



moto g
STYLUS

User Guide

To best view this guide, download a PDF reader app, then open the guide in the app.



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Hot topics

Tip: Take a tour of your phone's great features. Swipe up from the home screen and tap  **Moto** >  > **Tips** > **Take a tour**. Or, tap the floating icon  if it appears on your screen.


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Tip: To view all of these topics on your phone, swipe up from the home screen and tap  **Settings** > **Help**. For FAQs and other phone support, visit www.motorola.com/support.

SAR  To view the SAR and/or PD values for your phone, visit www.motorola.com/sar.

This product meets the applicable national or international RF exposure guidance (SAR guideline) when used normally against your head or, when worn or carried, at a distance of 5 mm from the body. To meet RF exposure guidelines during body-worn operation, the device should be positioned at least this distance away from the body. The SAR guideline includes a considerable safety margin designed to assure the safety of all persons, regardless of age and health.

To view additional information, visit www.motorola.com/rfhealth.

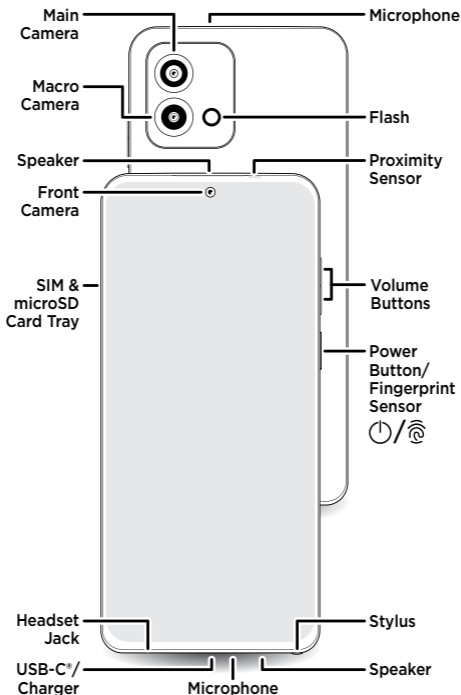
Caution: Before using your phone, please read the legal information. Swipe up from the home screen and tap  **Settings** > **About phone** > **Legal information**.

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First look

Let's get started. We'll guide you through startup and tell you a bit about your phone's features.



Note: Certain apps and features may not be available in all countries.

Power button & fingerprint sensor

Choose from these options:

- » **Power on/off:** Press the Power and Volume Up buttons at the same time, then tap **Power off**. When your phone is off, press and hold the Power button to turn it on.
- » **Sleep/Wake up:** To conserve battery power and prevent accidental touches, put the touchscreen to sleep by pressing the Power button. Press it again to wake it up.
- » **Unlock:** Unlock your phone by tapping the fingerprint sensor. See [Protect your phone](#) to set up the fingerprint sensor.
- » **Restart:** To restart your phone, press the Power and Volume Up buttons at the same time, then tap **Restart**. See [Restart your phone](#).
Tip: If your phone becomes unresponsive, press and hold the Power button until the screen goes dark and your phone restarts.
- » **Google Assistant:** Press and hold the Power button to launch the Google Assistant, then speak a command or ask a question. For more about this feature, see [The Google Assistant™](#).

Note: To add security to your phone, see [Protect your phone](#).

Volume buttons

To turn volume up or down:

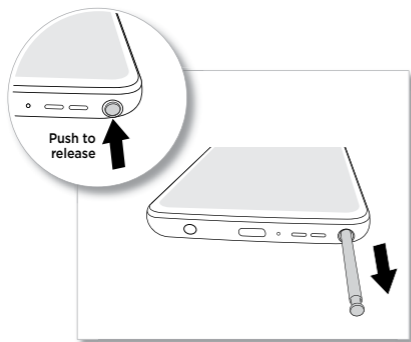
- » **Media volume:** Press the volume buttons when your phone is not ringing, or during a song or video, to adjust media volume.
- » **Call volume:** Press the volume buttons during a call.
- » **Ring volume:** Press a volume button, then tap **•••** and slide the Ring volume bar. Press a volume button when your phone is ringing to silence a call.
- » **Notification volume:** Press a volume button, then tap **•••** and slide the Notification volume bar.
- » **Alarm volume:** Press a volume button, then tap **•••** and slide the Alarm volume bar.
- » **App volume:** To set the volume for an app, see [Set app volume](#).

Tip: Tap **•••** > **Settings** to see all Sound & vibration controls. Or tap **Done**. For more on volume control, see [Volume](#).

Stylus


Navigate apps, take notes, handwritten text, edit screenshots, and more.





- » To remove the stylus, push the stylus inward to release it, then pull it out.
- » To store the stylus, insert it into the slot. Then, push it until it locks in place.



Set up the stylus

See and change stylus default settings.

Find it: Swipe up from the home screen and tap  **Settings** > **Stylus**

- » **Handwrite with a stylus:** You can handwrite text on the screen. To turn this feature off, swipe up from the home screen and tap  **Settings** > **Stylus**, and tap the switch next to **Stylus Writing**. Tap **Stylus Writing** and swipe left on the animation to view the tutorial. For more, see [Handwrite with a stylus](#).
- » **Open Moto Note from locked screen:** To launch **Moto Note** with your screen locked, remove the stylus from the slot. To turn this feature off, swipe up from the home screen and tap  **Settings** > **Stylus** > **When device is locked** > **Don't open anything**.
- » **Customize stylus shortcuts:** The stylus shortcuts show by default when the stylus is removed from an unlocked phone. To add, delete, or change the order of the shortcuts, swipe up from the home screen and tap  **Settings** > **Stylus** > **When device is unlocked**.
Tip: For more, see [Stylus shortcuts](#).
- » **Set a removal reminder:** Set a reminder when the stylus is out for a period of time without use. Swipe up from the home screen and tap  **Settings** > **Stylus**, then tap the switch next to **Stylus out of case** to turn it on. To change when your phone sends the notification, tap **Stylus out of case** and then select **5 minutes**, **10 minutes**, **1 hour**, or **1 day**.
- » **Record time and location of the last time stylus was active:** To record when and where you last used the stylus, swipe up from the home

screen and tap **Settings** > **Stylus**, then tap the switch next to **Last known location** to turn it on.

Tip: Permission required. Tap the recorded coordinates to view the location in **Maps**.

