Apple Confidential

Turn off automatic downloads. Tap Apps in Automatic Downloads. Apps update automatically over Wi-Fi, unless you turn off the option.

Download apps using the cellular network (Wi-Fi + cellular models). Turn on Use Cellular Data. Downloading apps over the cellular network may incur carrier charges. Newsstand apps update only over Wi-Fi.

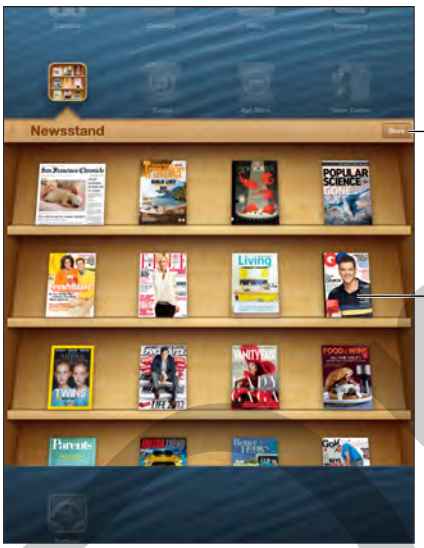
Draft

Newsstand

22

Newsstand at a glance

Newsstand organizes your magazine and newspaper apps, and automatically updates them when iPad is connected to Wi-Fi.



Find Newsstand apps. Tap Newsstand to reveal the shelf, then tap Store. When you purchase a Newsstand app, it's added to the shelf. After the app is downloaded, open it to view its issues and subscription options. Subscriptions are In-App purchases, billed to your store account.

Turn off automatic updates. Apps update automatically over Wi-Fi, unless you turn off the option in Settings > iTunes & App Store > Automatic Downloads.

Draft

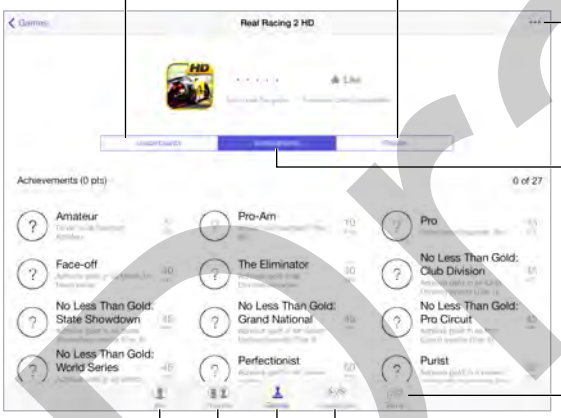
Game Center

23

At a glance

Game Center lets you play your favorite games with friends who have an iOS device or a Mac (OS X Mountain Lion or later). You must be connected to the Internet to use Game Center.

> ***WARNING:*** For important information about avoiding repetitive motion injuries, see Important safety information on page 125.



Get going. Open Game Center. If you see your nickname at the top of the screen, you're already signed in. Otherwise, you'll be asked for your Apple ID and password.

Get some games. Tap Games, then tap a recommended game. Or browse for games in the App Store (look for Supports Game Center in the game details). Or, get a game one of your friends has; see Play with friends on page 96.

Play! Tap Games, choose a game, tap ••• in the upper right, then tap Play.

Sign out? No need to sign out when you quit Game Center, but if you want to, go to Settings > Game Center and tap your Apple ID.

Draft

Play with friends

Invite friends to a multiplayer game. Tap Friends, choose a friend, choose a game, then tap Play. If the game allows or requires additional players, choose additional players to invite, then tap Next. Send your invitation, then wait for the others to accept. When everyone is ready, start the game. If a friend isn't available or doesn't respond to your invitation, you can tap Auto-Match to have Game Center find another player for you, or tap Invite Friend to try inviting some other friend.

Send a friend request. Tap Friends, tap +, then enter your friend's email address or Game Center nickname. To browse your contacts, tap ⊕. To add several friends in one request, type Return after each address. Or, tap anyone on the Friends page under A-Z, Recent, or Points, or any player you see anywhere in Game Center.

Challenge someone to outdo you. Tap one of your scores or achievements, then tap Challenge Friends.

What are your friends playing and how are they doing? Tap Friends, tap your friend's name, then tap the Games or Points bubble.

Want to purchase a game your friend has? Tap Friends, then tap your friend's name. Tap their Games bubble, tap the game in the list, then tap ••• in the upper right.

Make new friends. To see a list of your friend's friends, tap Friends, tap your friend's name, then tap their Friends bubble.

Unfriend a friend. Tap Friends, tap the friend's name, then tap ••• in the upper right.

Keep your email address private. Turn off Public Profile in your Game Center account settings. See "Game Center settings" below.

Turn off multiplayer activity or friend requests. Go to Settings > General > Restrictions and turn off Multiplayer Games or Adding Friends. If the switches are grayed, tap Enable Restrictions at the top first.

Keep it friendly. To report offensive or inappropriate behavior, tap Friends, tap the person's name, tap ••• in the upper right, then tap Report a Problem.

Game Center settings

Go to Settings > Game Center, where you can:

- Sign out (tap your Apple ID)
- Allow invites
- Let nearby players find you
- Edit your Game Center profile (tap your nickname)
- Get friend recommendations from Contacts or Facebook

Specify which notifications you want for Game Center. Go to Settings > Notifications > Game Center. If Game Center doesn't appear, turn on Notifications.

Change restrictions for Game Center. Go to Settings > General > Restrictions.

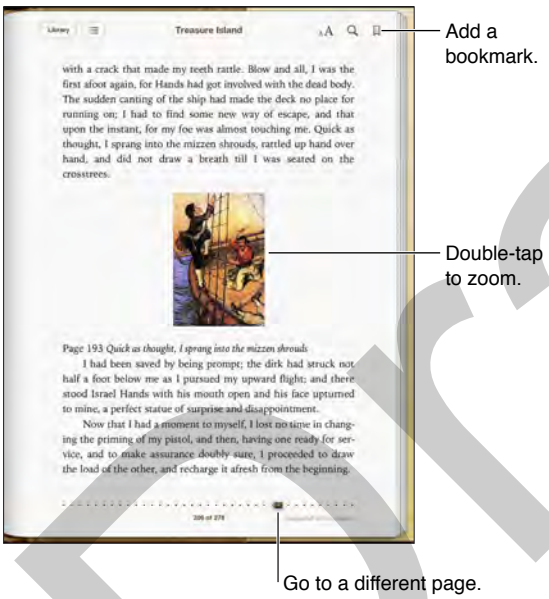
Draft

iBooks

24

At a glance

iBooks is a great way to read and buy books. Download the free iBooks app from the App Store, and then enjoy everything from classics to bestsellers.



To download the iBooks app and use the iBookstore, you need an Internet connection and an Apple ID.

Visit the iBookstore. In iBooks, tap Store to:

- Find books by browsing or searching
- Get a sample of a book to see if you like it
- Read and write reviews, and see current bestsellers
- Tell a friend about a book via Facebook, Twitter, iMessage, or email

Purchase a book. Find one you want, tap the price, then tap again to get it.

Get information about a book. You can read a summary of the book, read reviews, and try a sample of the book before buying it. After buying a book, you can write a review of your own.

Draft

Download a previous purchase. If you download a book you've previously purchased, you won't be charged again. To automatically download items purchased on other devices, go to Settings > iTunes & App Store. For information about purchased books and iCloud, see Organizing the bookshelf on page 100.

Update a book. If there's an update to a book you've downloaded, a badge notifies you of the new version. To see and download the updated book, tap Purchased, then tap Updates.

Reading books

Each book has a particular set of features, based on its contents and format. Some of the features described below might not be available in the book you're reading.

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

- *Show the controls:* Tap near the center of the page.
- *Enlarge an image:* Double-tap the image. In some books, touch and hold to display a magnifying glass you can use to view an image.
- *Go to a specific page:* Use the page navigation controls at the bottom of the screen. Or, tap and enter a page number, then tap the page number in the search results.
- *Look up a word:* Double-tap a word, then tap Define in the menu that appears. Definitions aren't available for all languages.
- *View the table of contents:* Tap . With some books, you can also pinch to see the the table of contents.
- *Add or remove a bookmark:* Tap . Tap again to remove the bookmark. You don't need to add a bookmark when you close the book, because iBooks remembers where you left off. You can have multiple bookmarks—to see them all, tap , then tap Bookmarks.

Annotate a book. You can add notes and highlights to a book.

- *Add a highlight:* Double-tap a word, use the grab points to adjust the selection, then tap Highlight and choose a style.
- *Share highlighted text:* Tap the highlighted text, then tap or Share. If the book you're reading is from the iBookstore, a link to the book is included.
- *Remove a highlight:* Tap the highlighted text, then tap .
- *Add a note:* Double-tap a word, then tap Note.
- *Remove a note:* Delete its text. To remove the note and its highlight, tap the highlighted text, then tap .
- *See all your notes:* Tap the center of the screen to display the controls, tap , then tap Notes.
- *Delete notes:* Tap the center of the screen to display the controls, tap , then tap Notes. Tap , then tap Edit Notes. Select the notes you want to delete, then tap Delete.
- *Share your notes:* Tap the center of the screen to display the controls, tap , then tap Notes. Tap , then tap Edit Notes. Select the notes you want to share, then tap Share.
- *Share a link to a book:* Tap the center of the screen to display the controls, then tap . Tap , then tap Share Book.

