



Mac mini Essentials

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Mac mini at a glance

Say hello to the new Mac mini



This guide provides the essential information you need to get the most from your Mac mini.

Take a look around. Want a quick intro to the features of your Mac mini? See the next section, [Take a tour](#).

Get started. After you connect a display, keyboard, and mouse or trackpad, press the power button on the back of your Mac mini and you're ready to get started. For details, see [Set up](#) and [Migrate your data](#).

Set up as a server. Use Mac mini as a home gaming server where you create a private world and invite others to play. Or use Mac mini to provide services including File Server, Caching Server, and Time Machine server. For details, see [Server](#).

Stay in sync. Access your documents, photos, music, apps, contacts, and calendars across all your devices with iCloud. And use your Mac mini with your iOS devices to make and receive phone calls (requires an external microphone) and texts, copy and paste across devices, or create an Instant Hotspot. Learn more in [Access your content anywhere with iCloud](#) and [Use your Mac mini with iCloud and Continuity features](#).

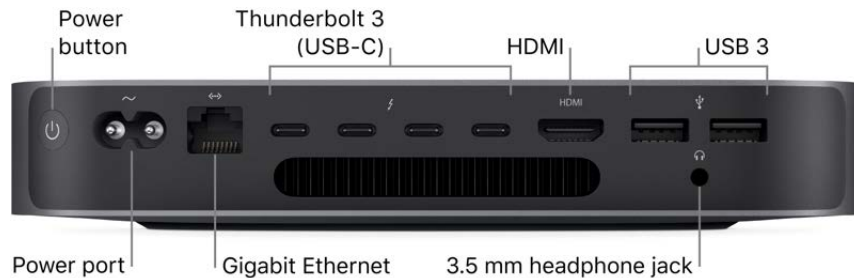
Unleash your creativity. Edit photos, organize albums, and share memories with Photos; organize and listen to music, books, movies, and more with iTunes; create presentations with Keynote; and check out all the apps available on the [App Store](#), to express yourself

in as many ways as you have ideas.

Dig deeper. Explore your Mac mini and get your questions answered. See [macOS User Guide](#).

Take a tour

Your Mac mini is packed with advanced technologies.

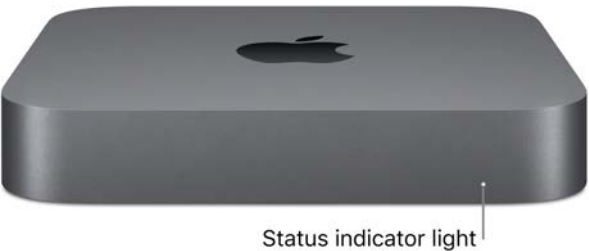


- *Power button:* Press and hold for three seconds to turn your Mac mini on or off, or press to put it to sleep.
- *Power port:* Plug the power cord into the power port on the back of your Mac mini, then plug the other end of the cord into a power outlet.
- *Gigabit Ethernet port:* Connect a router or modem to use the Internet, or connect to another computer to transfer files without using Wi-Fi.
- *10 Gigabit Ethernet (RJ-45) port:* If your Mac mini has the optional 10 Gigabit Ethernet port, it can use Nbase-T Ethernet technology, which supports multiple data rates for speeds up to 10 Gbit/s over standard twisted pair copper cabling up to 100 meters (328 feet) in length. Depending on the device you're connecting to, the cable type and technology used, and the cable length, the highest link speed is automatically negotiated. For example, if the device you're connecting to is 10 Gbit/s-capable and the cable can support the speed, the two devices negotiate the 10 Gbit/s speed.

See the following chart for connection speeds and cable types. Speeds are for cables up to 100 meters (328 feet) in length, unless otherwise specified.

Cable Type	1 Gbit/s	2.5 Gbit/s	5 Gbit/s	10 Gbit/s
Category 5e	✓	✓	✓	Not supported
Category 6	✓	✓	✓	✓ Up to 55 m (180 feet)
Category 6a	✓	✓	✓	✓

- *Thunderbolt 3 (USB-C) ports:* Transfer data at lightning-fast speeds, and connect a display (such as the LG UltraFine 4K Display or LG UltraFine 5K Display), docking stations, and RAID arrays. The ports can also charge devices, such as a rechargeable trackpad or keyboard.
- *HDMI port:* Use an HDMI to DVI Adapter or HDMI cable (sold separately) to connect your Mac mini to a TV or external display.
- *USB 3 ports:* Connect an iPad, iPhone, iPod, digital camera, external storage device, or printer quickly and easily. The Mac mini USB 3 ports support USB 3 and USB 2 devices.
- *3.5 mm headphone jack:* Plug in stereo headphones to experience high-quality sound while watching movies, or a headset when playing games. Also use this port to connect digital audio equipment to record sound or music, or plug in EarPods to use with audio and video calls.



- *Status indicator light:* A steady white light indicates your Mac mini is on; a pulsing light indicates it's in sleep mode.

Connect accessories

Plug in a compatible keyboard, mouse, trackpad, or other optional device to start using Mac mini. You also need to connect a display when you first set up Mac mini (see [Connect a display](#) for details).

You can also work wirelessly using Bluetooth® technology. Your Mac mini can connect to optional wireless devices such as Magic Keyboard, Magic Mouse 2, Magic Trackpad 2, peripheral devices, and wearable sport accessories. To connect your Mac mini with a device, choose Apple menu  > System Preferences, then click Bluetooth.



Accessories are sold separately at apple.com or your local Apple Store.

Adapters

The following Apple adapters are available to connect external devices, displays, and more, to the Thunderbolt 3 (USB-C) ports on your Mac mini.



Thunderbolt 3 (USB-C) to Thunderbolt 2 Adapter: Connect your Mac mini to Thunderbolt 2 devices or a Thunderbolt display.



USB-C Digital AV Multiport Adapter: Connect your Mac mini to an HDMI display, while also connecting a standard USB device to your Mac mini.



USB-C VGA Multiport Adapter: Connect your Mac mini to a VGA projector or display, while also connecting a standard USB device to your Mac mini.

For more information, see Apple Support article [Adapters for the Thunderbolt 3 \(USB-C\) or USB-C port on your Mac](#). Adapters and other accessories are sold separately at apple.com or your local Apple Store. Review the documentation or check with the manufacturer to make sure you're choosing the right adapter for your Mac mini.

Connect a display

The Thunderbolt 3 (USB-C) ports  and HDMI port on your Mac mini support video output. You can use an external display, a projector, or an HDTV with your Mac mini.

Note: The Thunderbolt 3 (USB-C) ports on your Mac mini are managed by two controllers, one for the two left ports, the other for the two right ports. You can connect one 5K display to a Thunderbolt 3 (USB-C) port, or up to three 4K displays using two Thunderbolt 3 (USB-C) ports and the HDMI port.

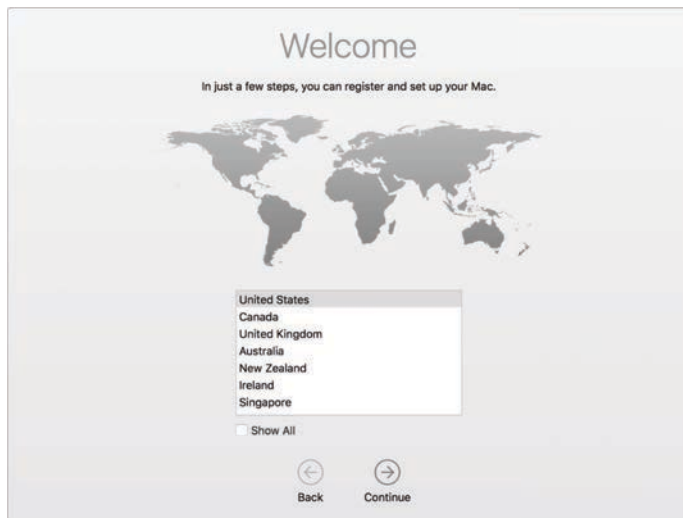
To connect this device to Mac mini	Use this cable or adapter
Thunderbolt 3 (USB-C) display	Thunderbolt 3 (USB-C) cable
USB-C display	USB-C (USB 3.1) cable
Thunderbolt 2 display	Thunderbolt 3 (USB-C) to Thunderbolt 2 adapter
HDMI display or HDTV	HDMI cable (you can also use a USB-C to HDMI adapter or a USB-C Digital AV Multiport adapter)
VGA display or projector	USB-C VGA Multiport adapter
DisplayPort or Mini DisplayPort display	USB-C to DisplayPort or Mini DisplayPort adapter
DVI display or projector	USB-C to DVI adapter

Adapters and other accessories are sold separately at apple.com, your local Apple Store, and other retailers. Review the documentation or check with the manufacturer to make sure you choose the right adapter.

Get started

Set up

The first time you turn on your Mac mini, Setup Assistant walks you through the simple steps needed to start using your new Mac mini. If you want to transfer your data from another computer, see [Migrate your data](#) for details.



Be sure to connect to Wi-Fi, turn on Bluetooth® wireless technology, get an Apple ID, then sign in to iCloud. You can also activate Siri if you want. You can do these steps quickly and easily with Setup Assistant—but if you want to do them later, here's how:

Choose light or dark appearance. If you want to change the choice you made when you set up your Mac, click the System Preferences icon  in the Dock, or choose Apple menu  > System Preferences. Click General, then select Light or Dark for your appearance. You can also set other appearance preferences here.

Connect to Wi-Fi. Click the Wi-Fi status icon  in the menu bar, then choose a Wi-Fi network and enter the password, if necessary.

Turn Wi-Fi on or off. Click the Wi-Fi status icon  in the menu bar, then choose Turn Wi-Fi On or Turn Wi-Fi Off.

Turn Bluetooth on or off. Click the Bluetooth icon  in the menu bar, then choose Turn Bluetooth On or Turn Bluetooth Off.



Tip: If you don't see the Wi-Fi status icon  or Bluetooth icon  in the menu bar, you can add them. For Wi-Fi, choose Apple menu  > System Preferences, then click Network. Click Wi-Fi in the list on the left, then select "Show Wi-Fi status in menu bar." For Bluetooth, choose Apple menu  > System Preferences, click Bluetooth, then select "Show Bluetooth in menu bar."

Get an Apple ID. Your Apple ID is the account you use for everything you do with Apple—including using the App Store, the iTunes Store, iCloud, Messages, and more. Your Apple ID consists of an email address and a password. You need only one Apple ID to use any Apple service, on any device—whether it's your computer, iOS device, Apple Watch, or Apple TV. It's best to have your own Apple ID and not share it—create a separate Apple ID for each family member.

If you don't already have an Apple ID, you can create one (it's free). Go to [the Apple ID account website](#).

Important: If you forget your Apple ID password, you don't need to create a new Apple ID. Just click the Forgot link in the login window to retrieve your password.

Set up iCloud on your Mac mini. With iCloud, you can store all of your content—documents, movies, music, photos, and more—in the cloud, and access it anywhere you go.

To set up iCloud, choose Apple menu  > System Preferences, then click iCloud. In the window that appears, enter your Apple ID and password. Then select the features you want to use. To find out more, see [Access your content anywhere with iCloud](#).

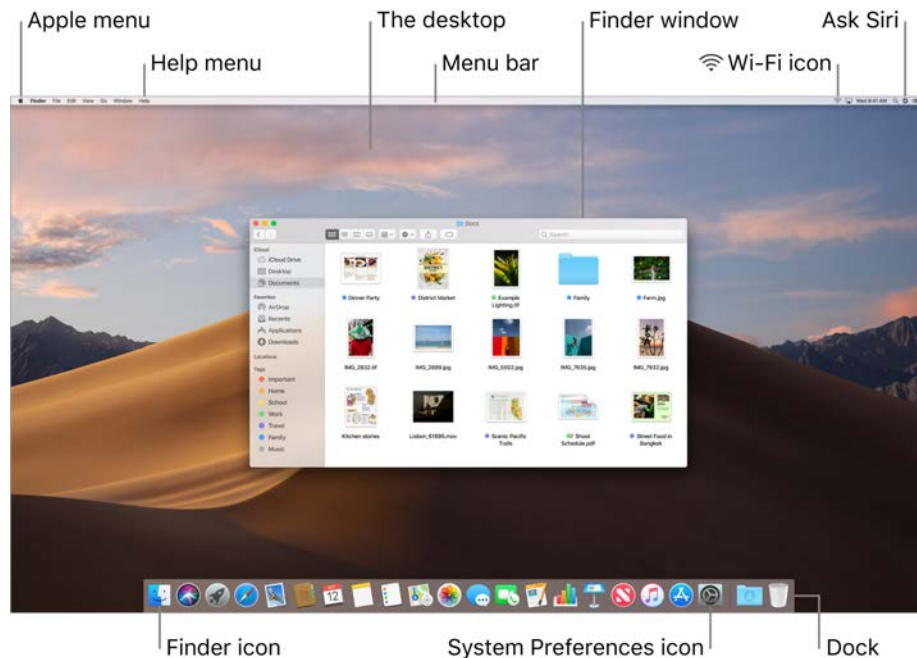
Important: Be sure to use the same Apple ID for iCloud on all your devices.

For information about setting up and using Siri on your Mac mini, see [Siri](#).

Find your way around

The desktop, menu bar, and Help

The first thing you see on your Mac mini is the *desktop*, where you can quickly open apps, search for anything on your Mac mini and the web, organize your files, and more.

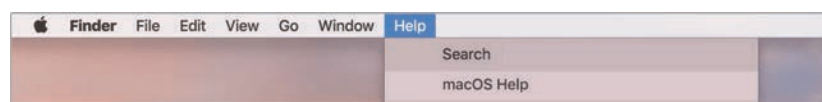


 **Tip:** Can't find the pointer? To magnify it temporarily, slide the mouse back and forth quickly.

Menu bar. Use the menus and icons along the top of the screen to open new windows, connect to a Wi-Fi network, check your Wi-Fi status , change the volume , query Siri, and more. The menu items change, depending on which app you're using.

Apple menu . The Apple menu in the upper-left corner of the screen contains frequently used items. To open it, click the Apple icon .

Help menu. Help for your Mac mini and apps is always available from the Finder. To get help, click the Help menu and choose macOS Help to open the macOS User Guide. Or type in the search field and choose a suggestion.



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

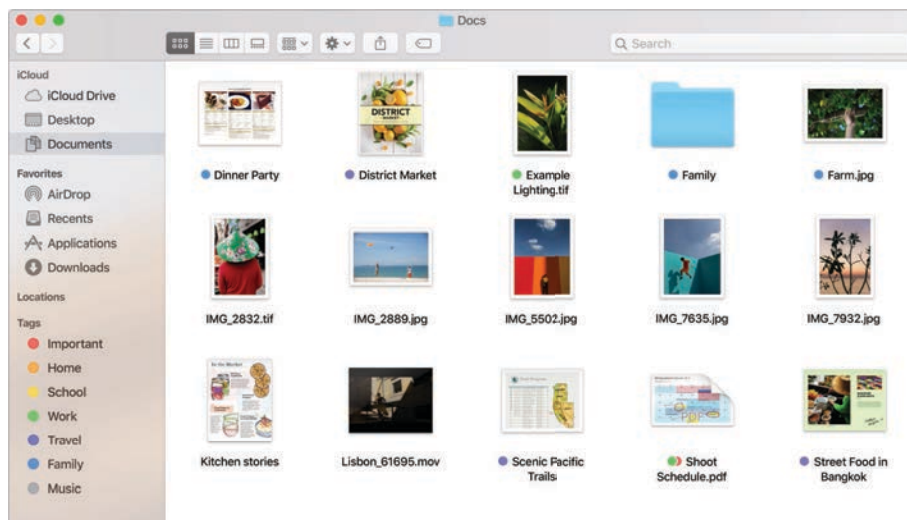
Turn on Dynamic Desktop. Watch your desktop image automatically change to match the time of day in your current location. Select the dynamic setting from Desktop & Screensaver in System Preferences. Enable Location Services to have your screen move from day to night based on your current time zone. If Location Services is turned off in the Privacy pane of Security & Privacy Preferences, the picture changes based on the time zone specified in Date & Time preferences.

Stay organized with stacks. To create stacks on your desktop, go to Finder and choose View, then select Use Stacks. To see options for your stacks, go to View > Group Stacks By. Then any new files you add to the desktop are automatically sorted into the appropriate stack. To view what's inside a stack, click the stack to expand its contents. You can also place your cursor over a stack to view file thumbnails. To learn more, see [Organize files in stacks on Mac](#) in the macOS User Guide.

Keep reading to learn about [the Dock](#) and other features of the desktop.

The Finder

The Finder  is an app that's always open. Use the Finder to organize and locate your files.



Gallery View. With Gallery View, you can see a large preview of your selected file, so you can visually identify your images, video clips, and other documents. The Preview pane shows information to help you identify the file you want. Use the scrubber bar at the bottom to quickly locate what you're looking for.

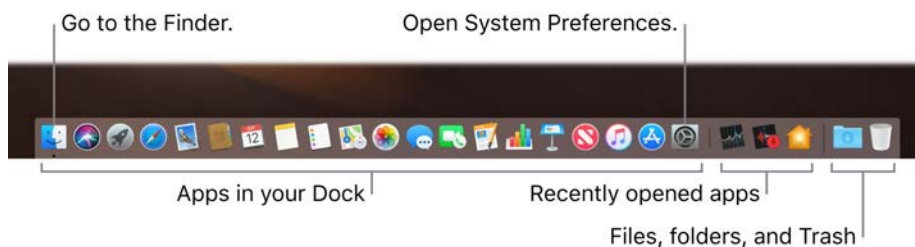


Quick Actions. At the bottom right of the Preview pane are shortcuts that let you manage and edit files right in the Finder. You can rotate an image, annotate or crop an image in Markup, combine images and PDFs into a single file, trim audio and video files, and create custom actions through Automator workflows (for example, watermarking a file). To learn more, see [Perform quick actions in the Finder on Mac](#).

To show the Preview pane options in the Finder, choose View > Show Preview. To customize what's shown, choose View > Show Preview Options, then select the options for your file type.

The Dock

The Dock, at the bottom of the screen, is a convenient place to keep the apps and documents you use frequently.



Open an app or file. Click its icon in the Dock. Recently opened apps appear in the center section of the Dock.

Add an item to the Dock. Drag the item and drop it where you want it. Place apps in the left section of the Dock, and files or folders in the right section.

Remove an item from the Dock. Drag it out of the Dock. The item isn't removed from your Mac mini—just from the Dock.

Tip: You can make the Dock larger or smaller, add or remove items, move it to the left or right side of the screen, or even set it to hide when you're not using it. To change how the Dock looks, click the System Preferences icon  in the Dock, or choose Apple menu  > System Preferences. Then click Dock.

Quickly open apps

Your Mac mini comes with apps for all the things you love to do—browse the web, check email, share photos, enjoy movies, and more.