- » **Play a sound while drawing:** You can play a sound when drawing on the screen with your stylus in **Moto Note**. To turn it off, tap **Settings** > **Stylus** > **Sound**.

Note: This feature is only available in drawing mode.

Tip: If your ring volume is muted, you can't hear the sound while drawing. To adjust the ring volume, see **Volume buttons**.

- » **Vibrate when inserted:** To feel a quick vibration when the stylus is in place, swipe up from the home screen and tap **Settings** > **Stylus**, then tap **Vibrate when the stylus is inserted** to turn it on.

Insert the SIM and microSD cards

To activate phone service, you might need to insert a SIM card, or this may have been done for you. You can also add a microSD card, which is optional and sold separately.

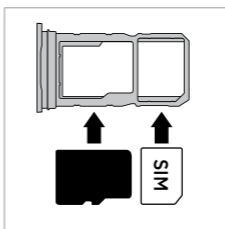
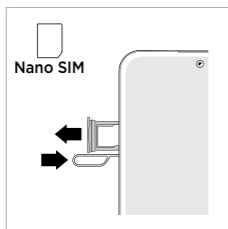
Note: Make sure you use the correct size SIM card and don't cut the SIM card.

- 1 Insert the SIM tool into the SIM tray hole to pop out the tray.

Tip: Refer to the diagram below for tray and hole location.

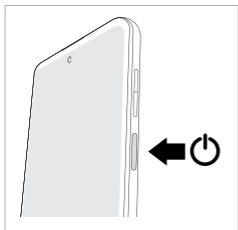
- 2 Insert the SIM card with the gold contacts down, then gently push the tray into the slot.
- 3 Add a microSD card for additional storage.

Note: microSD card is optional, sold separately. 

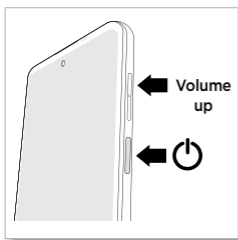


Power on and off

Press and hold the Power button to turn it on, then follow the prompts to get started.



Press the Power and Volume Up buttons at the same time, to turn it off.




Tip: You can adjust settings, if you want to only press and hold the Power button (instead of the Power and Volume Up buttons) to turn off the phone. See [Gestures](#).

Sign in

If you use Gmail™, you already have a Google™ account—if not, you can create an account during set up. Signing into your Google account lets you access, sync, and backup your stuff. You can see your Google apps, contacts, calendar, photos, and more.

To make sure your apps are up-to-date, see [Add and update apps](#).

Tips

- » To add, edit, or delete accounts, swipe up from the home screen and tap  **Settings** > **Passwords & accounts**.
- » To set up email accounts, see [Gmail](#).
- » For help with your Google account, visit www.google.com/accounts.

Connect to Wi-Fi

For faster Internet access and to conserve mobile data use, swipe the status bar down. Tap **Internet**, then choose a Wi-Fi network. For full instructions, see [Connect with Wi-Fi](#).

Note: This phone supports apps and services that may use a lot of data,

so make sure your data plan meets your needs. Contact your service provider for details.

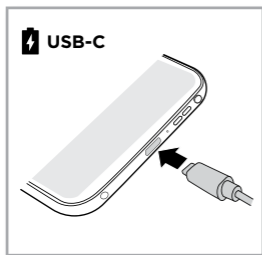
Choose one or more profiles

You can set up more than one profile on your phone, such as Work and Personal profiles, and add apps and features to each profile. For example, you can add business related apps to your Work profile, and keep social media and gaming apps in your Personal profile.

Note: Some apps may have slightly different features depending on which profile it's connected to.

Check your battery charge level

Now is a good time to check if your phone needs to be charged. Swipe down on the home screen to show battery charge level.



Charge your phone using a compatible Motorola charger (may be sold separately). Use of other chargers is not recommended. Insert the charging cable into the charging port (see [First look](#) for port location). Plug the other end into a power receptacle.

Caution: Chargers that do not comply with applicable national standards may be unsafe, with risk of death or injury, and may cause slow charging, product damage, or reduced device performance. To view applicable standards and to learn more, visit www.motorola.com/device-legal.

Copy data from your old phone

During phone set up, you were asked if you wanted to copy data from your old phone to your new phone. If you skipped this you can do it now:

- 1 Make sure both phones are fully charged and turned on.
- 2 On your new phone, swipe down from the home screen. In the notification panel, tap **Android Setup** > **Continue Setup Wizard**, then follow the steps to finish data transfer.






Note: Both phones should be connected to the same Wi-Fi network.


Navigate your phone

Explore by touch

Use the stylus or your fingers to find your way around:

- » **Tap:** Choose an icon or option.


- » **Touch and hold:** See more options.
- » **Drag:** Move items on the home screen.
- » **Swipe:** Scroll through lists or between screens.
- » **Pinch or double-tap:** Zoom in and out on websites, photos, and maps.
- » **Twist:** Twist a map with two fingers to rotate it, and slide two fingers up to tilt it.
- » **Split screen:** Tap , then tap the icon at the top of the screen and tap  **Split top**. Not all apps will work in split screen. To close the split screen, drag the dividing line to the top or bottom of the screen.
- » **Menus:** When you see  or , you can tap it to open options for the current screen.
- » **Close Keyboard:** To close a keyboard, tap .





Tip: To quickly open **Settings**, swipe down twice on the status bar and tap .

System navigation


Navigate using either gestures or buttons on the screen.

Navigation buttons

Find it: Swipe up from the home screen and tap  **Settings** > **Gestures** > **System navigation** > **3-button navigation**

- » **Back:** Tap Back  to go to the previous screen.
- » **Home:** Tap Home  to return to the home screen.
- » **Recents:** Tap Recents  to see your recent apps, and tap an app to reopen it. Double-tap to quickly switch between the recently used two apps. To remove an app from the recent list, swipe it up. To scroll the list, swipe right or left.
- » **Google Assistant:** Touch and hold Home  to launch the Google Assistant. Learn more about [The Google Assistant™](#).