Change a book's appearance. Many books let you change the font, font size, and page color.

- *Change the font or font size:* Tap the center of the screen to display the controls, then tap AA. Some books allow you to change the font size only when iPad is in portrait orientation.

Draft

- *Change the color of the page and text:* Tap the center of the screen to display the controls, tap AA, then tap Themes and choose White, Sepia, or Night. This setting applies to all books that support it.
- *Change how pages are displayed:* Tap the center of the screen to display the controls, tap AA, then tap Themes and choose Book, Full Screen, or Scroll.
- *Change the brightness:* Tap the center of the screen to display the controls, then tap ☼. If you don't see ☼, tap AA first.
- *Turn justification and hyphenation on or off:* Go to Settings > iBooks. PDFs and some books can't be justified or hyphenated.

Interacting with multimedia

Some books have interactive elements, such as movies, diagrams, presentations, galleries, 3D objects, and chapter reviews. To interact with a multimedia object, tap, swipe, or pinch it. For example, with a presentation, you can tap ▶ to start it, then tap to see each screen. To view an element full-screen, spread two fingers apart. When you finish, pinch to close it.

Studying notes and vocabulary lists

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

View your notes. Tap ☰. You can also:

- *View notes by chapter:* Tap a chapter to see its notes. Badges in the chapter list indicate the number of notes and highlights you've added to each chapter. If you don't see the chapter list, tap the Chapter button.
- *Search all notes:* Enter a word or phrase in the search field. If you don't see the search field, tap the Chapters button. Tap a chapter to see its notes.
- *Review notes and vocabulary as study cards:* Tap Study Cards. Swipe to move between cards. If a card has notes, indicated by ↺, tap the card to turn it over. Tap ⚙ to select which highlights are displayed, or to shuffle the cards. If the chapter includes a vocabulary list, you can also include it in your cards.
- *Email your notes:* Tap ⬆. Select the notes that you want to share, then tap Email.
- *Delete notes:* Tap ⬆. Select the notes that you want to delete, then tap Delete.

Draft

Organizing the bookshelf

Use the bookshelf to browse your books and PDFs. You can also organize items in collections.

Available on the iBookstore. Title availability is subject to change.

Move a book or PDF to a collection. Go to the bookshelf and tap Edit. Select the items you want to move, then tap Move and select a collection.

View and manage collections. Tap Collections. To edit the name of a collection, tap Edit. You can't edit or remove the built-in collections.

Sort the bookshelf. Tap ≡, then select a sort method at the bottom of the screen.

Delete items from the bookshelf. Tap Edit, then tap each item that you want to delete, so that a checkmark appears. Tap Delete, then tap Done.

- *Delete this copy:* Removes the item from iPad, but it still appears on the bookshelf and can be downloaded again.
- *Delete from all devices:* Removes the item from all of your iOS devices and from the bookshelf. You can download it again from Purchases in the iBookstore. See At a glance on page 97.

Search for a book. Go to the bookshelf. Tap the status bar to scroll to the top of the screen, then tap 🔍. Searching looks for the title and the author's name.

Download a book from iCloud: Books you've purchased that aren't on iPad appear with an iCloud badge. To download the book, tap its cover. To automatically download items purchased on other devices, go to Settings > iTunes & App Store.

- *Hide purchases on the bookshelf:* To show or hide purchased books that aren't on iPad, go to Settings > iBooks > Show All Purchases. You can download purchases from the iBookstore. See At a glance on page 97.

Syncing books and PDFs

Use iTunes to sync your books and PDFs between iPad and your computer, and to buy books from the iTunes Store. When iPad is connected to your computer, the Books pane lets you select which items to sync. You can also find DRM-free ePub books and PDFs on the web and add them to your iTunes library.

Draft

Sync a book or PDF to iPad. In iTunes on your computer, choose File > Add to Library and select the file. Then sync.

Add a book or PDF to iBooks without syncing. If the book or PDF isn't too large, email it to yourself from your computer. Open the email message on iPad, then touch and hold the attachment and choose "Open in iBooks."

Printing or emailing a PDF

You can use iBooks to email a copy of a PDF, or to print all or part of the PDF to an AirPrint printer.

Email a PDF. Open the PDF, tap ⬆, then choose Email.

Print a PDF. Open the PDF, tap ⬆, then choose Print. For more information, see AirPrint on page 30.

iBooks settings

iBooks stores your purchases, collections, bookmarks, notes, and current page information in iCloud, so you can read books seamlessly across all your iOS devices. iBooks saves information about all of your books when you open or quit the app. Information about individual books is also saved when you open or close the book.

Turn syncing on or off. Go to Settings > iBooks. You can sync bookmarks and collections.

Some books might access video or audio that's stored on the web. If iPad has a cellular data connection, playing these files may incur carrier charges.

Turn online content access on or off. Go to Settings > iBooks > Online Content.

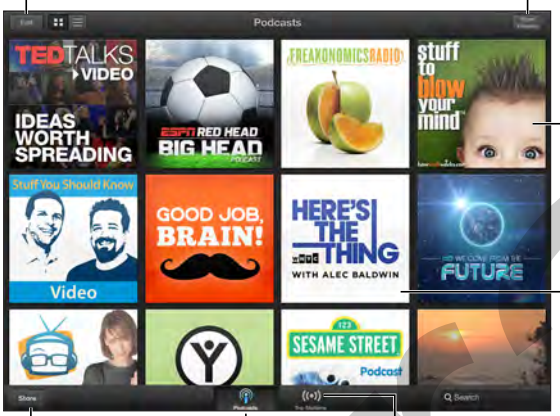
Change the direction the page turns when you tap the left margin. Go to Settings > iBooks > Both Margins Advance.

Draft

Podcasts

25

Download the free Podcasts app from the App Store, then browse, subscribe to, and play your favorite podcasts on iPad.

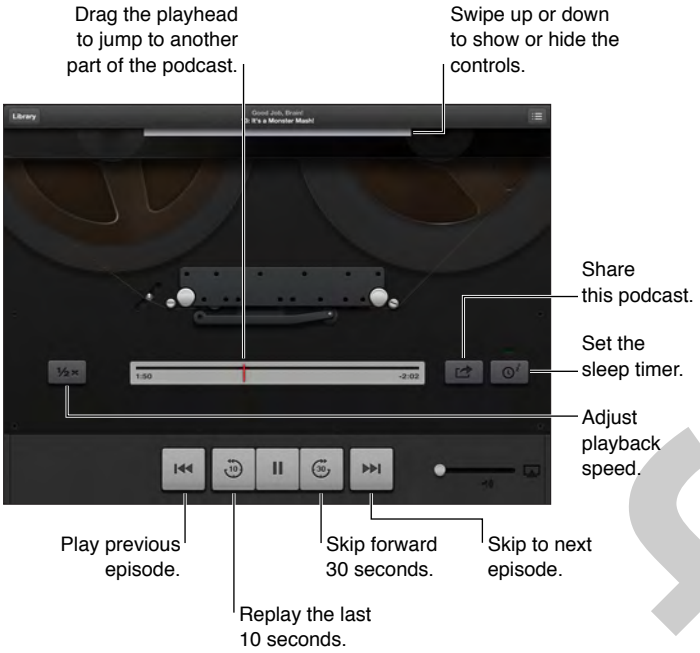


Get podcasts:

- *Browse the full catalog:* Tap Catalog, then tap any podcast that interests you.
- *Browse the most popular podcasts:* Tap Top Stations (if you don't see it, tap Library first). Swipe left or right to change the category, or swipe up or down to browse the current category. Tap a podcast to preview the latest episode, or tap ⓘ to see a list of episodes.
- *Stream an episode:* Tap any episode.
- *Download an episode so you can listen to it when you're not connected to Wi-Fi:* Tap the download button next to any episode.
- *Subscribe to a podcast to always get the latest episode:* If you're browsing the catalog, tap a podcast to see the list of episodes, then tap Subscribe. If you've already downloaded an episode, tap the podcast in your library, tap ⚙, then turn on Subscription.
- *Automatically get the latest episode of a subscribed podcast:* Tap the podcast in your library, tap ⚙, then turn on Auto-Download. If you don't see the Auto-Download switch, make sure you've turned on Subscription first.

Draft

Control audio playback: To see all of the playback controls, swipe the artwork upward.



Control video playback: Tap the screen while you're watching a video podcast.

Draft

Apple Confidential

Accessibility

A Appendix

Accessibility features

iPad incorporates these accessibility features:

- VoiceOver
- Support for braille displays
- Siri
- Zoom
- Invert Colors
- Speak Selection
- Speak Auto-Text
- Large and bold text
- Reduced screen motion
- On/off switch labels
- Subtitles and closed captions
- Mono audio and balance
- Assignable tones
- Guided Access
- Switch Control
- AssistiveTouch
- Widescreen keyboards

Turn on accessibility features. Go to Settings > General > Accessibility, or use the Accessibility Shortcut. See Accessibility Shortcutbelow.