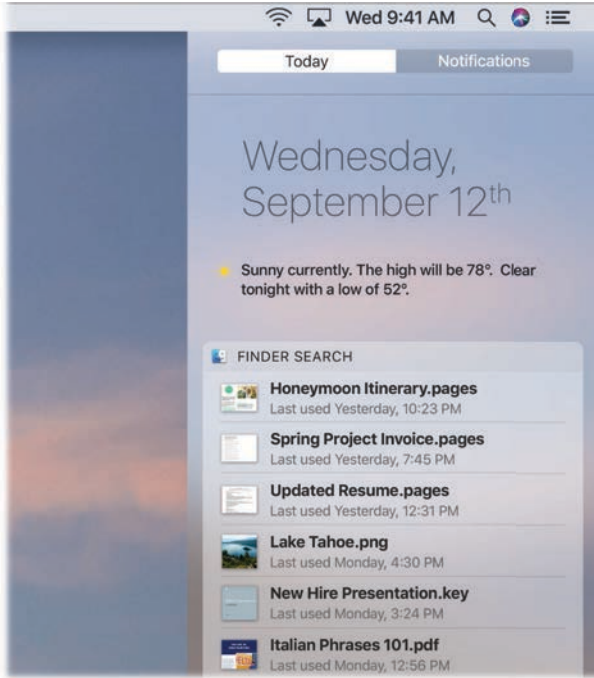
Open an app. Click an app icon in the Dock, or click the Launchpad icon  in the Dock, then click the app you want. You can also search for an app using Spotlight, then open the app directly from your Spotlight search results.

Organize apps in Launchpad. Launchpad organizes your apps in a grid. Drag an app to a new location to rearrange apps. Drag an app onto another app to create a folder. Drag more apps to the new folder to add them. To remove an app from a folder, drag it out.

Get more apps. Click the App Store icon  in the Dock and search for apps you want. Apps you download from the App Store appear automatically in Launchpad. To quickly get updates for apps and macOS, click Updates in the App Store.

Notification Center

Use Notification Center to view details about your day (calendar, stocks, weather, and more) and catch up on notifications you might have missed (email, reminders, app notifications, and more).



Open Notification Center. Click the Notification Center icon  at the top right of the screen. Tap Today to see what's coming up or Notifications to review what's come in.

System Preferences

System Preferences is where you personalize your Mac mini settings. For example, use Energy Saver preferences to change sleep settings. Or use Desktop & Screen Saver preferences to add a desktop background or choose a screen saver.

Customize your Mac mini. Choose Apple menu  > System Preferences, or click the System Preferences icon  in the Dock. Then click the preference you want to set.



Update macOS. Click the System Preferences icon  in the Dock, then click Software Update to see if your Mac is running the latest version of macOS software. You can specify options for automatic software updates.

Spotlight

Spotlight  is an easy way to find anything on your Mac mini, such as documents, contacts, calendar events, and email messages. Spotlight Suggestions offer info from Wikipedia articles, web search results, news, sports, weather, stocks, movies, and other sources.

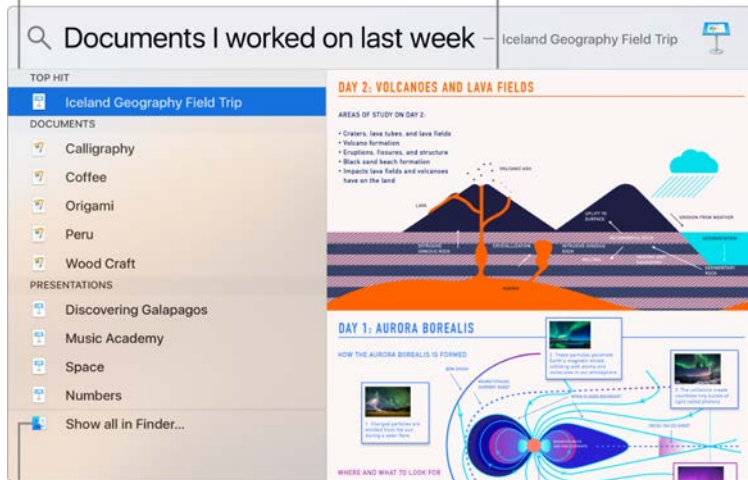
When you search with Spotlight, the preview area on the right provides search results you can interact with—make a call, send an email message, play a song, get directions, even convert currencies. Spotlight can provide answers to math questions or define words, all on your desktop.

Search for anything. Click  at the top right of the screen, then start typing.

 **Tip:** Type Command–Space bar to show or hide the Spotlight search field.

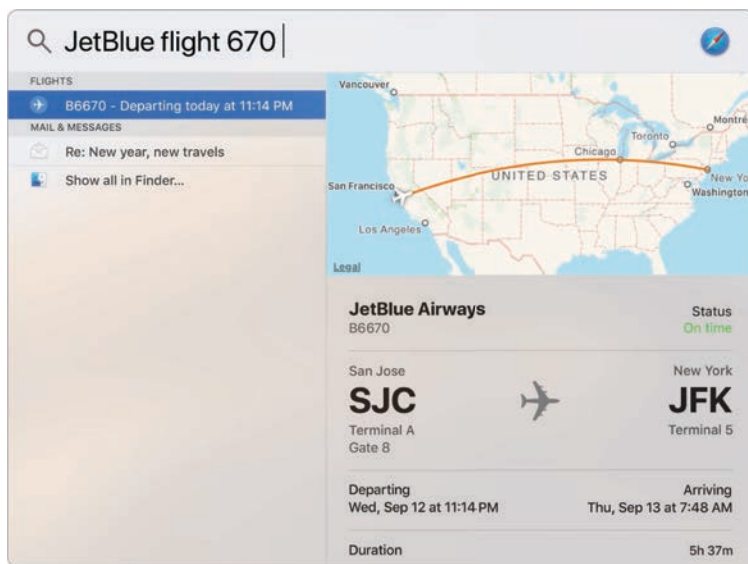
Get weather, stocks, sports, transit info, and more.

Interact with the preview in Spotlight.



Find your files quickly.

Get flight info. Enter the airline and flight number in Spotlight to see your flight status and a map, without having to open Safari.



Preview your results. Click a search result and view it in the preview on the right. Sometimes that's all you need to do—click items or links directly in the preview. You can also double-click a result to open it.

Open an app. Type the app name in Spotlight, then press Return.

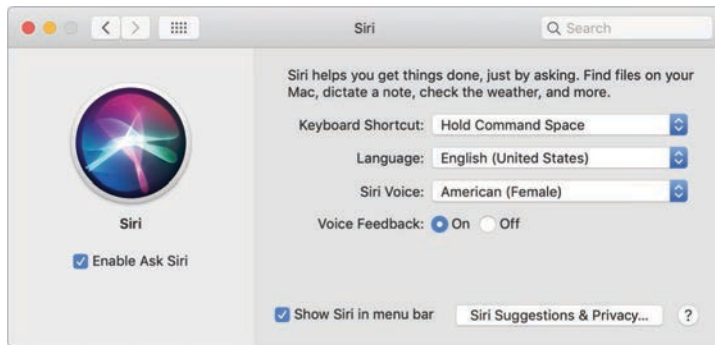
Turn off Spotlight Suggestions. If you want Spotlight to search only for items on your Mac mini, you can turn off Spotlight Suggestions in Spotlight preferences. Click the System Preferences icon  in the Dock, click Spotlight, then click to deselect Spotlight Suggestions. Make any other changes you want to the list of categories Spotlight searches.

Siri

You can talk to Siri on your Mac mini and use your voice for many tasks. For example, you can find files, schedule meetings, change preferences, get answers, send messages, place calls, and add items to your calendar. Siri can give you directions (“How do I get home from here?”), provide information (“How high is Mount Whitney?”), perform basic tasks (“Create a new list called Groceries”), and much more.

Important: Mac mini doesn’t have a built-in microphone, so you must connect an external microphone (sold separately) in order to use Siri.

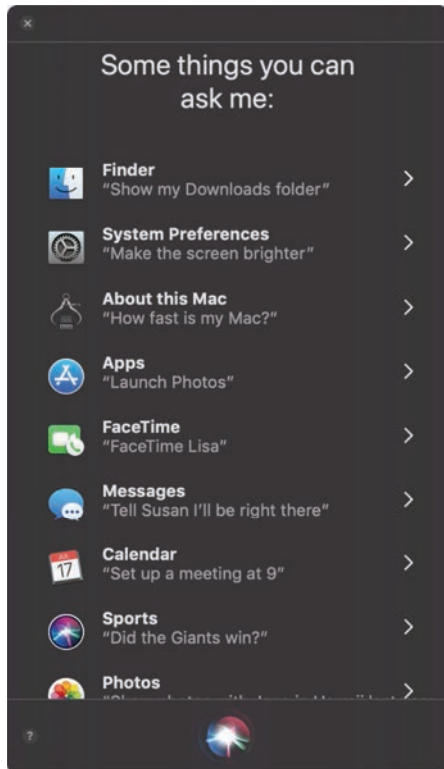
Enable Siri. Click the Siri icon  in the menu bar or in the Dock, then click Enable when prompted. Or click the System Preferences icon  in the Dock, click Siri, then select Enable Ask Siri. You can also set other options, such as Language.



Note: To use Siri, your Mac mini must be connected to the Internet and a microphone. Siri may not be available in all languages or in all areas, and features may vary by area.

Speak to Siri. Click Siri  in the menu bar or the Dock and start speaking. Or press and hold the Command key and the Space bar, and speak to Siri.

 **Tip:** To learn about more ways you can use Siri, ask “What can you do” at any time, or click the Help button .



Play some music. Just say, "Play some music," and Siri does the rest. You can even tell Siri, "Play the top song from March 1991."

Find and open files. Ask Siri to find files and open them right from the Siri window. You can ask by file name or by description. For example, "Show me files Ursula sent," or "Open the spreadsheet I created last night."

Drag and drop. Drag and drop images and locations from the Siri window into an email, text message, or document. You can also copy and paste text.

Pin a result. Save Siri results from Sports, Reminders, Clock, Stocks, Notes, Finder, and general knowledge (Wikipedia, for example) to the Today view in Notifications. Click the plus sign (+) in the top right of a Siri result to pin it to the Today View. To see it later, click the Notification Center icon (≡), then click Today. If you're checking a sports score, for example, results stay up to date.

Change the voice. Click the System Preferences icon (⚙️) in the Dock, click Siri, then choose an option from the Siri Voice menu.

What's new

New macOS features

macOS Mojave offers many exciting new features, including:

- *Dark Mode*: Use a dark color scheme for the Desktop, menu bar, Dock, and all the built-in apps on macOS. Your content stands out front and center while darkened controls and windows recede into the background. For more information, see [Dark Mode](#).
- *Desktop*: The default desktop background adjusts to match the time of day in your time zone. And you can use stacks to automatically organize files on your desktop by file type, kind, date, or tag. For more information, see [The desktop, menu bar, and Help](#).
- *Finder*: Large previews let you view and quickly locate files in the new Gallery View. Use the Preview pane to view all of a file's metadata. Perform basic edits like rotating images and creating PDFs in the Finder with Quick Actions. For more information, see [The Finder](#).
- *Quick Look*: Select a file and press the Space bar to open Quick Look. You can sign PDFs; trim audio and video files; and mark up, rotate, and crop images without opening a separate app. To learn more about Quick Look and markup features, see [View and edit files with Quick Look on Mac](#) and [Mark up files on Mac](#) in the macOS User Guide.
- *Screenshot utility*: The easy-to-use menu lets you take screenshots and screen recordings that can include your voice (requires an external microphone, available separately). You can also set a start timer, show the cursor, and customize where to save your screenshots. A new workflow makes it easier to save, edit, and share what you capture. For more information, see [Screenshot utility](#).
- *Continuity Camera*: Use your iPhone or iPad camera to insert an image directly within a document on your Mac, or save it as a file in the Finder. You can also scan a document using your iOS device and save it to your Mac as a PDF file. For more information, see [Continuity Camera](#).
- *App Store*: A redesigned sidebar in the App Store makes it easier for you to browse, search, and filter apps. Read in-depth stories and explore curated collections on the Discover tab. For more information, see [App Store](#).

- *Security and Privacy*: Your Mac asks for permission before granting apps access to a wide range of tools and personal data. Enhanced privacy protections in Safari make it harder for data companies to track your web browsing. Safari also automatically suggests and stores unique, strong passwords when you sign up for an account, and identifies passwords that have been reused so you can easily change them. For more information, see [Safari](#).

Additionally, macOS Mojave brings four new apps to Mac:

- *Apple News*: Browse trusted news and information that's been curated by editors and personalized for you. You can save articles for future reading—even offline or on other devices. For more information, see [Apple News](#).
- *Stocks*: Customize your watchlist to follow stocks, indexes, currencies, and more. View prices and interactive charts, and read high-quality business news right in the app. For more information, see [Stocks](#).
- *Voice Memos*: Record and edit audio clips on your Mac. Sync and listen to recordings on all your devices using iCloud. For more information, see [Voice Memos](#).
- *Home*: Control your HomeKit accessories using your Mac. The Home app lets you automate accessories; create scenes, which allow accessories to work together with a single command; and get real time notifications if something happens in your home. You can also use Siri to control accessories when the app isn't running. For more information, see [Home](#).

Dark Mode

Dark Mode transforms your desktop picture, menu bar, Dock, and built-in apps to a dark color scheme. It makes your content stand out while darkened controls and windows recede into the background, so it's easier to stay focused on your work.

Perfect for pros. Dark Mode is finely tuned for professionals who edit photos and images—colors and fine details pop against the dark app backgrounds. But it's also great for anyone who just wants to focus on their content.

Easy on your eyes. In Dark Mode, macOS shows white text on a black background in apps such as Mail, Contacts, Calendar, and Messages, so it's easier on your eyes when you're working in dark environments.



Beautiful new look. Dark Mode is a great way to give your Mac a new look that makes your content shine in apps like Photos, iTunes, Messages, and Keynote. It's been integrated throughout macOS and its apps, so you can stay fully immersed in your work.

Learn more. To learn more, see [Use a light or dark appearance on your Mac.](#)

Screenshot utility

Explore the Screenshot menu to find all the controls you need to take screenshots and screen recordings. You can also capture your voice during a screen recording. (Mac mini requires an external microphone to record your voice. Accessories are sold separately at apple.com or your local Apple Store.) The optimized workflow lets you capture photos and videos of your screen, and then easily share, edit, or save them.

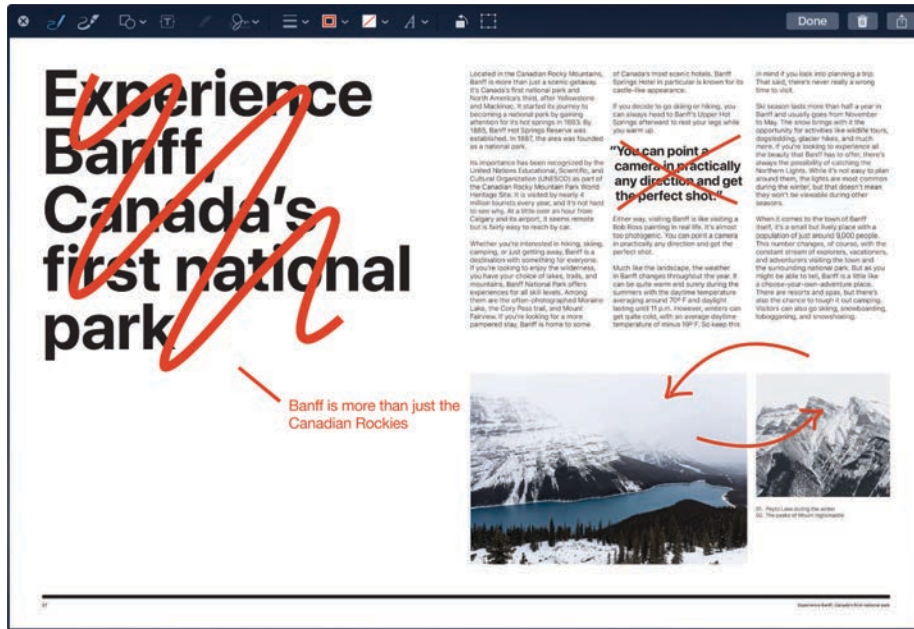
Access the screenshot controls. Press Command-Shift-5. You can capture the entire screen, a selected window, or a portion of a window. You can also record the entire screen or a selected portion of the screen.

Use the icons at the bottom of the screen to capture a selection , record your screen , and more. Click Options to specify where you want to save the screenshot, set a timer before capturing, set microphone and audio options, or show elements like the pointer. Click Capture to save the screenshot.

After you take a screenshot or video, a thumbnail appears in the corner of your screen. Drag it into a document or folder, swipe to the right to quickly save it, or click to edit or share it.

Note: You can also open the Screenshot utility from the Other folder in Launchpad or from the Apps > Utilities folder in Finder.

Mark up your screenshot. Click the thumbnail of your screenshot to use Markup tools and make annotations. You can also click Share  to send your marked up screen to colleagues or friends—right from the screenshot itself.



Learn more. To learn more, see [Take screenshots or screen recordings on Mac](#).

Secure storage and secure boot

Your Mac mini includes the Apple T2 chip that provides security features to protect what's on your computer and prevent unauthorized software apps from loading during startup:

- **Secure storage:** The storage drive of your Mac mini is encrypted with keys tied to its hardware to provide advanced levels of security. In the event of a catastrophic failure, data recovery may not be possible, so you need to backup your system to an external source. You can set up Time Machine or another backup plan to regularly back up the contents of your computer. For more information, see [Back up your files with Time Machine](#) in the macOS User Guide and the Apple Support article [How to use Time Machine to back up or restore your Mac](#).
- **Secure boot and Startup Security Utility:** Support for secure boot is turned on automatically. It helps ensure that only legitimate operating system software is loaded on your computer at startup. For more information, see the Apple Support article [About Secure Boot](#).

If your Mac mini doesn't start because it detects an untrusted component, it will start from a secure recovery partition and automatically correct issues if possible. To learn more about the Startup Security Utility or to find out how to set other options, such as starting up from an external device, see the Apple Support article [About Startup Security Utility](#).

Server

The most popular server features—File Server, Time Machine Server, and Caching Server—are a part of macOS, so it's easy to use your Mac mini as a server. Click the System Preferences icon  in the Dock, then click Sharing to select one or more of the options below.

- **File Sharing:** lets users store and share folders and files on Mac mini. For more information, see [Use file sharing](#).
- **Time Machine:** lets users back up their Mac computers on your Mac mini using File Sharing. For more information, see [Use a shared folder with Time Machine](#).
- **Content Caching:** provides caching of software distributed by Apple through the Internet. For more information, see [Content caching preferences](#).