Navigation bar






Find it: Swipe up from the home screen and tap  **Settings** > **Gestures** > **System navigation** > **Gesture navigation**

- » **Go to the home screen:** Swipe up from the bottom of the screen.
- » **See recent apps:** Swipe up from the bottom of the screen and hold. Tap an app to reopen it. Tap the app icon to see app info or split the screen.
- » **Go back a screen:** Swipe toward the middle of the screen from the left or right edge.
- » **Switch between apps:** Swipe left or right on the navigation bar.
- » **Launch the Google Assistant:** Swipe up diagonally from the bottom corner of the screen to launch the Google Assistant. Learn more about [The Google Assistant™](#).

Improve battery life


Your phone processes tons of information. Depending on what apps are in use, your phone may use a lot of power.

When your phone is not in use for a period of time, unnecessary background processes are shut down to optimize battery life.

- » To see what's using up battery power, swipe up from the home screen and tap  **Settings** > **Battery** > **Battery usage**.
- » To help improve battery life, swipe up from the home screen and tap  **Settings** > **Battery** > **Battery Saver**, and tap the switch to turn it on. When on, your phone's display changes to Dark theme.
- » To limit battery use for apps that you don't use often, swipe up from the home screen and tap  **Settings** > **Battery** > **Adaptive Battery**, and turn it on.
- » To charge more efficiently and keep your battery healthy, swipe up from the home screen and tap  **Settings** > **Battery** > **Optimized charging**, and turn it on.
- » To protect your battery from being overcharged, swipe up from the home screen and tap  **Settings** > **Battery** > **Overcharge protection**, and turn it on.
- » To show battery percentage in status bar, swipe up from the home screen and tap **Settings** > **Battery** > **Battery Percentage** to turn it on.

Battery Tips

To save even more battery life between charges, you could reduce:

- » Widgets that stream information to your home screen, like news or weather.
- » Unused accounts: Swipe up from the home screen and tap  **Settings** > **Passwords & accounts**.
- » Recording or streaming videos or music.

Care for your phone

Tips

- » Restart your phone each morning to keep it running optimally.
- » When you're near water, consider using a Bluetooth speaker to listen to music from your phone while keeping it safe. For more, see [Connect with Bluetooth wireless](#).
- » Hold your phone firmly when using gestures to open the camera or to turn the flashlight on/off. For more, see [Gestures](#).
- » Don't leave your phone in a hot car on a sunny day. If you do accidentally do this, let your phone cool off before powering up.

Prevent water damage

Your phone is water and splash resistant, but not completely waterproof. Avoid contacting the phone with water for a long time, and never deliberately immerse the phone in water. Water and splash resistance are not permanent, and the protection performance may continue to decline due to daily use.

Liquid damage is not covered by your warranty.

To prevent water damage to your phone:

- » Dry your phone and ports thoroughly with a soft, clean cloth.
- » Don't try to charge your phone when it's wet.
- » Don't expose your phone to salt water or other liquids other than fresh water.
- » Don't expose your phone to water at high pressure.
- » Don't drop, puncture, or scratch your phone, as this could damage the water repellent features.

Clean your phone

To disinfect your phone:

- » Use wipes or cloths moistened with isopropyl alcohol with a concentration of 70% (specific for electro-electronic products).
- » It is recommended that you turn your phone off to clean it.
- » Avoid moisture in the phone's openings, including the charging port, headset jack, microphones, and speakers.
- » Do not immerse the phone in cleaning agents, and do not use cleaning materials that contain bleach or abrasive agents.
- » Do not use sprays directly on the screen.

Learn the basics

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What's new in Android 13

Your phone has some new features and a few enhancements.

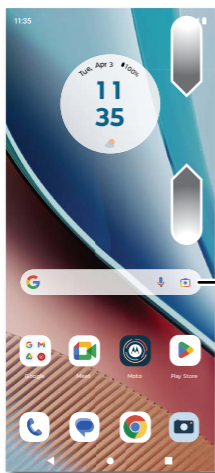
Apps need your permission to send notifications (see [Notifications](#)) and the app language can be changed (see [Change app language](#)). Your media player shows album artwork and a dancing playback bar, on full display. More colors and themed icons let you personalize even more (see [Personalize](#)). A consolidated Security & privacy settings page helps you better protect your device and data (See [Security](#) and [Privacy](#)).

Motorola has increased security, privacy and added [Moto Secure](#) to keep your phone and information safer. Create a safe space on your phone where kids can learn and play with the new [Family Space](#) app. The Moto app adds a sidebar and press and hold the power button to launch the Google Assistant (see [Gestures](#)).

Home screen

The home screen is what you see when you turn on your phone. From here you can explore apps and more.

Note: Software updates may change the look of your home screen.





Swipe down to see notifications and settings.

Swipe up to see all your apps.


Search by typing or tap the microphone and say a command. Tap the camera to search with an image.

Tips

- » **Open app list:** From the home screen, swipe up to see all your apps.
- » **Return home:** To return to the home screen from any location, tap .
- » **Pages:** To add a page, drag an app to the right side of the screen until you see a new page. You can add multiple pages. To see other pages of shortcuts and widgets (if available), swipe the home screen left.
- » **Settings:** To quickly open common settings, swipe the status bar down. To open more settings, swipe the status bar down again and tap .
- » **Customization:** To personalize your home screen and other features, see [Personalize your phone](#).

Help & more

Learn even more about your phone and get support.

Find it: Swipe up from the home screen and tap  **Settings > Help**

Tip: Some apps have their own help that's specific to their features. Just tap the menu inside the app for details.

Search

On the home screen, tap  or  to search by voice or image.

Or, tap the Google Search box for a text search. When you type, suggestions appear below the search field:

» To search for a suggestion, tap it.

» To search for text in the search field, tap  on the keyboard.


Tip: To close the keyboard, tap .

Note: For voice search, see [Speak](#).

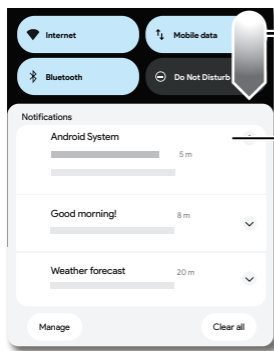
Notifications

At the top of the screen, icons on the left notify you about new messages or events. If you don't know what an icon means, swipe the status bar down for details.

When you install and open an app (see [Add and update apps](#)) you'll be asked if you want to allow the app to send notifications.

Tip: Getting too many notifications? Swipe up from the home screen and tap  **Settings** > **Notifications** > **App Settings**. Tap a switch to turn notifications on/off.