Control accessibility using iTunes. Connect iPad to your computer and select iPad in the iTunes device list. Click Summary, then click Configure Universal Access at the bottom of the Summary screen.

For more information about the iPad accessibility features, go to www.apple.com/accessibility.

Accessibility Shortcut

Choose the features you want to control. Go to Settings > General > Accessibility > Accessibility Shortcut and select the accessibility features you use.

Use the Accessibility Shortcut. Press the Home button quickly three times to turn any of these features on or off:

- VoiceOver
- Zoom
- Invert Colors

Draft

- Guided Access (The shortcut starts Guided Access if it's already turned on. See Guided Access on page 117.)
- Switch Control
- AssistiveTouch

Not so fast. To slow down the triple-click speed, go to Settings > General > Accessibility > Home-click Speed.

VoiceOver

VoiceOver describes aloud what appears onscreen, so you can use iPad without seeing it.

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

Touch the screen or drag your finger over it to hear the items on the screen. When you select text, VoiceOver reads the text. If you turn on Speak Hints, VoiceOver may tell you the name of the item and provide instructions—for example, "double-tap to open." To interact with items, such as buttons and links, use the gestures described in Learn VoiceOver gestures on page 107.

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

Note: VoiceOver speaks in the language specified in International settings, which may be influenced by the Region Format setting in Settings > General > International. VoiceOver is available in many languages, but not all.

VoiceOver basics

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

Turn VoiceOver on or off. Go to Settings > General > Accessibility > VoiceOver, or use the Accessibility Shortcut. See Accessibility Shortcut on page 104.

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

- *Select an item:* Tap it, or lift your finger while dragging over it.
- *Select the next or previous item:* Swipe right or left with one finger. Item order is left-to-right, top-to-bottom.
- *Select the item above or below:* Set the rotor to Vertical Navigation, then swipe up or down with one finger. For more about the rotor, see Use the VoiceOver rotor.
- *Select the first or last item on the screen:* Swipe up or down with four fingers.
- *Select an item by name:* Triple-tap with two fingers anywhere on the screen to open the Item Chooser. Then type a name in the search field, or swipe right or left to move through the list alphabetically, or tap the table index to the right of the list and swipe up or down to move quickly through the list of items.
- *Change an item's name so it's easier to find:* Select the item, then double-tap and hold with two fingers anywhere on the screen.
- *Speak the text of the selected item:* Set the rotor control to characters or words, then swipe down or up with one finger.

Draft

- *Turn spoken hints on or off:* Go to Settings > General > Accessibility > VoiceOver > Speak Hints.
- *Use phonetic spelling:* Go to Settings > General > Accessibility > VoiceOver > Phonetic Feedback.
- *Speak the entire screen from the top:* Swipe up with two fingers.
- *Speak from the current item to the bottom of the screen:* Swipe down with two fingers.
- *Pause speaking:* Tap once with two fingers. Tap again with two fingers to resume. Speaking resumes when you select another item.
- *Mute VoiceOver:* Double-tap with three fingers. Double-tap again with three fingers to unmute. If you're using an external keyboard, you can press the Control key on the keyboard to mute or unmute VoiceOver.
- *Silence sound effects:* Turn off Settings > General > Accessibility > VoiceOver > Use Sound Effects.

Use a larger VoiceOver cursor. Turn on Settings > General > Accessibility > VoiceOver > Large Cursor.

Adjust the speaking voice. You can adjust the characteristics of the VoiceOver speaking voice to make it easier for you to understand:

- *Change the speaking volume:* Use the volume buttons on iPad. You can also add volume to the rotor and swipe up and down to adjust; see Use the VoiceOver rotor on page 109.
- *Change the speaking rate:* Go to Settings > General > Accessibility > VoiceOver and drag the Speaking Rate slider. You can also add Speech Rate to the rotor, then swipe up or down to adjust.
- *Use pitch change:* VoiceOver uses a higher pitch when speaking the first item of a group (such as a list or table) and a lower pitch when speaking the last item of a group. Go to Settings > General > Accessibility > VoiceOver > Use Pitch Change.
- *Speak punctuation:* Set the rotor to Punctuation, then swipe up or down to to select how much you want to hear.
- *Change the language for iPad:* Go to Settings > General > International > Language. VoiceOver pronunciation of some languages is affected by Settings > General > International > Region Format.
- *Change pronunciation:* Set the rotor to Language, then swipe up or down. Language is available in the rotor only if you select more than one pronunciation at Settings > General > Accessibility > VoiceOver > Languages & Dialects.
- *Choose which pronunciations are available in the rotor:* Go to Settings > General > Accessibility > VoiceOver > Languages & Dialects. To adjust the voice quality or speaking rate for each language, tap ⓘ next to the language. To change the order of the languages, drag ≡ up or down. To delete a language, tap Edit.
- *Set the default dialect for the current iPad language:* Go to Settings > General > Accessibility > VoiceOver > Languages & Dialects.
- *Change the basic reading voice:* Go to Settings > General > Accessibility > VoiceOver > Use Compact Voice.

Use iPad with VoiceOver

Unlock iPad. Press either the Home button or the Sleep/Wake button, swipe to select the Unlock slide, then double-tap the screen.

Enter your passcode silently. To avoid having your passcode spoken as you enter it, use handwriting to enter it; see Write with your finger on page 110.

Draft

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

Double-tap the selected item. Triple-tap the screen.

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

Use a standard gesture. Double-tap and hold your finger on the screen until you hear three rising tones, then make the gesture. When you lift your finger, VoiceOver gestures resume.

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

- *Scroll continuously through a list:* Double-tap and hold until you hear three rising tones, then drag up or down.
- *Use the list index:* Some lists have an alphabetical index along the right side. The index can't be selected by swiping between items; you must touch the index directly to select it. With the index selected, swipe up or down to move through the index. You can also double-tap, then slide your finger up or down.
- *Reorder a list:* You can change the order of items in some lists, such as the Rotor items in Accessibility settings. Select ≡ to the right side of an item, double-tap and hold until you hear three rising tones, then drag up or down.

Open Notification Center. Select any item in the status bar, then swipe down with three fingers. To dismiss, do a two-finger scrub (move two fingers back and forth three times quickly, making a "z").

Open Control Center. Select any item in the status bar, then swipe up with three fingers. To dismiss Control Center, do a two-finger scrub.

Switch apps. Press the Home button twice to see what's running, then swipe left or right with one finger to select and tap to open. You can also set the rotor to Actions while viewing open apps and swipe up or down.

Rearrange your Home screen. On the Home screen, select the icon you want to move. Double-tap and hold the icon, then drag it. VoiceOver speaks the row and column position as you drag the icon. Release the icon when it's in the location you want. You can drag additional icons. Drag an item to the left or right edge of the screen to move it to a different page of the Home screen. When you finish, press the Home button.

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

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

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

Learn VoiceOver gestures

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

Draft

You can use different techniques to enter VoiceOver gestures. For example, you can enter a two-finger tap using two fingers from one hand, or one finger from each hand. You can even use your thumbs. Many use a split-tap gesture: instead of selecting an item and double-tapping, touch and hold an item with one finger, then tap the screen with another finger. Try different techniques to discover which works best for you.

Try different techniques to discover what 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.

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

Here's a summary of key VoiceOver gestures:

Navigate and read

- *Tap:* Select and speak the item.
- *Swipe right or left:* Select the next or previous item.
- *Swipe up or down:* Depends on the rotor setting. See Use the VoiceOver rotor on page 109.
- *Two-finger tap:* Stop speaking the current item.
- *Two-finger swipe up:* Read all from the top of the screen.
- *Two-finger swipe down:* Read all from the current position.
- *Two-finger "scrub":* Move two fingers back and forth three times quickly (making a "z") to dismiss an alert or go back to the previous screen.
- *Three-finger swipe up or down:* Scroll one page at a time.
- *Three-finger swipe right or left:* Go to the next or previous page (such as the Home screen or Stocks).
- *Three-finger tap:* Speak additional information, such as position within a list or whether text is selected.
- *Four-finger tap at top of screen:* Select the first item on the page.
- *Four-finger tap at bottom of screen:* Select the last item on the page.

Activate

- *Double-tap:* Activate the selected item.
- *Triple-tap:* Double-tap an item.
- *Split-tap:* As an alternative to selecting an item and double-tapping to activate it, touch and hold an item with one finger, and then tap the screen with another.
- *Double-tap and hold (1 second) + standard gesture:* Use a standard gesture. The double-tap and hold gesture tells iPad to interpret the next gesture as standard. For example, you can double-tap and hold, and then without lifting your finger, drag your finger to slide a switch.
- *Two-finger double-tap:* Play or pause in Music, Videos, or Photos. Take a photo in Camera. Start or pause recording in Camera. Start or stop the stopwatch.
- *Two-finger double-tap and hold:* Relabel the selected item.
- *Two-finger triple-tap:* Open the Item Chooser.
- *Three-finger double-tap:* Mute or unmute VoiceOver.
- *Three-finger triple-tap:* Turn the screen curtain on or off.

