1. Go to Settings > Touch ID & Passcode.

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

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

Unlock iPad by touching instead of pressing the Home button

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

Turn off Touch ID

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

Change access to items when iPad is locked

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

1. Go to Settings, then depending on your model, tap one of the following:

   - Face ID & Passcode
   - Touch ID & Passcode
   - Passcode

2. Select your options.

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

   - Today View (see View and organize Today View on iPad)
   - Recent notifications (see View and respond to notifications on iPad)
   - Control Center (see Use and customize Control Center on iPad)
   - Siri (see Ask Siri on iPad)
   - Home Control (see A look at Home on iPad)
   - Returning Missed Calls (see Make and receive FaceTime calls on iPad)
   - Connecting to a Mac, a Windows PC, or an accessory with USB (such as when you connect iPad to your computer using USB)

Create website and app passwords on iPad

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

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

Create a password for a new account

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

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

2. Do one of the following:

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

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

Automatically fill in a saved password

1. On the sign-in screen for the website or app, tap the account name field.
2. Do one of the following:

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

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

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

View your saved passwords

Ask Siri. Say something like: "Show me my passwords." Learn how to ask Siri.

To view the password for an account, tap it.

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

- Go to Settings > Passwords & Accounts > Website & App Passwords.

- On a sign-in screen, tap , then tap Other Passwords.

Change a weak password

1. Go to Settings > Passwords & Accounts > Website & App Passwords.

   Weak passwords are flagged with .

2. Tap any account flagged with .

   A message explains what makes the password weak.

3. Tap Change Password, then change your password on the website or in the app.

Prevent iPad from automatically filling in passwords

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

Share website and app passwords with AirDrop on iPad

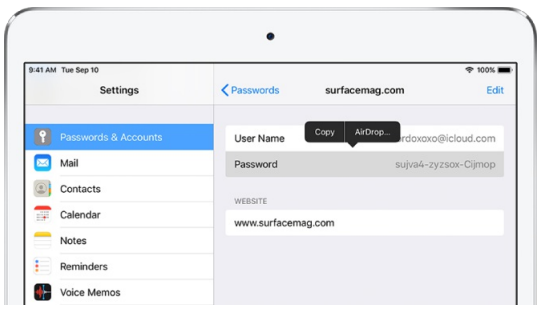
Use AirDrop to securely share passwords with someone using an iPhone, iPad, iPod touch, or Mac.

iCloud Keychain must be set up on your iPad.

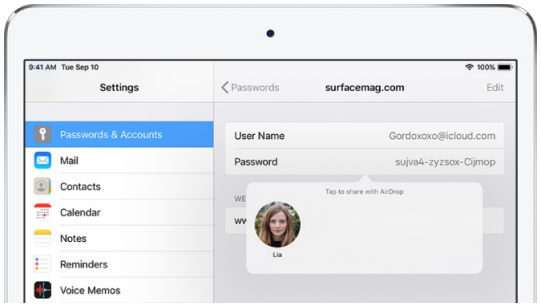
Send a password

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

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



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



Receive a password

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

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

The password is saved on your iPad, where you can view it and let iPad automatically fill it in on the sign-in screen for the account.

Manage two-factor authentication from iPad

Two-factor authentication helps prevent others from accessing your Apple ID account, even if they know your Apple ID password. Two-factor authentication is built into iOS 9, iPadOS 13, OS X 10.11, or later.

Certain features in iOS, iPadOS, and macOS require the security of two-factor authentication, which is designed to protect your information. If you create a new Apple ID 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 ID account without two-factor authentication, you can turn on its extra layer of security at any time.

Note: Certain account types may be ineligible for two-factor authentication at the discretion of Apple. Two-factor authentication isn't available in all countries or regions. See the Apple Support article Availability of two-factor authentication for Apple ID.

For information about how two-factor authentication works, see the Apple Support article Two-factor authentication for Apple ID.

Turn on two-factor authentication

1. If your Apple ID account isn't already using two-factor authentication, go to Settings > [*your name*] > Password & Security.

2. Tap Turn On Two-Factor Authentication, then tap Continue.
3. Enter a *trusted phone number* (a phone number where you want to receive verification codes for two-factor authentication).

   You can choose to receive the codes by text message or automated phone call.
4. Tap Next.
5. Enter the verification code sent to your trusted phone number.

   To send or resend a verification code, tap “Didn’t get a verification code?”

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

After you turn on two-factor authentication, you have a two-week period during which you can turn it off. After that period, you can’t turn off two-factor authentication. To turn it off, open your confirmation email and click the link to return to your previous security settings. Keep in mind that turning off two-factor authentication makes your account less secure and means you can’t use features that require a higher level of security.

Note: If you use two-step verification and upgrade to iPadOS 13 or later, your account might be migrated to use two-factor authentication. See the Apple Support article Switch from two-step verification to two-factor authentication.

Add another device as a trusted device

A trusted device is one that can be used to verify your identity by displaying a verification code from Apple when you sign in on a different device or browser. A trusted device must meet these minimum system requirements: iOS 9, iPadOS 13, or OS X 10.11.

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

2. When you're asked to enter a six-digit verification code, do one of the following:

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

   - *Obtain the verification at a trusted phone number:* If a trusted device isn't available, tap "Didn't get a verification code?" then choose a phone number.

   - *Obtain the verification code on a trusted device that's offline:* On a trusted iPhone, iPad, or iPod touch, go to Settings > [*your name*] > Password & Security, then tap Get Verification Code. On a trusted Mac with macOS Catalina, choose Apple menu > System Preferences > Apple ID > Password & Security, then click Get Verification Code. On a trusted Mac with macOS 10.14 and earlier, choose Apple menu > System Preferences > iCloud > Account Details > Security, then click Get Verification Code.

3. Enter the verification code on the new device.

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

Add or remove a trusted phone number

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

1. Go to Settings > [*your name*] > Password & Security.

2. Tap Edit (above the list of trusted phone numbers), then do one of the following:

   - *Add a number:* Tap Add a Trusted Phone Number.

   - *Remove a number:* Tap next to the phone number.

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

View or remove trusted devices

1. Go to Settings > [*your name*].

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

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

   Removing a trusted device ensures that it can no longer display verification codes and that access to iCloud (and other Apple services on the device) is blocked until you sign in again with two-factor authentication.

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

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

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

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

For more information, see the Apple Support article Using app-specific passwords.

Set up iCloud Keychain on iPad

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

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

Set up iCloud Keychain

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

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

Set up iCloud Keychain on an additional device

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

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

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

Reset or create an iCloud Security Code

If you enter the wrong iCloud Security Code too many times when using iCloud Keychain, your iCloud Keychain is disabled on that device, and your keychain in iCloud is deleted.

To reset or create a new iCloud Security Code, see the Apple Support article If you enter your iCloud Security Code incorrectly too many times.

To learn more about iCloud Keychain, see the Apple Support article Set up iCloud Keychain.

Use VPN on iPad

A VPN (virtual private network) provides secure access over the Internet to private networks, such as the network at your organization. You may need to install a VPN app from the App Store that configures iPad to access a network. Contact your system administrator for information about the app and settings you need.

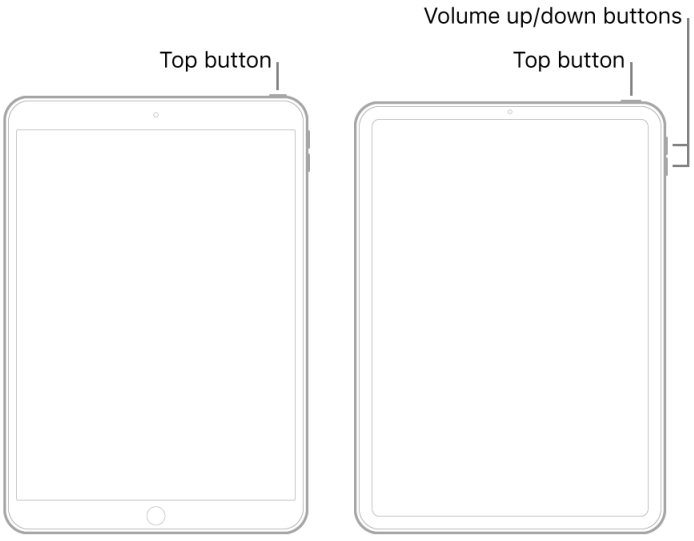
Restart, update, reset, and restore

Restart iPad

If your iPad isn’t working right, try restarting it.

Turn iPad off and on

1. To turn off iPad, do one of the following:
   - *On an iPad with a Home button:* Press and hold the top button until the slider appears, then drag the slider.
   - *On an iPad with Face ID:* 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.
2. To turn iPad back on, press and hold the top button until the Apple logo appears.

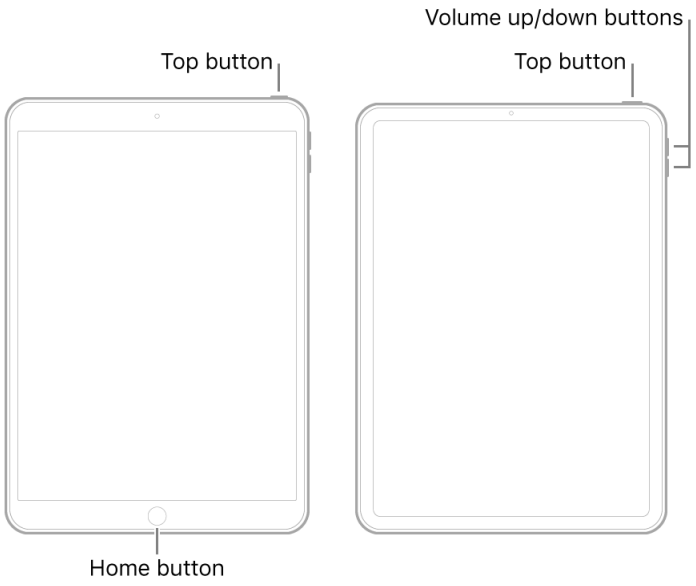


Force restart iPad

If iPad isn’t responding, do one of the following:

- *On an iPad with a Home button:* Press and hold the top button and the Home button at the same time. When the Apple logo appears, release both buttons.

- *On an iPad with Face ID:* Press and quickly release the volume up button, press and quickly release the volume down button, then press and hold the top button. When the Apple logo appears, release the button.



Note: If iPad still doesn't turn on, or if it gets stuck during start up, see the Apple Support article If your iPhone, iPad, or iPod touch won't turn on or is frozen.

Update iPadOS

When you update to the latest version of iPadOS, your data and settings remain unchanged.