Note: Your screen may look different.



Swipe down to see your notifications.


Tap a notification to open it, or choose an option, such as **Reply**.



Tip: Swipe left or right to remove a notification. Tap the arrow next to a notification to see more.

Tip: To quickly change common settings, swipe the status bar down. For more, see [Quick settings](#).

Bubbles

Easily see and participate in conversations using notification bubbles that float on top of the display.

Find it: Swipe up from the home screen and tap  **Settings** > **Notifications** > **Bubbles**, then tap the switch to turn it on.

Then set up bubbles in an app, like  **Messages**. From the home screen tap  **Messages** > your profile picture > **Messages settings** > **Bubbles** > **All conversations can bubble**, **Selected conversations can bubble**, or **Nothing can bubble**.


To use, tap a bubble to open and reply to a conversation. Drag the bubble around the screen to move it.

Note: Not all apps support this feature.

Smart reply

See suggestions based on notification content. For example, a text with an address may show Google Maps as an option.

To turn off Smart reply, swipe up from the home screen and tap

 **Messages** > your profile picture > **Messages settings** > **Suggestions** > **Smart Reply**.

App notifications

You may see a notification dot on an app. This app notification, or badge, tells you the app has an update or an announcement, such as a new email or a missed call. Touch and hold the app for more information, options, or app shortcuts.







When you install and open an app (see [Add and update apps](#)) you'll be asked if you want to allow the app to send notifications, tap **Allow** or **Don't allow**.

Privacy notifications

You may see a privacy notification green dot in the top right of the screen. This privacy notification, tells you the camera or microphone has been accessed.




To control access to your camera or microphone:

- 1 When you see the privacy notification green dot, swipe down the status bar and tap  or  to see which app is using the camera or microphone.
- 2 To block the app from using the camera or microphone, tap  next to **Camera access** > **Manage permissions** > **Camera** > **Don't allow**, or tap  next to **Mic access** > **Manage permissions** > **Microphone** > **Don't allow**.

Wireless Emergency Alerts (U.S.)


Wireless Emergency Alerts, also known as CMAS or PLAN, is a U.S. national emergency alert system.

Emergency alerts can pop up to tell you about a national or local crisis. After you close an alert, you

can reopen it, swipe up from the home screen and tap >  **Settings** > **Notifications** > **Wireless Emergency alerts**.



Tip: Emergency alerts have a special sound and vibration that is two seconds long, followed by one second, then another one second.











To choose which types of alerts you receive, swipe up from the home screen and tap  **Settings** > **Notifications** > **Wireless Emergency alerts**.

The U.S. and local governments send these alerts through your service provider. So you will always receive alerts for the area where you are, and you won't receive alerts if you're outside of the U.S.

For more, visit www.ctia.org and search "wireless emergency alerts."

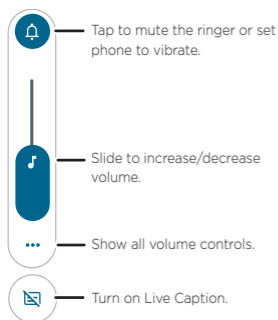
Status icons


Icons at the top right of the screen tell you about phone status:

Status Icons	
 Mobile network strength	 Alarm set
 Wi-Fi in range/connected	 Data Saver on
 Airplane mode	 Battery Saver on
 Do not disturb	 Wi-Fi hotspot on
 Battery charging	 Battery fully charged



Volume

Press the side volume buttons up or down to select a ringer volume and see other controls.



Live Caption  detects speech on your phone and shows you captions. Tap to turn it on. When a caption shows, touch and hold the caption to move it. Double-tap the caption to expand it. For more, see [Live caption](#).

Do not disturb

To turn off some or all sounds, swipe the status bar down, and tap  **Do Not Disturb**. To change **Do Not Disturb** settings, touch and hold  **Do Not Disturb**, then select an option:

- » **People:** Allow some people to interrupt when they call, send a message, or start a conversation.
Tip: Create an exception for repeat callers that allows a call to sound from the same person within a 15 minute period, tap **People** > **Calls** > **Allow repeat callers**.
- » **Apps:** Choose the apps that can interrupt you when **Do Not Disturb** is on.
- » **Alarms & other interruptions:** Choose whether to hear sounds from alarms, media, keypad, reminders, and calendar events.
- » **Schedules:** Set a schedule to turn on **Do Not Disturb** at specific times during the day or night.

Lock screen

Your touchscreen is on when you need it and off when you don't.




Swipe up to unlock your screen.

Add a lock screen message for anyone who finds your phone.

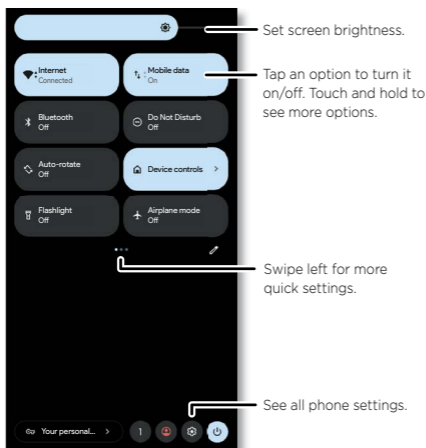
- » **Screen off and on:** Press the Power button to turn the screen off and on.
- » **Screen lock:** To unlock the main lock screen, swipe up from the bottom of the screen. To apply security to the lock screen (recommended), see [Screen lock](#).
- » **Notifications:** Double-tap a notification to open it.
Tip: To prevent notifications from appearing in the lock screen, swipe up from the home screen and tap **Settings > Notifications > Notifications on lock screen > Don't show any notifications**.
- » **Lock screen message:** To add a message to your lock screen, such as your name in case your phone gets lost, swipe up from the home screen and tap **Settings > Display > Lock screen > Add text on lock screen**.
- » **Screen timeout:** To change your screen lock timeout, swipe up from the home screen and tap **Settings > Display > Screen timeout**.

Quick settings

For quick access to handy settings, swipe the status bar or lock screen down. Swipe down again for more settings.

Tap an icon to turn features on or off. Touch and hold an icon to see more options. For even more settings, tap .

Tip: Tap  to rearrange your settings and add or remove settings.




