* All network settings are removed. In addition, the device name assigned in Settings > General > About is reset to “iPad,” and manually trusted certificates (such as for websites) are changed to untrusted.

Cellular data roaming may also be turned off. (See [View or change cellular data settings](#).)

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 > VPN & 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](#).

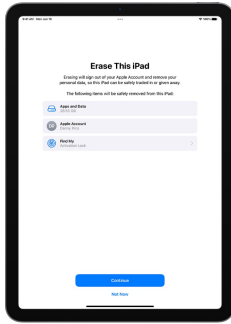
To remove network settings installed by MDM, go to Settings > General > VPN & Device Management, select the management, then tap Remove Management. This also removes other settings and certificates provided by MDM. See “Mobile device management (MDM)” in the [Deployment Reference for iPhone and iPad](#).

- *Reset Keyboard Dictionary:* You add words to the keyboard dictionary by rejecting words iPad 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 completely erase your iPad, see [Erase iPad using Settings](#). If you want or need to use a computer to erase your iPad, see [Erase iPad using your Mac or Windows device](#).

Erase iPad

You can securely erase your personal information, content, and settings (such as privacy and network settings) from your iPad. When you erase your iPad, it’s restored to factory settings. If you want to reset your iPad settings but keep your personal content, see [Reset iPad settings](#).



Before you begin

[Back up](#) your iPad so you can restore your data later on a different device.

Erase iPad using Settings

1. Go to Settings  > General > Transfer or Reset iPad.
2. Tap Erase All Content and Settings.
3. If asked, enter your iPad passcode or Apple Account password.
4. Tap Continue to confirm.

If you have an eSIM, you can choose to erase your eSIM or keep it. If you erase your eSIM, you need to contact your carrier to reactivate your cellular plan.

Erase iPad using your Mac or Windows device

1. Connect your iPad to your computer with a USB or USB-C cable.
2. On your Mac, click  to open a Finder window, or open the Apple Devices app on your Windows device.

If your Mac is using macOS 10.14 or earlier, or your Windows device doesn't have the Apple Devices app, open iTunes instead.

3. Click the iPad icon in the Finder sidebar (below Locations), then click General at the top of the window.
4. Click Restore iPad, then click Restore to confirm.

Note: If you're signed in to Find My, you need to sign out before you can click Restore.

For troubleshooting, see the Apple Support article, [Restore your iPhone, iPad, or iPod to factory settings](#).

Restore all content to iPad from a backup

You can restore content, settings, and apps from a backup to a new or newly erased iPad.

Important: To restore your iPad, you must have a backup to restore from. See [Back up iPad](#).

Restore iPad from an iCloud backup

1. Turn on your iPad.

The Hello screen should appear. If you already set up your device, you need to [erase all of its content](#) before you can use these steps to restore from your backup.

2. Do one of the following:

- Tap Set Up Manually, tap Restore from iCloud Backup, then follow the onscreen instructions.
- If you have another iPhone, iPad, or iPod touch with iOS 11, iPadOS 13, or later, you can use Quick Start to automatically set up your new device. Bring the two devices close together, then follow the onscreen instructions to securely copy many of your settings, preferences, and iCloud Keychain. You can then restore the rest of your data and content to your new device from your iCloud backup.

Or, if both devices have iOS 12.4, iPadOS 13, or later, you can transfer all your data wirelessly from your previous device to your new one. Keep your devices near each other and plugged into power until the migration process is complete.

You're asked for your Apple Account. If you've forgotten your Apple Account, go to iforgot.apple.com.

Restore iPad from a computer backup

1. [Using USB](#), connect a new or newly erased iPad to the computer containing your backup.
2. Do one of the following:
 - *On a Mac (macOS 10.15 or later):* In the Finder sidebar, select your iPad, click Trust, then click "Restore from this backup."
 - *On a Mac (macOS 10.14 or earlier) or a Windows device:* Open the iTunes app, click the button resembling an iPad near the top left of the iTunes window, click Summary, then click Restore Backup.