Migrate your data

It's easy to move your files and settings from another Mac or PC to your Mac mini. To transfer the data when you first set up your Mac mini, use Setup Assistant. To transfer data later, you can use Migration Assistant. If both computers are connected to the same Wi-Fi network, you can transfer the data wirelessly.

 **Tip:** For best results, make sure your Mac mini is running the latest version of macOS. To check for software updates, click the App Store icon  in the Dock, then click Updates in the App Store toolbar.

If you used Time Machine to back up your files from another Mac to a storage device (such as an AirPort Time Capsule or an external disk), you can copy the files from the device to your Mac mini.



Use Migration Assistant. Open a Finder window, go to Applications > Utilities, then double-click Migration Assistant. Follow the onscreen instructions. For more information, see the Apple Support article [How to move your content to a new Mac](#).

Tip: For fastest migration, connect your old computer to your Mac mini with a cable, such as a Lightning to USB cable or a Thunderbolt 3 (USB-C) cable. If you migrate wirelessly, you'll get best results if you keep both computers near each other throughout the migration process.

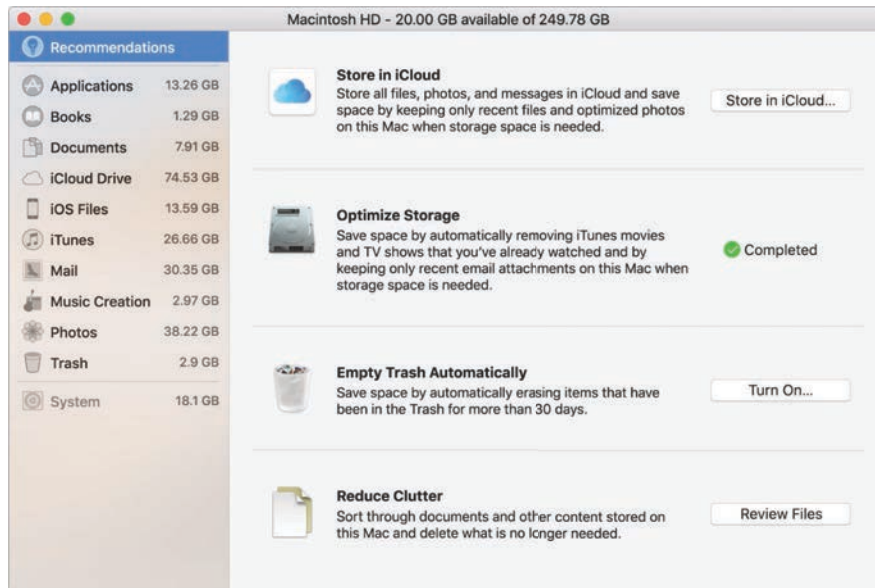
Copy files from a storage device. Connect the device to the USB 3 port  or Thunderbolt 3 (USB-C) port  on your Mac mini, then drag files from your storage device to your Mac mini.

Use Target Disk Mode. You can transfer data from a Thunderbolt-equipped Mac to your new Mac mini using a Thunderbolt cable. Put the Mac you want to migrate data from in Target Disk Mode by restarting it while holding down the T key. Then connect the two computers using a Thunderbolt cable, and open Migration Assistant on your Mac mini. Select "From a Mac, Time Machine backup, or startup disk" when asked how you want to transfer your information, click Continue, then select the disk you want to transfer information from.

Save space on your Mac mini

With Optimize Storage, you can automatically free up space on your Mac mini by making files available on demand. Your files will be stored in iCloud Drive, iCloud Photos (formerly called iCloud Photo Library), iCloud, and iTunes, as well as on your email IMAP or Exchange server, so you can download them at any time. In addition, there are tools to identify and delete big files.

Optimize storage. Go to Apple menu  > About This Mac, click Storage, then click Manage to see different storage recommendations, based on how you configured your Mac. When your Mac is low on storage, you'll see an alert with a link to the Storage pane.



Set options to:

- *Store in iCloud:* Store all files, photos, and messages in iCloud and save space on your Mac.
- *Desktop and Documents:* Store all the files from your Desktop and Documents folders in iCloud Drive. When storage space is needed, iCloud Drive keeps recently opened files on your Mac and makes your oldest files available on demand.
- *Photos:* Store photos and videos in iCloud Photos. When storage spaces is needed, iCloud Photos uses optimized versions of photos and video on your Mac and makes the originals available on demand.
- *Messages:* Store all messages and attachments in iCloud. When storage space is needed, iCloud keeps recent attachments on your Mac and makes your oldest files available on demand.

Even though your files are stored in the cloud, you can access them right where you left them on your Mac mini. For more information, see [Access your content anywhere with iCloud](#).

- *Optimize Storage:* Save space on your Mac by optimizing the storage of movies and TV shows in iTunes and email attachments in Mail.

- *iTunes*: Choose to automatically remove iTunes movies or TV shows from your Mac mini after you watch them. Your watched videos are still available on demand.
- *Mail*: Choose to have Mail download only recent email attachments, or none at all. If you choose to download only recent attachments, your oldest email attachments are still available on demand.
- *Empty Trash Automatically*: Automatically erase items that have been in the Trash for more than 30 days.
- *Reduce Clutter*: Easily identify large files, and delete the files you no longer need. To browse large files, click through the categories in the sidebar—Documents, Applications, Music Creation, iOS Files, and more.

To help you save space as you work, macOS also:

- Prevents you from downloading the same file twice from Safari
- Alerts you to remove installer software when you finish installing a new app
- Clears logs and caches that are safe to remove when you're low on storage

Back up and restore

To keep your files safe, it's important to back up your Mac mini regularly. The easiest way to back up is to use Time Machine—which is built into your Mac mini—with an external storage device connected to your Mac mini. Time Machine can also back up your Mac contents to supported network volumes. For a list of devices supported by Time Machine, see the Apple Support article [Backup disks you can use with Time Machine](#).

Files stored in iCloud Drive and photos in iCloud Photos are automatically backed up to the cloud and don't need to be part of your Time Machine or other backup.

 **Tip:** You can use a shared Mac that's on the same network as your Mac mini as a backup destination. On the other Mac, go to System Preferences > Sharing, then turn on File Sharing. Add a shared folder, secondary click (that is, right-click) the folder, choose Advanced Options, then click "Share as Time Machine backup destination."

Set up Time Machine. Make sure your Mac mini is on the same Wi-Fi network as your external storage device, or connect your storage device to your Mac mini. Click the System Preferences icon  in the Dock, click Time Machine, then select Back Up Automatically. Select the drive you want to use for backup, and you're all set.



Time Machine:

- Automatically backs up your entire Mac mini, including system files, apps, accounts, preferences, music, photos, movies, and documents.
- Remembers how your computer looked on any given day, so you can revisit your Mac mini as it appeared in the past or retrieve an older version of a document.
- Lets you restore your entire system from a Time Machine backup. So if anything happens to your Mac mini, your files and settings are safe and sound.

Learn more. To learn more about backing up and restoring your Mac mini, see [Back up your files with Time Machine](#) in the macOS User Guide.

Use Mac mini with other devices

Use your Mac mini with iCloud and Continuity features

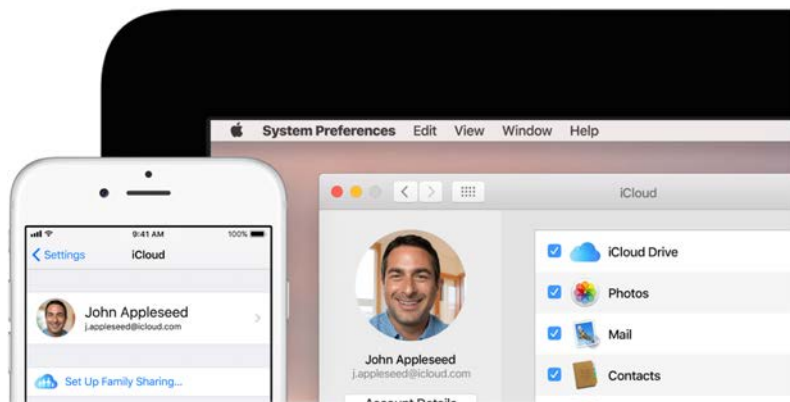
There are many ways to use your Mac mini with your other devices, such as iPhone, iPad, iPod touch, or Apple Watch. You can transfer files, share and edit documents, unlock your Mac mini with your Apple Watch, turn your iPhone or iPad into an Internet hotspot, answer calls or send texts from your Mac mini, and more.

Access your content across devices. With iCloud, you can securely store, edit, and share your documents, photos, and videos across devices to make sure you're always up to date. To get started, see [Access your content anywhere with iCloud](#).

To sign in to iCloud if you didn't when you set up your Mac, click the System Preferences icon  in the Dock, click iCloud, then sign in with your Apple ID, or create a new one if you don't have one. To learn more, see [Set up iCloud](#) in the macOS User Guide.

Use your Mac mini with other devices. You can seamlessly move between your Mac mini and other devices using Continuity. Just sign in to iCloud with your Apple ID, and whenever your Mac mini and devices are near each other, they work together in great ways. With Continuity features, you can do things like start a task on one device and finish it on another (see [Handoff](#)), copy and paste between devices (see [Universal Clipboard](#)), answer calls or send texts from your Mac mini (see [Phone calls and text messages](#)), transfer files with AirDrop (see [AirDrop](#)), and more.

For a list of system requirements for devices that support Continuity, see the Apple Support article [System requirements for Continuity](#). To learn more about using Continuity with your Mac mini, see the Apple Support article [Use Continuity to connect your Mac, iPhone, iPad, iPod touch, and Apple Watch](#) or go to [All your devices](#).



Access your content anywhere with iCloud

iCloud is the easiest way to make sure all your important content is everywhere you are. iCloud stores your documents, photos, music, apps, contacts, and calendars, so you can access them anytime you're connected to the web.

You can use your Apple ID to set up a free iCloud account, which comes with 5 GB of free storage space. Purchases you make from the iTunes Store, App Store, or Apple Books don't count toward your available space.

iCloud keeps everything up to date on your devices. So if you have an iPhone, iPad, or iPod touch, just sign in to iCloud using the same Apple ID and you'll have everything you need.

For system requirements about devices that support iCloud, see the Apple Support article [System requirements for iCloud](#).

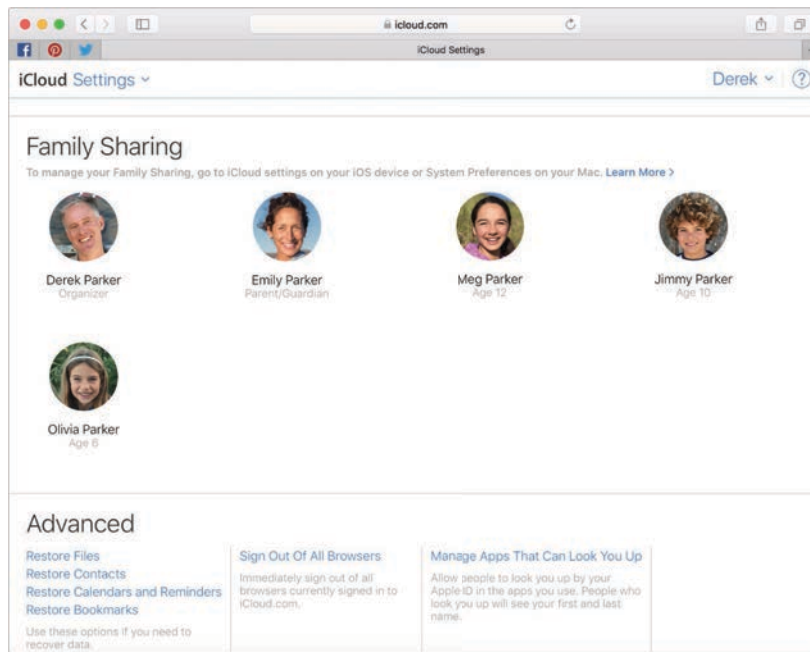


Here are some of the things you can do with iCloud.

Automatically store your desktop and Documents folder in iCloud Drive. You can save files in your Documents folder or on your desktop, and they're automatically available on iCloud Drive and accessible wherever you are. When working with iCloud Drive, you have access to files on your Mac mini, on your iPhone or iPad in the iCloud Drive app, on the web at [iCloud.com](#), or on a Windows PC in the iCloud app. When you make changes to a file on a device or on iCloud Drive, you'll see your edits wherever you view the file.

To get started, click the System Preferences icon  in the Dock, click iCloud, select iCloud Drive, click Options, then select "Desktop & Documents Folders." To learn more, see the Apple Support article [Use iCloud Drive on iCloud.com](#).

Share purchases and storage with Family Sharing. Up to six members of your family can share their purchases from the iTunes Store, App Store, and Apple Books and share the same storage plan—even if they each use their own iCloud account. Pay for family purchases with one credit card, and approve kids' spending right from your Mac mini or iOS device. Also share photos, a family calendar, reminders, and locations. To set up Family Sharing if you didn't when you set up your Mac, click the System Preferences icon  in the Dock, click iCloud, then click Set Up Family. To learn more, see the Apple Support article [Set up Family Sharing](#).



Store and share photos using iCloud Photos and Shared Albums. Store your photo library in iCloud and see your photos and videos, as well as the edits you make to them, on all your devices. Share photos and videos with only the people you choose, and let them add their own photos, videos, and comments. To get started, click the System Preferences icon  in the Dock, click iCloud, select Photos, then click Options. To learn more, see the Apple Support article [iCloud Photo Library](#).

Enjoy your purchases anywhere. When you're signed in to iCloud, purchases you've made from the iTunes Store, App Store, and Apple Books are available at any time, no matter which computer or device you used to purchase them. So all your music, movies, books, and more are available wherever you go.

Locate your Mac mini with Find My Mac. If your Mac mini is stolen, you can easily locate it on a map, lock its screen, or even erase its data remotely if you have Find My Mac turned on. To turn on Find My Mac, click the System Preferences icon  in the Dock, click iCloud, then click Find My Mac.

Learn more. To learn more about iCloud, see [What is iCloud?](#) in the macOS User Guide.

Handoff

With Handoff, you can continue on one device where you left off on another. Work on a presentation on your Mac mini, then continue on your iPad. Or start an email message on your iPhone, then finish it on your Mac mini. View a message on your Apple Watch, and respond to it on your Mac mini. You don't have to worry about transferring files. When your Mac mini and devices are near each other, an icon appears in the Dock whenever an activity can be handed off; to continue, just click the icon.



Turn on Handoff on your Mac mini. Click the System Preferences icon  in the Dock, click General, then select “Allow Handoff between this Mac and your iCloud devices.”

Turn on Handoff on your iOS device. Go to Settings > General > Handoff, then tap to turn on Handoff. If you don't see the option, your iOS device doesn't support Handoff.

Turn on Handoff on your Apple Watch. In the Apple Watch app on iPhone, go to Settings > General, then tap to turn on Enable Handoff.

Note: To use Handoff, you need an iPhone, iPad, or iPod touch with the Lightning connector and iOS 8 (or later) installed. Make sure your Mac mini and iOS device have Wi-Fi and Bluetooth turned on and are logged in with the same Apple ID.

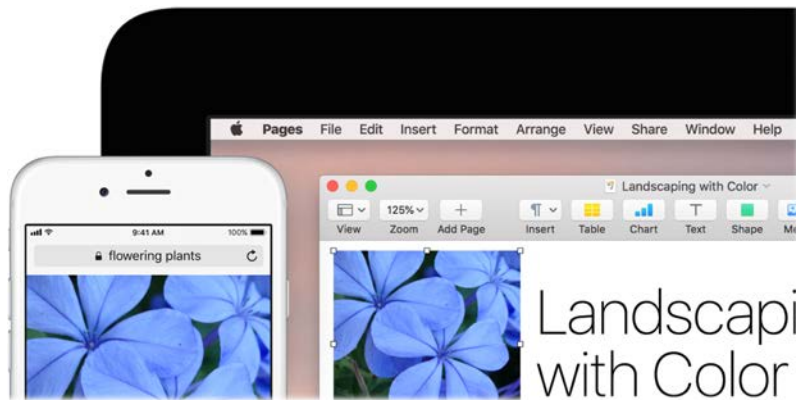
Handoff works with Safari, Mail, Calendar, Contacts, Maps, Messages, Notes, Reminders, Keynote, Numbers, and Pages.

Learn more. To learn more about Handoff, see [Pick up where you left off with Handoff](#) in the macOS User Guide.

Universal Clipboard

Copy content from one device, and paste it into another nearby device within a short period of time. The contents of your clipboard are sent over Wi-Fi and made available to all Mac and iOS devices that are logged in with the same Apple ID and have Handoff, Wi-Fi, and Bluetooth turned on. For more information, see [Handoff](#).

Note: To use Universal Clipboard, you need an iPhone, iPad, or iPod touch with the Lightning connector and iOS 10 (or later) installed.



Use across apps. You can copy and paste images, text, photos, and video between any apps that support copy and paste on your Mac, iPhone, iPad, and iPod touch.

Copy and paste files. You can quickly move files from one Mac to another using Universal Clipboard. Copy a file on your Mac mini and paste it into a Finder window, Mail message, or any app that supports copy and paste on a nearby Mac. You must be signed in with the same Apple ID on both Macs.

Learn more. To learn more about Universal Clipboard, see [Copy and paste across devices from your Mac](#) in the macOS User Guide.

Continuity Camera

You can use your iPhone or iPad to take a scan or a photo of something nearby and insert it into a document on your Mac. Scan a document or take a picture of something with your iPhone or iPad camera, and it appears where you want it on your Mac.

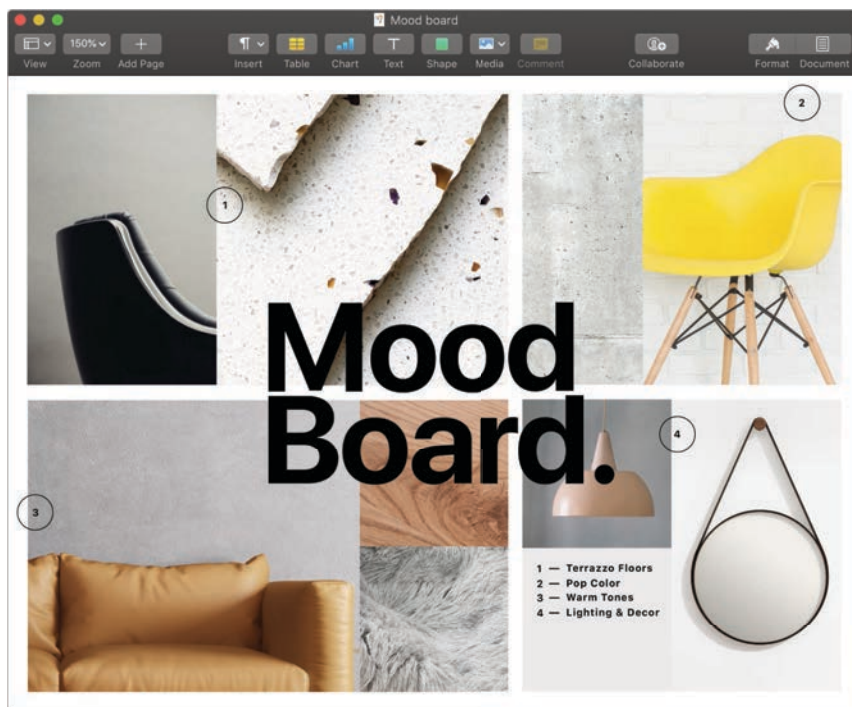
Insert an image. In an app like Mail, Notes, or Messages, select where you want the image to go, choose File > Import From iPhone or iPad, choose “Take Photo or Scan Documents”, then take the photo or scan the image on your iOS device. You might need to select your iOS device before taking the photo. Tap Use Photo or Keep Scan. You can also tap Retake if you want to try again.