Draft

Use the VoiceOver rotor

Use the rotor to choose what happens when you swipe up or down with VoiceOver turned on.

Operate the rotor. Rotate two fingers on the iPad screen around a point between them.

Change the options included in the rotor. Go to Settings > General > Accessibility > VoiceOver > Rotor, then select the options you want to be available in the rotor.

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

When you use an Apple Wireless Keyboard to control VoiceOver, the rotor lets you adjust settings such as volume, speech rate, use of pitch or phonetics, typing echo, and reading of punctuation. See Use VoiceOver with an Apple Wireless Keyboard on page 112.

Use the onscreen keyboard

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

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

Enter text. Type characters using the onscreen keyboard:

- *Standard typing:* Select a key on the keyboard by swiping left or right, then double-tap to enter the character. Or move your finger around the keyboard to select a key and, while continuing to touch the key with one finger, tap the screen with another finger. VoiceOver speaks the key when it's selected, and again when the character is entered.
- *Touch typing:* Touch a key on the keyboard to select it, then lift your finger to enter the character. If you touch the wrong key, slide your finger to the key you want. VoiceOver speaks the character for each key as you touch it, but doesn't enter a character until you lift your finger.
- *Choose standard or touch typing:* With VoiceOver turned on and a key selected on the keyboard, use the rotor to select Typing Mode, then swipe up or down.

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.

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.

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

Change typing feedback. Go to Settings > General > Accessibility > VoiceOver > Typing Feedback.

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

Delete a character. Select ⌫, then double-tap or split-tap. You must do this even when touch typing. To delete multiple characters, touch and hold the Delete key, then tap the screen with another finger once for each character you want to delete. VoiceOver speaks the character as it's deleted. If Use Pitch Change is turned on, VoiceOver speaks deleted characters in a lower pitch.

Select text. Set the rotor to Edit, swipe up or down to choose Select or Select All, then double tap. If you chose Select, the word closest to the insertion point is selected when you double-tap. If you chose Select All, all text is selected. Pinch to increase or decrease the selection.

Cut, copy, or paste. Make sure the rotor is set to Edit. Select the text, swipe up or down to choose Cut, Copy, or Paste, then double-tap.

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

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

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

Write with your finger

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

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

Hear the currently selected character type. Tap with three fingers.

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

Enter a space. Swipe right with two fingers.

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

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

Select an item on the Home screen. Start writing the name of the item. If there are multiple matches, continue to spell the name until it is unique, or swipe up or down with two fingers to select a match candidate.

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

Skip to a letter in a table index. Select the index to the right of the table, then write the letter.

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

Exit handwriting mode. Turn the rotor to a different selection.

Read math equations

VoiceOver can read aloud math equations encoded using:

- MathML on the web
- MathML or LaTeX in iBooks Author

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

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

Equations read by VoiceOver can also be output to a braille device using Nemeth code, as well as the codes used by Unified English Braille, British English, French, and Greek. See Support for braille displays on page 114.

Using VoiceOver with Safari

Search the web. Select the search field, 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, then swipe up or down.

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

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

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

If you pair an Apple Wireless Keyboard with iPad, you can use single-key Quick Nav commands to navigate webpages. See Use VoiceOver with an Apple Wireless Keyboard on page 112.

Use VoiceOver with Maps

With VoiceOver, you can zoom in or out, select a pin, or get information about a location.

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

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

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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.

Edit videos with VoiceOver

You can use VoiceOver gestures to trim Camera videos.

Trim a video. While viewing a video, double-tap the screen to display the video controls. 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 and double-tap.

Use VoiceOver with an Apple Wireless Keyboard

You can control VoiceOver using an Apple Wireless Keyboard paired with iPad. See Bluetooth devices on page 31.

Use VoiceOver keyboard commands to navigate the screen, select items, read screen contents, adjust the rotor, and perform other VoiceOver actions. Most commands use the Control-Option key combination, abbreviated in the table that follow as "VO."

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

VoiceOver keyboard commands

VO = Control-Option

- *Turn on VoiceOver help:* VO–K
- *Turn off VoiceOver help:* Escape
- *Select the next or previous item:* VO–Right Arrow or VO–Left Arrow
- *Double-tap to activate the selected item:* VO–Space bar
- *Press the Home button:* VO–H
- *Move to the status bar:* VO–M
- *Read from the current position:* VO–A
- *Read from the top:* VO–B
- *Pause or resume reading:* Control
- *Mute or unmute VoiceOver:* VO–S
- *Open Notification Center:* Fn–VO–Up Arrow
- *Open Control Center:* Fn–VO–Down Arrow
- *Open the Item Chooser:* VO–I
- *Double-tap with two fingers:* VO–"-"
- *Adjust the rotor:* Use Quick Nav (see below)
- *Swipe up or down:* VO–Up Arrow or VO–Down Arrow
- *Adjust the speech rotor:* VO–Command–Left Arrow or VO–Command–Right Arrow

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- *Adjust the setting specified by the speech rotor:* VO–Command–Up Arrow or VO–Command–Down Arrow
- *Turn the screen curtain on or off:* VO–Shift–S
- *Return to the previous screen:* Escape
- *Switch apps:* Command–Tab or Command–Shift–Tab

Quick Nav

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

- *Turn Quick Nav on or off:* Left Arrow–Right Arrow
- *Select the next or previous item:* Right Arrow or Left Arrow
- *Select the next or previous item specified by the rotor:* Up Arrow or Down Arrow
- *Select the first or last item:* Control–Up Arrow or Control–Down Arrow
- *Tap an item:* Up Arrow–Down Arrow
- *Scroll up, down, left, or right:* Option–Up Arrow, Option–Down Arrow, Option–Left Arrow, or Option–Right Arrow
- *Adjust the rotor:* Up Arrow–Left Arrow or Up Arrow–Right Arrow

Single-letter Quick Nav for the web

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

- *Heading:* H
- *Link:* L
- *Text field:* R
- *Button:* B
- *Form control:* C
- *Image:* I
- *Table:* T
- *Static text:* S
- *ARIA landmark:* W
- *List:* X
- *Item of the same type:* M
- *Level 1 heading:* 1
- *Level 2 heading:* 2
- *Level 3 heading:* 3
- *Level 4 heading:* 4
- *Level 5 heading:* 5
- *Level 6 heading:* 6

Text editing

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

- *Go forward or back one character:* Right Arrow or Left Arrow
- *Go forward or back one word:* Option–Right Arrow or Option–Left Arrow
- *Go up or down one line:* Up Arrow or Down Arrow

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- *Go to the beginning or end of the line:* Command–Left Arrow or Command–Down Arrow
- *Go to the beginning or end of the paragraph:* Option–Up Arrow or Option–Down Arrow
- *Go to the previous or next paragraph:* Option–Up Arrow or Option–Down Arrow
- *Go to the top or bottom of the text field:* Command–Up Arrow or Command–Down Arrow
- *Select text as you move:* Shift + any of the insertion point movement commands above
- *Select all text:* Command–A
- *Copy, cut, or paste the selected text:* Command–C, Command–X, or Command–V
- *Undo or redo last change:* Command–Z or Shift–Command–Z

Support for braille displays

You can use a Bluetooth braille display to read VoiceOver output, and you can use a braille display with input keys and other controls to control iPad when VoiceOver is turned on. For a list of supported braille displays, go to www.apple.com/accessibility/iphone/braille-display.html.

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

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

- Turn on contracted braille
- Turn off automatic braille translation
- Turn off eight-dot braille
- Turn on the status cell and choose its location
- Turn on Nemeth code for equations
- Display the onscreen keyboard
- Change the braille translation from Unified English

For information about common braille commands for VoiceOver navigation, and for information specific to certain displays, go to support.apple.com/kb/HT4400.

The braille display uses the language that's set for Voice Control. This is normally the language that's set for iPad in Settings > International > Language. You can use the VoiceOver language setting to set a different language for VoiceOver and braille displays.

Set the language for VoiceOver. Go to Settings > General > International > Voice Control.

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

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

- Announcement History contains an unread message
- The current Announcement History message hasn't been read
- VoiceOver speech is muted
- The iPad battery is low (less than 20% charge)
- iPad is in landscape orientation
- The screen display is turned off
- The current line contains additional text to the left

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- The current line contains additional text to the right

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

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

Siri

With Siri, you can do things with your iPad, such as opening apps, just by asking, and VoiceOver can read Siri responses to you. For information, see Using Siri on page 36.

Zoom

Many apps let you zoom in or out on specific items. For example, you can double-tap or pinch to expand webpage columns in Safari. But, there's also a Zoom feature that lets you magnify the entire screen, no matter what you're doing. And, you can use Zoom together with VoiceOver.