Speak

Google Voice™

Use Google voice commands to tell your phone what you want.


» **Use voice to make a call:** Tap  on the home screen. Then say “Call” and then a contact name or number. Or, say “Send text.”

Tip: If a contact has more than one number, you can say which number to call (for example, “Call Joe Black Mobile”).

» **Search by voice:** Tap  on the home screen to search by voice.

Note: To wake up your phone by saying “Hey Google,” see [The Google Assistant™](#).

Voice to text



On a keyboard, tap  then speak your message or search text. You can also speak punctuation.

The Google Assistant™


Note: This feature may not be available in all languages.

To start the Google Assistant:

» Press and hold the Power button when your phone is powered on.

- » Tap  **Assistant** from the home screen or from your list of apps.
- » Touch and hold , then speak or type a command.


Note: You can also say “Hey Google” or “Ok Google” to start the Google Assistant. To turn this feature on, swipe up from the home screen and tap

 **Settings** > **Google** > **Settings for Google apps** > **Search, Assistant & Voice** > **Voice** > **Voice Match**.

Tip: Start your day with a **Google Assistant Routine**. Hear a morning report, including weather and calendar events. Turn this on in the **Clock** app. For more tips, visit <https://support.google.com/assistant>.

Gestures

Explore special gestures designed to save you time and make your day easier.




Find it: Swipe up from the home screen and tap  **Settings** > **Gestures**

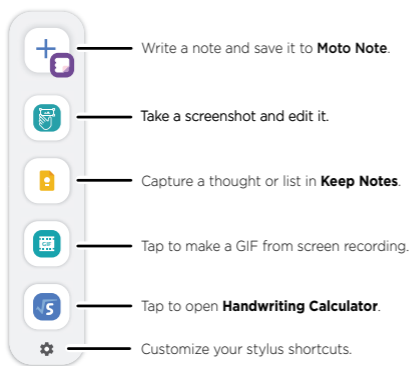
Note: Your phone may not have all features.



- » **Sidebar:** Launch apps in freeform or full-screen windows to enhance multitasking, see [Gestures](#).
- » **System navigation:** Navigate using either gestures or buttons at the bottom of the screen. For more, see [System navigation](#).
- » **One-handed mode:** Swipe down from the bottom edge of the screen to use one-handed shortcuts. Available with gesture navigation only. See [System navigation](#) to change navigation options.
- » **Put display to sleep:** Double tap the home screen or the lock screen to put the touchscreen to sleep.
- » **Wake display:** Tap the screen or move your phone to wake it up.
- » **Three finger screenshot:** Touch and hold the screen with three fingers to take a screenshot.
- » **Swipe to split:** See apps in split screen by swiping back and forth.
- » **Double press power key:** Press the Power button twice to launch the main camera.
- » **Press and hold power button:** If the **Hold for Assistant** switch is on, press and hold the Power button to launch the Google Assistant. If the switch is off, press and hold the Power button to display the power and emergency menu.
- » **Media controls:** Tap the switch to turn it on, then use the volume buttons to change music tracks when the screen is off.
- » **Quick capture:** Twist your wrist twice to open the camera.
- » **Fast flashlight:** Turn the flashlight on/off with two chopping motions.
- » **Lift to unlock:** Lift your phone and look at the screen to unlock it. You'll need to set up face unlock, see [Unlock with your face](#).
- » **Pick up to silence:** Silence the ringer during an incoming call by lifting up the phone.
- » **Flip for DND:** Place the phone face down to silence notifications and calls.


Note: See more details and gestures in [Moto](#).





Stylus shortcuts

When you remove the stylus, the following stylus shortcuts appear. If you don't select a shortcut, the stylus shortcuts minimize. Tap  to expand again. To hide stylus shortcuts, touch and hold , and then drag it to . To show stylus shortcuts again, replace the stylus and then remove it again.






» **Take a note:** Tap  to start writing or drawing in **Moto Note**. Or, swipe up from the home screen and tap  **Moto Note** to create, edit, and share notes.




» **Edit a screenshot:** Tap  to take a screenshot. Then you can edit, share, or delete it. To capture a screenshot, see [Capture your screen](#).

» **Record your screen and save as GIF:** Tap  to make an animated GIF from screen recording. Drag the corners of the recording frame to customize the recording window. Tap  to start recording. Then tap  to stop recording. To view the GIF, swipe up from the home screen and tap  **Photos** > **Library** > **Screenshots**.

Note: While capturing GIFs, the system can capture any sensitive information that's visible on your screen or played on your device. This includes passwords, payment info, photos, messages, and audio.

» **Use Google Keep Notes:** Tap  to capture your thoughts, set reminders, and more. Or, swipe up from the home screen and tap  **Keep Notes**. For more, visit <https://support.google.com/keep>.

» **Use Handwriting Calculator:** Tap  to perform handwritten calculations and get quick results after entering your mathematical expressions or equations. To switch between different calculation formats, tap **DEG**, **DECIMAL**, **RAD**, **FRACTION**, or **MIXED**. You can also edit and delete your formula. For more, see [Handwriting calculator](#).

» **Customize stylus shortcuts:** Tap  to customize your stylus shortcuts. Or, you can also swipe up from the home screen and tap  **Settings** > **Stylus** > **When device is unlocked**. To change the order of the shortcuts, press and hold a shortcut and drag it to a different place. To add a shortcut, tap a feature or an app. To delete a shortcut, tap  at the shortcut icon.

Note: You can add up to 6 shortcuts.

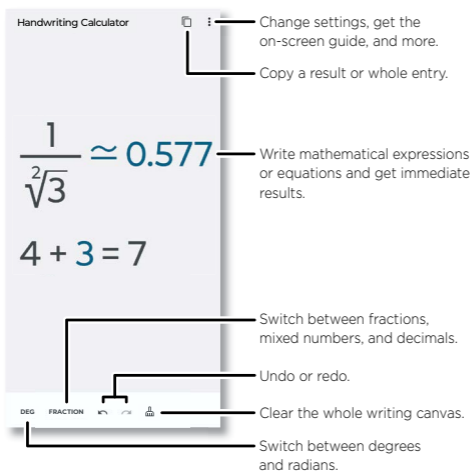
Tip: See also [Stylus](#) and [Explore by touch](#).


Handwriting calculator

Use the stylus or your finger to write mathematical expressions or equations and get immediate results.