Note: 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 iPad, go to Settings > General > Software Update > Automatic Updates, then turn on Automatic Updates.

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

Update iPad manually

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

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

Update using your computer

1. Connect iPad and your computer using USB.
2. Do one of the following:
   - *In the Finder sidebar on your Mac:* Select your iPad, then click General at the top of the window.

     Note: To use the Finder to update your iPad, macOS Catalina is required. With earlier versions of macOS, use iTunes to update your iPad.
   - *In the iTunes app on your Windows PC:* Click the iPad button near the top left of the iTunes window, then click Summary.
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 iOS devices.

Tip: If you replace your iPad, you can use its backup to transfer your information to the new device. See Restore all content to iPad from a backup.

Back up iPad using iCloud

1. Go to Settings > [*your name*] > iCloud > iCloud Backup.
2. Turn on iCloud Backup. iCloud automatically backs up your iPad daily when iPad is connected to power, locked, and on Wi-Fi.
3. To perform a manual backup, tap Back Up Now.

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

Back up iPad using your Mac

1. Connect iPad and your computer using USB.
2. In the Finder sidebar on your Mac, select your iPad.

   Note: To use the Finder to back up iPad, macOS Catalina 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 Wi-Fi syncing.

Back up iPad using your Windows PC

1. Connect iPad and your computer using USB.
2. In the iTunes app on your PC, 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 Wi-Fi syncing.

Return iPad settings to their defaults

You can return settings to their defaults without erasing your content.

If you want to save your settings, back up iPad before returning them to their defaults. For example, if you’re trying to solve a problem but returning settings to their defaults doesn’t help, you might want to restore your previous settings from a backup.

---

1. Go to Settings > General > Reset.

2. Choose an option:

   WARNING: If you choose the Erase All Content and Settings option, all of your content is removed. See Erase all content and settings from iPad.

   - *Reset All Settings:* All settings—including network settings, the keyboard dictionary, the Home screen layout, location settings, privacy settings, and Apple Pay cards—are removed or reset to their defaults. No data or media are deleted.

   - *Reset Network Settings:* 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 settings on iPad.)

     When you reset network settings, previously used networks and VPN settings that weren't installed by a configuration profile or mobile device management (MDM) are removed. Wi-Fi is turned off and then back on, disconnecting you from any network you're on. The Wi-Fi and Ask to Join Networks settings remain turned on.

     To remove VPN settings installed by a configuration profile, go to Settings > General > Profiles & Device Management, select the configuration profile, then tap Remove Profile. This also removes other settings and accounts provided by the profile. See Install or remove configuration profiles on iPad in this guide.

     To remove network settings installed by MDM, go to Settings > General > Profiles & Device Management, select the management, then tap Remove Management. This also removes other settings and certificates provided by MDM. See "Mobile device management (MDM)" in the iOS Deployment Reference.

   - *Reset Keyboard Dictionary:* You add words to the keyboard dictionary by rejecting words 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 use a computer to delete your content along with your settings and then restore iPad to factory settings, see Restore iPad to factory settings. If you want to completely erase all content and settings, see Erase all content and settings from iPad.

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: You must first create a backup of your iPad. See Back up iPad.

Restore iPad from an iCloud backup

1. Turn on a new or newly erased iPad.
2. Follow the online instructions to choose a language and region.
3. Tap Set Up Manually.
4. Tap Restore from iCloud Backup, then follow the onscreen instructions.

You're asked for your Apple ID. If you've forgotten your Apple ID, see the Recover your Apple ID website.

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:
   - *In the Finder sidebar on your Mac:* Select your iPad, then click Trust.

     Note: To use the Finder to restore iPad from a backup, macOS Catalina is required. With earlier versions of macOS, use iTunes to restore from a backup.
   - *In the iTunes app on a Windows PC:* If you have multiple devices connected to your PC, click the device icon near the top left of the iTunes window, then select your new or newly erased iPad from the list.
3. On the welcome screen, click "Restore from this backup," 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 from the App Store, Book Store, and iTunes Store without repurchasing them. If you're part of a Family Sharing group, you can download items purchased by other family members, too. To restore purchases that aren't on your iPad, see the Apple Support article Redownload apps, music, movies, TV shows, and books from the App Store, iTunes Store, and Apple Books.

You can also recover recently deleted email, photos, notes, and voice memos.

Sell or give away your iPad

Before you sell or give away your iPad, see the Apple Support article What to do before you sell or give away your iPhone, iPad, or iPod touch, and be sure to perform the following tasks:

- Back up iPad. If you replace one iPad with another, you can use the setup assistant to restore the backup to your new iPad.
- 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.

Erase all content and settings from iPad

When you delete data, it's no longer accessible through the iPad interface, but it isn't erased from iPad storage. To remove all of your content and settings from storage, erase iPad. For example, erase iPad before you sell it or give it away. If you want to save your content and settings, back up iPad before erasing it.

1. Go to Settings > General > Reset.

   If you're asked to enter your passcode and you've forgotten it, see Reset the passcode. If you're asked to enter your Apple ID password and you've forgotten it, see the Recover your Apple ID website.

2. Tap Erase All Content and Settings.

When iPad restarts with all content and settings erased, you have the option to set up iPad as new or restore it from a backup. (See Turn on and set up iPad.)

Restore iPad to factory settings

You can use a Mac or Windows PC to erase all data and settings from your iPad, restore iPad to factory settings, and install the latest version of iPadOS.

Important: Restoring your iPad to its factory settings erases all your data and settings. However, before iPad is erased, you have the option to back up your iPad. If you make a backup, you can use the backup to restore your data and settings on your iPad or on a new device. See Restore iPad from a computer backup.

1. Connect iPad and your computer using USB.

2. Do one of the following:

   - *In the Finder sidebar on your Mac:* Select your iPad, click General at the top of the window, then click Restore iPad.

     Note: To use the Finder to restore iPad to factory settings, macOS Catalina is required. With earlier versions of macOS, use iTunes to restore iPad.

   - *In the iTunes app on a Windows PC:* Click the iPad button near the top left of the iTunes window, click Summary, then click Restore iPad.

3. Follow the onscreen instructions.

See the Apple Support article If you can't update or restore your iPhone, iPad, or iPod touch.

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 is downloaded from a webpage. You're asked for permission to install the profile and, when you open the file, information about what it contains is displayed. You can see the profiles you have installed in Settings > General > Profiles & Device Management. If you delete a profile, all of the settings, apps, and data associated with the profile are also deleted.

Accessibility

Get started with accessibility features on iPad

iPad provides many accessibility features to support your vision, physical and motor, hearing, and learning needs. Learn how to configure these features and set up shortcuts for easy access.

Turn on accessibility features during setup

You can turn on many accessibility features right away when you first set up iPad. Turn on iPad, then do any of the following:

- *Turn on VoiceOver:* Triple-click the Home button (on an iPad with a Home button) or triple-click the top button (on other iPad models).
- *Turn on Zoom:* Double-tap the screen with three fingers.
- *Turn on Switch Control, Larger Text, Smart Invert, and more:* Choose a language and country, tap , then choose the features you want.

Change accessibility settings

After you set up iPad, you can adjust accessibility settings.

1. Go to Settings > Accessibility.
2. Choose any of the following features:
    - Vision
        - VoiceOver
        - Zoom
        - Magnifier
        - Display & Text Size
        - Motion
        - Spoken Content
        - Audio Descriptions

- Physical and Motor
  - Touch
  - Face ID & Attention
  - Switch Control
  - Voice Control
  - Home or top button
  - Apple TV Remote
  - Pointer Control
  - Keyboards
  - Apple Pencil
  - AirPods Pro
- Hearing
  - Hearing Devices
  - RTT
  - Audio/Visual
  - Subtitles & Captioning
- General
  - Guided Access
  - Siri
  - Accessibility Shortcut

Vision

VoiceOver

Turn on and practice VoiceOver on iPad

With VoiceOver—a gesture-based screen reader—you can use iPad even if you don't see the screen. VoiceOver gives audible descriptions of what's on your screen—from battery level, to who's calling, to which app your finger is on. You can also adjust the speaking rate and pitch to suit your needs.

When you touch the screen or drag your finger over it, VoiceOver speaks the name of the item your finger is on, including icons and text. To interact with the item, such as a button or link, or to navigate to another item, use VoiceOver gestures.

When you go to a new screen, VoiceOver plays a sound, then selects and speaks the name of the first item on the screen (typically in the top-left corner). VoiceOver tells you when the display changes to landscape or portrait orientation, when the screen becomes dimmed or locked, and what's active on the Lock screen when you wake 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, use any of the following methods:

- Go to Settings > Accessibility > VoiceOver, then turn the setting on or off.
- Summon Siri and say "Turn on VoiceOver" or "Turn off VoiceOver."
- Triple-click the Home button (on an iPad with a Home button).
- Triple-click the top button (other an iPad with Face ID).
- Use Control Center.

Learn and practice VoiceOver gestures

You can practice VoiceOver gestures in a special area without affecting iPad or its settings. When you practice a gesture, VoiceOver describes the gesture and the resulting action.

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

1. Go to Settings > Accessibility > VoiceOver.
2. Turn on VoiceOver, tap VoiceOver Practice, then double-tap to start.
3. Practice the following gestures with one, two, three, and four fingers:
    - Tap
    - Double-tap
    - Triple-tap
    - Swipe left, right, up, or down

4. When you finish practicing, tap Done, then double-tap to exit.

Change your VoiceOver settings on iPad

You can customize the settings for VoiceOver, such as the audio options, language, voice, speaking rate, and verbosity.

Adjust the VoiceOver volume and other audio options

- To increase or decrease the volume, press the volume buttons on iPad.
- To set other audio options, go to Settings > Accessibility > VoiceOver > Audio, then do any of the following:
  - Turn on Mute Sound Effects.
  - Turn on Audio Ducking to temporarily reduce playback volume when VoiceOver speaks.
  - Adjust audio routing options when you connect additional devices, such as an instrument amplifier or a DJ mixer.

Set the VoiceOver language

VoiceOver uses the same language you choose for your iPad. VoiceOver pronunciation of some languages is affected by the Region Format you choose.