Turn Zoom on or off. Go to Settings > General > Accessibility > Zoom. Or, use Triple-click Home. See Accessibility Shortcut on page 104.

Zoom in or out. Double-tap the screen with three fingers.

Vary the magnification. With three fingers, tap and drag up or down. The tap-and-drag gesture is similar to a double-tap, except you don't lift your fingers on the second tap—instead, drag your fingers on the screen. Once you start dragging, you can drag with a single finger. iPad returns to the adjusted magnification when you zoom out and in again using the three-finger double-tap.

Pan around the screen. While zoomed in, drag the screen with three fingers. Once you start dragging, you can continue with just one finger. Or, hold a single finger near the edge of the display to pan to that side. Move your finger closer to the edge to pan more quickly. When you open a new screen, Zoom goes to the top-middle of the screen.

While using Zoom with an Apple Wireless Keyboard, the screen image follows the insertion point, keeping it in the center of the display. See Use an Apple Wireless Keyboard on page 24.

Invert Colors

Sometimes, inverting the colors on the iPad screen may make it easier to read. When Invert Colors is turned on, the screen looks like a photographic negative.

Invert the screen's colors. Go to Settings > General > Accessibility > Invert Colors.

Speak Selection

Even with VoiceOver turned off, you can have iPad read aloud any text you select.

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

- Adjust the speaking rate
- Choose to have individual words highlighted as they're read

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

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Speak Auto-Text

Speak Auto-text speaks the text corrections and suggestions iPad makes when you type.

Turn Speak Auto-text on or off. Go to Settings > General > Accessibility > Speak Auto-text.

Speak Auto-text also works with VoiceOver and Zoom.

Large and bold text

Display larger text in alerts, and in apps such as Calendar, Contacts, Mail, Messages, and Notes. Go to Settings > General > Accessibility > Larger Type, where you can turn on Larger Dynamic Type and adjust the font size.

Display bolder text for all items on iPad. Go to Settings > General > Accessibility and turn on Bold Text.

Increase text contrast on difficult backgrounds when possible. Go to Settings > General > Accessibility and turn on Increase Contrast.

Reduced screen motion

You can stop the movement of some screen elements, such as the parallax of the wallpaper behind home screen icons.

Reduce interface motion. Go to Settings > General > Accessibility and turn on Reduce Motion.

On/off switch labels

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

Add switch setting labels. Go to Settings > General > Accessibility and turn on On/Off Labels.

Subtitles and closed captions

The Videos app includes an Alternate Track button you can tap to choose subtitles and captions offered by the video you're watching. Standard subtitles and captions are usually listed, but if you prefer special accessible captions, such as subtitles for the deaf and hard of hearing (SDH), you can set iPad to list them instead when they're available.

Prefer accessible subtitles and closed captions for the hard of hearing in the list of available subtitles and captions. Turn on Settings > General > Accessibility > Subtitles & Captioning > Closed Captions + SDH. This also turns on subtitles and captions in the Videos app.

Choose from available subtitles and captions. Tap while watching a video in Videos.

Customize your subtitles and captions. Go to Settings > General > Accessibility > Subtitles & Captioning > Style, where you can choose an existing caption style or create a new style based on your choice of:

- Font, size, and color
- Background color and opacity
- Text opacity, edge style, and highlight

Not all video content includes closed captions.

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Mono audio and balance

Mono Audio combines the sound from the left and right channels into a mono signal played on through both channels. This way you can hear everything with either ear, or through both ears with one set louder.

Turn Mono Audio on or off and adjust the balance. Go to Settings > General > Accessibility > Mono Audio.

Assignable tones

You can assign distinctive ringtones to people in your contacts list for audible FaceTime caller ID. You can also assign distinct tones to alert you of a variety of other events, including new voicemail, new mail, sent mail, Tweet, Facebook Post, and reminders. See Sounds and silence on page 28.

You can purchase ringtones from the iTunes Store on iPad. See Chapter 20, iTunes Store, on page 89.

Guided Access

Guided Access helps someone using iPad to stay focused on a task. Guided Access limits iPad to a single app, and lets you control which app features are available. Use Guided Access to:

- Temporarily restrict iPad to a particular app
- Disable areas of the screen that aren't relevant to a task, or areas where an accidental gesture might cause a distraction
- Disable the iPad hardware buttons

Use Guided Access. Go to Settings > General > Accessibility > Guided Access, where you can:

- Turn Guided Access on or off
- Set a passcode that controls the use of Guided Access and prevents someone from leaving an active session
- Set whether other accessibility shortcuts are available during a session

Start a Guided Access session. Open the app you want to run, then triple-click the Home button. Adjust settings for the session, then click Start.

- *Disable app controls and areas of the app screen:* Circle any part of the screen you want to disable. Use the handles to adjust the area.
- *Enable the Sleep/Wake or Volume buttons:* Tap Options below Hardware Buttons.
- *Ignore all screen touches:* Turn off Touch.
- *Keep iPad from switching from portrait to landscape or from responding to any other motions:* Turn off Motion.

End a Guided Access session. Triple-click the Home button and enter the Guided Access passcode.

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Switch Control

Switch Control lets you control iPad using a single switch, or multiple switches. Use any of several methods to perform actions such as selecting, tapping, dragging, typing, and even free-hand drawing. The basic technique is to use a switch to select an item or location on the screen, and then use the same (or different) switch to choose an action to perform on that item or location. Three basic methods are:

- *Item scanning (default),* which highlights different items on the screen until you select one.
- *Point scanning,* which lets you use scanning crosshairs to pick a screen location.
- *Manual selection,* which lets you move from item to item on demand (requires multiple switches).

Whichever method you use, when you select an individual item (rather than a group), a menu appears so you can choose how to act on the selected item (tap, drag, or pinch, for example).

If you use multiple switches, you can set up each switch to perform a specific action and customize your item selection method. For example, instead of automatically scanning screen items, you can set up switches to move to the next or previous item on demand.

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

AssistiveTouch

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

Turn on AssistiveTouch. Go to Settings > General > Accessibility > AssistiveTouch. To set Triple-click Home to turn AssistiveTouch on or off, go to Settings > General > Accessibility > Triple-click Home.

Adjust the tracking speed (with accessory attached). Go to Settings > General > Accessibility > AssistiveTouch > Touch speed.

Show or hide the AssistiveTouch menu. Click the secondary button on your accessory.

Hide the menu button (with accessory attached). Go to Settings > General > Accessibility > AssistiveTouch > Always Show Menu.

Perform a swipe or drag that uses 2, 3, 4, or 5 fingers. Tap the menu button, tap Gestures, and then tap the number of digits needed for the gesture. When the corresponding circles appear on the screen, swipe or drag in the direction required by the gesture. When you finish, tap the menu button.

Perform a pinch gesture. Tap the menu button, tap Favorites, and then tap Pinch. When the pinch circles appear, touch anywhere on the screen to move the pinch circles, then drag the pinch circles in or out to perform a pinch gesture. When you finish, tap the menu button.

Create your own gesture. Tap the menu button, tap Favorites, and then tap an empty gesture placeholder. Or, go to Settings > General > Accessibility > AssistiveTouch > Create New Gesture.

Lock or rotate the screen, adjust iPad volume, or simulate shaking iPad. Tap the menu button, then tap Device.

Simulate pressing the Home button. Tap the menu button, then tap Home.

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Move the menu button. Drag it to any location on the screen.

Exit a menu without performing a gesture. Tap anywhere outside the menu.

Widescreen keyboards

All built-in iPad apps show a larger onscreen keyboard when you rotate iPad to landscape view. You can also type using an Apple Wireless Keyboard.

Accessibility in OS X

Take advantage of the accessibility features in OS X when you use iTunes to sync information and content from your iTunes library to iPad. In the Finder, choose Help > Help Center, then search for "accessibility."

For more information about iPad and OS X accessibility features, go to www.apple.com/accessibility.

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iPad in Business

B Appendix

iPad in the enterprise

With support for secure access to corporate networks, directories, and Microsoft Exchange, iPad is ready to go to work. For detailed information about using iPad in business, go to www.apple.com/ipad/business.

Mail, Contacts, and Calendar

To use iPad with your work accounts, you need to know the settings your organization requires. If you received your iPad from your organization, the settings and apps you need might already be installed. If it's your own iPad, your system administrator may provide you with the settings for you to enter, or they may have you connect to a *mobile device management* server that installs the settings and apps you should have.

Organizational settings and accounts are typically in *configuration profiles*. You might be asked to install a configuration profile that was sent to you in an email, or one that is downloaded from a web page. When you open the file, iPad asks for your permission to install the profile, and displays information about what it contains.

In most cases, when you install a configuration profile that sets up an account for you, some iPad settings can't be changed. For example, your organization might turn on Auto-Lock and require you to set a passcode in order to protect the information in the accounts you access.

You can see your profiles in Settings > General > Profiles. If you delete a profile, all of the settings and accounts associated with the profile are also removed, including any custom apps your organization provided or had you download. In some cases, you need a passcode to remove profiles. If so, contact your system administrator.