Find it: Remove the stylus, and tap  from the Stylus shortcut list

Tip: When the stylus shortcuts are minimized or dimmed, tap  > .






» **Get the guide:** The first time you open the **Handwriting Calculator**, the on-screen guide appears automatically. To see the guide again, tap Menu  > **Guide**.

» **See supported operators:** Tap Menu  > **Operator references**.

» **Write expressions:** Write a mathematical expression and the result will be calculated automatically in real time. You can add additional elements to an existing expression or equation.

Tip: An expression should be written on a single line. To have more space for writing an expression, turn your phone sideways for a landscape view (See [Redecorate your home screen](#)).

» **Solve equations:** Use "?" as an unknown to solve equations. For example, write "4 + ? = 7", and the unknown value will be calculated automatically.

» **Undo, redo or clear:** To undo the last action, tap . To redo the last action you undid, tap . To clear the whole writing canvas, tap .


» **Scratch out:** Scratch out a number, operator, or equation to delete it.

» **Change result formats:** Choose the way results are displayed.


- To switch the calculation results between fractions, mixed numbers,

or decimals, tap **FRACTION, MIXED**, or **DECIMAL** at the bottom.


- To switch angular units between degrees and radians, tap **DEG** or **RAD** at the bottom.


» **Adjust settings:** Tap Menu  > **Settings** to change the number of decimal places, disable or enable using the multiplication dot ".", and more.


- **Number of Decimal places:** The default number of decimal places for results is 3. To change this number, tap **Decimal places** and select a number.



- **Rounding results:** To round results up or down, tap Menu  > **Settings** > **Approximation** > **Rounded**.

- **Multiplication dot:** You can enter multiplication dots in your mathematical expressions or equations. To turn this feature off, tap the switch next to **Multiplication dot**.




- **Automatic calculation:** The result will be displayed automatically after you enter a mathematical expression or equation. To turn this feature off, tap the switch next to **Automatic calculation**. Then you will need to tap  to get the result.

» **Copy, share and paste:** Tap  to turn this feature on, touch and hold an entry, and tap **Copy Results** or **Copy All** to copy a calculation result or whole entry. Then a pop-up window appears at the bottom.

- **Edit on clipboard:** Tap the left icon that shows the content you have copied, then edit the content and tap .

- **Share:** Tap  to share what you have copied via Message, Bluetooth or Gmail, save it to Google Drive, and more. To share via Nearby Share, tap **Nearby**, or tap  on the pop-up window.

Note: To learn about Nearby Share, see [Share files with Nearby Share](#).

- **Paste to Moto Note:** Swipe up from the home screen and tap  **Moto Note** >  > , touch and hold the screen, then tap **Paste**.

Handwrite with a stylus

Use the stylus to write directly into text boxes. Your handwriting will be converted into text.

Note: This feature may not be available in all languages.

» **Handwrite text:** Remove the stylus and tap any text box or app that you can type in. You can then write anywhere on the screen. Your phone converts your handwriting into text and enters it into the text box. See [Set up the stylus](#) to change the stylus settings.



Tip: If you cannot handwrite on the screen, tap next to the entered text in the text box.







» **Edit the text using gestures:**





- Strike through or circle a word, phrase, or line to select the text, then choose **Translate**, **Cut**, **Copy**, **Share**, or **Select all**.
- Draw a vertical line between two characters to separate them. Draw another vertical line to join them together.


- Scratch out a word, phrase, or line to delete it.

» **Edit using the handwriting control bar:**

The handwriting control bar  or  appears when you write text with your stylus.


- : Add a space.
- : Delete a space or character.
- : Add a new line.
- : Open the virtual keyboard.
- : Change the language. Or swipe up from the home screen and tap  **Settings** > **Stylus** > **Stylus Writing** > **Handwriting language**.

Tip: Touch and hold  or  till the handwriting control bar turns into . Drag it around to adjust its position or change the handwriting control bar to horizontal or vertical view. The control bar reappears after you release .

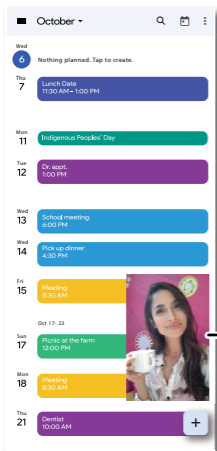
Note: The Live message icon  only appears on the handwriting control bar when you use the stylus to write in a messaging app. For more, see [Live message](#).

Picture-in-Picture

If you're watching a video, on a video call, or using navigation, and you change screens, your video continues to play in a small window on your screen.

- » Tap , to put the video in a small window.
- » Drag the video around your screen.
- » Drag to the bottom of the screen to close it.
- » Tap twice to make it full size again.

Note: Not all apps support this feature.



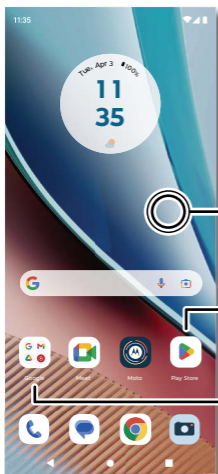
Tap the video twice to return to it.

Personalize your phone

- » [Redecorate your home screen](#)
- » [Add another user](#)
- » [Discover Moto](#)
- » [Digital wellbeing & parental controls](#)

Redecorate your home screen




Customize your home screen the way you want.



Touch and hold an empty spot to change wallpaper.


Tap a shortcut to open.
Touch and hold to move or delete.


Drag shortcuts on top of each other to make a folder.


- » **Change your wallpaper:** Touch and hold an empty spot on the home screen, then tap **Wallpapers**.
- » **Add a home screen page:** Drag an app to the right side of the home screen until a new page appears. You can add multiple pages.
- » **Adjust display settings:** Adjust brightness, font size, and screen saver. Swipe up from the home screen and tap  **Settings** > **Display**.
- » **Switch to dark theme:** Change your display to use dark theme, which saves battery and can be easier on your eyes. Swipe up from the home screen and tap  **Settings** > **Display** > **Dark theme**.
Tip: Tap **Schedule** to set when you want Dark theme to display.
- » **Change your style:** Change your theme, color, font and icon shape. Touch and hold an empty spot and tap **Personalize**.
- » **Rotate:** In many apps, the touchscreen switches from portrait to landscape when you rotate your phone. To turn this on or off, swipe up from the home screen and tap  **Settings** > **Display** > **Auto-rotate screen**.