1. Go to Settings > General > Language & Region.
2. Tap iPad Language, then choose a language.

Adjust the speaking voice

Go to Settings > Accessibility > VoiceOver, then do any of the following:

- *Adjust the speaking rate:* Drag the Speaking Rate slider.
- *Choose a voice:* Tap Speech > Voice, then choose a voice. To download an enhanced voice, tap .
- *Adjust the pitch:* Tap Speech, then drag the slider. You can also turn on Use Pitch Change to have VoiceOver use a higher pitch when speaking the first item of a group (such as a list or table) and a lower pitch when speaking the last item of a group.
- *Specify the pronunciation of certain words:* Tap Speech > Pronunciations, tap +, enter a phrase, then dictate or spell out how you want the phrase to be pronounced.

  Note: You can dictate only if you turned on Enable Dictation in Settings > General > Keyboards.

Set how much VoiceOver tells you

Go to Settings > Accessibility > VoiceOver, then tap any of the following:

- *Verbosity:* Choose options to have VoiceOver speak hints, punctuation, uppercase letters, embedded links, and more. VoiceOver can even confirm rotor actions.

  To change how VoiceOver speaks punctuation, tap Punctuation, then choose a group. You can also create new groups—for example, a programming group in which "[" is spoken as "left brack."

- *Always Speak Notifications:* VoiceOver reads notifications, including incoming text messages as they occur, even if iPad is locked. Unacknowledged notifications are repeated when you unlock iPad.

Customize VoiceOver settings for an activity

You can customize a group of VoiceOver settings for an activity such as programming. Apply the settings automatically when you open certain apps or by adjusting the rotor.

1. Go to Settings > Accessibility > VoiceOver > Activities.
2. Choose an existing activity or tap Add Activity.
3. Adjust settings for speech, verbosity, and braille.
4. Choose Apps or Context to automatically apply the settings for this activity.

Adjust VoiceOver visuals

Go to Settings > Accessibility > VoiceOver, then turn on any of the following:

- *Large Cursor:* If you have difficulty seeing the black outline around the selected item, you can enlarge and thicken the outline.
- *Caption Panel:* The text spoken by VoiceOver is displayed at the bottom of the screen.

Learn VoiceOver gestures on iPad

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	VoiceOver gesture to perform action
Select and speak an item	Tap or touch the item
Select the next item	Swipe right
Select the previous item	Swipe left
Select the first item on the screen	Four-finger tap near the top of the screen
Select the last item on the screen	Four-finger tap near the bottom of the screen
Speak the entire screen from the top	Two-finger swipe up
Speak the entire screen from the selected item	Two-finger swipe down
Pause or continue speaking	Two-finger tap
Speak additional information, such as the position within a list or whether text is selected	Three-finger tap

Scroll up, down, left, and right

Use VoiceOver gestures to move to another page.

Action	VoiceOver gesture to perform action
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	VoiceOver gesture to perform action
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	VoiceOver gesture to perform action
Mute or unmute VoiceOver	Three-finger double-tap. If both VoiceOver and Zoom are enabled, use the three-finger triple-tap gesture.
Turn the screen curtain on or off (When the screen curtain is on, the screen contents are active even though the display is turned off.)	Three-finger triple-tap. If both VoiceOver and Zoom are enabled, use the three-finger quadruple-tap gesture.

Use a standard gesture	Double-tap and hold your finger on the screen until you hear three rising tones, then make the gesture. When you lift your finger, VoiceOver gestures resume. For example, to drag a volume slider with your finger instead of swiping up and down, select the slider, double-tap and hold, wait for the three tones, then slide left or right.
Open the Item Chooser	Two-finger triple-tap. To move quickly through the list of items, type a name in the search field, swipe right or left to move through the list alphabetically, or tap the table index to the right of the list and swipe up or down. You can also use handwriting to select an item by writing its name. To dismiss the Item Chooser without making a selection, double-tap.

Use the VoiceOver rotor

You can use the rotor to change VoiceOver settings, jump from one item to the next on the screen, select special input methods such as Braille Screen Input or Handwriting, and more. For details, see Control VoiceOver using the rotor on iPad.

Use these gestures to use the rotor.

Action	VoiceOver gesture to perform action
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 using VoiceOver gestures

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 Touch ID:* Press the Home button.

- *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 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.
- Press the Home button (on an iPad with a 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 five fingers to cycle through the open apps. (Make sure Gestures is turned on in Settings > General > Multitasking & Dock.)

Alternatively, you can use the App Switcher:

1. Open the App Switcher using one of the following methods:
   - 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.

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.

Speak status bar information

1. Tap the status bar at the top of the screen.
2. Swipe left or right to hear the time, battery state, Wi-Fi signal strength, and more.

Rearrange apps on your Home screen

Use one of the following methods:

- *Drag and drop:* Tap an icon on the Home screen, then double-tap and hold your finger on the screen until you hear three rising tones. The item's relative location is described as you drag. Lift your finger when the icon is in its new location. Drag an icon to the edge of the screen to move it to another Home screen.
- *Move actions:* Tap an app, then swipe down to hear available actions. When you hear "Edit Mode," double-tap to start arranging apps. Find the app you want to move, then swipe down to the Move action and double-tap. Move the VoiceOver cursor to the new destination for the app, then choose from the available actions: Cancel Move, Create New Folder, Add to Folder, Move Before, or Move After.

When you're finished, tap Done, then double-tap.

Search from the Home screen

1. Tap anywhere on the Home screen outside the status bar.
2. Swipe down with three fingers.

Control VoiceOver using the rotor on iPad

You can use the VoiceOver rotor to change how VoiceOver works. You can adjust the VoiceOver volume or speaking rate, move from one item to the next on the screen, select special input methods such as Braille Screen Input or Handwriting, and more.

When you use Magic Keyboard to control VoiceOver, use the rotor to adjust settings such as volume, speech rate, use of pitch or phonetics, typing echo, and reading of punctuation.

Use the VoiceOver rotor

1. When VoiceOver is turned on, rotate two fingers on your screen as if you're turning a dial. If you prefer to use one finger on each hand, simultaneously drag up with one finger and drag down with the other.

   VoiceOver speaks the rotor setting. Keep rotating your fingers to hear more settings. Stop rotating your fingers when you hear the setting you want.

2. Swipe your finger up or down on the screen to use the setting.

   The available rotor settings and their effects depend on what you're doing. For example, if you choose Headings when you're browsing a webpage, a swipe down or up will move the VoiceOver cursor to the next or previous heading.

Customize the VoiceOver rotor

1. Go to Settings > Accessibility > VoiceOver.
2. Do any of the following:
   - *Add or reorder the rotor settings:* Tap Rotor, then choose the settings you want, or drag to reorder settings.
   - *Add another language:* Tap Speech > Add New Language (below Rotor Languages), then choose a language.
   - *Have VoiceOver confirm rotor actions:* Tap Verbosity, then turn on Speak Confirmation.

Use the onscreen keyboard with VoiceOver on 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. Enter text using one of the following methods:

   - *Standard typing (default):* Select a key on the keyboard by swiping left or right, then double-tap to enter the character. Or move your finger around the keyboard to select a key and, while continuing to touch the key with one finger, tap the screen with another finger. VoiceOver speaks the key when it's selected, and again when the character is entered.
   - *Touch typing:* Touch a key on the keyboard to select it, then lift your finger to enter the character. If you touch the wrong key, slide your finger to the key you want. VoiceOver speaks the character for each key as you touch it, but doesn't enter a character until you lift your finger.
   - *Direct Touch typing:* VoiceOver is disabled for the keyboard only, so you can type just as you do when VoiceOver is off.
   - *Dictation:* Use a two-finger double-tap on the keyboard to start and stop dictation.

To enter an accented character, use one of the following methods:

- *Standard typing (default):* Select the plain character, then double-tap and hold until you hear a tone indicating alternate characters have appeared. Drag left or right to select and hear the choices. Release your finger to enter the current selection.
- *Touch typing:* Touch and hold a character until the alternate characters appear.

Edit text with the onscreen keyboard

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

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

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

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

- *Delete a character:* Use ⌫.
- *Select text:* Use one of the following methods.
  - Set the rotor to Text Selection, swipe up or down to choose Character, Word, Line, or Sentence, then swipe left or right to move backward or forward. (You may need to enable Text Selection—go to Settings > Accessibility > VoiceOver > Rotor.)
  - Set the rotor to Edit, swipe up or down to choose Select or Select All, then double-tap. If you choose Select, the word closest to the insertion point is selected when you double-tap. To increase or decrease the selection, do a two-finger scrub to dismiss the pop-up menu, then pinch.
- *Cut, copy, or paste:* Set the rotor to Edit, select the text, swipe up or down to choose Cut, Copy, or Paste, then double-tap.
- *Fix misspelled words:* Set the rotor to Misspelled Words, then swipe up or down to jump to the previous or next misspelled word. Swipe left or right to choose a suggested replacement, then double-tap to use the replacement.
- *Undo:* Shake 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.
   - *Rotor:* Select the settings you want to include in the rotor.
   - *Speech:* Tap Add New Language (below Rotor Languages), then choose a language.
   - *Verbosity:* Tap Deleting Text. To have VoiceOver speak deleted characters in a lower pitch, tap Change Pitch.

Write with your finger using VoiceOver on iPad

With Handwriting mode, you can enter text by writing characters on the screen with your finger. In addition to normal text entry, use handwriting mode to enter your 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 type of character you want.
   - *Enter a space:* Swipe right with two fingers.
   - *Go to a new line:* Swipe right with three fingers.
   - *Delete the previous character:* Swipe left with two fingers.

4. To exit handwriting mode, do a two-finger scrub, or set the rotor to a different setting.

Enter your passcode silently with handwriting mode

1. On the passcode screen, set the rotor to Handwriting.
2. Write the characters of your passcode with your finger.

Select an item on the Home screen

1. On the Home screen, set the rotor to Handwriting.
2. Start writing the name of the item with your finger.

   If there are multiple matches, continue to spell the name until it's unique, or swipe up or down with two fingers to choose from the current matches.

Quickly navigate a long list

1. Select the index to the right of the list (for example, next to your Contacts list or in the VoiceOver Item Chooser).
2. Set the rotor to Handwriting, then use your finger to write the letter you want to navigate to.

Use VoiceOver on iPad with Smart Keyboard or Magic Keyboard

If you use Smart Keyboard or Magic 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” in the tables below.

VoiceOver keyboard commands

VO = modifier keys

Action	Keyboard 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 Spotlight 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-/
Start, stop, or pause an action	VO-Hyphen
Swipe up or down	VO-Up Arrow or VO-Down Arrow
Adjust the rotor	VO-Command-Left Arrow or VO-Command-Right Arrow
Adjust the setting specified by the rotor	VO-Command-Up Arrow or VO-Command-Down Arrow
Turn the screen curtain on or off	VO-Shift-F11
Return to the previous screen	Esc

Quick Nav using the arrow keys

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

Action	Keyboard 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 press the key for the item type.