Note: Use the latest version of iTunes. See the Apple Support article [Update to the latest version of iTunes](#).

3. Choose your backup from the list, then click Continue.

If your backup is encrypted, you must enter the password before restoring your files and settings.

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](#).

Restore purchased and deleted items to iPad

You can redownload items purchased from the App Store, Book Store, Apple TV app, 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 iPad, see the following Apple Support articles:

- [Redownload apps and games from Apple](#)
- [Redownload books and audiobooks](#)
- [Redownload TV shows and movies that you purchased](#)
- [Redownload music](#)

You can also [recover recently deleted email, photos, notes, and voice memos](#).

Sell, give away, or trade in your iPad

Before you sell, give away, or trade in your iPad, see the Apple Support article [What to do before you sell, give away, or trade in your iPhone or iPad](#), and be sure to perform the following tasks:

- **Back up iPad.** If you replace one iPad with another, you can [use the setup assistant](#) to restore the backup to your new iPad.

If you're replacing your iPad with another one you have on hand, you can use extra free storage in iCloud to move your apps and data from one iPad to another. Go to Settings  > General > Transfer or Reset iPad > Get Started, then follow the onscreen instructions.

- Sign out of iCloud and the iTunes & App Store. Go to Settings > [your name], scroll down, tap Sign Out, enter your Apple Account password, then tap Turn Off.
- **Erase all content and settings** that contain personal information. If you previously [turned on Find My](#) for your iPad, Activation Lock is removed when you erase iPad, making it ready for a new owner.

Install or remove configuration profiles on iPad

Configuration profiles define settings for using iPad 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's 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 > VPN & Device Management. If you delete a profile, all of the settings, apps, and data associated with the profile are also deleted.

Safety, handling, and support

Important safety information for iPad

WARNING: Failure to follow these safety instructions could result in fire, electric shock, injury, or damage to iPad or other property. Read all the safety information below before using iPad.

Handling. Handle iPad with care. It is made of metal, glass, and plastic and has sensitive electronic components inside. iPad 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 iPad or the battery, discontinue use of iPad, as it may cause overheating or injury. Don't use iPad with a cracked screen, as it may cause injury. If you're concerned about scratching the surface of iPad, consider using a case or cover.

Repairing. iPad should only be serviced by a trained technician. Disassembling iPad may damage it or cause injury to you. If iPad is damaged or malfunctions, you should contact Apple, or an Apple Authorized Service Provider for service. Repairs performed by untrained individuals or using non-genuine Apple parts may affect the safety and functionality of the device. You can find more information about repairs and service at the [iPad Repair and Service website](#).

Battery. An iPad battery should only be repaired by a trained technician to avoid battery damage, which could cause overheating, fire, or injury. Batteries should be recycled or disposed of separately from household waste and according to local environmental laws and guidelines. For information about battery service and recycling, see the [Battery Service and Recycling website](#).

Lasers. The TrueDepth camera system and the LiDAR Scanner contain one or more lasers. These laser systems may be disabled for safety reasons if the device is damaged or malfunctions. If you receive a notification on your iPad that the laser system is disabled, you should always have it repaired by Apple or an Apple Authorized Service Provider. Improper repair, modification, or use of non-genuine Apple components in the laser systems may prevent the safety mechanisms from functioning properly, and could cause hazardous exposure and injury to eyes or skin.

Distraction. Using iPad in some circumstances may distract you and might cause a dangerous situation (for example, avoid listening to music with headphones while riding a bicycle and avoid typing a text message while driving a car). Observe rules that prohibit or restrict the use of mobile devices or headphones.

Navigation. Maps depends on data services. These data services are subject to change and may not be available in all countries or 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 iPad with the included USB cable and power adapter. You can also charge iPad with “Made for iPad” 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. 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 iPad or other property. When you charge iPad, 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 iPad, the USB cable, and the power adapter in a well-ventilated area when in use or 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. iPad and its USB power adapter comply with required surface temperature limits defined by applicable country regulations and international and regional safety standards. However, even within these limits, sustained contact with warm surfaces for long periods of time may cause discomfort or injury. Use common sense to avoid situations where your skin is in contact with a device or its power adapter when it’s operating or connected to a power source for long periods of time. For example, don’t sleep on a device or power adapter, or place them under a blanket, pillow, or your body, when it’s connected to a power source. Keep your iPad 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.