In an app such as Pages, select where you want the image to be inserted, then secondary click (this is, right-click), choose “Import image,” then take the photo. You might need to select your iOS device before taking the photo.

Note: To take a scan on your iOS device, drag the frame until what you want to show is in the frame, tap Keep Scan, then tap Save. Tap Retake to rescan the content.



The photo or scan appears where you want it in your document.



Learn more. To learn more, see [Insert photos and scans with Continuity Camera on Mac.](#)

AirDrop

AirDrop makes it easy to share files with nearby Mac computers and iOS devices. The devices don't need to share the same Apple ID.

Note: AirDrop for iOS requires devices that have the Lightning connector and iOS 7 or later. Not all older Macs support AirDrop (for a list of supported Macs, see the Apple Support article [Use AirDrop to send content from your Mac](#)).



Send a file from the Finder. Click the Finder icon  in the Dock, then click AirDrop in the sidebar on the left. When the person you want to send a file to appears in the window, drag the file to him or her.

Send a file from an app. While using an app like Pages or Preview, click the Share button  and choose AirDrop.

Share passwords stored in iCloud Keychain. In Safari, you can use AirDrop to share an account password with one of your contacts, or another Mac or iOS device. From the Safari menu, open Preferences > Passwords, select the website whose password you want to share, then secondary click (that is, right-click). Choose "Share with AirDrop," then select the person or device in the AirDrop window to share the password.

Control who can send items to you using AirDrop. Click the Finder icon  in the Dock, click AirDrop in the sidebar, then click "Allow me to be discovered by" and choose an option.

When you send a file to someone, the recipient can choose whether or not to accept the file. When someone sends you a file, you can find it in the Downloads folder on your Mac mini.

 **Tip:** If you don't see the recipient in the AirDrop window, check that the recipient can be discovered by you and make sure both devices have AirDrop and Bluetooth turned on and are within 30 feet (9 meters) of each other.

Learn more. To learn more about AirDrop, see [Use AirDrop on your Mac to send files to devices near you](#) in the macOS User Guide.

Phone calls and text messages

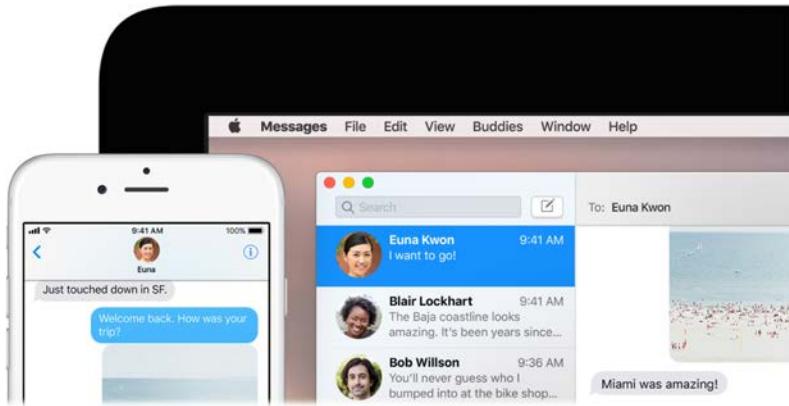
You can take calls—and make them—right from your Mac mini. (Requires an external microphone. Accessories are sold separately at [apple.com](#) or your local Apple Store.) You can also receive and send text messages.

Note: A Wi-Fi connection is required in order to make or receive phone calls on your Mac mini.

Take or make a call. When someone calls your iPhone, click the notification that appears on your Mac mini screen and your Mac mini becomes a speakerphone. If you want to make a call, click a phone number in a Spotlight search or in an app such as FaceTime, Contacts, Safari, or Calendar. You need a nearby device (iPhone or iPad) with a cellular connection in order to make phone calls.



Send and receive messages. Send and receive SMS and MMS text messages right from your Mac mini. When friends and family text you, you can respond with whichever device is closest. All messages appear on your Mac mini, iPhone, iPad, iPod touch, and Apple Watch. (Voice messages require an external microphone. Accessories are sold separately at [apple.com](#) or your local Apple Store.) For more information, see [Messages](#).

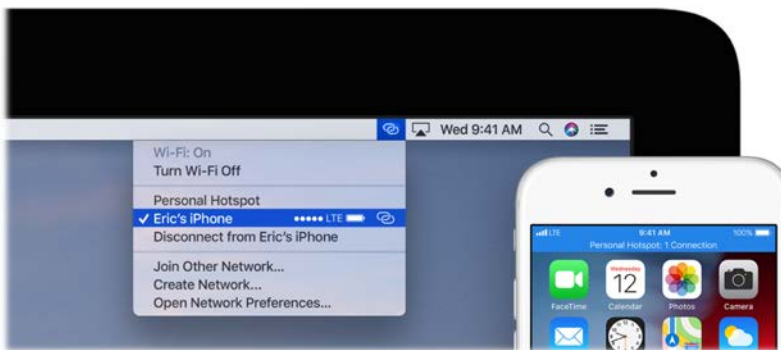


Learn more. To learn more about phone calls and text messages, see [Make and receive phone calls in FaceTime on Mac](#) in the FaceTime User Guide and [Set up iPhone to get SMS texts on Mac](#) in the Messages User Guide.

Instant Hotspot

Lost your Wi-Fi connection? Use the Personal Hotspot on your iPhone or iPad to connect your Mac mini to the Internet.

Note: Personal Hotspot requires an iPhone or a cellular model iPad, with iOS 8 or later.



Connect to your device's Personal Hotspot. Click the Wi-Fi status icon  in the menu bar, then choose your iPhone or iPad from the list of devices that appears. (You don't need to do anything on your device—Mac mini connects automatically.)

Check the status of your connection. Look in the Wi-Fi status menu to see the strength of the cellular signal.

When you're not using the hotspot, your Mac mini disconnects to save battery life.

Learn more. To learn more about using Instant Hotspot, see [Use an iPhone or iPad to connect to the Internet](#) in the macOS User Guide.

Unlock your Mac mini with Apple Watch

Use your authenticated Apple Watch to automatically unlock your Mac mini when you're within about three meters of your computer. Just wake your Mac and start using it—no need to enter a password. Auto Unlock uses strong encryption to provide secure communication between your Apple Watch and Mac mini.

Note: Auto Unlock is a feature for Macs (mid-2013 or later) running macOS Sierra or later, and Apple Watch running watchOS 3 or later.



Set up two-factor authentication for your Apple ID. Auto Unlock works when your Apple ID has two-factor authentication turned on. Go to Apple menu  > System Preferences > iCloud > Account Details, click Security, then select Set Up Two-Factor Authentication. For more information, see the Apple Support article [Two-factor authentication for Apple ID](#).

Make sure “Disable automatic login” is also selected. (You won’t see this option if you’re using FileVault, but you can still use the Auto Unlock feature.)

Set up Auto Unlock. Sign in to iCloud with the same Apple ID on all your devices, then click the System Preferences icon  in the Dock, or choose Apple menu  > System Preferences. Click Security & Privacy, then select “Allow your Apple Watch to unlock your Mac.”

Note: Auto Unlock works only when your Apple Watch is authenticated. You authenticate your Apple Watch each time you put it on, so no extra steps are required after you enter your passcode.

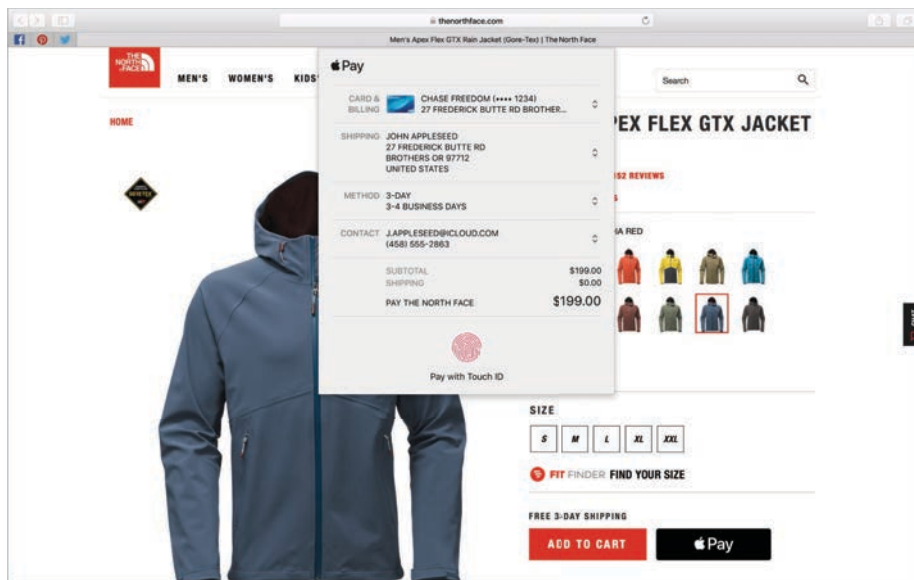
Skip the sign-in. Walk up to your sleeping Mac mini wearing your authenticated Apple Watch on your wrist, and press a key to wake your Mac. Apple Watch unlocks your Mac so you can get right to work.

Learn more. To learn more about how to unlock your Mac with Apple Watch, see [Unlock your Mac with Apple Watch](#) in the macOS User Guide.

Apple Pay

You can make easy, secure, and private purchases on websites using Apple Pay on your Mac mini. With Apple Pay, your credit or debit card information is never stored or shared by Apple with the merchant. When you shop online using Safari, look for an Apple Pay checkout option. Confirm payment using your iPhone or Apple Watch.

Note: For information about Apple Pay, go to [Cashless made effortless](#). For information about current card issuers, see the Apple Support article [Apple Pay participating banks](#).



Set up Apple Pay. Apple Pay uses the credit or debit cards you've already set up on your iPhone or Apple Watch, so no extra setup is required. You must be signed in to an iPhone or Apple Watch that has Apple Pay set up with the same Apple ID you're using on your Mac mini. The default payment card, shipping, and contact information that is set on your iPhone or Apple Watch will be used for purchases on your Mac.

Make a purchase. Click the Apple Pay button on the website, then to confirm the payment, use Face ID, Touch ID, or the passcode on your iPhone, or double-click the side button on your unlocked Apple Watch.

For more information about using Apple Pay, see the Apple Support article [Using Apple Pay in stores, within apps, and on the web](#).

AirPlay

Show whatever's on your Mac mini on the big screen using AirPlay Mirroring. To mirror the Mac mini screen on your TV screen or to use the HDTV as a second display, connect your HDTV to Apple TV and make sure the Apple TV is on the same Wi-Fi network as your Mac mini. You can also play some web videos directly on your HDTV without showing what's on your desktop—handy when you want to play a movie but keep your work private.



Mirror your desktop using AirPlay Mirroring. Click the AirPlay icon  in the menu bar, then choose your Apple TV. When an AirPlay display is active, the icon turns blue.

In some cases, you can use an AirPlay display even if you're not on the same Wi-Fi network as Apple TV (called *peer-to-peer AirPlay*). To use peer-to-peer AirPlay, you need an Apple TV (3rd generation rev A, model A1469 or later) with tvOS 7.0 or later.

Play web videos without showing your desktop. When you find a web video with an AirPlay icon , click the icon, then select your Apple TV.

Tip: If the image doesn't fit your HDTV screen when you mirror the screen, adjust the desktop size for the best picture. Click the AirPlay icon , then choose an option under "Match Desktop Size To."

Apple TV is sold separately at apple.com or your local Apple Store.

Learn more. To learn more about AirPlay, see [Use AirPlay to stream what's on your Mac to an HDTV](#) in the macOS User Guide. To learn more about using a second display with your Mac mini, see [Connect a display](#).

AirPrint

You can use AirPrint to print wirelessly to:

- An AirPrint-enabled printer on your Wi-Fi network
- A network printer or printer shared by another Mac on your Wi-Fi network
- A printer connected to the USB port of an AirPort base station

Print to an AirPrint printer. When you print from an app, click the Printers pop-up menu in the Print dialog, choose Nearby Printers, then choose an AirPrint printer.

Can't find the printer you're looking for? Make sure it's connected to the same Wi-Fi network as your Mac mini. If it is connected and you still don't see it, try adding it: Click the System Preferences icon  in the Dock, click Printers & Scanners, then click Add . (You may have to temporarily connect the printer to your Mac mini using a USB cable.)

Learn more. To learn more about AirPrint, see [Print wirelessly from your Mac to an AirPrint printer](#) in the macOS User Guide.

For a list of AirPrint-enabled printers and other supported printers, see the Apple Support articles [About AirPrint](#) and [Printer and scanner software available for macOS](#).

Apps

Included apps

Your Mac mini comes with a collection of great apps for things you do every day, like surfing the web, sending mail and messages, and arranging your calendar. It also comes with apps like Photos, iMovie, GarageBand, Pages, Numbers, and Keynote—so you can be creative and productive right from the start. The apps that come with your Mac mini are described in the following sections.



Find even more apps. Click the App Store icon  in the Dock to find apps for everything you want to do. See [App Store](#) to learn more.

Get help for any app. Click the Help menu (in the menu bar at the top of the screen) when you're using an app.

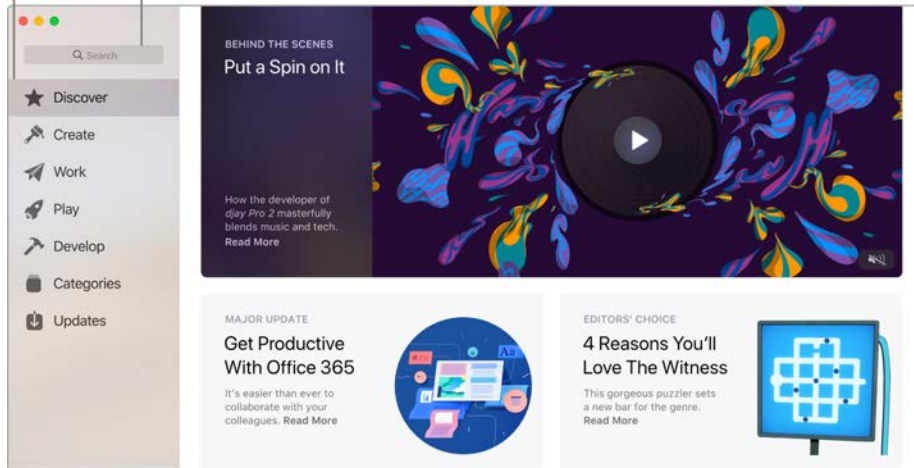
App Store

Search the App Store to find and download apps, and get the latest updates for your apps.

Find the perfect app. Know exactly what you're looking for? Type the name in the search field, then press Return.

Click a category to browse it.

Search for an app by name.



All you need is an Apple ID. To download apps, just sign in with your Apple ID—choose Store > Sign In, or click Sign In on the left side of the window. If you don't have an Apple ID yet, choose Store > Create Account. If you can't remember your password, click the Forgot link to recover it.

Get the latest updates. If you see a badge on the App Store icon in the Dock, there are updates available for your apps or macOS. Click the icon to open App Store, then click Updates in the toolbar.



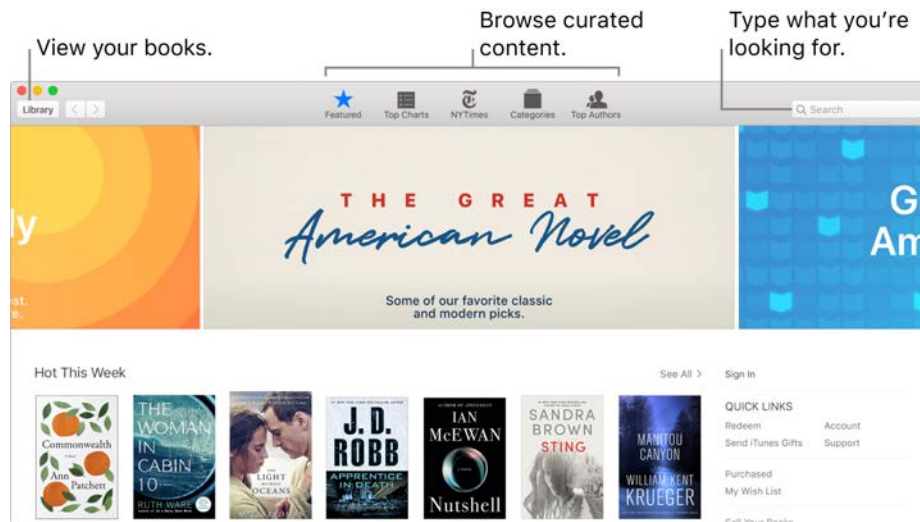
Tip: You can spread the word about your favorite apps to your friends. While viewing an app, click the down arrow next to the price, then choose Tell a Friend.

Learn more. To learn more about the App Store, see the [App Store User Guide](#).

Apple Books

Use Apple Books to read and organize your library of books, and to purchase new books on your Mac.

A bookshelf right on your Mac. Browse or search all the items in your library—or click Book Store to find new books and other publications. To buy an item, just sign in with your Apple ID (choose Store > Sign in.)



Never lose your place or your markups. Your purchased books, collections, highlights, notes, bookmarks, and the current page you're reading are available automatically on your Mac and iOS devices, as long as you're signed in on them with the same Apple ID.

Find your way back. You can quickly go to pages you've bookmarked. Click the arrow next to  to view your list of bookmarks.

 **Tip:** Change to Night theme to read more easily in low-light situations. Choose View > Theme, then choose Night, or click the Fonts button , then click the black circle. Not all books support Night theme.



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

Apple News

Apple News is a one-stop destination for trusted news and information, curated by editors and personalized for you. You can save articles for future reading—even offline or on other devices.



Note: Apple News is available in the U.S., UK, and Australia.

Customize your feed. View the news outlets and topics that interest you most. To create a new channel in the sidebar, enter a news outlet or topic in the search field, then click  to follow it.

Navigate easily with the sidebar. Use the sidebar to quickly click between channels. To adjust the order of the sidebar contents, click edit, then use the handle to drag and drop the channels into the order you prefer.