Note: To see more home screen settings, touch and hold an empty spot and tap **Home settings**.

Choose apps & widgets

- » **Add apps to the home screen:** Swipe up, touch and hold an app, then drag it to one of your home screen pages.
- » **Download new apps:** Tap  **Play Store**. For more on apps, see [App safety](#).
- » **Group apps together:** Drag one app onto another. Do it again to add more apps to the folder. To name the folder, tap it, then tap **Edit Name** and enter a name below the apps.








Tip: To group apps in the app tray, swipe up from the home screen and tap Menu  > **Create folder**. Type a name for the folder, then tap the apps to add to the folder. When finished, tap **Done**.

- » **See app options:** Touch and hold an app. If the app has quick options (shortcuts), you'll see a list.
- » **Add widgets:** Touch and hold an empty spot on the home screen, tap **Widgets**, touch and hold a widget, then drag it to your home screen.
- » **Resize widgets:** You can resize some widgets—touch and hold a widget until you feel a vibration, then release. Drag the white rectangle at the edges to resize.
- » **Move or delete widgets and apps:** Touch and hold a widget or app and drag it to another spot, another page, or to  **Remove**.

Note: Removing an app from your home screen doesn't uninstall the app from your phone.


Customize sounds & appearance

Customize your phone's sounds and display settings:

- » **Listen with Audio effects:** Enhance your phone's sound. For more, see [Play](#).
- » **Set ringtone and notifications:** Swipe up from the home screen and tap  **Settings** > **Sound & vibration**.
Tip: Set notification sounds for individual apps within the app's settings.
- » **Night Light:** Set your screen to turn slightly amber colored at night. Swipe up from the home screen and tap  **Settings** > **Display** > **Night Light**.
- » **Add vibrate for calls:** To make your phone vibrate, swipe up from the home screen and tap  **Settings** > **Sound & vibration** > **Vibration & haptics** and tap **Ring vibration**.
- » **Set a ringtone for a contact:** Swipe up from the home screen and tap  **Contacts**, tap the contact, then tap Menu  > **Set ringtone**.
- » **Change language:** Swipe up from the home screen and tap  **Settings** > **System** > **Languages & input** > **Languages**.
- » **Adjust display and font size:** Swipe up from the home screen and tap  **Settings** > **Display** > **Display size and text**.

Add another user

You can share your phone with others by adding additional users.

Find it: Swipe up from the home screen and tap  **Settings** > **System** > **Multiple users**

Tap the switch to turn on, then add someone as a guest (if using your phone for only a short time), or as a user. Guests and Users can customize the home screen, accounts, apps and other settings without affecting the options you have set. However, a Guest account is easier to remove from your phone.

To switch between users, swipe down from the home screen with two fingers to open Quick Settings. Tap , then tap a user name.


Note: Guests and Users will have access to Bluetooth and most apps. They are not able to access your files, texts, email, photos, music, or your personal data from an app.

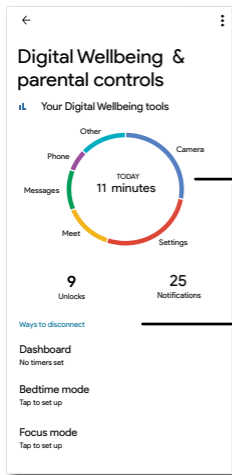
Discover Moto

See [Moto](#) to set more custom features, like making a chopping motion two times to turn on the flashlight, touching and holding the screen with three fingertips to capture the screen, twisting your wrist twice to open the camera quickly, and keeping everything safe with [Moto Secure](#).

Digital wellbeing & parental controls

Set limits on how much time you spend on your phone, get a bedtime reminder, and manage notifications.

Find it: Swipe up from the home screen and tap  **Settings** > **Digital Wellbeing & parental controls**



See a breakdown of how you spend your time on your phone.

Limit your app time, set a bedtime, and more.


To supervise this phone remotely, view and set screen time limits, and add restrictions to services and apps, tap **Set up parental controls**.


Personalize your phone

Apps


- » [Add and update apps](#)
- » [Phone](#)
- » [Messages](#)
- » [Chrome™](#)
- » [Camera](#)
- » [Photos](#)
- » [Gmail](#)
- » [Meet](#)
- » [Moto](#)
- » [Family Space](#)
- » [Moto Note](#)
- » [Calendar](#)
- » [More apps](#)

Add and update apps

Your phone comes ready with some great apps. To find and add more apps, tap  **Play Store**. To learn more, see [App safety](#).


To check that you have the latest version of your apps, swipe up from the home screen and tap  **Play Store**. Tap your profile picture, then tap **Manage apps & device**.


Change app language

You can change the language for some apps. Tap  **Settings** > **System** > **Languages & input** > **App Languages**, then tap the app and select a language.

Note: The app language can be different from your phone's language.

Set app volume

You can change the volume for some apps. Tap  **Settings** > **Sound & vibration** > **Multi-volume**, and turn it on. Then, press a Volume button to set the volume for the app on your screen.



To get your phone to automatically mute apps based on your usage, tap  **Settings** > **Sound & vibration** > **Multi-volume** > **Auto mute**, and turn it on to see the list of muted apps. To unmute an app remove it from the list.



Phone




Keep in touch by choosing a contact, returning a missed call, or using a voice command to start a call.

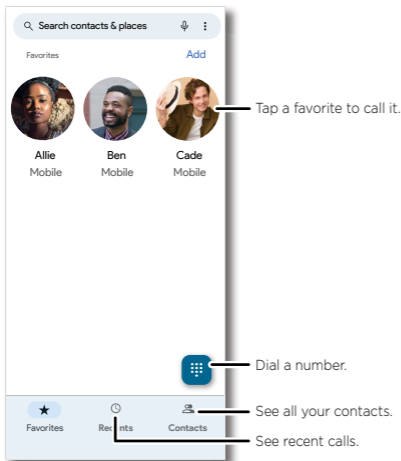
Make a call

Find it:  **Phone**



- » **Call a contact:** To call a contact or recent call, tap the contact name.
- » **Dial a phone number:** To open the dialpad, tap . Enter a number, then tap  to call it.