Item type	Keyboard 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	Keyboard 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

Type onscreen braille using VoiceOver on iPad

If you turn on Braille Screen Input, you can use your fingers to enter six-dot braille or contracted braille directly on the iPad screen.

Enter braille on the screen

Enter braille with iPad lying flat in front of you (tabletop mode), or hold iPad with the screen facing away so your fingers curl back to tap the screen (screen away mode).

1. Set the rotor to Braille Screen Input.

   If you don’t see Braille Screen Input in the rotor, go to Settings > Accessibility > VoiceOver > Rotor, then select it from the list.

2. Enter braille characters by tapping the screen with one or several fingers at the same time.

   You can also do any of the following:

   - *Enter a space:* Swipe right with one finger. (In screen away mode, swipe to *your* right.)
   - *Delete the previous character:* Swipe left with one finger.
   - *Move to a new line:* Swipe right with two fingers.
   - *Cycle through spelling suggestions:* Swipe up or down with one finger.
   - *Enter a carriage return, or send a message (in Messages):* Swipe up with three fingers.
   - *Switch between six-dot braille and contracted braille:* Swipe to the right with three fingers.
   - *Turn braille contractions on or off:* Swipe to the right with three fingers.
   - *Translate immediately (when contractions are enabled):* Swipe down with two fingers.
   - *Switch to the next keyboard:* Swipe up with two fingers.

3. To exit Braille Screen Input, do a two-finger scrub, or adjust the rotor to another setting.

Tip: To have iPad read dots aloud, tap and hold the dots, then when you hear the timer tones and announcement, release the dots.

Adjust entry dot positions

To move the entry dots to match your natural finger positions, double-tap all the dots.

Change Braille Screen Input settings

1. Go to Settings > Accessibility > VoiceOver > Braille > Braille Screen Input.
2. Do any of the following:
   - Set six-dot or contracted Braille as the default.
   - Reverse dot positions for six-dot and eight-dot Braille.

Use a braille display with VoiceOver on iPad

You can use a Bluetooth braille display to read VoiceOver output, and a braille display with input keys and other controls to control iPad when VoiceOver is turned on. 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

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.

Adjust the braille settings

1. On iPad, go to Settings > Accessibility > VoiceOver > Braille.
2. Do any of the following:
   - Choose contracted, uncontracted eight-dot, or uncontracted six-dot braille input or output
   - Add Braille tables that appear in the Braille Table rotor
   - Turn on the status cell and choose its location
   - Turn on Nemeth code for mathematical equations
   - Display the onscreen keyboard
   - Choose to have the page turned automatically when panning
   - Change the braille translation from Unified English
   - Change the alert display duration
   - Adjust the key debounce duration (the timing used between typing and activating commands)

Output closed captions in braille during media playback

1. On iPad, go to Settings > Accessibility > VoiceOver > Verbosity.
2. Choose Braille or Speech and Braille.

For information about common braille commands for VoiceOver navigation, and for information specific to certain displays, see the Apple Support article Common braille commands for VoiceOver on your iPhone, iPad, and iPod touch.

Customize VoiceOver gestures and keyboard shortcuts on 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 under the pointer.

Use VoiceOver in apps on iPad

You can use VoiceOver to interact with apps such as Maps, Camera, Photos, Voice Memos, Safari, and more even if you can't see the screen.

Read PDF documents in Apple Books or Files using VoiceOver

VoiceOver can read detailed information—such as forms, tables, and lists—in PDF documents.

Browse the web in Safari using VoiceOver

- *Search the web:* Select the search field, double-tap to invoke the keyboard, enter your search, then swipe right or left to move down or up the list of suggested search phrases. Then double-tap the screen to search the web using the selected phrase.
- *Skip to the next page element of a particular type:* Set the rotor to the element type—such as headings, links, and form controls—then swipe up or down.
- *Set the rotor settings for web browsing:* Go to Settings > Accessibility > VoiceOver > Rotor. Tap to select or deselect settings, or drag up or down to reposition an item.

- *Skip images while navigating:* Go to Settings > Accessibility > VoiceOver > Navigate Images. You can choose to skip all images or only those without descriptions.
- *Reduce page clutter for easier reading and navigation:* Select the Reader item in the Safari address field (not available for all webpages).
- *Allow websites to customize their behavior for assistive technologies:* Go to Settings > Accessibility > VoiceOver > Web, then turn on Accessibility Events. This setting may reveal whether an assistive technology is active on your iPad.

Tip: If you pair Magic Keyboard with iPad, you can use single-key Quick Nav commands to navigate webpages.

Read math equations using VoiceOver

VoiceOver can read math equations on the web (encoded using MathML) and in supported Apple apps such as Numbers and Keynote.

- *Hear an equation:* Have VoiceOver read the text as usual. VoiceOver says “math” before it starts reading an equation.
- *Explore the equation:* Double-tap the selected equation to display it in full screen and move through it one element at a time. Swipe left or right to read elements of the equation. Use the rotor to select Symbols, Small Expressions, Medium Expressions, or Large Expressions, then swipe up or down to hear the next element of that size. You can continue to double-tap the selected element to “drill down” into the equation to focus on the selected element, then swipe left or right, or up or down, to read one part at a time.

Equations spoken by VoiceOver can also be output to a braille device using Nemeth code, as well as the codes used by Unified English Braille, British English, French, and Greek. See Use a braille display with VoiceOver on iPad.

Navigate in Maps with VoiceOver

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

- *Control how the map tracks your current location:* Double-tap ➶ until you hear the tracking option you want:
  - *Tracking on:* The map automatically centers on your current location.
  - *Tracking on with heading:* The map automatically centers on your current location and rotates so that the heading you’re facing is at the top of the screen. In this mode, 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 down or up with one finger.
- *Pan the map:* Swipe with three fingers.
- *Browse visible points of interest:* Set the rotor to Points of Interest, then swipe up or down with one finger.
- *Follow a road:* Hold your finger down on the road, wait until you hear “pause to follow,” then move your finger along the road while listening to the guide tone. The pitch increases when you stray from the road.
- *Select a pin:* Touch a pin, or swipe left or right to select the pin.
- *Get information about a location:* With a pin selected, double-tap to display the information flag. Swipe left or right to select the More Info button, then double-tap to display the information page.

Use Camera, Photos, and Voice Memos with VoiceOver

Use VoiceOver gestures to take and edit Camera videos and Voice Memo recordings.

- *Pause or continue a recording:* Double-tap the screen with two fingers.
- *Trim a video:* While viewing a video in Photos, double-tap the screen to display the video controls, then select the beginning or end of the trim tool. Then swipe up to drag to the right, or swipe down to drag to the left. VoiceOver announces the amount of time the current position will trim from the recording. To complete the trim, select Trim, then double-tap.
- *Trim a voice memo:* Select the memo in Voice Memos, tap Edit, then tap Start Trimming. Select the beginning or end of the selection, double-tap and hold, then drag to adjust. VoiceOver announces the amount of time the current position will trim from the recording. Tap Play to preview the trimmed recording. When you’ve got it the way you want it, tap Trim.

Zoom in on the 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 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:* Turn on keyboard shortcuts to control Zoom.
    - *Zoom Controller:* Turn the controller on, set controller actions, and adjust the color and opacity.
    - *Zoom Region:* Choose 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 shortcuts to turn on Zoom.
2. To see more of the screen, do any of the following:
    - *Adjust the magnification:* Double-tap the screen with three fingers (without lifting your fingers after the second tap), then drag up or down. Or triple-tap with three fingers, then drag the Zoom Level slider.
    - *Move the Zoom lens:* (Window Zoom) Drag the handle at the bottom of the Zoom lens.
    - *Pan to another area:* (Full Screen Zoom) Drag the screen with three fingers.
3. To adjust the settings with the Zoom menu, triple-tap with three fingers, then 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 Magic Keyboard, the screen image follows the insertion point, keeping it in the center of the display. See Use Smart Keyboard or Magic Keyboard with iPad.

To turn off Zoom, double-tap the screen with three fingers or use accessibility shortcuts.

Magnify nearby objects with Magnifier on iPad

Use your iPad as a magnifying glass to zoom in on objects near you.

Set up Magnifier

1. Go to Settings > Accessibility > Magnifier.
2. Turn on Magnifier.

   This adds Magnifier as an accessibility shortcut.
3. To automatically adjust the brightness of Magnifier based on ambient light settings, turn on Auto-Adjust Exposure.

Turn on and adjust Magnifier

1. Use accessibility shortcuts to turn on Magnifier.
2. Make any of the following adjustments:

   - *Adjust the magnification level:* Drag the Zoom Level slider.
   - *Add more light:* Tap to turn the flashlight on or off.
   - *Lock the focus:* Tap . Tap again to unlock the focus.
   - *Apply color filters:* Tap . Tap the different color filters to preview their effects. To adjust the brightness and contrast, drag the sliders. To invert the colors, tap . To apply the selected filter and return to Magnifier screen, tap again.
   - *Freeze the frame:* Tap . To adjust the magnification, drag the Zoom Level slider. To save the image, touch and hold the image, then tap Save Image. To unfreeze the frame, tap again.

To turn off Magnifier, do the following:

- *On an iPad with a Home button:* Press the Home button.
- *On an iPad with Face ID:* Swipe up from the bottom edge of the screen.

Adjust the display and text size on iPad

If you have color blindness or other vision challenges, you can customize the display settings to make the screen easier to see.

Use display accommodations

1. Go to Settings > Accessibility > Display & Text Size.
2. Adjust any of the following:
   - *Bold Text:* Display the text in boldface characters.
   - *Larger Text:* Turn on Larger Accessibility Sizes, then adjust the text size using the Font Size slider.

     This setting adjusts to your preferred text size in apps that support Dynamic Type, such as Settings, Calendar, Contacts, Mail, Messages, and Notes.
   - *Button Shapes:* This setting underlines text you can tap.
   - *On/Off Labels:* This setting indicates switches turned on with “1” and switches turned off with “0”.
   - *Reduce Transparency:* This setting reduces the transparency and blurs on some backgrounds.
   - *Increase Contrast:* This setting improves the contrast and legibility by altering color and text styling.