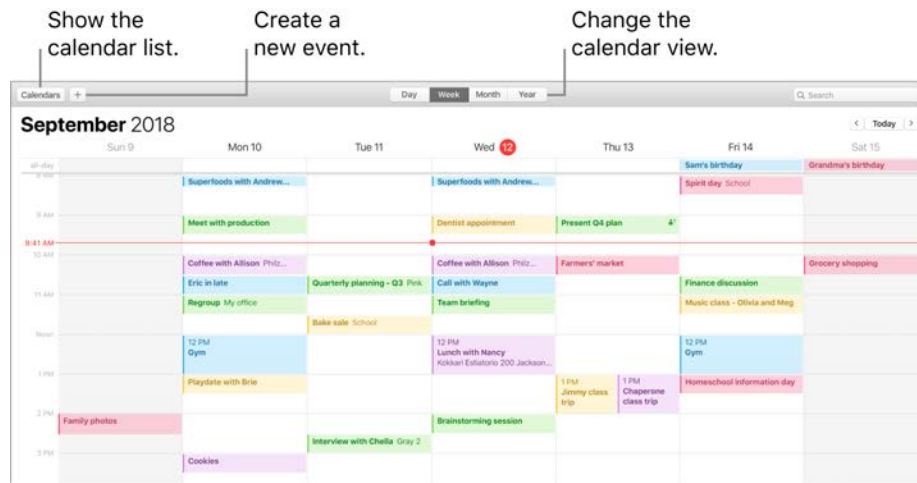
 **Tip:** If you're reading an article and want to save it for later, choose File > Save Story. To view the article later, click Saved Stories at the bottom of the sidebar. You can access articles from any of your devices when you sign in to iCloud with the same Apple ID.

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

Calendar

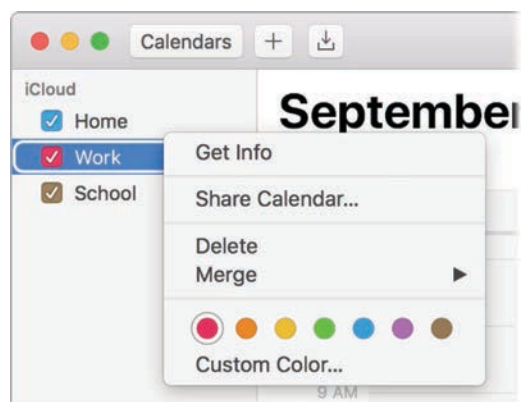
Never miss an appointment with Calendar. Keep track of your busy schedule by creating multiple calendars, and manage them all in one place.

Create events. Click **+** to add a new event, or double-click anywhere in a day. To invite someone, double-click the event, click the Add Invitees section, then type an email address. Calendar lets you know when your invitees reply.



See all your calendars—or just a few. Click the Calendars button to see a list of all your calendars; click the ones you want to see in the window.

A calendar for every part of your life. Create separate calendars—for example, for home, work, and school—each with its own color. Choose File > New Calendar to create a calendar, then secondary click (that is, right-click) the calendars to choose a new color.



Share across your devices and with others. When you're signed in to iCloud, your calendars are kept up to date on all your Macs and iOS devices. You can also share calendars with other iCloud users.



Tip: If you add a location to an event, Calendar shows you a map, estimated travel time and time to leave, and even the weather forecast.

Learn more. To learn more about Calendar, see the [Calendar User Guide](#).



FaceTime

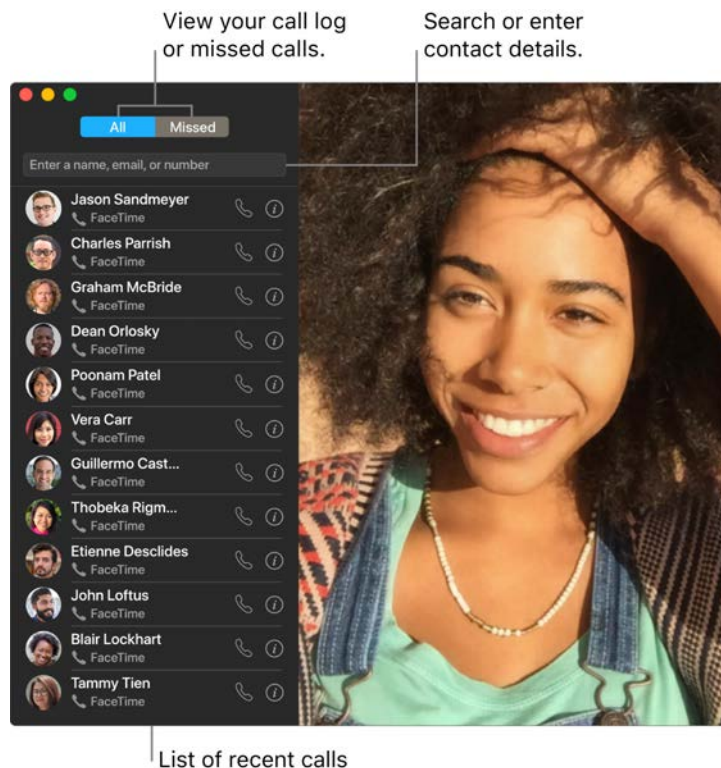
Make video and audio calls from your Mac with FaceTime. (Requires an external camera and microphone. Accessories are sold separately at [apple.com](#) or your local Apple Store.)

Video or audio only? Connect a camera and microphone to your Mac to make FaceTime video calls. If it's not convenient to make a video call, click the Audio button to make an audio-only call.

When you receive a FaceTime invitation, you can choose to join with just video, just audio, or both.



Tip: While a video call is in progress, you can drag the small picture-in-picture window to any corner of the FaceTime window.



Leave a message. If your FaceTime video call is declined or not answered, click Message to send a text message.

Make a phone call. If you have an iPhone with iOS 8 or later, make phone calls right from your Mac using FaceTime. Just make sure your Mac and iPhone are signed in to the same iCloud account and have the feature turned on. (On your Mac, open FaceTime, choose FaceTime > Preferences, then select “Calls from iPhone.”)

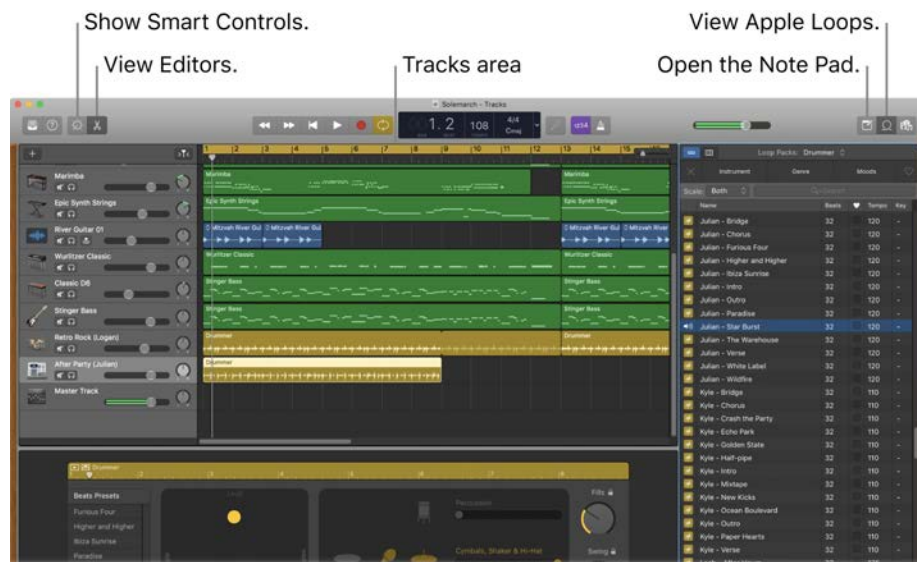
Note: A Wi-Fi connection is required in order to make or receive calls on your Mac mini.

Learn more. To learn more about FaceTime, see the [FaceTime User Guide](#).

GarageBand

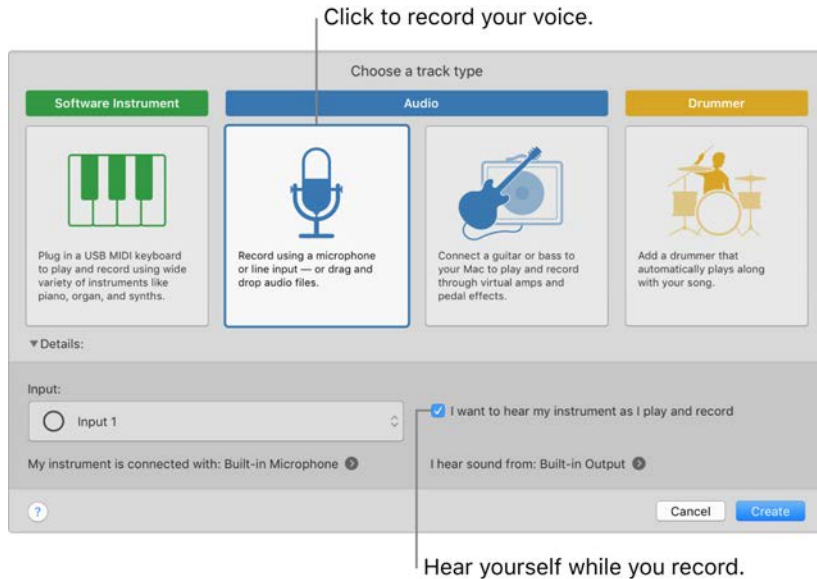
GarageBand is an app for creating, recording, and sharing your music. It has everything you need to learn to play an instrument, write music, or record a song—your own home recording studio.

Create a new project. You can start with a song template, select a tempo, key, and other options, then click Record and start playing. Build your song—for example, with different tracks and loops. Click Quick Help (?) and hold the pointer over items to learn what they are and how they work.



Bring in the beat. You can quickly add drums to your project using Drummer Loops. Click the Loop Browser , then drag a Drummer Loop  into an empty part of the Tracks area. You can customize Drummer Loops to fit your song, using a simple set of controls.

Record your voice. Connect a microphone, choose Track > New Track, then select the microphone under Audio. Click the triangle next to Details to set options for input, output, and monitoring, then click Create. Click the Record  button to start recording, or the Play button  to stop recording.

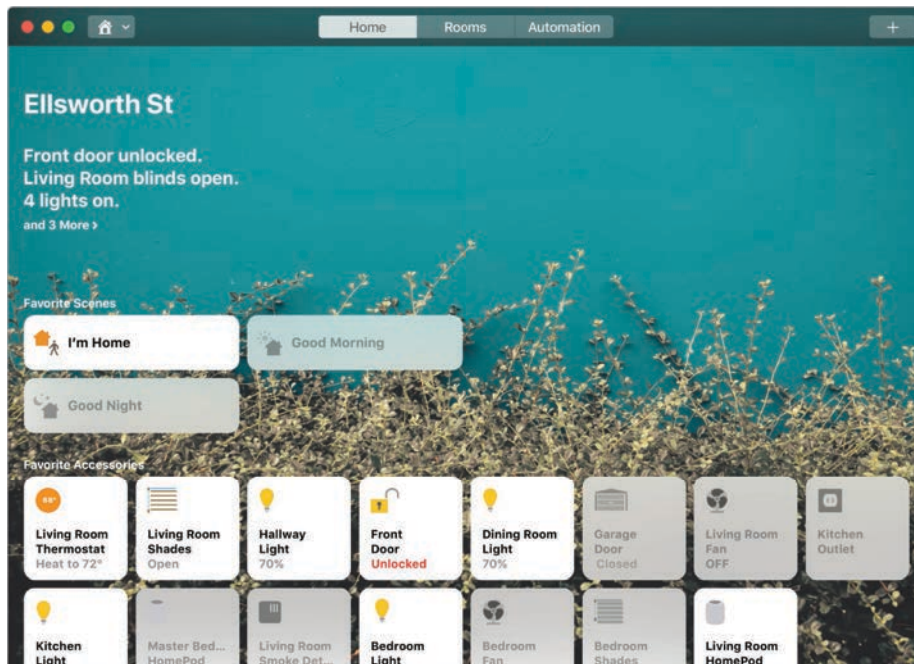


Learn more. To learn more about GarageBand, see [GarageBand Support](#).

Home

With the Home app, you can easily and securely control all of your HomeKit accessories from your Mac.

Accessory control. Accessories show up in the Home app as tiles with icons. Click an accessory tile to control it—turn lights on/off, lock/unlock the door, view live cameras, and more. You can also adjust the brightness of a light, or the target temperature of a thermostat.



Shared Access. You can share your home with family members or guests, so they can control accessories using the Home app on their own Apple devices.

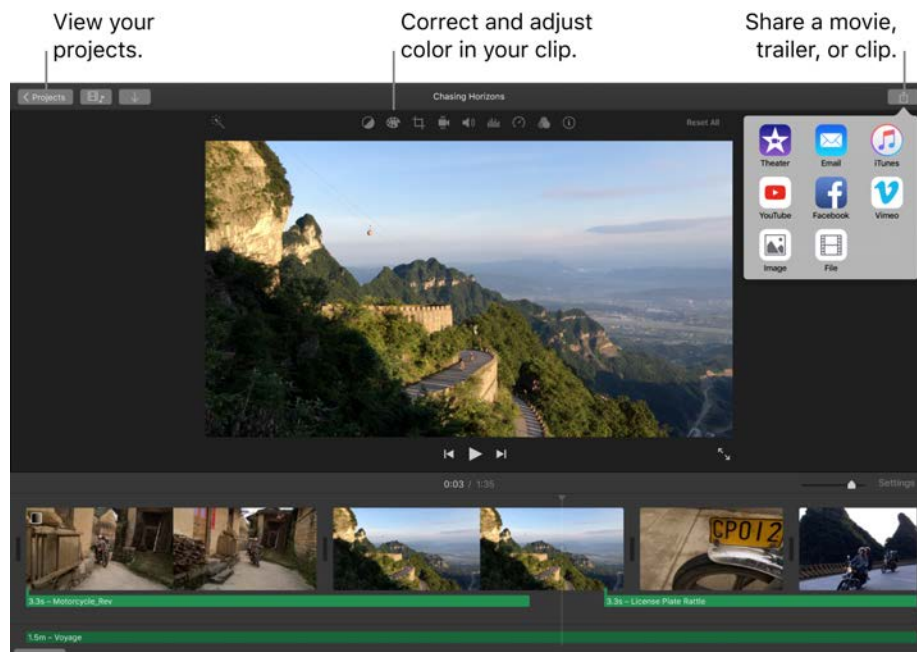
Create a scene. Create scenes that allow your accessories to work together at the same time with a single command. For example, make a Good Night scene that turns off all of the lights, closes the shades, and locks the door when you turn in for the night.

Learn more. To learn more about Home, see the [Home User Guide](#).

iMovie

iMovie lets you turn your home videos into beautiful movies and Hollywood-style trailers that you can share with a few quick clicks.

Import a video. Import video from your iPhone, iPad, or iPod touch, from a camera, or from media files already on your Mac. iMovie creates a new library and event for you.



Create Hollywood-style trailers. Make clever trailers, complete with animated graphics and soaring soundtracks. Just add photos and video clips and customize the credits. To get started, click the New button **+**, click Trailer, choose a template from the Trailer window, then click Create. Add the cast and credits in the Outline tab, and add your own photos and videos in the Storyboard tab.



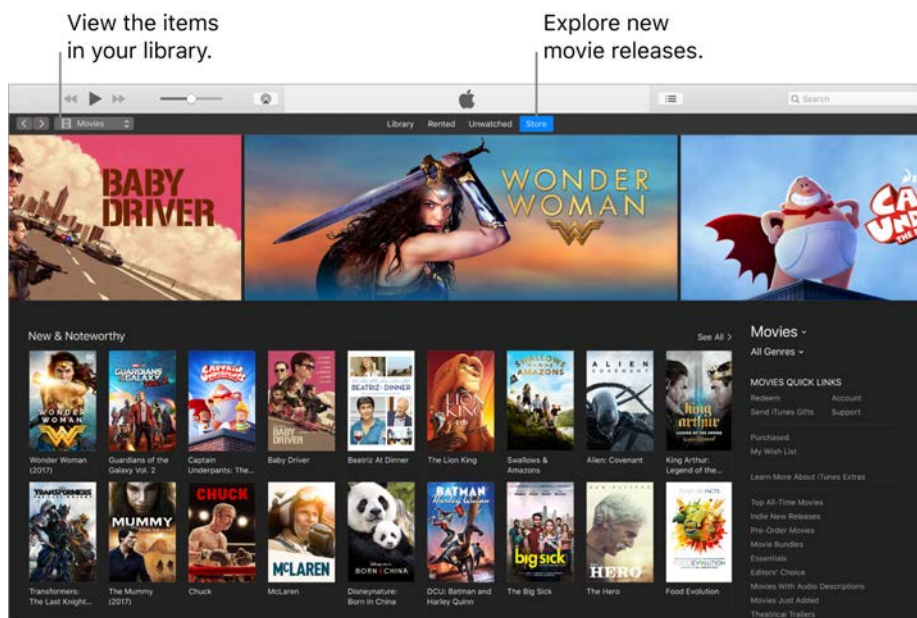
Tip: Shooting video with a handheld device can produce shaky results, but you can stabilize the video so the playback is smoother. Select the shaky clip in the timeline, click the Stabilization button , then click Stabilize Shaky Video.

Learn more. To learn more about iMovie, see [iMovie Support](#).

iTunes

iTunes makes it easy to organize and enjoy the music, podcasts, movies, and TV shows you have—and shop for the ones you want. iTunes includes Apple Music (which lets you listen to millions of songs on demand), Beats 1 live radio, and Connect, a fun way for fans and artists to interact.

It's in your library. Your iTunes library contains your music, podcasts, movies, and TV shows. Click the menu in the top-left corner to view a category of items, or to switch to a different library.



Find your new favorite song. Click For You to browse albums and playlists recommended for you based on the artists and genres you love. The reorganized, easy-to-understand sections highlight why each album or playlist was selected for you. For You also shows posts from artists you follow, so it's easier than ever to discover new music.

Browse the best of Apple Music. Click Browse to see new music and exclusive releases from Apple Music. Choose from a huge selection of playlists to find the perfect mix for any moment.

Tune in. Click Radio to tune in to Beats 1 live or listen to any episode from the Beats 1 family of shows. Explore the wide variety of music-only stations created for almost every genre of music.

 **Tip:** To play music or radio from a speaker using AirPlay, click the AirPlay icon  in the menu bar and select an available speaker.

Learn more. To learn more about iTunes, see [iTunes Support](#).