Network access

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

Apps

In addition to the built-in apps and the ones you get from the App Store, your organization may want you to have certain other apps. They might provide you with a pre-paid *redemption code* for the App Store. When you download an app using a redemption code, you own it, even though your organization purchased it for you.

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Your organization can also purchase App Store app licenses that they assign to you for a period of time, but that they retain. You'll be invited to participate in your organization's program in order to access these apps. After you're enrolled with your iTunes account, you're prompted to install these apps as they're assigned to you. You can also find them in your Purchased list in the App Store. An app you receive this way is removed if the organization assigns it to someone else.

Your organization might also have custom apps that they've developed. These apps aren't in the App Store. You'll install them from a webpage or, if your organization uses mobile device management, you'll receive a notification asking you to install them over the air. These apps belong to your organization, and they may be removed or stop working if you delete a configuration profile or dissociate iPad from the mobile device management server.

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International Keyboards

C Appendix

International keyboards let you type text in many different languages, including Asian languages and languages written from right to left.

Use international keyboards

International keyboards let you type text in many different languages, including Asian languages and languages written from right to left. For a list of supported keyboards, go to www.apple.com/ipad/specs.

Manage keyboards. Go to Settings > General > International > Keyboards.

- *Add a keyboard:* Tap Add New Keyboard, then choose a keyboard from the list. Repeat to add more keyboards.
- *Remove a keyboard:* Tap Edit, tap ⊖ next to the keyboard you want to remove, then tap Delete.
- *Edit your keyboard list:* Tap Edit, then drag ≡ next to a keyboard to a new place in the list.

To enter text in a different language, switch keyboards.

Switch keyboards while typing. Touch and hold the Globe key 🌐 to show all your enabled keyboards. To choose a keyboard, slide your finger to the name of the keyboard, then release. The Globe key 🌐 appears only if you enable more than one keyboard.

You can also just tap 🌐. When you tap 🌐, the name of the newly activated keyboard appears briefly. Continue tapping to access other enabled keyboards.

Many keyboards provide letters, numbers, and symbols that aren't visible on the keyboard.

Enter accented letters or other characters. Touch and hold the related letter, number, or symbol, then slide to choose a variant. For example:

- *On a Thai keyboard:* Choose native numbers by touching and holding the related Arabic number.
- *On a Chinese, Japanese, or Arabic keyboard:* Suggested characters or candidates appear at the top of the keyboard. Tap a candidate to enter it, or swipe left to see more candidates.

Use the extended candidate list. Tap the up arrow on the right to view the full candidate list.

- *Scroll the list:* Swipe up or down.
- *Return to the short list:* Tap the down arrow.

When using certain Chinese or Japanese keyboards, you can create a shortcut for word and input pairs. The shortcut is added to your personal dictionary. When you type a shortcut while using a supported keyboard, the paired word or input is substituted for the shortcut.

Turn shortcuts on or off. Go to Settings > General > Keyboard > Shortcuts. Shortcuts are available for:

- *Simplified Chinese:* Pinyin

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- *Traditional Chinese:* Pinyin and Zhuyin
- *Japanese:* Romaji and 50 Key

Special input methods

You can use keyboards to enter some languages in different ways. A few examples are Chinese Cangjie and Wubihua, Japanese Kana, and Facemarks. You can also use your finger or a stylus to write Chinese characters on the screen.

Build Chinese characters from the component Cangjie keys. As you type, suggested characters appear. Tap a character to choose it, or continue typing up to five components to see more options.

Build Chinese Wubihua (stroke) characters. Use the keypad to build Chinese characters using up to five strokes, in the correct writing sequence: horizontal, vertical, left falling, right falling, and hook. For example, the Chinese character 圈 (circle) should begin with the vertical stroke 丨.

- As you type, suggested Chinese characters appear (the most commonly used characters appear first). Tap a character to choose it.
- If you're not sure of the correct stroke, enter an asterisk (*). To see more character options, type another stroke, or scroll through the character list.
- Tap the match key (匹配) to show only characters that match exactly what you typed.

Write Chinese characters. Write Chinese characters directly on the screen with your finger when Simplified or Traditional Chinese handwriting input is turned on. As you write character strokes, iPad recognizes them and shows matching characters in a list, with the closest match first. When you choose a character, its likely follow-on characters appear in the list as additional choices.

You can type some complex characters, such as 鱲 (part of the name for the Hong Kong International Airport), by writing two or more component characters in sequence. Tap the character to replace the characters you typed. Roman characters are also recognized.

Type Japanese kana. Use the Kana keypad to select syllables. For more syllable options, tap the arrow key and select another syllable or word from the window.

Type Japanese romaji. Use the Romaji keyboard to type syllables. Alternative choices appear along the top of the keyboard, tap one to type it. For more syllable options, tap the arrow key and select another syllable or word from the window.

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Type facemarks or emoticons. Use the Japanese Kana keyboard and tap the ^_^ key. Or you can:

- *Use the Japanese Romaji keyboard (QWERTY-Japanese layout):* Tap 123, then tap the ^_^ key.
- *Use the Chinese (Simplified or Traditional) Pinyin or (Traditional) Zhuyin keyboard:* Tap #+=, then tap the ^_^ key.

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Safety, Handling, & Support

D Appendix

Important safety information

WARNING: Failure to follow these safety instructions could result in fire, electric shock, or other injuries, 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 can be damaged if dropped, burned, punctured, or crushed, or if it comes in contact with liquid. Don't use a damaged iPad, such as one with a cracked screen, as it may cause injury. If you're concerned about scratching, consider using a case or cover.

Repairing Don't open iPad and don't attempt to repair iPad by yourself. Disassembling iPad may damage it or may cause injury to you. If iPad is damaged, malfunctions, or comes in contact with liquid, contact Apple or an Apple Authorized Service Provider. You can find more information about getting service at www.apple.com/support/ipad/service/faq.

Battery Don't attempt to replace the iPad battery yourself—you may damage the battery, which could cause overheating and injury. The lithium-ion battery in iPad should be replaced only by Apple or an Apple Authorized Service Provider, and must be recycled or disposed of separately from household waste. Don't incinerate the battery. For information about battery recycling and replacement, go to www.apple.com/batteries.

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

Navigation Maps, directions, Flyover, and location-based apps depend on data services. These data services are subject to change and may not be available in all areas, resulting in maps, directions, Flyover, or location-based information that may be unavailable, inaccurate, or incomplete. Compare the information provided on iPad 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. See Privacy on page 31.

Charging Charge iPad with the included cable and power adapter or other third-party "Made for iPad" cables and power adapters that are compatible with USB 2.0 or later. Using damaged cables or chargers, or charging when moisture is present, can cause electric shock. When you use the Apple USB Power Adapter to charge iPad, make sure that the AC plug or AC power cord is fully inserted into the adapter before you plug it into a power outlet. Power adapters may become warm during normal use, and prolonged contact may cause injury. Always allow adequate ventilation around power adapters when using them.

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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 the audio and check the volume before inserting anything in your ear. For more information about hearing loss, see www.apple.com/sound. For information about how to set a maximum volume limit on iPad, see Music settings on page 87.

WARNING: To prevent possible hearing damage, do not listen at high volume levels for long periods.

Apple headsets The headsets sold with iPhone 4S or later in China (identifiable by dark insulating rings on the plug) are designed to comply with Chinese standards and are compatible with iPhone 4S or later, iPad 2 or later, and iPod touch 5th generation. Use only compatible headsets with your device.

Radio signals iPad uses radio signals to connect to wireless networks. For information about the amount of power used to transmit these signals, and about steps you can take to minimize exposure, see Settings > General > About > Legal > RF Exposure.

Radio frequency interference Observe signs and notices that prohibit or restrict the use of mobile devices (for example, in healthcare facilities or blasting areas). 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. Turn off iPad or use Airplane Mode to turn off the iPad wireless transmitters when use is prohibited, such as while traveling in aircraft, or when asked to do so by authorities.

Medical devices iPad contains radios that emit electromagnetic fields. These electromagnetic fields may interfere with pacemakers or other medical devices. If you wear a pacemaker, maintain at least 6 inches (approximately 15 cm) of separation between your pacemaker and iPad. If you suspect iPad is interfering with your pacemaker or any other medical device, stop using iPad and consult your physician for information specific to your medical device. iPad has magnets along the left edge of the device and on the right side of the front glass, which may interfere with pacemakers, defibrillators, or other medical devices. The iPad Smart Cover and iPad Smart Case also contain magnets. Maintain at least 6 inches (approximately 15 cm) of separation between your pacemaker or defibrillator and iPad, the iPad Smart Cover, or the iPad Smart Case.

Medical conditions If you have any medical condition that you believe could be affected by iPad (for example, seizures, blackouts, eyestrain, or headaches), consult with your physician prior to using iPad.

Explosive atmospheres Do not charge or use iPad in any area with a potentially explosive atmosphere, such as at a fueling area, or in areas where the air contains chemicals or particles (such as grain, dust, or metal powders). Obey all signs and instructions.

Repetitive motion When you perform repetitive activities such as typing or playing games on iPad, you may experience occasional 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.