     Apps that support Dynamic Type—such as Settings, Calendar, Contacts, Mail, Messages, and Notes—adjust to your preferred text size.
   - *Differentiate Without Color:* This setting replaces user interface items that rely on color to convey information with alternatives.
   - *Smart Invert or Classic Invert:* Smart Invert Colors reverses the colors of the display, except for images, media, and some apps that use dark color styles.
   - *Color Filters:* Tap a filter to apply it. To adjust the intensity or hue, drag the sliders.
   - *Reduce White Point:* This setting reduces the intensity of bright colors.
   - *Auto-Brightness:* This setting automatically adjusts the screen brightness for current light conditions using the built-in ambient light sensor.

You can also apply these effects to only the contents of the zoom window. See Zoom in on the iPad screen.

Reduce or stop the motion of screen elements on iPad

If you have sensitivity to motion effects or screen movement on your iPad, you can stop or reduce the movement of some screen elements, such as:

- Parallax effect of wallpaper, apps, and alerts
- Screen transitions
- Siri animations
- Typing autocompletion
- Animated effects in Messages

1. Go to Settings > Accessibility > Motion.
2. Turn on or off any of the following controls:
   - *Reduce Motion:* This setting reduces the motion of the user interface, including the parallax effect of icons.
   - *Prefer Cross-Fade Transitions:* This setting reduces the motion of user interface controls that slide in and out when appearing and disappearing.
   - *Auto-Play Message Effects:* This setting allows the Messages app to automatically play full-screen effects. If you turn this setting off, you can still manually play effects by tapping Replay below the message bubble.
   - *Auto-Play Video Previews:* This setting allows apps such as the App Store to automatically play video previews.
   - *Limit Frame Rate:* This setting limits the frame rate of the display to 60 frames per second (on supported iPad models).

Hear iPad speak the screen, selected text, and typing feedback

Even if VoiceOver is turned off, you can have iPad speak selected text or the entire screen. iPad can also provide feedback and speak text corrections and suggestions as you type.

Change the speech settings

1. Go to Settings > Accessibility > Spoken Content.

2. Adjust any of the following:

   - *Speak Selection:* To hear text you selected, tap the Speak button.
   - *Speak Screen:* To hear the entire screen, swipe down with two fingers from the top of the screen.
   - *Speech Controller:* Show the controller for quick access to Speak Screen and Speak on Touch.
   - *Highlight Content:* iPad can highlight words, sentences, or both as they're spoken. You can change the highlight color and style.
   - *Typing Feedback:* You can configure typing feedback for the onscreen and external keyboards and choose to have iPad speak each character, entire words, auto-corrections, auto-capitalizations, and typing predictions.

     To hear typing predictions, you also need to go to Settings > General > Keyboards, then turn on Predictive.
   - *Voices:* Choose a voice and dialect.
   - *Speaking Rate:* Drag the slider.
   - *Pronunciations:* Dictate or spell out how you want certain phrases to be spoken.

Hear iPad speak

Ask Siri. Say something like: "Speak screen." Learn how to ask Siri.

Or do any of the following:

- *Hear selected text:* Select the text, then tap Speak.
- *Hear the entire screen:* Swipe down with two fingers from the top of the screen. Use the controls that appear to pause speaking or adjust the rate.
- *Hear typing feedback:* Start typing. To hear typing predictions (when turned on), touch and hold each word.

Hear audio descriptions for video content on iPad

If you have video content that includes audio descriptions of scenes, iPad can play the descriptions for you.

---

1. Go to Settings > Accessibility > Audio Descriptions.
2. Turn on Audio Descriptions.

Physical and Motor

Touch

Use AssistiveTouch on iPad

AssistiveTouch helps you use iPad if you have difficulty touching the screen or pressing the buttons. You can use AssistiveTouch without any accessory to perform actions or gestures that are difficult for you. You can also use a compatible adaptive accessory (such as a joystick) together with AssistiveTouch to control iPad.

With AssistiveTouch, you can use a simple tap (or the equivalent on your accessory) to perform actions such as the following:

- Open the AssistiveTouch menu
- Go to the Home screen
- Double-tap
- Perform multifinger gestures
- Perform scroll gestures (iPadOS 13.3 or later)
- Summon Siri
- Access Control Center, notifications, Lock screen, or App Switcher
- Adjust the volume on iPad
- Shake iPad
- Take a screenshot
- Use Apple Pay
- Speak screen
- Adjust dwell settings (iPadOS 13.3 or later)
- Control Analytics
- Restart iPad

Set up AssistiveTouch

Ask Siri. Say something like: “Turn on AssistiveTouch” or “Turn off AssistiveTouch.” Learn how to ask Siri.

Or do the following:

1. Go to Settings > Accessibility > Touch > AssistiveTouch.
2. Turn on AssistiveTouch.
3. To customize AssistiveTouch, tap any of the following:
   - *Customize Top Level Menu:* 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.

Tip: To turn AssistiveTouch on or off quickly, triple-click the top button or triple-click the Home button.

Add a pointer device

You can connect Bluetooth and USB assistive pointer devices, such as trackpads, joysticks, 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 number pad.
    - *Pointer Style:* Adjust the size, color, and auto-hide settings.
    - *Show Onscreen Keyboard:* Display the onscreen keyboard.
    - *Always Show Menu:* Show the AssistiveTouch menu when a pointer device is connected.
    - *Tracking speed:* Drag the slider to adjust the speed.
    - *Drag Lock:* Turn on to enable dragging.
    - *Zoom Pan:* Choose Continuous, Centered, or Edges.
    - *Dwell Control:* Turn on to perform a dwell action when the cursor is held still. To adjust the amount of time needed to initiate a dwell action, tap − or +.
    - *Fallback Action:* (iPadOS 13.3 or later) Turn on to revert the dwell action to the selected fallback action after performing an operation.
    - *Movement Tolerance:* Adjust the distance you can move while dwelling on an item.
    - *Hot Corners:* (iPadOS 13.3 or later) Perform a selected action—such as take a screenshot, open Control Center, summon Siri, scroll, or use a shortcut—when the cursor dwells in a corner of the screen.

Move the AssistiveTouch menu button

Drag the menu button to a new location on the screen.

Use AssistiveTouch

Tap the menu button, then choose an action or gesture.

For a multifinger gesture, do the following:

- *Pinch:* Tap Custom, then tap Pinch. When the pinch circles appear, touch anywhere on the screen to move the pinch circles, then drag them in or out to perform a pinch gesture. When you finish, tap the menu button.
- *Multifinger swipe or drag:* Tap Device > More > Gestures, then tap the number of digits needed for the gesture. When the circles appear on the screen, swipe or drag in the direction required by the gesture. When you finish, tap the menu button.

To return to the previous menu, tap the arrow in the center of the menu. To exit the menu without performing a gesture: Tap anywhere outside the menu.

Create custom gestures

You can add your favorite gestures (such as touch and hold or two-finger rotation) to the AssistiveTouch menu. You can even create several gestures with different degrees of rotation.

1. Go to Settings > Accessibility > Touch > AssistiveTouch > Create New Gesture.
2. Perform your gesture on the recording screen. For example:
   - *Touch-and-hold gesture:* Touch and hold your finger in one spot until the recording progress bar reaches halfway, then lift your finger. Be careful not to move your finger while recording, or the gesture will be recorded as a drag.
   - *Two-finger rotation gesture:* Rotate two fingers on the 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 drags, they're all played back at the same time. For example, using one finger or a stylus to record four separate, sequential taps at four locations on the screen creates a simultaneous four-finger tap.
3. If your gesture doesn't turn out quite right, tap Cancel, then try again.
4. When you're satisfied with your gesture, tap Save, then name the gesture.

To use your custom gesture, tap the AssistiveTouch menu button, tap Custom, then choose the gesture. When the blue circles representing your gesture appear, drag them to where you want to use the gesture, then release.

Adjust touch settings on iPad

If you have difficulty using the touchscreen or buttons, you can change how iPad responds to your touch.

Use touch accommodations

1. Go to Settings > Accessibility > Touch > Touch Accommodations.

2. You can configure iPad to do any of the following:

   - *Respond to touches of a certain duration:* Turn on Hold Duration, then tap − or + to adjust the duration (the default is 0.10 seconds).

     To perform swipe gestures without waiting for the specified hold duration, tap Swipe Gestures, then turn on Swipe Gestures. You can choose the amount of required movement before a swipe gesture begins.

   - *Ignore multiple touches:* Turn on Ignore Repeat, then tap − or + to adjust the amount of time allowed between multiple touches. Then, if you touch the screen several times quickly, iPad treats the touches as one.

   - *Respond to the first or last place you touch:* Choose Use Initial Touch Location or Use Final Touch Location.

     If you choose Use Initial Touch Location, 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 device can respond to other gestures, such as drags, if you wait longer than the gesture delay.

Turn off Shake to Undo

If you tend to shake iPad by accident, go to Settings > Accessibility > Touch, then turn off Shake to Undo.

Route audio calls

You can automatically route the audio of phone or FaceTime calls to your headphones, speaker, or hearing devices.

1. Go to Settings > Accessibility > Touch > Call Audio Routing.
2. Choose an audio destination for calls.
3. To have iPad answer calls automatically, tap Auto-Answer Calls, turn on Auto-Answer Calls, then tap − or + to set the duration of time before the call is answered.

During a call, you can switch the audio routing from your hearing aid to the iPad speaker by removing the hearing aid from your ear. See Use hearing devices with iPad.

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

By default, setting up Face ID requires you to gently move your head in a circle to show all the angles of your face. If you can't perform the full range of head motion, you can still set up Face ID without moving your head.

1. Go to Settings > Face ID & Passcode.
2. Position your face within the frame, then tap Accessibility Options.

Face ID is still secure but requires more consistency in how you look at 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.

Switch Control

Set up Switch Control on iPad

If you have physical difficulties, you can use Switch Control to operate iPad using one or more switches. With switches, you can select, tap, drag, type, and even draw freehand. You use a switch to select an item or location on the screen, then use the same (or a different) switch to choose an action.

Add a switch

You can use any of the following sources as a switch:

- *An external adaptive switch:* Choose a Bluetooth switch or Made For iPhone (MFi) switch that plugs into the Lightning connector on iPad.

- *The iPad screen:* Tap the screen to trigger the switch.
- *The iPad front camera:* Move your head left or right while facing the camera to trigger the switch.

Before you add an external switch, connect it to iPad, following the instructions that came with the switch. If the switch connects using Bluetooth, pair it with iPad—turn on the switch, go to Settings > Bluetooth, turn on Bluetooth, tap the name of the switch, then follow the onscreen instructions.

1. Go to Settings > Accessibility > Switch Control > Switches.
2. Tap Add New Switch, then choose a source.
3. Assign an action to the switch.

   To ensure Switch Control functions correctly, you must assign the Select Item action to at least one switch.