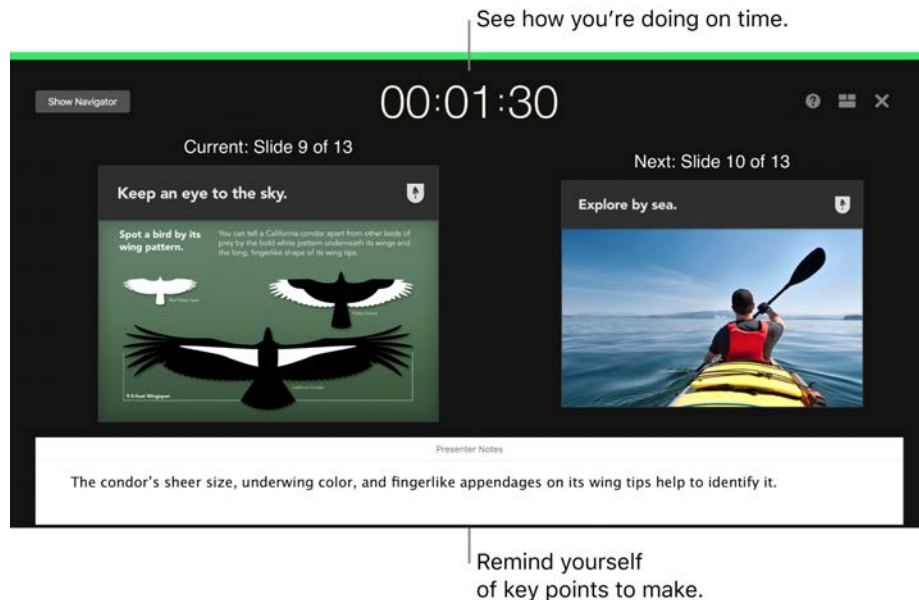
Keynote

Create professional, cutting-edge presentations with Keynote. Start with one of the more than 30 predesigned themes and make it your own by adding text, new objects, and updating the color scheme.

Organize visually. Use the slide navigator on the left to quickly add, delete, or rearrange slides. Click a slide to see it in the main window, drag a slide to change its order, or select it and press Delete to remove it.



Practice makes perfect. To rehearse your presentation, choose Play > Rehearse Slideshow. You'll see each slide along with your notes—and a clock to keep you on track.



Share your presentation. If your manager wants to review your presentation or you want to share it with others on a conference call, choose Share > Send a Copy to send a copy by Mail, Messages, AirDrop, or even social media.

Follow the bouncing ball. Get their attention by animating an object on a slide. Select the object, click Animate in the toolbar, click Action in the sidebar, then click Add an Effect.

 **Tip:** You can include a video in your presentation. Click where you want it to be, then click the Media button  in the toolbar. Click Movies, find the movie you want, then drag the file to your slide.

Learn more. To learn more about Keynote, see [Keynote Support](#).



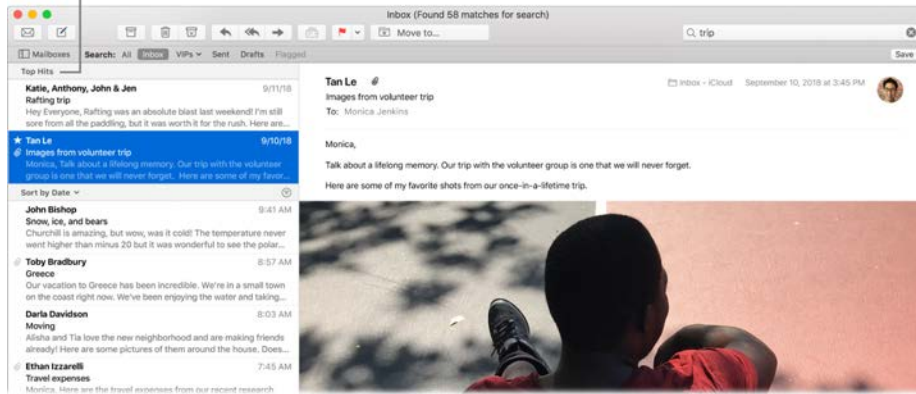
Mail

Mail lets you manage all your email accounts from a single app. It works with most popular email services, such as iCloud, Gmail, Yahoo Mail, and AOL Mail.

One-stop email. Tired of signing in to multiple websites to check your email accounts? Set up Mail with all your accounts so you can see all your messages in one place. Choose Mail > Add Account.

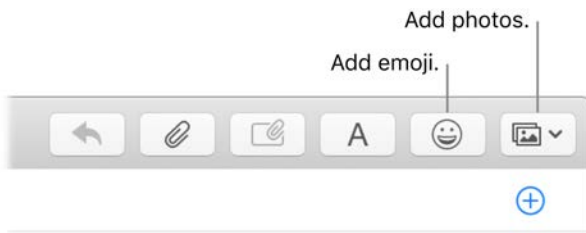
Find the right message. As you type in the search field, suggestions for messages that best match your query appear at the top of the search results.

Top Hits shows the most relevant messages in search results.

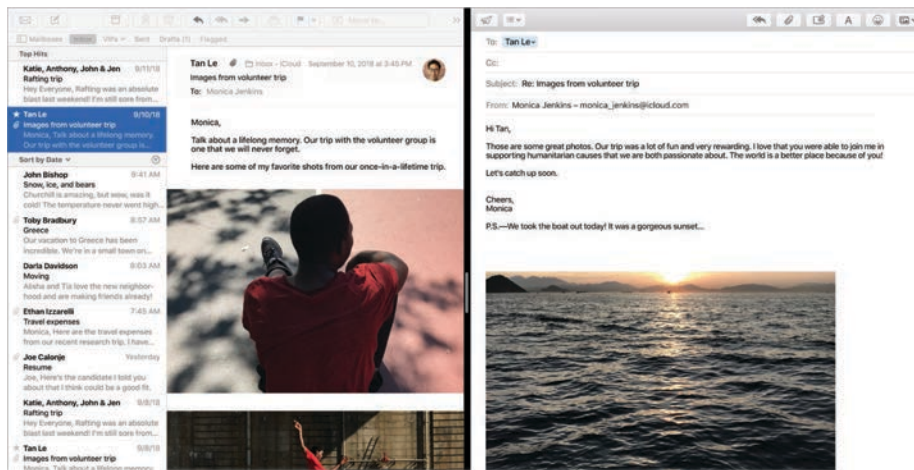


Add events and contacts right from Mail. When you receive a message that includes a new email address or event, just click Add to add it to Contacts or Calendar.

Personalize any message. Add emoji or photos with just a click. Select photos from your photo library or take them on iPhone or iPad. For more about inserting photos from other devices, see [Continuity Camera](#).



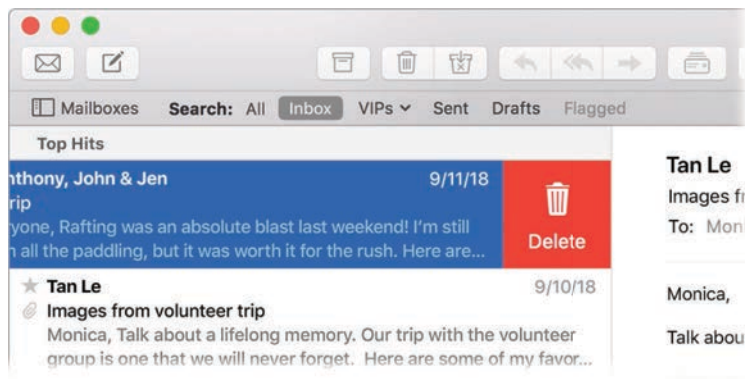
View in full screen. When you're using Mail in full screen, windows for new messages automatically open in Split View on the right, so it's easy to reference another message in your inbox as you write.



Never miss an email. Check the Mail icon in the Dock to see a count of unread emails. When you get a new email, a notification also appears at the top-right of the screen so you can quickly preview incoming messages. (Don't want notifications? You can turn them off: Click the System Preferences icon  in the Dock, then click Notifications.)



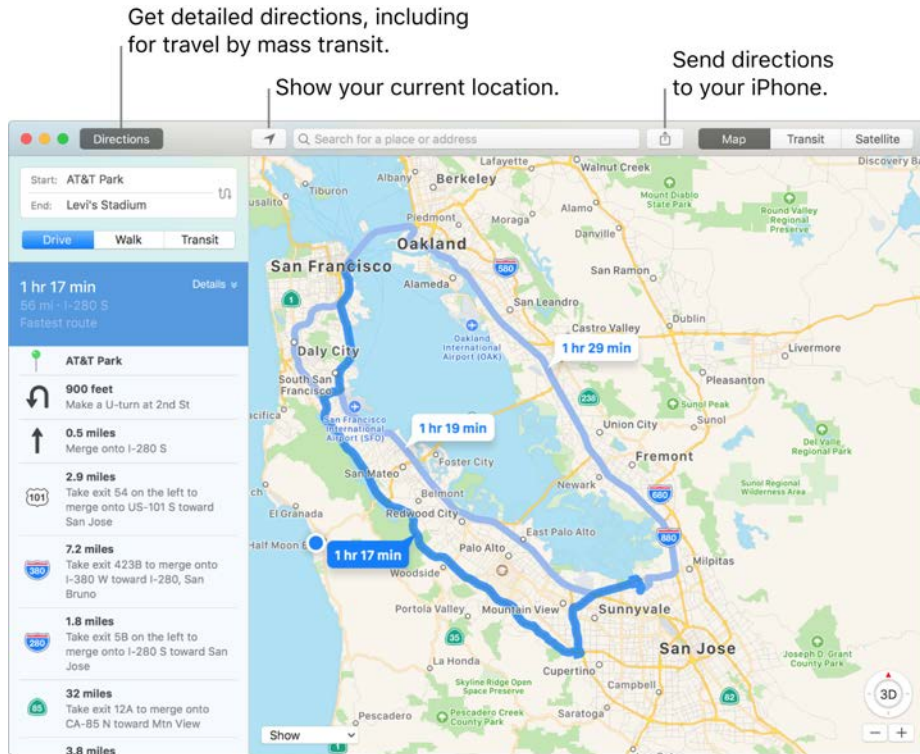
 **Tip:** To quickly delete a message in your inbox, swipe left on the message with one finger on your Magic Mouse 2, then click Delete. Or swipe right to mark the email as Unread.



Learn more. To learn more about Mail, see the [Mail User Guide](#).

Maps

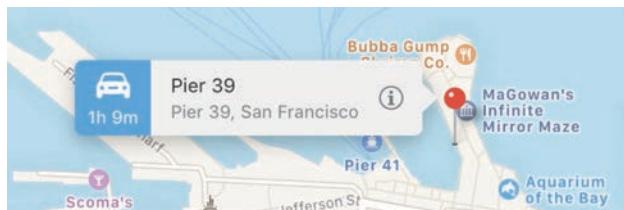
Get directions and view locations using standard or satellite imagery. Or use Flyover to view select cities in 3D.



Let iPhone show you the way. Click Directions to find the best route to your destination, then click the Share button  to send the directions to your iPhone for turn-by-turn voice navigation.

Get there on public transit. Maps provides public transit information for select cities. Click Transit, then click a destination to get suggested travel routes and estimated travel time.

More than just maps. For local points of interest such as hotels and restaurants, Maps shows you phone numbers, photos, and even reviews.



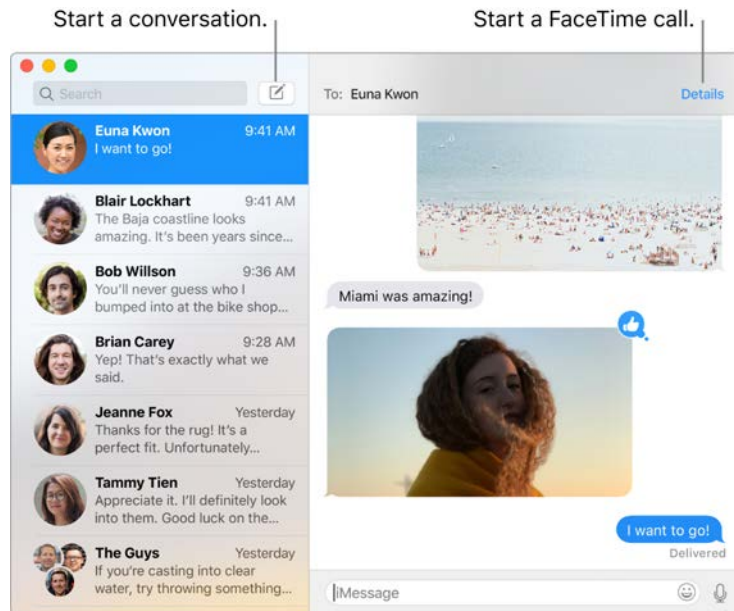
WARNING: For important information about navigation and avoiding distractions that could lead to dangerous situations, see [Important safety information](#).

 **Tip:** To check traffic, click the Show pop-up menu in the bottom left of the map, then choose Show Traffic.

Learn more. To learn more about Maps, see the [Maps User Guide](#).

Messages

It's easy to stay in touch, with Messages. Connect with one or more people through text, audio, or video. And if you want to share files, you can do that too. (Requires an external microphone. Accessories are sold separately at apple.com or your local Apple Store.)

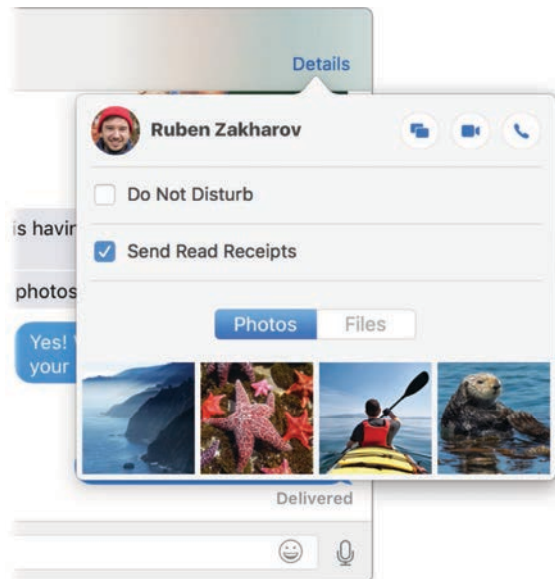


Sign in and send. Sign in with your Apple ID to exchange unlimited iMessage texts—including text, photos, Live Photos, video, and more—with anyone with a Mac, iPhone, iPad, iPod touch, or Apple Watch.

Tip: You can also send and receive SMS and MMS messages on your Mac, so from your Mac you can text friends who have an iPhone, if your iPhone (with iOS 8.1 or later) is signed in to Messages with the same Apple ID. On your iPhone, go to Settings > Messages, tap Text Message Forwarding, then tap the name of your Mac to turn on Text Message Forwarding. On your Mac, you'll see an activation code. Enter this on your iPhone, then tap Allow.

Make messages fun. Liven up discussions by responding to messages with large emoji or Tapbacks. To add a Tapback, click and hold a message, then choose a Tapback. And look out for stickers, Digital Touch, invisible ink, and handwritten messages that your friends send you from their iOS device or Apple Watch.

When a text isn't enough. If your friend has FaceTime, you can start a FaceTime video or audio chat right from a conversation in Messages. Just click Details in the message window, then click the Video button  or Audio button .



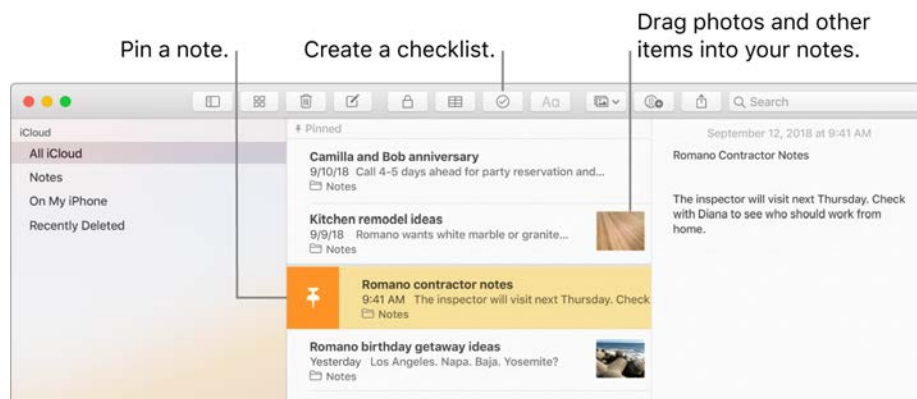
Share your screen. You can share your screen with a friend—and vice versa—and even open folders, create documents, and copy files by dragging them to the desktop on the shared screen. Click Details, then click the Screen Share button .

Learn more. To learn more about Messages, see the [Messages User Guide](#).

Notes

Notes are more than just text. Add a checklist, and check off items as you complete them. Or add photos, videos, and content from other apps, such as web links from Safari or a location from Maps.

Check off tasks. Click the Checklist button  to add an interactive checklist to a note—perfect for completing a to-do list or working through a recipe.





Tip: When you're signed in to iCloud, your notes are kept up to date on all your devices—so you can create a to-do list on your Mac, then check items off on your iPhone while you're on the go.

Add photos, videos, and more. Choose Window > Photo Browser to add items from your Photos library to a note. Or drag a photo, video, PDF, or other document from the desktop.

Add a table. Click the Table button  to add a table to your note. You can even copy a table from a website or another app and paste it into your note.

Put a pin in it. To keep a note at the top of the notes list, swipe right on the note in the notes list and click .

Share a note. You can invite people to view and edit your notes by sharing them. Click the Add People button  and select a method for sending the link.

Lock a note. You can lock a note with a password to make sure that only those who know the password can see the note. To lock a note with a password, choose Notes > Preferences and click Set Password. Then select the note you want to lock, and choose File > Lock This Note.

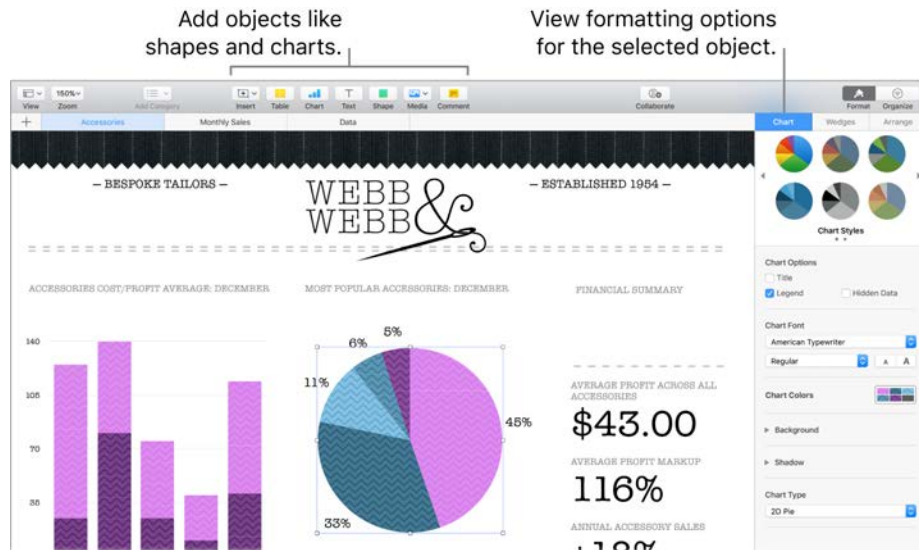
Learn more. To learn more about Notes, see the [Notes User Guide](#).