USB power adapter specifications:

Frequency	50 to 60 Hz, single phase
Line voltage	100 to 240 Vac
Output voltage	Refer to the output marking on the power adapter

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 on iPad, see [Reduce loud headphone sounds in Settings](#). 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. iPad 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 > Legal & Regulatory > RF Exposure, or see the [RF Exposure website](#).

Radio frequency interference. Observe signs and notices that prohibit or restrict the use of mobile devices. Although iPad is designed, tested, and manufactured to comply with regulations governing radio frequency emissions, such emissions from iPad 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 iPad, or [use airplane mode](#) or Settings ⓘ > Wi-Fi and Settings > Bluetooth to turn off the iPad wireless transmitters.

Medical device interference. iPad, iPad Smart Cover, Smart Folio, Smart Keyboard Folio, Magic Keyboard, Magic Keyboard Folio, and Apple Pencil contain magnets as well as components and/or radios that emit electromagnetic fields. These magnets and electromagnetic fields might interfere with medical devices.

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 iPad, iPad Smart Cover, Smart Folio, Smart Keyboard Folio, Magic Keyboard for iPad or Apple Pencil. Manufacturers often provide recommendations on the safe use of their devices around wireless or magnetic products to prevent possible interference. If you suspect iPad, iPad Smart Cover, Smart Folio, Smart Keyboard Folio, Magic Keyboard for iPad or Apple Pencil are interfering with your medical device, stop using these products.

Medical devices such as implanted pacemakers and defibrillators may contain sensors that respond to magnets and radios when in close contact. To avoid any potential interactions with these devices, keep your iPad, iPad Smart Cover, Smart Folio, Smart Keyboard Folio, Magic Keyboard for iPad and Apple Pencil a safe distance away from your device (more than 6 inches/15cm, but consult with your physician and your device manufacturer for specific guidelines).

Not a medical device. iPad 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 iPad or flashing lights (for example, seizures, blackouts, eyestrain, or headaches), consult with your physician prior to using iPad.

Explosive and other atmospheric conditions. Charging or using iPad 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 iPad to environments having high concentrations of industrial chemicals, including near evaporating liquified gasses such as helium, may damage or impair iPad functionality. Obey all signs and instructions.

Repetitive motion. When you perform repetitive activities such as typing, swiping, or playing games on iPad, you may experience discomfort in your hands, arms, wrists, shoulders, neck, or other parts of your body. If you experience discomfort, stop using iPad 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 iPad accessories may present a choking hazard to small children. Keep these accessories away from small children.

Magnetic interference. The Magic Keyboard and Magic Keyboard Folio contain magnets that hold iPad securely in place. Avoid placing cards that store information on a magnetic strip—such as credit cards or hotel key cards—on Magic Keyboard and Magic Keyboard Folio surfaces that attach to iPad, as such contact may demagnetize the card.

For Australian customers, see the [Online Safety resources website](#).

Important handling information for iPad

Cleaning. Clean iPad 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, and lotions. To clean:

- Disconnect all cables, then do one of the following to turn off iPad:
 - *On an iPad with a Home button:* Press and hold the top button until the slider appears, then drag the slider.
 - *On other iPad models:* Simultaneously press and hold the top button and either volume button until the sliders appear, then drag the top slider.
 - *All models:* Go to Settings  > General > Shut Down, then drag 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.

The front of iPad is made of glass with 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 the glass.

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. ([models](#) with a Lightning connector) 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 your iPad 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.

Lightning to USB Cable or USB-C Charge Cable. (depending on [model](#)) Certain usage patterns can contribute to the fraying or breaking of cables. The included 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 cable.