Choose a scanning style and customize Switch Control

You can adjust the behavior of Switch Control in a variety of ways, to suit your specific needs and style.

1. Go to Settings > Accessibility > Switch Control.
2. Tap Scanning Style, then choose one of the following:
   - *Auto Scanning:* The focus automatically moves to the next item after a specified duration.
   - *Manual Scanning:* You trigger a switch to move the focus to the next item (requires multiple switches).
   - *Single Switch Step Scanning:* You trigger a switch to move the focus to the next item; if no action is taken with a specified duration, the item with the focus is automatically activated.

3. Customize Switch Control in the following ways:

    - Add switches and specify their function.
    - Create, edit, and choose recipes to temporarily assign special actions to switches.
    - Adjust the item scanning speed.
    - Set scanning to pause on the first item in a group.
    - Choose how many times to cycle through the screen before hiding Switch Control.
    - Choose a tap behavior and set the interval for performing a second switch action to show the Scanner Menu.
    - Choose whether Switch Control resumes scanning at an item you tap or from the beginning.
    - Set whether a movement action is repeated when you press and hold a switch, and how long to wait before repeating.
    - Assign another action to a switch by pressing and holding the switch for a long duration.
    - Choose the actions shown in the Scanner Menu and the order in which they appear.
    - Set whether and how long you need to hold a switch down before it's accepted as a switch action.
    - Ignore accidental repeated switch triggers.
    - Adjust the point scanning style and speed.
    - Adjust settings for head tracking (on an iPad with Face ID) and assign actions to facial expressions.
    - Turn on sound effects.
    - Speak items as they are scanned.
    - Group items for faster scanning.
    - Make the selection cursor larger or a different color.
    - Create and save custom gestures to the Scanner Menu.

Turn Switch Control on or off

Important: Switch Control changes the gestures you use to control iPad.

To turn Switch Control on or off, use any of the following methods:

- Go to Settings > Accessibility > Switch Control.

- Triple-click the Home button (on an iPad with a Home button).
- Triple-click the top button (on an iPad with Face ID).
- Use Control Center.

Use Switch Control on iPad

With Switch Control, you can use the following methods to select an item on the screen:

- *Item scanning:* The focus moves (automatically or manually) from one item to the next until you select an item; this is the default scanning method.
- *Point scanning:* You select an item on the screen by pinpointing it with scanning crosshairs.
- *Head tracking:* () You use the movement of your head to control a pointer on the screen. You can also use facial expressions to perform actions.

After you select an item, you can choose an action (for example, tap, drag, or pinch) in the Scanner Menu.

Use item scanning

With item scanning, the focus sequentially moves from one item to the next item on the screen.

1. If you use Auto Scanning, watch or listen as the focus moves. If you use Manual Scanning, trigger your Move to Next Item action to move the focus.
2. When the focus surrounds the item you want, trigger your Select Item switch.
3. In the Scanner Menu, choose an action such as the following:
   - Tap
   - Gestures
   - Scroll
   - Media Controls
   - More (the dots at the bottom of the menu) for more options
   - Home (to return to the Home screen)
   - Device (for other hardware actions)
   - Settings (to adjust Switch Control behavior)

   The available actions in the Scanner Menu depend on the selected item.

To dismiss the Scanner menu without choosing an action, trigger your switch while the original item is highlighted and all the icons in the Scanner Menu are dimmed.

Use point scanning

With point scanning, you select an item on the screen by pinpointing it with scanning crosshairs.

1. Use item scanning to select an item.
2. In the Scanner Menu, choose Gliding Cursor.
3. To position the vertical crosshair, do the following:
   - Trigger your Select Item switch when the wide vertical band is over the item you want.
   - Trigger your Select Item switch again when the fine vertical line is over the item.
4. Repeat to position the horizontal crosshair.
5. Choose an action from the Scanner Menu.

To return to item scanning, choose Item Mode in the Scanner Menu.

Use head tracking

On an iPad with Face ID, you can move your head to control a pointer on the screen. You can also use facial expressions to perform actions.

1. Go to Settings > Accessibility > Switch Control > Head Tracking.
2. Turn on Head Tracking, then do any of the following:
   - *Assign actions to facial expressions:* Choose actions to perform when you smile, open your mouth, stick out your tongue, or raise your eyebrows.
   - *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 +.

Control iPad with your voice

You can control iPad with just your voice. You can edit text as you dictate, navigate with voice commands and gestures, and see numbers or names next to screen elements.

Turn on Voice Control

Do any of the following:

- Go to Settings > Accessibility > Voice Control.
- Add Voice Control to Accessibility Shortcuts—go to Settings > Accessibility > Accessibility Shortcut, then tap Voice Control.

Learn Voice Control commands

When Voice Control is turned on, you can say commands such as the following:

- “Open Control Center”
- “Go home”
- “Tap *item name*”
- “Open *app name*”
- “Take screenshot”
- “Turn up volume”

To learn more Voice Control commands, go to Settings > Accessibility > Voice Control > Customize Commands, then tap a category.

Use the screen overlay

For faster interactions, navigate iPad with a screen overlay that shows item names, numbers, or a grid.

- *Item names:* Say “Show names” or “Show names continuously,” then say “Tap *item name*.”
- *Numbers:* Say “Show numbers” or “Show numbers continuously,” then say the number next to the item you want.
- *Grid:* To interact with a screen location not represented by an item name or number, say “Show grid” or “Show grid continuously,” then say the number closest to the location you want. To zoom in on the location, say another number on the smaller grid.

To turn off the overlay, say “Hide names,” “Hide numbers,” or “Hide grid.”

Customize Voice Control

1. Go to Settings > Accessibility > Voice Control.

2. Adjust any of the following:
    - *Show Confirmation:* When iPad recognizes a command, a visual confirmation appears at the top of the screen.
    - *Play Sound:* When iPad 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.
3. To teach Voice Control new words, tap Vocabulary.

Adjust settings for the Home or top button

1. Go to Settings > Accessibility, then tap Home Button (on an iPad with a Home button) or Top Button (on other iPad models).
2. Choose the speed required to double or triple-click.
3. Choose how iPad responds when you press and hold the top or Home 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.

Change the pointer appearance when using a mouse or trackpad with iPad

If you use a mouse or trackpad with iPad, you can change the appearance of the pointer by changing its color, shape, size, scrolling speed, and more.

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 connected to a supported multi-touch trackpad)

- Scrolling Speed

To customize the buttons of the pointing device, go to Settings > Accessibility > Touch > Assistive Touch > Devices.

See Use VoiceOver on iPad with a pointer device and Zoom in on the iPad screen.

Adjust the onscreen and external keyboard settings on iPad

You can adjust the onscreen (software) keyboard on iPad. If you use an external (hardware) keyboard with iPad, you can customize keyboard shortcuts and change settings such as the key repeat rate.

Set the onscreen keyboard to display only uppercase letters

If you have difficulty seeing the onscreen keyboard, you can set it to display only uppercase letters. (Go to Settings > Accessibility > Keyboards, then turn off Show Lowercase Keys.)

Type on a larger onscreen keyboard

Rotate iPad to use a larger keyboard for typing in many apps, including Mail, Safari, Messages, Notes, and Contacts.

See Set typing options.

Control iPad with an external keyboard

If you have difficulty using the touchscreen, you can control your iPad with an external keyboard.

1. Go to Settings > Accessibility > Keyboards, tap Full Keyboard Access, then turn on Full Keyboard Access.

2. Control your iPad using keyboard shortcuts.

Action	Keyboard shortcut
Go to the next item	Tab
Go to the previous item	Shift-Tab
Activate the selected item	Space bar
Go to the Home screen	Command-H
Open the App Switcher	Tab-A
Open Control Center	Tab-C
Open Notification Center	Tab-N
Show Help	Tab-H

3. To customize the keyboard shortcuts, tap Commands.
4. To customize the appearance of the focus, tap any of the following:
   - Auto-Hide
   - Increase Size
   - High Contrast
   - Color

See Use Smart Keyboard or Magic Keyboard with iPad.

Change how the keys respond on an external keyboard

If you have difficulty using an external keyboard, you can adjust the settings.

Go to Settings > Accessibility > Keyboards, then tap any of the following:

- *Key Repeat:* You can adjust the repeat interval and delay.
- *Sticky Keys:* Use Sticky Keys to press and hold modifier keys, such as Command and Option, as you press another key.
- *Slow Keys:* Use Slow Keys to adjust the time between when a key is pressed and when it's activated.

Change Apple Pencil (2nd generation) settings

Change Apple Pencil (2nd generation) settings

If you have difficulty using the gestures for Apple Pencil (2nd generation) on supported iPad models, you can adjust the settings.

1. Go to Settings > Accessibility > Apple Pencil.
2. Do any of the following:
   - Turn off Double Tap Gesture.
   - Change the duration of the double tap gesture to Slow or Slowest.

Adjust the settings for AirPods Pro on iPad

If you have AirPods Pro, you can adjust the settings to suit your motor or hearing needs.

1. Go to Settings > Accessibility > AirPods.
2. Do any of the following:
   - Adjust how quickly you must press two or three times before an action occurs.
   - Adjust the duration required to press and hold on your AirPods.
   - Turn on noise cancellation when you're wearing only one of your AirPods.

Hearing

Use hearing devices with iPad

You can use Made for iPhone (MFi) hearing aids or sound processors with iPad and adjust their settings.

Pair a hearing device with iPad

If your hearing devices aren't listed in Settings > Accessibility > Hearing Devices, you need to pair them with iPad.

1. Open the battery doors on your hearing devices.
2. On iPad, go to Settings > Bluetooth, then make sure Bluetooth is turned on.
3. Go to Settings > Accessibility > Hearing Devices.
4. Close the battery doors on your hearing devices.

5. When their names appear below MFi Hearing Devices (this could take a minute), tap the names and respond to the pairing requests.

   Pairing can take as long as 60 seconds—don't try to stream audio or otherwise use the hearing devices until pairing is finished. When pairing is finished, you hear a series of beeps and a tone, and a checkmark appears next to the hearing devices in the Devices list.

You need to pair your devices only once (and your audiologist might do it for you). After that, your hearing devices automatically reconnect to 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.
- *Using accessibility shortcuts:* See Use accessibility shortcuts on iPad.
- *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 devices (left, right, or both) receive streaming audio.
  - Control Live Listen.