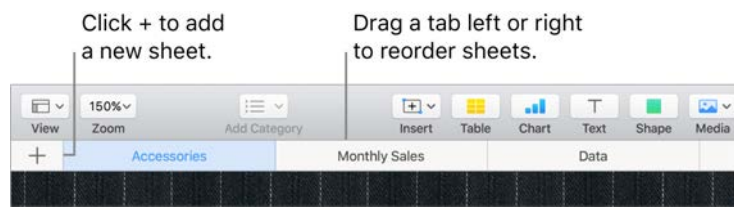
Numbers

Use Numbers to create attractive and powerful spreadsheets on your Mac. More than 30 Apple-designed templates give you a head start creating budgets, invoices, team rosters, and more. Numbers can also open and export Microsoft Excel spreadsheets.

Start with a template—then add what you want. Select the sample text in the template, then type new text. To add images, drag a graphic file from your Mac onto the placeholder image.



Get organized with sheets. Use multiple sheets or tabs to show different views of your information. For example, use one sheet for your budget, another for a table, and a third for notes. Click **+** to add a new sheet. Drag a tab left or right to reorder sheets.



Formulas are a snap. Get built-in help for more than 250 powerful functions—just type the equal sign (=) in a cell, and you see a list of all the functions and their descriptions in the sidebar. Start typing a formula to get instant suggestions.

Tip: To get instant calculations on a series of values, select the range of cells containing the values, then look down at the bottom of the window. You'll see the sum, average, minimum, maximum, and count of the selected values. Click the Settings button to see even more options.

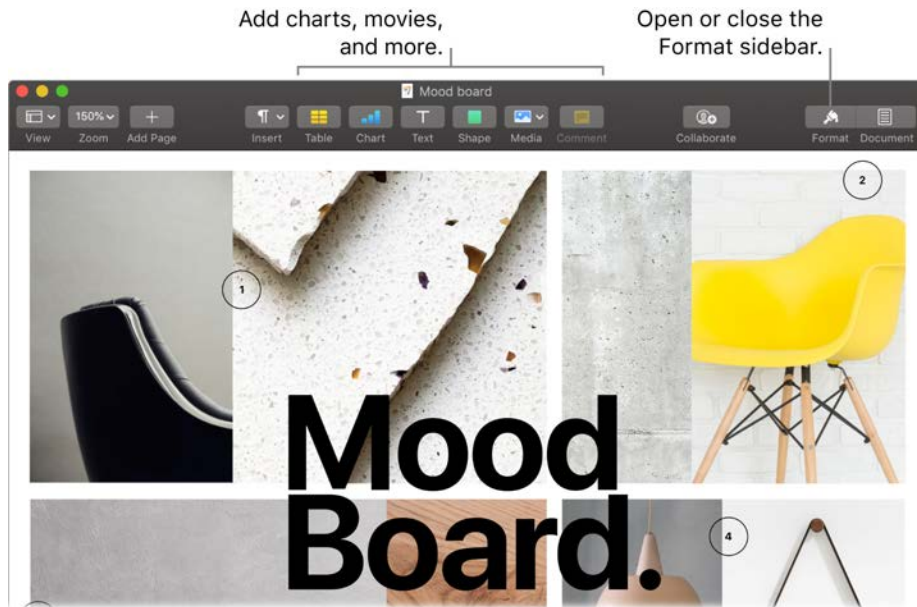
Learn more. To learn more about Numbers, see [Numbers Support](#).



Pages

Use the Pages app to create stunning media-rich documents on your Mac. Open and edit Microsoft Word files, and easily share a link to your work with Mail or Messages, right from the toolbar.

Look good! Pages includes a variety of beautiful templates for flyers, newsletters, reports, and résumés, among others, making it easy to start your project.



All your formatting tools, in one place. Click the Format button  in the toolbar to open the Format inspector. Select something in your document, and the formatting options for it appear.

Flow text around graphics. When you add an image to a text document, the text flows automatically around the image. You can fine-tune how the text wraps in the Format sidebar.



Move a graphic into a text block...



...and the text wraps around the graphic automatically.

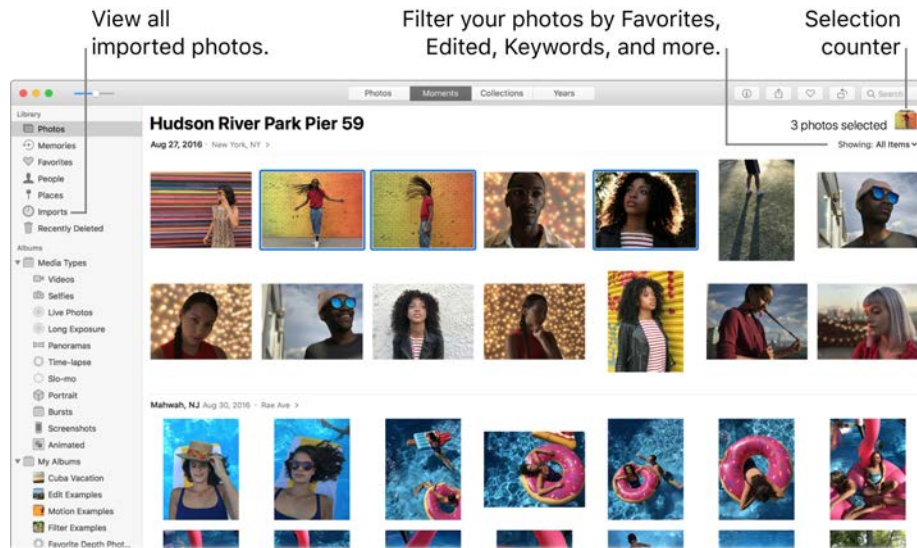
Start on your Mac, finish on iPad. You can keep documents up to date across all your devices when you sign in to iCloud with the same Apple ID. So you can start composing on one device, and pick up where you left off on another.

 **Tip:** Turn on change tracking to see the changes you and others make to a document. Each person's edits and comments are color-coded, so you can see who made the change. Choose Edit > Turn on Tracking to show the change tracking toolbar.

Learn more. To learn more about Pages, see [Pages Support](#).

Photos

Use Photos and iCloud Photos to organize, edit, and share your photos and videos, and keep your entire photo library up to date on all your devices. With Photos, it's easy to organize albums, find just the photo that you're looking for, and make beautiful slideshows and photo gifts.



Get organized. The toolbar in Photos now lets you access all Photos, Moments, Collections, or Years with one click, and you can customize the sidebar by dragging and dropping sections and albums. Select multiple photos at once and click to batch rotate them, mark them all as Favorites by clicking , or use the selection counter to drag and drop the selected photos into a new album.

Relive meaningful moments. Click Memories to see favorite and forgotten occasions from your photo library. Memories automatically creates photo collections from events, like a wedding or family vacation, or from themes, like pets and babies.

People and Places. The People feature automatically organizes your photo library by people in your photos, based on how often each person appears in your library. Make someone a favorite by clicking the Favorite button that appears on their photo, and they'll always appear at the top of the album. Use the Places album to view all your photos with location data on an interactive map. Zoom in on the map to reveal more photos from a specific location.

Tip: You can add location info to any photo. While viewing the photo, click the Info button , click Assign a Location, then start typing. Choose your location from the list, or type it and then press Return.

Find the perfect shot. Search your photos based on what's in them, the date they were taken, people you've named in them, and their location if provided. Photos identifies objects, scenes, and people, so you don't have to use keywords to tag each photo.

Edit like never before. Use editing tools to adjust light and color, apply filters, crop, retouch, and more, all easily accessible by clicking Edit while viewing any photo. For more advanced editing, try the Levels tool to adjust highlights and shadows, or Curves to make fine-tuned contrast adjustments. As you make changes, click the Compare button  to quickly toggle between the unedited and edited versions. You can use some third-party apps directly within Photos, which makes it even easier to work on your photo-related projects.



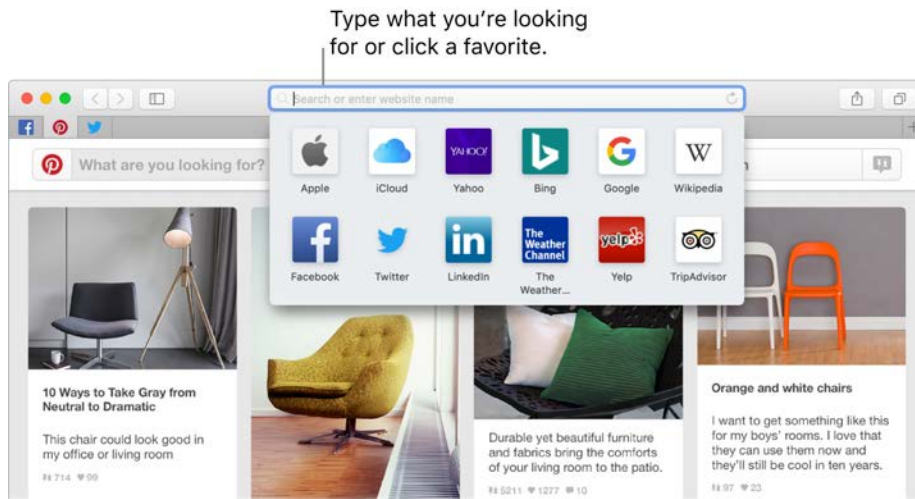
Get lively. With Live Photos, use the new Loop effect to continuously loop the action, or use Bounce to play the animation forward and backward. You can also use Long Exposure to blur motion in your Live Photos.

Learn more. To learn more about Photos, see the [Photos User Guide](#).

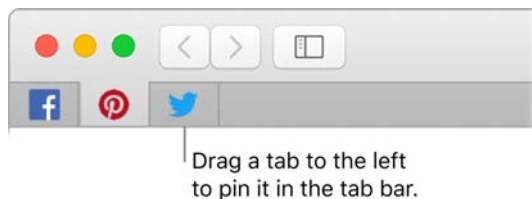
Safari

Safari is the fastest and most efficient way to surf the web on your Mac.

Start searching. Click the Smart Search field at the top of the window to see websites you've added as favorites. Or start typing a word or website address—Safari shows you matching websites, as well as Safari Suggestions from the Internet, iTunes, the App Store, movie showtimes, nearby locations, and more.



View multiple websites in one window. Click **+** at the far right of the tab bar or press Command-T to open a new tab, then enter an address. To keep a website handy, drag its tab left to *pin* it, and it stays in the tab bar.



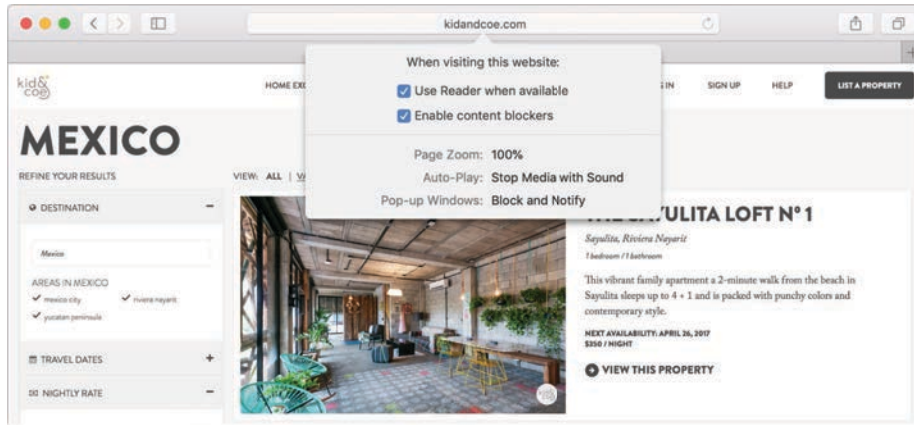
See what's open on all your devices. You can see open webpages on all your devices that are signed in to the same iCloud account. Just click the Show All Tabs button  at the top of the window and scroll down if necessary.

Browse the web safely and privately. Safari warns you when you visit a website that's not secure, or that may be trying to trick you into sharing your personal data. Safari also protects you automatically from cross-site tracking, by identifying and removing the data that trackers leave behind. Safari asks your permission before allowing a social network to see what you're doing on third-party sites. For example, if you click a Facebook button to share an article to Facebook, Safari asks if you want to let Facebook see your activity on the site. And Safari defends you against web tracking by making your Mac harder to identify uniquely.

When you sign up for a new account on the web, Safari automatically creates and autofills a new strong password for you. If you choose Use Strong Password, the password is saved to your iCloud Keychain and will autofill on all the devices you log in to with the same iCloud account. You can ask Siri to show you your saved passwords, which you can see after entering the authentication password for your Mac, or go to Safari > Preferences and then click Passwords. Reused passwords are flagged in the passwords list, so you can easily replace them with strong passwords.

Note: Siri may not be available in all languages or in all areas, and features may vary by area.

Set up preferences for your favorite sites. If you often adjust settings for certain websites, you can use Safari preferences to save those settings. You can turn on your content blocker, enable Reader mode, allow notifications, set a specific page zoom, and more—just for the websites you choose. When you're visiting a website, choose Safari > Settings for This Website, or secondary click (that is, right-click) on the URL in the Smart Search field.



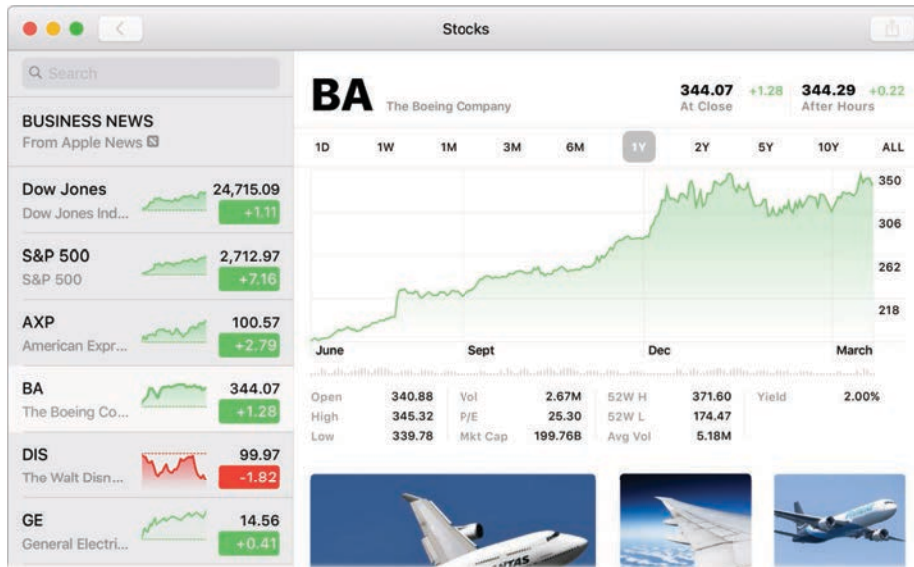
Shop with Apple Pay. When you're shopping online on a supported website, click the Apple Pay button to make a purchase. To complete the transaction, use Touch ID or the passcode on your iPhone, or double-click the side button on your unlocked Apple Watch.

Learn more. To learn more about Safari, see the [Safari User Guide](#).



Stocks

The Stocks app is the best way to track the market on your Mac. View prices in the custom watchlist, click a stock to see more details and an interactive chart, and read about what's driving the market, with stories from Apple News.



Note: Apple News stories and Top Stories are available in the U.S., UK, and Australia. News stories in other countries are provided by Yahoo.

Customize your watchlist. Click the edit button at the bottom of the list to customize stocks, indexes, currencies, and more. While viewing your watchlist, click the green or red button below each price to cycle between price change, percentage change, and market capitalization. The watchlist also includes color-coded sparklines that track performance throughout the day.

Read articles related to the companies you follow. Click a stock in your watchlist to see an interactive chart and additional details, and read the latest news about that company.

Get a deeper view. Want to see what the market was doing last week, last month, or last year? Click the buttons above the chart to switch timeframes and see prices in the view you like best.

Your watchlist on all of your devices. Keep your watchlist consistent across all your devices when you sign in to iCloud with the same Apple ID.

Learn more. To learn more about Stocks, see the [Stocks User Guide](#).

 **Tip:** Click the Top Stories section in the watchlist to see a collection of timely business articles, curated by Apple News editors.

Voice Memos

Voice Memos makes it easier than ever to capture personal reminders, class lectures, and even interviews or song ideas. With iCloud, you can access the voice memos you record with your iPhone, right on your Mac mini.



Record from your Mac mini. To record, click the red button. To stop recording, click Done. Name your recordings to keep them organized by typing in the name field. Play back your recording by clicking the play button.

Your voice memos across all your devices. Your voice memos are available on all of your devices when you sign in to iCloud with the same Apple ID. You can access recordings you made with your iPhone or iPad right from your Mac.

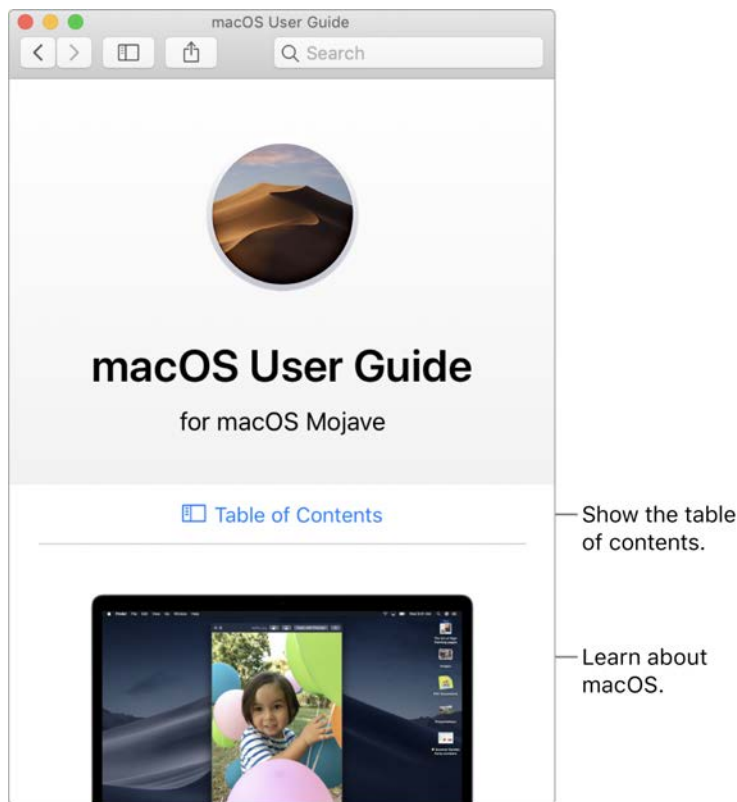
Learn more. To learn more about Voice Memos, see the [Voice Memos User Guide](#).