Operating temperature. iPad 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). iPad can be damaged and battery life shortened if stored or operated outside of these temperature ranges. Avoid exposing iPad to dramatic changes in temperature or humidity. When you're using iPad or charging the battery, it is normal for iPad to get warm.

If the interior temperature of iPad 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:

- iPad stops charging.
- The screen dims.
- A temperature warning screen appears.
- Some apps may close.

Important: You may not be able to use iPad while the temperature warning screen is displayed. If iPad can't regulate its internal temperature, it goes into deep sleep mode until it cools. Move iPad to a cooler location out of direct sunlight and wait a few minutes before trying to use iPad again.

See the Apple Support article [Keeping iPhone, iPad, and iPod touch within acceptable operating temperatures](#).

Find more resources for iPad software and service

Refer to the following resources to get more iPad-related safety, software, service, and support information.

To learn about	Do this
Using iPad safely	See Important safety information .
iPad service and support, tips, forums, and Apple software downloads	See the iPad Support website .
The latest information about iPad	See the iPad website .
Getting personalized support (not available in all countries or regions)	See the Apple Support website .
Managing your Apple Account	Sign in to your Apple Account .
Using iCloud	See the iCloud User Guide .
Using iTunes for Windows	See the iTunes User Guide for Windows .
Using other Apple iPad apps	See the App Store Support website .
Finding your iPad serial number or IMEI	You can find your iPad serial number or International Mobile Equipment Identity (IMEI) on the iPad packaging. Or, on iPad, go to Settings  > General > About. See the Apple Support article Find the serial number or IMEI on your iPhone, iPad, or iPod touch .
Obtaining warranty service	First follow the advice in this guide, then see the iPad Support website .
Viewing iPad regulatory information	On iPad, go to Settings  > General > Legal & Regulatory.
Battery service	See the Battery Service and Recycling website .
Using iPad in an enterprise environment	See the Apple at Work website .
Using iPad in education	See the Education website .

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, television sets, and other electronic devices.

Transmitters in the 5925-7125 MHz band are prohibited from operating to control or communicate with unmanned aircraft systems.

Models supporting WiFi 6 GHz are prohibited from operation on oil platforms and aircraft. Operation in 5.925-6.425 GHz is permitted in large aircraft while flying above 10,000 feet

Installation on outdoor fixed infrastructure is prohibited.

Responsible party (contact for FCC matters only):

Apple Inc.

One Apple Park Way, MS 911-AHW

Cupertino, CA 95014

USA

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.

Models supporting WiFi 6 GHz operation in the 5925-7125 MHz band shall not be used for control of or communications with unmanned aircraft systems, or on oil platforms, or on aircraft, except for the low-power indoor access points, indoor subordinate devices, low-power client devices, and very low-power devices operating in the 5.925-6.425 GHz band, that may be used on large aircraft as defined by the Canadian Aviation Regulations, while flying above 3,048 meters (10,000 feet).

Models supporting WiFi 6 GHz operation in the 5925–7125 MHz band shall not be used on automobiles, trains, or maritime vessels (Except for very low-power devices).

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.

Les modèles prenant en charge le fonctionnement WiFi 6 GHz dans la bande 5 925–7 125 MHz ne doivent pas être utilisés pour le contrôle ou la communication avec des systèmes d'aéronefs sans pilote, ou sur des plateformes pétrolières ou à bord d'aéronefs, à l'exception des points d'accès intérieurs à faible puissance, des appareils subordonnés intérieurs, des appareils clients à faible puissance et des appareils à très faible puissance fonctionnant dans la bande 5,925–6,425 GHz, qui peuvent être utilisés sur de gros aéronefs tels que définis par le Règlement de l'aviation canadien, lorsqu'ils volent à plus de 3 048 mètres (10 000 pieds).

Les modèles prenant en charge le fonctionnement WiFi 6 GHz dans la bande 5 925–7 125 MHz ne doivent pas être utilisés sur les automobiles, les trains ou les navires (à l'exception des appareils à très faible puissance).