Draft

Important handling information

Cleaning Clean iPad immediately if it comes in contact with anything that may cause stains—such as dirt, ink, makeup, or lotions. To clean:

- Disconnect all cables and turn iPad off (press and hold the Sleep/Wake button, then slide the onscreen slider).
- Use a soft, lint-free 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 Discoloration of the Lightning plug after regular use is normal. Dirt, debris, and exposure to liquids may cause discoloration. To remove the discoloration or if the cable becomes warm during use or won't charge or sync your iPad, disconnect the Lightning cable from your computer or power adapter and clean it with a soft, dry, lint-free cloth. Do not use liquids or cleaning products when cleaning the Lightning connector.

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.

For more information, go to support.apple.com/kb/HT2101.

iPad Support site

Comprehensive support information is available online at www.apple.com/support/ipad. To contact Apple for personalized support (not available in all areas), see www.apple.com/support/contact.

Draft

Restart or reset iPad

If something isn't working right, try restarting iPad, forcing an app to quit, or resetting iPad.

Restart iPad. Hold down the Sleep/Wake button until the red slider appears. Slide your finger across the slider to turn off iPad. To turn iPad back on, hold down the Sleep/Wake button until the Apple logo appears.

iPad may be low on power. Connect iPad to the USB power adapter to charge. See Charge and monitor the battery on page 34.

Force an app to quit. Hold down the Sleep/Wake button on top of iPad for a few seconds until a red slider appears, then hold down the Home button until the app closes.

If you can't turn off iPad or if the problem continues, you may need to reset iPad. Do this only if you're unable to restart iPad.

Reset iPad. Hold down the Sleep/Wake button and the Home button at the same time for at least ten seconds, until the Apple logo appears.

You can reset the word dictionary, network settings, home screen layout, and location warnings. You can also erase all of your content and settings.

Reset iPad settings

Reset iPad settings. Go to Settings > General > Reset, then choose an option:

- *Reset All Settings:* All your preferences and settings are reset.
- *Erase All Content and Settings:* Your information, and settings are removed. iPad cannot be used until it's set up again.
- *Reset Network Settings:* When you reset network settings, previously used networks and VPN settings that weren't installed by a configuration profile are removed. (To remove VPN settings installed by a configuration profile, go to Settings > General > Profile, then select the profile and tap Remove. This also removes other settings or accounts provided by the profile.) Wi-Fi is turned off and then back on, disconnecting you from any network you're on. The Wi-Fi and "Ask to Join Networks" settings remain turned on.
- *Reset Keyboard Dictionary:* You add words to the keyboard dictionary by rejecting words iPad suggests as you type. Resetting the keyboard dictionary erases all 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 factory defaults.

An app doesn't fill the screen

Most apps for iPhone and iPod touch can be used with iPad, but they might not take advantage of the large screen. In this case, tap 2x to zoom in on the app. Tap 1x to return to the original size.

Check the App Store to see if there's a version of the app that's optimized for iPad, or a universal version that's optimized for iPhone, iPod touch, and iPad.

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Onscreen keyboard doesn't appear

If iPad is paired with a Bluetooth keyboard, the onscreen keyboard doesn't appear. To make the onscreen keyboard appear, press the Eject key on a Bluetooth keyboard. You can also make the onscreen keyboard appear by moving the Bluetooth keyboard out of range or turning it off.

Get information about your iPad

See information about iPad. Go to Settings > General > About. The items you can view include:

- Number of songs, videos, photos, and applications
- Capacity and available storage space
- iOS version
- Model number
- Serial number
- Wi-Fi and Bluetooth addresses
- Diagnostics & Usage and Legal (including legal notices, license, warranty, regulatory marks and RF exposure information)

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

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

View or turn off diagnostic information. Go to Settings > General > About > Diagnostics & Usage.

Usage information

View usage information. Go to Settings > General > Usage to:

- View each app's storage
- View and manage iCloud storage
- See the elapsed time since iPad has been charged

Disabled iPad

If iPad is disabled because you forgot your passcode or entered an incorrect passcode too many times, you can restore iPad from an iTunes or iCloud backup and reset the passcode. For more information, see Restore iPad on page 131.

If you get a message in iTunes that your iPad is locked and you must enter a passcode, see support.apple.com/kb/HT1212.

VPN settings

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

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Profiles settings

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 web page. iPad asks for your permission to install the profile, and displays information about what it contains, when you open the file. You can see the profiles you have installed in Settings > General > Profiles. If you delete a profile, all of the settings, apps, and data associated with the profile are also deleted.

Back up iPad

You can use iCloud or iTunes to automatically back up iPad (in iTunes, use File > Device > Back Up). If you choose to back up using iCloud, you can't also use iTunes to automatically back up to your computer, but you can use iTunes to manually back up to your computer. iCloud backs up iPad daily over Wi-Fi, when it's connected to a power source and is locked. The date and time of the last backup is listed at the bottom of the Storage & Backup screen.

iCloud backs up your:

- Purchased music, movies, TV shows, apps, and books
- Photos and videos in your Camera Roll
- iPad settings
- App data
- Home screen, folders, and app layout
- Messages
- Ringtones

Note: Purchased content is not backed up in all areas.

Turn on iCloud backups. Go to Settings > iCloud, then log in with your Apple ID and password, if required. Go to Storage & Backup, then turn on iCloud Backup. To turn on backups in iTunes, go to File > Device > Back Up.

Back up immediately. Go to Settings > iCloud > Storage & Backup, then tap Back Up Now.

Encrypt your backup. iCloud backups are encrypted automatically so that your data is protected from unauthorized access both while it's transmitted to your devices and when it's stored in iCloud. If you're using iTunes for your backup, select "Encrypt iPad backup" in the iTunes Summary pane.

Manage your backups. Go to Settings > iCloud > Storage & Backup, then tap Manage Storage. Tap the name of your iPad. You can manage which apps are backed up to iCloud, and remove existing backups. In iTunes, remove backups in iTunes Preferences.

View the devices being backed up. Go to Settings > iCloud > Storage & Backup > Manage Storage.

Stop iCloud backups. Go to Settings > iCloud > Storage & Backup, then turn off iCloud Backup.

Music not purchased in iTunes isn't backed up in iCloud. Use iTunes to back up and restore that content. See Sync with iTunes on page 16.

Important: Backups for music, movies, or TV show purchases are not available in all countries. Previous purchases may not be restored if they are no longer in the iTunes Store, App Store, or iBooks Store.

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Purchased content and Photo Sharing content don't count against your 5 GB of free iCloud storage.

For more information about backing up iPad, see support.apple.com/kb/HT5262.

Update and restore iPad software

You can update iPad software in Settings, or by using iTunes. You can also erase iPad, and then use iCloud or iTunes to restore a backup.

Deleted data is no longer accessible through the iPad user interface, but it isn't erased from iPad. For information about erasing all content and settings, see Restart or reset iPad on page 128.

Update iPad

You can update iPad software in Settings or by using iTunes.

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

Update software in iTunes. iTunes checks for available software updates each time you sync iPad using iTunes. See Sync with iTunes on page 16.

For more information about updating iPad software, go to support.apple.com/kb/HT4623.

Restore iPad

You can use iCloud or iTunes to restore iPad from a backup.

Restore from an iCloud backup. Reset iPad to erase all settings and information. Sign in to iCloud and choose Restore from a Backup in the Setup Assistant. See Restart or reset iPad on page 128.

Restore from an iTunes backup. Connect iPad to the computer you normally sync with, select iPad in the iTunes window, and click Restore in the Summary pane.

When the iPad software is restored, you can either set it up as a new iPad, or restore your music, videos, app data, and other content from a backup.

For more information about restoring iPad software, go to support.apple.com/kb/HT1414.

Cellular settings

Use Cellular settings to turn cellular data and roaming on or off, set which apps and services use cellular data, see call time and cellular data usage, and set other cellular options.

If iPad is connected to the Internet via the cellular data network, the LTE, 4G, 3G, E, or GPRS icon appears in the status bar.

LTE, 4G, and 3G service on GSM cellular networks support simultaneous voice and data communications. For all other cellular connections, you can't use Internet services while you're talking on the phone unless iPad also has a Wi-Fi connection to the Internet. Depending on your network connection, you may not be able to receive calls while iPad transfers data over the cellular network—when downloading a webpage, for example.

GSM networks: On an EDGE or GPRS connection, incoming calls may go directly to voicemail during data transfers. For incoming calls that you answer, data transfers are paused.

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CDMA networks: On EV-DO connections, data transfers are paused when you answer incoming calls. On 1xRTT connections, incoming calls may go directly to voicemail during data transfers. For incoming calls that you answer, data transfers are paused.

Data transfer resumes when you end the call.