Tip: You can quickly adjust the settings or view the status of your hearing devices with the following accessibility shortcuts:

- Triple-click the Home button (on an iPad with a Home button)
- Triple-click the top button (on an iPad with Face ID)
- Use Control Center

Use your hearing devices with more than one device

If you pair your hearing devices with more than one device (both iPhone and iPad, for example), the connection for your hearing devices automatically switches from one to the other when you do something that generates audio on the other device, or when you receive a phone call on iPhone.

Changes you make to hearing device settings on one device are automatically sent to your other devices.

1. Sign in with your Apple ID on all the devices.
2. Connect all the devices to the same Wi-Fi network.

Turn on Hearing Aid Compatibility

Hearing Aid Compatibility may reduce interference and improve audio quality with some hearing aid models.

1. Go to Settings > Accessibility > Hearing Devices.
2. Turn on Hearing Aid Compatibility.

Stream audio from iPad to your hearing devices

Stream audio from iPad and its apps to your hearing devices. You can even use Live Listen to stream sound from the microphone to your Made For iPhone (MFi) hearing devices or AirPods.

Stream audio to your hearing devices

To stream audio from Siri, Music, Apple TV, and more, see Set up and listen to Bluetooth headphones.

You can also automatically route audio calls to a hearing device.

Use iPad as a remote microphone with Live Listen

Stream sound from the microphone on iPad to your Made For iPhone (MFi) hearing devices or AirPods. This can help you hear better in some situations—for example, when having a conversation in a noisy environment.

1. If you're using AirPods, place them in your ears.
2. Turn on Live Listen with one of the following methods:
   - Open Control Center, tap , tap your hearing device or AirPods, then turn on Live Listen.

     (If you don't see , add it to Control Center—go to Settings > Control Center > Customize Controls, then choose Hearing.)
   - Triple-click the Home button (on an iPad with a Home button) or triple-click the top button (on an iPad with Face ID), tap Hearing Devices, then tap Live Listen.
3. Position iPad near the sound source.

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/TTY.
   - Turn on Send Immediately to send each character as you type. Turn 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. In FaceTime, tap + at the top of the screen.
2. Type the name or number you want to call in the entry field at the top, then tap Audio.
3. Tap Call, then tap RTT Call.

Type text during an RTT call

1. Enter your message in the text field.

   If you turned on Send Immediately in Settings, your recipient sees each character as you type. Otherwise, tap ↑ to send the message.
2. To also transmit audio, tap 🎙.

Note: Standard voice call rates apply for RTT calls.

Adjust audio and visual settings on iPad

You can adjust audio and visual settings such as mono audio, audio balance, and LED Flash for Alerts.

Adjust the volume balance and mono audio

1. Go to Settings > Accessibility > Audio/Visual.
2. Adjust any of the following:
   - *Mono Audio:* Combine the left and right channels into a mono signal played on both channels.
   - *Balance:* Drag the Left Right Stereo Balance slider.

Flash the LED for alerts

On an iPad with flash, if you can't hear the sounds that announce incoming calls and other alerts, iPad can flash its LED (next to the camera lens on the back of iPad). The LED flashes only if iPad is locked.

Tip: LED Flash for Alerts is a useful feature for anyone who might miss the tones associated with calls and other alerts in a noisy environment.

1. Go to Settings > Accessibility > Audio/Visual, then turn on LED Flash for Alerts.
2. To prevent LED flashes when iPad is in silent mode, turn off Flash on Silent.

Watch videos with subtitles and captions on iPad

When you watch video content in the Apple TV app or another supported app, you can see 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.

Turn on subtitles and captions in the Apple TV app

1. While playing video content, tap .
2. Choose from the list of available subtitles and captions.

Customize the subtitles and captions in supported video apps

1. Go to Settings > Accessibility > Subtitles & Captioning.
2. If you prefer closed captioning or subtitles for the deaf and hard of hearing when available, turn on Closed Captions + SDH.
3. Tap Style, then choose an existing caption style or create a new style based on the following:
   - Font, size, and color
   - Background color and opacity
   - Text opacity, edge style, and highlight

General

Use Guided Access on iPad

Guided Access helps you stay focused on a task by temporarily restricting iPad to a single app, and allowing you to control which app features are available. You can do any of the following:

- Disable areas of the screen that aren't relevant to a task, or areas where an accidental gesture might cause a distraction
- Disable the iPad hardware buttons
- Limit how long someone can use the app

Set up Guided Access

1. Go to Settings > Accessibility > Guided Access, then turn on Guided Access.
2. Adjust any of the following:
   - *Passcode Settings:* Tap Set Guided Access Passcode, then enter a passcode.

     You can also turn on Face ID (on an iPad with Face ID) or Touch ID (on an iPad with Touch ID) as a way to end a Guided Access session.
   - *Time Limits:* Play a sound or speak the time remaining before a Guided Access session ends.
   - *Accessibility Shortcut:* Turn the shortcut on or off during Guided Access sessions.
   - *Display Auto-Lock:* Set how long it takes iPad to automatically lock during a Guided Access session.

Start a Guided Access session

1. Open the app you want to use.
2. Turn on Guided Access using one of the following methods:
   - Ask Siri. Say something like: "Turn on Guided Access." Learn how to ask Siri.
   - Use accessibility shortcuts.
3. Circle any areas of the screen you want to disable. Drag the mask into position or use the handles to adjust its size.

4. Tap Options, then turn on or off any of the following:
    - Top Button (or Sleep/Wake Button)
    - Volume Buttons
    - Motion (to prevent iPad from switching from portrait to landscape or from responding to other motions)
    - Keyboards
    - Touch
    - Time Limit
5. Tap Start.

End a Guided Access session

Do any of the following:

- *On an iPad with a Home button:* Double-click the Home button, then unlock with Touch ID (if enabled). Or triple-click the Home button, then enter the Guided Access passcode.
- *On an iPad with Face ID:* Double-click the top button, then unlock with Face ID (if enabled). Or triple-click the top button, then enter the Guided Access passcode.

Use accessibility features with Siri on iPad

Siri is often the easiest way to start using accessibility features with iPad. With Siri, you can open apps, turn many settings on or off, or use Siri for what it does best—acting as your intelligent personal assistant.

Ask Siri. Say something like: “Turn on VoiceOver” or “Turn off VoiceOver.” Learn how to ask Siri.

Siri knows when VoiceOver is on, so will often read more information back to you than appears on the screen. You can also use VoiceOver to read what Siri shows on the screen.

Type instead of speaking to Siri

1. Go to Settings > Accessibility > Siri, then turn on Type to Siri.
2. To make a request, summon Siri, then interact with Siri by using the keyboard and text field.

Control voice feedback for Siri

1. Go to Settings > Accessibility > Siri.

2. Choose Always On or Hands-Free Only.

Turn off “Hey Siri” when iPad is covered or facing down

To prevent iPad from listening for “Hey Siri” when it’s covered or facing down, go to Settings > Accessibility > Siri, then turn off Always Listen for “Hey Siri”.

Use accessibility shortcuts on iPad

After you set up accessibility features, you can quickly turn them on or off with any of the methods below.

Ask Siri to turn on an accessibility feature

Say something like: “Turn on VoiceOver.” Learn how to ask Siri.

Triple-click the top button

On an iPad with Face ID, you can turn accessibility features on or off by triple-clicking the top button.

- *Set up Accessibility Shortcut:* Go to Settings > Accessibility > Accessibility Shortcut, then select the features you use the most.
- *Slow down the double-click or triple-click speed for the top button:* Go to Settings > Accessibility > Top Button.
- *Use Accessibility Shortcut:* Triple-click the top button.

Triple-click the Home button

On an iPad with a Home button, you can turn accessibility features on or off by triple-clicking the Home button.

- *Set up Accessibility Shortcut:* Go to Settings > Accessibility > Accessibility Shortcut, then select the features you use the most.
- *Slow down the double-click or triple-click speed for the Home button:* Go to Settings > Accessibility > Home Button.
- *Use Accessibility Shortcut:* Triple-click the Home button.

Use Control Center

You can also add accessibility features to Control Center and then activate them from there.

1. Go to Settings > Control Center > Customize Controls, then tap next to accessibility features you use the most.
2. To activate an accessibility feature from Control Center, open Control Center, then tap the accessibility feature.

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 Don't open iPad and don't attempt to repair iPad yourself. Disassembling iPad may damage it or may cause injury to you. iPad Pro 11-inch and iPad Pro 12.9-inch (3rd generation and later) contain lasers that could be damaged during repair or disassembly, which could result in hazardous exposure to infrared laser emissions that are not visible. If iPad is damaged, malfunctions, or comes in contact with liquid, contact Apple or an Apple Authorized Service Provider. Repairs by service providers other than Apple or an Apple Authorized Service Provider may not involve the use of Apple genuine parts and may affect the safety and functionality of the device. You can find more information about repairs and service at the iPad Repair website.

Battery Don't attempt to replace the iPad battery yourself. The lithium-ion battery in iPad should be replaced by Apple or an authorized service provider. Improper replacement or repair could damage the battery, cause overheating, or result in injury. The battery must be recycled or disposed of separately from household waste. Don't incinerate the battery. For information about battery services and recycling, see the Battery Service and Recycling website.

Distraction Using iPad in some circumstances may distract you and might cause a dangerous situation (for example, avoid using headphones while riding a bicycle and avoid typing a text message while driving a car). Observe rules that prohibit or restrict the use of mobile devices or headphones.

Navigation Maps depends on data services. These data services are subject to change and may not be available in all 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, including the International Standard for Safety Information Technology Equipment (IEC 60950-1). Other adapters may not meet applicable safety standards, and charging with such adapters could pose a risk of death or injury.

Using damaged cables or chargers, or charging when moisture is present, can cause fire, electric shock, injury, or damage to iPad or other property. When you use the Apple USB power adapter to 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 and its 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 applicable surface temperature standards and limits defined by the International Standard for Safety of Information Technology Equipment (IEC 60950-1). However, even within these limits, sustained contact with warm surfaces for long periods of time may cause discomfort or injury. Use common sense to avoid situations where your skin is in contact with a device 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 Play music on iPad. For more information about hearing loss, see the Sound and Hearing website.

The Apple headsets sold with iPhone in China (identifiable by dark insulating rings on the plugs) are designed to comply with Chinese standards and are only compatible with iPad, iPhone, and iPod touch.

⚠ **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 > About > Legal > 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 contains components and radios that emit electromagnetic fields. iPad also contains magnets along the left and right edges and back of the device and on the right side of the front glass, which may interfere with medical devices, such as pacemakers and defibrillators. The iPad Smart Cover, iPad Pro Smart Cover, iPad Pro Smart Keyboard, iPad Pro Smart Keyboard Folio, and Apple Pencil (each available separately) also contain magnets. These electromagnetic fields and magnets may 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, the iPad Smart Cover, the iPad Pro Smart Cover, the iPad Pro Smart Keyboard, the iPad Pro Smart Keyboard Folio, and the Apple Pencil. If you suspect iPad is interfering with your medical device, stop using iPad.