Find answers

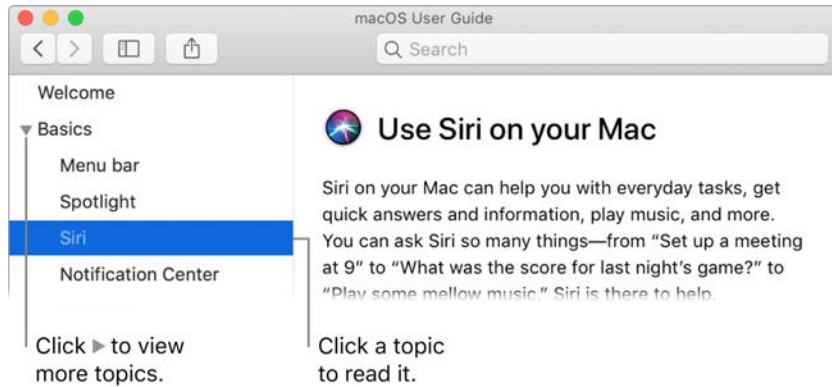
macOS User Guide

The macOS User Guide has a lot more information about how to use your Mac mini.

Get help. Click the Finder icon  in the Dock, then click the Help menu in the menu bar and choose macOS Help to open the macOS User Guide. Or type a question or term in the search field, then choose a topic from the results list.

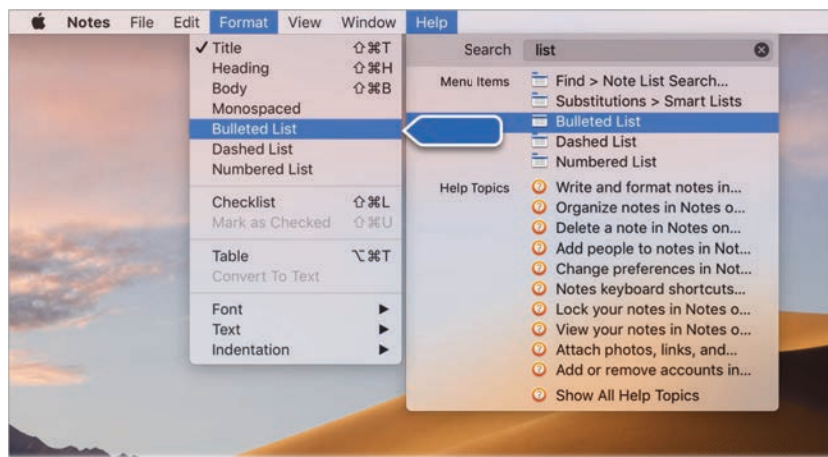


Explore topics. To find a topic in the macOS User Guide, you can browse or search. To browse, click “Table of Contents” to see the list of topics, then click a topic to read it. Or type what you want to find in the search field to go right to your answer.



Find out what's new. Click the Help menu, then choose What's New in macOS to find out more about the latest features of macOS.

 **Tip:** If you can't remember the location of a menu item in an app, search for it in Help. Place the pointer over the result, and an arrow shows you the command.



Common questions

How do I get support for my Mac mini? Go to [Mac mini support](#).

Where's my serial number? Choose Apple menu  > About This Mac. The serial number is the last item in the list. You can find the serial number on the bottom of Mac mini. See the Apple Support article [Mac mini: How to find the serial number](#).

How do I get help for an app? When you're using the app, click the Help menu in the menu bar at the top of the screen.

Where is the safety information for my Mac mini? See [Important safety information](#).

How do I find the technical specifications? Go to [Mac mini specs](#), or choose Apple menu  > About This Mac and click the buttons at the top.

How do I check my disk for problems? Use Disk Utility. See the Apple Support article [Using Disk Utility to verify or repair disks](#).

Keyboard shortcuts

You can press key combinations to do things on your Mac mini that you'd normally do with a trackpad, mouse, or other device. Here's a list of commonly used keyboard shortcuts.

Shortcut	Description
Command-X	Cut the selected item and copy it to the Clipboard.
Command-C	Copy the selected item to the Clipboard.
Command-V	Paste the contents of the Clipboard into the current document or app.
Command-Z	Undo the previous command. Press Command-Shift-Z to redo.
Command-A	Select all items.
Command-F	Open a Find window, or find items in a document.
Command-G	Find the next occurrence of the item you're searching for. Press Command-Shift-G to find the previous occurrence.
Command-H	Hide the windows of the front app. Press Command-Option-H to view the front app but hide all other apps.
Command-M	Minimize the front window to the Dock. Press Command-Option-M to minimize all windows of the front app.
Command-N	Open a new document or window.
Command-O	Open the selected item, or open a dialog to select a file to open.
Command-P	Print the current document.
Command-S	Save the current document.
Command-W	Close the front window. Press Command-Option-W to close all windows of the app.
Command-Q	Quit the current app.
Command-Option-Esc	Choose an app to force quit.
Command-Tab	Switch to the next most recently used app among your open apps.
Command-Shift-5	Open the Screenshot app and then: - Press Command-Shift-3 to take a screenshot of the entire screen. - Press Command-Shift-4 to take a screenshot of a selected area of the screen.

If you switched to the Mac from a PC, go to [Mac tips for Windows switchers](#) for a list of Mac keyboard shortcuts and the differences between Mac and Windows keyboards. For a more complete list of keyboard shortcuts, see the Apple Support article [Mac keyboard shortcuts](#).

More resources, service, and support

You can find more information about your in System Report, Apple Diagnostics, and through online resources.

System Report. To get information about your , use System Report. It shows you what hardware and software is installed, the serial number and operating system version, how much memory is installed, and more. To open System Report, choose Apple menu  > About This Mac, then click System Report.

Apple Diagnostics. You can use Apple Diagnostics to help determine if there's a problem with one of the computer's components, such as the memory or processor. Apple Diagnostics helps to identify the potential source of a hardware issue and provides first steps to try and resolve it. Apple Diagnostics will also help you get in touch with Apple Support if you need more help.

Before using Apple Diagnostics, disconnect any external devices, such as a hard disk or external display. Be sure your is connected to the Internet.

To start Apple Diagnostics, restart your and hold down the D key as it starts up. If prompted, select the language for your location. Press the Return key or click the right arrow button. The basic Apple Diagnostics test takes a few minutes to complete. If issues are found, a description of the issue appears with additional instructions. Make a note of any reference codes before you exit Apple Diagnostics.

Online resources. For online service and support information, go to [Welcome to Apple Support](#). You can learn about Apple products, view online manuals, and check for software updates. Connect with other Apple users, and get service, support, and professional advice from Apple.

AppleCare support. If you need assistance, AppleCare representatives can help you with installing and opening apps, and with troubleshooting. Call the support center number nearest you (the first 90 days are complimentary). Have the purchase date and your serial number ready when you call.

A complete list of support telephone numbers is available on the web at [Contact Apple for support and service](#). Telephone numbers are subject to change, and local and national telephone rates may apply.

Your 90 days of complimentary telephone support begins on the date of purchase.

Safety, handling, and regulatory information

Important safety information

 **WARNING:** Failure to follow these safety instructions could result in fire, electric shock, or other injuries, or damage to your Mac mini or other property. Read all safety information below before using your Mac mini.

Handling. Set up your Mac mini on a hard, stable work surface that allows for adequate air circulation under and around the computer. Never push objects into the ventilation openings. Your Mac mini can be damaged if dropped, burned, punctured, or crushed, or if it comes in contact with liquids, oils, and lotions. Don't use a damaged Mac mini, such as one with a cracked screen, as it may cause injury.

Liquid exposure. Keep your Mac mini away from sources of liquid, such as drinks, oils, lotions, washbasins, bathtubs, shower stalls, and so on. Protect your Mac mini from dampness, humidity, or wet weather, such as rain, snow, and fog.

Power. Unplug the power cord (by pulling the plug, not the cord) and disconnect all cables if any of the following conditions exist:

- The power cord or plug becomes frayed or otherwise damaged.
- You spill something into the case.
- Your Mac mini is exposed to rain or excess moisture.
- Your Mac mini has been dropped, or the case has been damaged.
- You suspect that your Mac mini needs service or repair.
- You want to clean the case (use only the recommended procedure, described later in this document).

Important: The only way to turn off power completely is to unplug the power cord. Make sure at least one end of the power cord is within easy reach so that you can unplug your Mac mini when you need to.

Power specifications:

- *Voltage:* 100 to 240 V AC

- *Current:* 2 A, maximum
- *Frequency:* 50 to 60 Hz

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. Use only compatible earbuds, headphones, or earpieces with your Mac mini. Turn on the audio and check the volume before inserting anything into your ear. For more information about hearing loss, go to [Sound and Hearing](#).

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

Repairing. Your Mac mini doesn't have any user-serviceable parts. Do not open or disassemble Mac mini or attempt to repair it or replace any components. Disassembling your Mac mini may damage it or may cause injury to you. If your Mac mini needs service, is damaged, malfunctions, or comes in contact with liquid, contact Apple or an Apple-authorized repair center, such as an Apple Authorized Service Provider. If you attempt to open your Mac mini, you risk damaging your computer, and such damage isn't covered by the limited warranty on your Mac mini.

Navigation. Maps, directions, 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, or location-based information that may be unavailable, inaccurate, or incomplete. Compare the location-based information provided to your surroundings and defer to posted signs to resolve any discrepancies. Do not use these services while performing activities that require your full attention. Always comply with posted signs and the applicable laws and regulations in the areas where you are using navigation, and always use common sense.

Medical device interference. Mac mini contains components and radios that emit electromagnetic fields. These electromagnetic fields may interfere with medical devices, such as pacemakers and defibrillators. Consult your physician and medical device manufacturer for information specific to your medical device and whether you need to maintain a safe distance of separation between your medical device and Mac mini. If you suspect Mac mini is interfering with your medical device, stop using Mac mini.

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

Repetitive motion. When you perform repetitive activities such as typing or playing games on Mac mini, you may experience discomfort in your hands, arms, wrists, shoulders, neck, or other parts of your body. If you experience discomfort, stop using Mac mini and consult a physician.

High-consequence activities. Mac mini is not intended for use where the failure of the computer could lead to death, personal injury, or severe environmental damage.

Explosive and other atmospheric conditions. Using Mac mini in any area with a potentially explosive atmosphere may be hazardous—particularly in areas where the air contains high levels of flammable chemicals, vapors, or particles such as grain, dust, or metal powders. Exposing Mac mini to environments having high concentrations of industrial chemicals, including near evaporating liquified gasses such as helium, may damage or impair Mac mini functionality. Obey all signs and instructions.

Important handling information

Operating environment. Operating your Mac mini outside these ranges may affect performance:

- *Operating temperature:* 50° to 95° F (10° to 35° C)
- *Storage temperature:* -4° to 113° F (-25° to 45° C)
- *Relative humidity:* 5% to 90% (noncondensing)
- *Operating altitude:* Tested up to 16,404 feet (0 to 5000 meters)

Do not operate your Mac mini in areas with significant amounts of airborne dust, or smoke from cigarettes, cigars, ashtrays, stoves, or fireplaces, or near an ultrasonic humidifier using unfiltered tap water. Tiny airborne particles produced by smoking, cooking, burning, or using an ultrasonic humidifier with unfiltered water may, in rare instances, enter the ventilation openings of your Mac mini and, under certain conditions, result in a slight haze on the inside surface of the glass panel that covers the Mac mini display.

Carrying your Mac mini. Before you lift or reposition your Mac mini, shut it down and disconnect all cables and cords. To lift your Mac mini, hold its sides.

Using connectors and ports. Never force a connector into a port. When connecting a device, make sure the port is free of debris, that the connector matches the port, and that you have positioned the connector correctly in relation to the port.

Storing your Mac mini. If you are going to store your Mac mini for an extended period of time, keep it in a cool location (ideally, 71° F or 22° C).

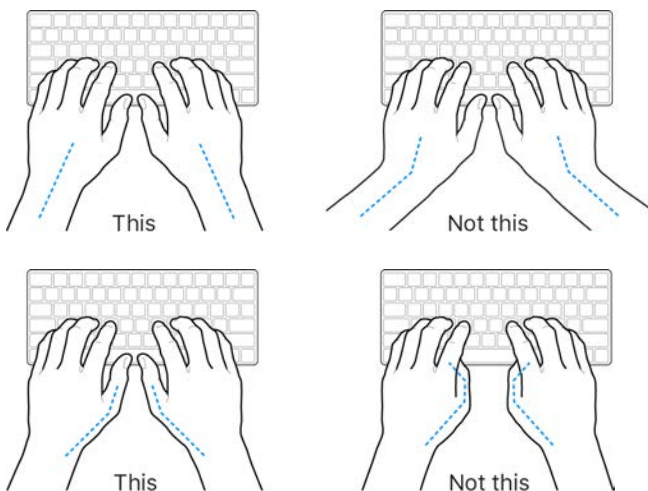
Cleaning your Mac mini. When cleaning the outside of your Mac mini and its components, first shut down your Mac mini, then unplug all cords and cables. Then dampen a clean, soft, lint-free cloth to wipe the Mac mini exterior. Avoid getting moisture in any openings. Don't spray liquid directly on the computer. Don't use aerosol sprays, solvents, abrasives, or cleaners containing hydrogen peroxide that might damage the finish.

Cleaning the display. To clean the display, first shut down your Mac mini, then unplug all cords and cables. Follow the cleaning instructions that came with the display.

Accessories such as Magic Mouse 2, Magic Trackpad 2, Magic Keyboard, and displays are sold separately at apple.com or your local Apple Store.

Understanding ergonomics

When you use the keyboard and mouse, your shoulders should be relaxed. Your upper arm and forearm should form an angle that is slightly greater than a right angle, with your wrist and hand in roughly a straight line.



Change hand positions often to avoid fatigue. Some computer users might develop discomfort in their hands, wrists, or arms after intensive work without breaks. If you begin to develop chronic pain or discomfort in your hands, wrists, or arms, consult a qualified health specialist.

Mouse or optional trackpad. Position the mouse or trackpad at the same height as the keyboard and within a comfortable reach.

Chair. An adjustable chair that provides firm, comfortable support is best. Adjust the height of the chair so your thighs are horizontal and your feet are flat on the floor. The back of the chair should support your lower back (lumbar region). Follow the manufacturer's instructions for adjusting the backrest to fit your body properly.

Display. Arrange the display so that the top of the screen is slightly below eye level when you're sitting at the keyboard. The best distance from your eyes to the screen is up to you, although most people seem to prefer 18 to 28 inches (45 to 70 cm).

Position the display to minimize glare and reflections from overhead lights and windows. The stand lets you set the display at the best angle for viewing, helping to reduce or eliminate glare from lighting sources you can't move.

For more information about ergonomics, go to [Ergonomics](#).

Regulatory information

Regulatory information, certification, and compliance marks specific to Mac mini are available on-device. Choose Apple menu  > About This Mac > Support > Regulatory Certification.

FCC regulatory compliance

This device complies with part 15 of the FCC Rules. Operation is subject to the following two conditions: (1) This device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation.

Note: This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses, and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- Reorient or relocate the receiving antenna.

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

Important: Changes or modifications to this product not authorized by Apple could void the electromagnetic compatibility (EMC) and wireless compliance and negate your authority to operate the product.

This product has demonstrated EMC compliance under conditions that included the use of compliant peripheral devices and shielded cables (including Ethernet network cables) between system components. It is important that you use compliant peripheral devices and shielded cables between system components to reduce the possibility of causing interference to radios, television sets, and other electronic devices.

If necessary, contact Apple or take your Mac mini to an Apple-authorized repair center, such as an Apple Authorized Service Provider. Or consult an experienced radio/television technician for additional suggestions.

Exposure to radio frequency energy

The radiated output power of this device meets the limits of FCC/IC radio frequency exposure limits. This device should be operated with a minimum separation distance of 20 cm (8 inches) between the equipment and a person's body.

Responsible party (contact for FCC matters only):

Apple Inc.

One Apple Park Way, MS 911-AHW

Cupertino, CA 95014

USA

www.apple.com/contact

ISED Canada regulatory compliance

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

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

Exposure to radio frequency energy

The radiated output power of this device meets the limits of FCC/IC radio frequency exposure limits. This device should be operated with a minimum separation distance of 20 cm (8 inches) between the equipment and a person's body.

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

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

L'exposition à l'énergie radiofréquence

La puissance de sortie rayonné de cet appareil est conforme aux limites de la FCC/IC limites d'exposition aux fréquences radio. Cet appareil doit être utilisé avec une distance minimale de séparation de 20 cm entre l'appareil et le corps d'une personne.

EU compliance statement

Apple Inc. hereby declares that this wireless device is in compliance with Directive 2014/53/EU.

A copy of the EU Declaration of Conformity is available at [Declarations of Conformity](#). Apple's EU representative is Apple Distribution International, Hollyhill Industrial Estate, Cork, Ireland.



Use Restriction

This device is restricted to indoor use when operating in the 5150 to 5350 MHz frequency range. This restriction applies in: AT, BE, BG, CH, CY, CZ, DE, DK, EE, EL, ES, FI, FR, HR, HU, IE, IS, IT, LI, LT, LU, LV, MT, NL, NO, PL, PT, RO, SE, SI, SK, TR, UK.

Japan VCCI Class B Statement

VCCI クラスB基準

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ENERGY STAR® Compliance Statement



As an ENERGY STAR partner, Apple has determined that standard configurations of this product meet the ENERGY STAR guidelines for energy efficiency. The ENERGY STAR program is a partnership with electronic equipment manufacturers to promote energy-efficient products. Reducing energy consumption of products saves money and helps conserve valuable resources.

Mac mini is shipped with power management enabled with the computer set to sleep after 10 minutes of user inactivity. To wake your computer, click the mouse or press any key on the keyboard. To change this setting, click the System Preferences icon  in the Dock, then click Energy Saver.

Mac mini meets the ENERGY STAR guidelines for energy efficiency. For more information about ENERGY STAR, go to [Energy Star](#).

Apple and the environment

At Apple, we recognize our responsibility to minimize the environmental impacts of our operations and products.

For information, go to Apple's [Environment](#) website.

Disposal and recycling information



This symbol indicates that this product and/or battery should not be disposed of with household waste. When you decide to dispose of this product and/or its battery, do so in accordance with local environmental laws and guidelines.

For information about Apple’s recycling program, recycling collection points, restricted substances, and other environmental initiatives, go to Apple’s [Environment](#) website.

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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.

Software License Agreement

Use of Mac mini constitutes acceptance of the Apple and third-party software license terms found at [Software License Agreements](#).

Apple Inc.

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