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

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

- *Turn Voice Roaming on or off (CDMA):* Turn Voice Roaming off to avoid charges from using other carrier's networks. When your carrier's network isn't available, iPad won't have cellular (data or voice) service.
- *Turn Data Roaming on or off:* Data Roaming permits Internet access over a cellular data network when you're in an area not covered by your carrier's network. When you're traveling, you can turn off Data Roaming to avoid roaming charges. See Cellular settings on page 131.
- *Enable or disable 3G:* Using 3G loads Internet data faster in some cases, but may decrease battery performance. If you're making a lot of phone calls, you may want to turn 3G off to extend battery life. This option is not available in all areas.

Set whether cellular data is used for apps and services. Go to Settings > Cellular, then turn cellular data on or off for any app that can use cellular data. If a setting is off, iPad uses only Wi-Fi for that service. The iTunes setting includes both iTunes Match and automatic downloads from the iTunes Store and the App Store.

Sound, music, and video

If iPad doesn't have sound or if video doesn't play, try these steps.

No sound

- Make sure the iPad speaker isn't covered.
- Make sure the Side Switch isn't set to silent. See Volume button and Side Switch on page 10.
- If you're using a headset, unplug it, then plug it in again. Make sure you push the plug all the way in.
- Make sure the volume isn't turned all the way down.
- Music on iPad might be paused. If you're using a headset with a play button, try pressing the play button to resume playback. Or from the Home screen, tap Music, then tap ▶.
- Check to see if a volume limit is set. In Settings, go to Music > Volume Limit.
- If you're using the line out port on the optional iPad Dock, make sure that you turn on the external speakers or stereo, and that they're plugged in correctly and working properly. Use the volume controls on the the external speakers or stereo, not on iPad.
- If you're using an app that works with AirPlay, check to see if the AirPlay device you're sending the sound to is turned on and the volume is turned up. If you want to hear sound through iPad's speaker, tap ⎙ and select it from the list.

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A song, video, or other item won't play

The song, video, audiobook, or podcast may be encoded in a format that iPad doesn't support. For information about the audio and video file formats iPad supports, go to www.apple.com/ipad/specs.

If a song or video in your iTunes library isn't supported by iPad, you may be able to convert it to a format iPad supports. For example, you can use iTunes for Windows to convert nonprotected WMA files to a format iPad supports. For more information, open iTunes and choose Help > iTunes Help.

No video or sound when using AirPlay

To send video or audio to an AirPlay device such as an Apple TV, iPad and the AirPlay device must be connected to the same wireless network. If you don't see the button, iPad isn't connected to the same Wi-Fi network as an AirPlay device, or the app you're using doesn't support AirPlay.

- When sound or video is being sent to an AirPlay device, iPad doesn't display video or play audio. To direct the content to iPad and disconnect iPad from the AirPlay device, tap and select iPad in the list.
- Some apps play only audio over AirPlay. If video isn't working, make sure that the app you're using supports both audio and video.
- If the Apple TV has been set up to require a passcode, you must enter it on iPad when asked, in order to use AirPlay.
- Make sure the speakers on the AirPlay device are turned on and turned up. If you're using an Apple TV, make sure the TV's input source is set to Apple TV. Make sure the volume control on iPad is turned up.
- When iPad is streaming with AirPlay, it must remain connected to the Wi-Fi network. If you take iPad out of range, playback stops.
- Depending on the speed of your network, it may take 30 seconds or more for playback to begin when using AirPlay.

For more information about AirPlay, go to support.apple.com/kb/HT4437.

No image on TV or projector connected to iPad

When you connect iPad to a TV or projector using a USB cable, the attached display automatically mirrors the iPad screen. Some apps may support using the attached display as a second monitor. Check the app's settings and documentation.

- To view HD videos in high resolution, use the Apple Digital AV Adapter or a component video cable.
- Make sure the video cable is firmly connected at both ends, and that it's a supported cable. If iPad is connected to an A/V switchbox or receiver, try connecting it directly to the TV or projector instead.
- Make sure that your TV has the proper video input selected, such as HDMI or component video.
- If no video appears, press the Home button, disconnect and reconnect the cable, and try again.

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Sell or give away iPad?

Before you sell or give away your iPad, be sure to erase all content and your personal information. If you've enabled Find My iPad (see Find My iPad on page 33), Activation Lock is on. You need to turn off Activation Lock before the new owner can activate iPad under his or her own account.

Erase iPad and remove Activation Lock. Go to Settings > General > Reset > Erase All Content and Settings.

See support.apple.com/kb/HT5661.

Learning more, service, and support

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 on page 125.
iPad service and support, tips, forums, and Apple software downloads	Go to www.apple.com/support/ipad.
The latest information about iPad	Go to www.apple.com/ipad.
Managing your Apple ID account	Go to appleid.apple.com.
Using iCloud	Go to help.apple.com/icloud.
Using iTunes	Open iTunes and choose Help > iTunes Help. For an online iTunes tutorial (not available in all areas), go to www.apple.com/support/itunes.
Using other Apple iOS apps	Go to www.apple.com/support/ios.
Obtaining warranty service	First follow the advice in this guide. Then go to www.apple.com/support/ipad.
Viewing iPad regulatory information	On iPad, go to Settings > General > About > Legal > Regulatory.
Battery replacement service	Go to www.apple.com/batteries/replacements.html.
Using iPad in an enterprise environment	Go to www.apple.com/ipad/business.

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.

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- Increase the separation between the equipment and receiver.
- Connect the equipment to an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio/TV technician for help.

Important: Changes or modifications to this product not authorized by Apple could void the electromagnetic compatibility (EMC) and wireless compliance and negate your authority to operate the product. This product has demonstrated EMC compliance under conditions that included the use of compliant peripheral devices and shielded cables between system components. It is important that you use compliant peripheral devices and shielded cables between system components to reduce the possibility of causing interference to radios, televisions, and other electronic devices.

Canadian regulatory statement

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

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

CAN ICES-3 (B)/NMB-3(B)

Disposal and recycling information

Your iPad must be disposed of properly according to local laws and regulations. Because it contains a battery, iPad must be disposed of separately from household waste. When your iPad reaches its end of life, contact Apple or your local authorities to learn about recycling options.

Battery replacement: The lithium-ion battery in iPad should be replaced only by Apple or an Apple Authorized Service Provider, and must be recycled or disposed of separately from household waste. For information about battery recycling and replacement, go to www.apple.com/batteries/replacements.html.

For information about Apple's recycling program, go to www.apple.com/recycling.

Battery Charger Efficiency

BC

Türkiye

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Türkiye Cumhuriyeti: EEE Yönetmeliğine Uygundur.

台灣

廢電池請回收

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.

Union Européenne—informations sur l'élimination: Le symbole ci-dessus signifie que, conformément aux lois et réglementations locales, vous devez jeter votre produit et/ou sa batterie séparément des ordures ménagères. Lorsque ce produit arrive en fin de vie, apportez-le à un point de collecte désigné par les autorités locales. La collecte séparée et le recyclage de votre produit et/ou de sa batterie lors de sa mise au rebut aideront à préserver les ressources naturelles et à s'assurer qu'il est recyclé de manière à protéger la santé humaine et l'environnement.

Europäische Union—Informationen zur Entsorgung: Das oben aufgeführte Symbol weist darauf hin, dass dieses Produkt und/oder die damit verwendete Batterie den geltenden gesetzlichen Vorschriften entsprechend und vom Hausmüll getrennt entsorgt werden muss. Geben Sie dieses Produkt zur Entsorgung bei einer offiziellen Sammelstelle ab. Durch getrenntes Sammeln und Recycling werden die Rohstoffreserven geschont und es ist sichergestellt, dass beim Recycling des Produkts und/oder der Batterie alle Bestimmungen zum Schutz von Gesundheit und Umwelt eingehalten werden.

Unione Europea—informazioni per lo smaltimento: Il simbolo qui sopra significa che, in base alle leggi e alle normative locali, il prodotto e/o la sua batteria dovrebbero essere riciclati separatamente dai rifiuti domestici. Quando il prodotto diventa inutilizzabile, portalo nel punto di raccolta stabilito dalle autorità locali. La raccolta separata e il riciclaggio del prodotto e/o della sua batteria al momento dello smaltimento aiutano a conservare le risorse naturali e assicurano che il riciclaggio avvenga nel rispetto della salute umana e dell'ambiente.

Europeiska unionen—information om kassering: Symbolen ovan betyder att produkten och/eller dess batteri enligt lokala lagar och bestämmelser inte får kastas tillsammans med hushållsavfallet. När produkten har tjänat ut måste den tas till en återvinningsstation som utsetts av lokala myndigheter. Genom att låta den uttjänta produkten och/eller dess batteri tas om hand för återvinning hjälper du till att spara naturresurser och skydda hälsa och miljö.

Brasil—Informações sobre descarte e reciclagem

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O símbolo indica que este produto e/ou sua bateria não devem ser descartadas 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 o programa de reciclagem da Apple, pontos de coleta e telefone de informações, visite www.apple.com/br/environment.

Apple and the environment

At Apple, we recognize our responsibility to minimize the environmental impacts of our operations and products. For more information, go to www.apple.com/environment.

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Some apps are not available in all areas. App availability is subject to change.

Content available on iTunes. Title availability is subject to change.

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019-2566/2013-09

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