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.

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 an iPad with Face ID:* 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.

Get information about your iPad

View overall storage availability and storage used per app

Go to Settings > General > iPad Storage.

See the Apple Support articles How to check the storage on your iPhone, iPad, and iPod touch and Manage your iCloud storage.

See battery usage

Go to Settings > Battery to see the elapsed time since iPad has been charged. You can also display battery level as a percentage. See Charge and monitor the iPad battery.

View cellular usage

Go to Settings > Cellular Data. See View or change cellular settings on iPad.

See more information about iPad

Go to Settings > General > About. The items you can view include:

- Name
- iPadOS software version
- Model name
- Part and model numbers. To the right of Model, the part number appears. To see the model number, tap the part number.
- Serial number
- (Cellular models) Network
- Number of songs, videos, photos, and apps
- Capacity and available storage space
- (Cellular models) Carrier
- (Cellular models) Cellular Data Number
- Wi-Fi and Bluetooth addresses
- (Cellular models) IMEI (International Mobile Equipment Identity)
- (Cellular models) ICCID (Integrated Circuit Card Identifier, or Smart Card) for GSM networks
- (Cellular models) MEID (Mobile Equipment Identifier) for CDMA networks
- Modem firmware
- Legal (including legal notices, and license, warranty, and RF exposure information)

To copy the serial number and other identifiers, touch and hold the identifier until Copy appears.

To see regulatory marks, go to Settings > General > Legal & Regulatory.

View or turn off diagnostic information

Go to Settings > Privacy > Analytics & Improvements.

To help Apple improve products and services, iPad sends diagnostic and usage data. This data doesn't personally identify you, but may include location information.

View or change cellular settings on iPad

Activate cellular data service on iPad (Wi-Fi + Cellular models), turn cellular use on or off, and set which apps and services use cellular data. With some carriers, you can also change your data plan.

Note: For help with cellular network services and billing, contact your wireless service provider.

If iPad is connected to the Internet via the cellular data network, an icon identifying the cellular network appears in the status bar.

If Cellular Data is off, all data services will use only Wi-Fi—including email, web browsing, push notifications, and other services. If Cellular Data is on, carrier charges may be incurred. For example, using certain features and services that transfer data, such as Messages, could result in charges to your data plan.

Turn Cellular Data on or off

Go to Settings > Cellular Data, then turn Cellular Data on or off. The following options may also be available:

- *Monitor and manage your cellular data network usage:* You can see which apps use cellular data and turn off the option, if you want.
- *Turn LTE on or off:* Turning on LTE loads data faster.
- *Turn Data Roaming on or off:* Turning off Data Roaming avoids carrier charges when using a network provided by a different carrier.
- *Set up Personal Hotspot:* Personal Hotspot shares the Internet connection on iPad with computers and iPhone and iPod touch. See Share your Internet connection from iPad (Wi-Fi + cellular).
- *Turn Wi-Fi Assist on or off:* If Wi-Fi connectivity is poor, Wi-Fi Assist uses cellular data to boost the signal.

  Note: Using data over a cellular network may incur additional fees.

Set whether cellular data is used for apps and services

Go to Settings > Cellular Data, then turn Cellular Data on or off for any app that can use cellular data.

If a setting is off, iPad uses only Wi-Fi for that service.

Activate, view, or change your cellular data account

Go to Settings > Cellular Data, then tap Manage Account [*account name*] or Carrier Services.

Lock your SIM card

If your device uses a SIM card for cellular data, you can lock the card with a personal identification number (PIN) to prevent others from using the card. Then, every time you restart your device or remove the SIM card, your card locks automatically, and you're required to enter your PIN. See Use a SIM PIN for your iPhone or iPad.

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 for iPad.
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 ID account	Sign in to your Apple ID account page.
Using iCloud	See iCloud Help.
Using iTunes for Windows	See the iTunes User Guide for Windows.
Using other Apple iPad apps	See the App Store Support website.

To learn about	Do this
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 and other information 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, televisions, and other electronic devices.

Responsible party (contact for FCC matters only):

Apple Inc.
One Apple Park Way, MS 911-AHW
Cupertino, CA 95014
USA

apple.com/contact

ISED Canada compliance statement

This device complies with ISED Canada licence-exempt RSS standard(s). Operation is subject to the following two conditions: (1) this device may not cause interference, and (2) this device must accept any interference, including interference that may cause undesired operation of the device.

Operation in the band 5150–5250 MHz is only for indoor use to reduce the potential for harmful interference to co-channel mobile satellite systems.

Le présent appareil est conforme aux CNR d'ISDE Canada applicables aux appareils radio exempts de licence. L'exploitation est autorisée aux deux conditions suivantes : (1) l'appareil ne doit pas produire de brouillage, et (2) l'appareil doit accepter tout brouillage radioélectrique subi, même si le brouillage est susceptible d'en compromettre le fonctionnement.

La bande 5150–5250 MHz est réservée uniquement pour une utilisation à l'intérieur afin de réduire les risques de brouillage préjudiciable aux systèmes de satellites mobiles utilisant les mêmes canaux.

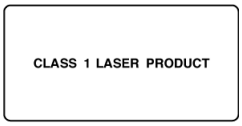
China micro power short range device statement

- 符合“微功率短距离无线电发射设备目录和技术要求”中通用微功率设备A类设备技术要求，用于无线充电应用。采用内置天线。控制、开关等信息请参考iPad使用手册。
- 不得擅自改变使用场景或使用条件、扩大发射频率范围、加大发射功率(包括额外加装射频功率放大器)，不得擅自更改发射天线。
- 不得对其他合法的无线电台(站)产生有害干扰，也不得提出免受有害干扰保护。
- 应当承受辐射射频能量的工业、科学及医疗(ISM)应用设备的干扰或其他合法的无线电台(站)干扰。
- 如对其他合法的无线电台(站)产生有害干扰时，应立即停止使用，并采取措施消除干扰后方可继续使用。

- 在航空器内和依据法律法规、国家有关规定、标准划设的射电天文台、气象雷达站、卫星地球站(含测控、测距、接收、导航站)等军民用无线电台(站)、机场等的电磁环境保护区域内使用微功率设备，应当遵守电磁环境保护及相关行业主管部门的规定。
- 微功率部分使用时温度和电压的环境条件与iPad相同。

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 IEC60825-1:2007 and IEC60825-1:2014. 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 lasers. Use other than as described in the user guide, repair, or disassembly may cause damage, which could result in hazardous exposure to infrared laser emissions that are not visible. This equipment should be serviced by Apple or an authorized service provider.



Apple and the environment

At Apple, we recognize our responsibility to minimize the environmental impacts of our operations and products. For more information, see our Environment website.

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.

This symbol indicates that this product and/or battery should not be disposed of with household waste. You must dispose of iPad properly according to local laws and regulations. When iPad reaches its end of life, contact local authorities to learn about disposal and recycling options, or simply drop it off at your local Apple Retail Store or return it to Apple. The battery will be removed and recycled in an environmentally friendly manner. For more information, see the Apple Trade In website.

European Union—Disposal Information

The symbol above means that according to local laws and regulations your product and/or its battery shall be disposed of separately from household waste. When this product reaches its end of life, take it to a collection point designated by local authorities. The separate collection and recycling of your product and/or its battery at the time of disposal will help conserve natural resources and ensure that it is recycled in a manner that protects human health and the environment.

Brasil – Informações sobre descarte e reciclagem

O símbolo acima indica que este produto e/ou sua bateria não devem ser descartados no lixo doméstico. Quando decidir descartar este produto e/ou sua bateria, faça-o de acordo com as leis e diretrizes ambientais locais. Para informações sobre substâncias de uso restrito, o programa de reciclagem da Apple, pontos de coleta e telefone de informações, visite 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.

China mainland battery statement

警告：不要刺破或焚烧。该电池不含水银。

Taiwan battery statement

廢電池請回收

警告：請勿戳刺或焚燒。此電池不含汞。

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 iPhone with a Home button, press the top button or the Home button. To unlock an iPhone with Face ID, 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.

Apple Inc.
© 2020 Apple Inc. All rights reserved.
Apple, the Apple logo, AirDrop, AirPlay, AirPods, AirPort, AirPrint, Animoji, Apple Music, Apple News, Apple Pay, Apple Pencil, Apple TV, Apple Wallet, Apple Watch, Face ID, FaceTime, Finder, Flyover, Guided Access, Handoff, iMessage, iPad, iPad Air, iPad mini, iPad Pro, iPhone, iPod, iPod touch, iTunes, iTunes Pass, Keychain, Keynote, Lightning, Mac, macOS, Numbers, Pages, Photo Booth, Retina, Retina HD, Safari, Siri, Smart Cover, Spotlight, Touch ID, TrueDepth, True Tone, and watchOS are trademarks of Apple Inc., registered in the U.S. and other countries.

AirPods Pro, Apple Books, HomeKit, HomePod, iPadOS, Live Photos, Memoji, Multi-Touch, Smart Keyboard, Smart Keyboard Folio, and tvOS are trademarks of Apple Inc.

App Store, Genius, iCloud, iCloud Drive, iCloud Keychain, iTunes Match, and iTunes Store are service marks of Apple Inc., registered in the U.S. and other countries.

Apple
One Apple Park Way
Cupertino, CA 95014
apple.com

Adobe and Adobe Photoshop Elements are trademarks or registered trademarks of Adobe Systems Incorporated in the U.S. and/or other countries.

Beats, Beats Studio, Beats^{X}, Powerbeats, and Solo are trademarks of Beats Electronics, LLC., registered in the U.S. and other countries.

Powerbeats Pro is a trademark of Beats Electronics, LLC.

Beats 1 is a service mark of Beats Electronics, LLC., registered in the U.S. and other countries.

IOS is a trademark or registered trademark of Cisco in the U.S. and other countries and is used under license.

The Bluetooth® word mark and logos are registered trademarks owned by Bluetooth SIG, Inc. and any use of such marks by Apple Inc. is under license.

ENERGY STAR® is a U.S. registered trademark.

Other company and product names mentioned herein may be trademarks of their respective companies.

Every effort has been made to ensure that the information in this manual is accurate. Apple is not responsible for printing or clerical errors.

Some apps and features are not available in all countries or regions. App and features availability is subject to change.