Apple and the environment

At Apple, we recognize our responsibility to minimize the environmental impacts of our operations and products. For more information, see our [Environment website](#).

Class 1 Laser information for iPad

iPad Pro 11-inch and iPad Pro 12.9-inch (3rd generation and later) are classified as Class 1 Laser products per IEC 60825-1 Ed. 3. These devices comply with 21 CFR 1040.10 and 1040.11, except for conformance with IEC 60825-1 Ed. 3., as described in Laser Notice No. 56, dated May 8, 2019. 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.



Disposal and recycling information for iPad

Apple Recycling Program (available in some countries or regions)

For free recycling of your old iPad, a prepaid shipping label, and instructions, see the [Apple Trade In website](#).

Disposal and Recycling 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. For information about Apple's recycling program, recycling collection points, restricted substances, and other environmental initiatives, visit apple.com/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 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 apple.com/mx/environment o apple.com/la/environment.

Turkey environmental information

Türkiye Cumhuriyeti: AEEE Yönetmeliğine Uygundur.

Battery service

The lithium-ion battery in iPad should be serviced by Apple or an authorized service provider. See the [Battery Service and Recycling website](#).

Dispose of batteries according to your local environmental laws and guidelines.

警告：不要刺破或焚燒。該電池不含水銀。



廢電池請回收
警告：請勿刺破或焚燒。此電池不含汞。

Unauthorized modification of iPadOS

iPadOS is designed to be reliable and secure from the moment you turn on your device. Built-in security features help protect against malware and viruses and secure user access to personal information and corporate data. Unauthorized modifications to iPadOS (also known as "jailbreaking") bypass security features and can cause numerous issues such as security vulnerabilities, instability, and shortened battery life to the hacked iPad.

- **Security vulnerabilities.** Jailbreaking your device eliminates security layers designed to protect your personal information and your iPadOS device. With this security removed from your iPadOS device, hackers may steal your personal information, damage your device, attack your network, or introduce malware, spyware, or viruses.
- **Instability.** Unauthorized modifications can cause frequent and unexpected crashes of the device, crashes and freezes of built-in apps and third-party apps, and loss of data.
- **Shortened battery life.** Hacked software can cause an accelerated battery drain that shortens the operation of iPad on a single battery charge.
- **Unreliable voice and data.** Unauthorized modifications can cause dropped calls, slow or unreliable data connections, and delayed or inaccurate location data.
- **Disruption of services.** Services such as iCloud, iMessage, FaceTime, Apple Pay, Visual Voicemail, Weather, and Stocks, may be disrupted or no longer work on the device. Additionally, third-party apps that use the Apple Push Notification Service may experience difficulty receiving notifications or may receive notifications intended for a different device. Other push-based services, such as iCloud and Exchange, may experience problems syncing data with their respective servers.
- **Inability to apply future software updates.** Some unauthorized modifications may cause damage to iPadOS that is not repairable. This can result in the hacked iPad becoming permanently inoperable when a future Apple-supplied iPadOS update is installed.

Apple strongly cautions against installing any software that modifies iPadOS. It is also important to note that unauthorized modification of iPadOS is a violation of the iOS and iPadOS Software License Agreement and because of this, Apple may deny service for an iPad that has any unauthorized software installed.

Information about products not manufactured by Apple, or independent websites not controlled or tested by Apple, is provided without recommendation or endorsement. Apple assumes no responsibility with regard to the selection, performance, or use of third-party websites or products. Apple makes no representations regarding third-party website accuracy or reliability. Contact the vendor for additional information.

ENERGY STAR® compliance statement for iPad



To save energy, iPad is set to lock after two minutes of user inactivity. To change this setting, go to Settings  > Display & Brightness > Auto-Lock, then select an option. To unlock an iPad with a Home button, press the top button or the Home button. To unlock other iPad models, tap the screen or press the top button.

iPad meets the ENERGY STAR guidelines for energy efficiency. Reducing energy consumption saves money and helps conserve valuable resources; see the [Energy Star website](#).

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