- » **Voice dial:** To voice dial, tap  on the home screen or, if Google Assistant voice feature is on, you can say “Hey Google, call <name>.”
- » **Voicemail:**  appears in the status bar when you have new voicemail. To hear it, swipe down and tap the notification.
- » **Make a contact widget:** Touch and hold an empty spot on the home screen, tap **Widgets** > **Contacts**, then touch and hold the **Direct dial** widget. Drag it to your home screen, then select the contact. Tap the widget to call the person.

Tip: To enter the international dialing code (+), touch and hold **0**. To add a pause or wait after numbers, tap Menu . To call voicemail automatically, touch and hold **1**. To set up a voicemail, tap  **Phone** > Menu  > **Settings** > **Voicemail** > **Advanced Settings** > **Setup**.




Receive a call

- » **Answer a call:** When your phone is locked, swipe  up to answer. When the phone is unlocked, tap **Answer**.
- » **Ignore a call:** When your phone is locked, swipe  down to reject the call and send it to voicemail. When the phone is unlocked, tap **Decline**.

Tip: You can also press the Power button to ignore the call, or press a volume button to silence the ringer.







Note: If Google Assistant voice feature is on, you can answer or decline a call with your voice. Just say, “Hey Google, answer the call,” or “Hey Google, reject the call.”

- » **Respond with a text:** When your phone is locked, tap  **Reply**, and select a message to respond.

Note: When you hold your phone to your ear, the touchscreen goes dark to avoid accidental touches. When you move the phone away from your



ear, the screen lights up again. Don't use covers or screen protectors (even clear ones) that cover the proximity sensor.



During a call

- » **Mute a call:** Tap  **Mute** on the call screen to mute the call. You can hear your caller, but they can't hear you.
- » **Answer a second call:** To answer a second call, tap **Answer**. To answer a second call with your phone locked, swipe up . The first call is placed on hold. To switch between calls, tap  **Swap**.
- » **3-way call:** To join two calls together, answer the second incoming call while your first call is active, or tap  **Add call** to dial a second call. The first call is placed on hold. Tap  **Merge** to join the calls together.
- » **End a call:** Tap .

Favorites


See all your favorite contacts together.





Find it:  **Phone** >  **Favorites**

To add favorites, tap  **Contacts**, scroll or search to find the contact, then tap .



Recent calls

View your calls (with newest first), and then call, text, or store them:




Find it:  **Phone** >  **Recents**

- » To return a call, tap  next to the caller's name or number.
- » To send a text message, store the number, or other options, tap the caller's picture.
- » To remove an entry from the call log, touch and hold the name or number, then tap  **Delete**.
- » To clear the list, tap Menu  > **Call history** > Menu  > **Clear call history**.


Caller ID and spam

Find it:  **Phone** > Menu  > **Settings** > **Caller ID & spam**

Tap **Filter spam calls** to prevent suspected spam callers from disturbing you.



To block a caller from calling again, tap  **Phone** >  **Recents**, touch and hold the name or number, then tap  **Block/report spam**.


Your phone number

Find it: Swipe up from the home screen and tap  **Settings** > **About phone** > **Phone number**.

Emergency calls

Your service provider programs one or more emergency phone numbers you can call under any circumstances, even when your phone is locked. Emergency numbers vary by country. Your pre-programmed emergency number(s) may not work in all locations, and sometimes an emergency call cannot be placed due to network, environmental, or interference issues.









- 1 Tap  **Phone** (if your phone is locked, drag up from the bottom of the screen to unlock it, then tap **Emergency** or **Emergency Call**).
- 2 Enter the emergency number.
- 3 Tap  to call the emergency number.

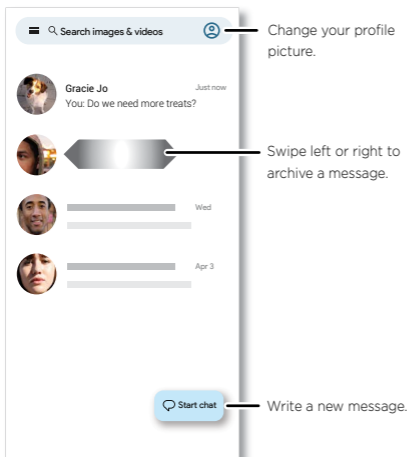
Note: Your phone can use location based services (GPS and AGPS) to help emergency services find you. For more information, swipe up from the home screen and tap  **Settings** > **Location** > **Location Services** > **Emergency Location Service**.

Messages











Stay in touch with messages and pictures. For tips on using the keyboard, see [Use the keyboard](#).

Find it:  **Messages**


- » **Create:** Tap .
- » **Attach:** Before typing a message:
 - Touch and hold  to create a voice recording.
- » **Attach:** When you're typing a message:
 - Tap  to attach a GIF or a contact, share your location, and more.
 - Tap  to attach a photo from the gallery or take and attach a new photo.
- » **Send:** Tap  to send the message (or  if sending a message with an attachment).
- » **Tip:** To send a message later, touch and hold , then select a send time or set your own.
- » **Reply:** Tap a conversation, then enter your response in the text box and tap .



Tips

- » **Add another contact to a message thread:** In a conversation, tap  > **Contacts**, then tap a contact.
- » **Delete a thread:** To delete a whole thread of messages, touch and hold the thread, then tap . To customize the action, tap your profile picture > **Message settings** > **Swipe actions**.
- » **Archive a thread:** To archive a thread, swipe it left or right. To customize the action, tap your profile picture > **Message settings** > **Swipe actions**. You can find archived messages by tapping Menu  > **Archived**.
- » **Save pictures:** Touch and hold a picture, and then tap Menu  > **Save**. To see the picture, swipe up from the home screen and tap  **Photos** > **Library** > **Messages**.
- » **Voice entry:**
 - **Voice-to-text:** Tap a text box, then tap  on the keyboard, and speak your message. You'll see the text in the text box.
 - **Record a message:** Touch and hold , then speak your message to create an audio recording of your message.
- » **Turn off notifications:** Stuck in a busy conversation? You can turn off notifications. Tap the thread, then tap Menu  > **Details** > **Notifications** > **Silent**.
- » **Block a sender:** To block a sender from sending additional messages, touch and hold the thread, then tap .
- » **Spam protection:** To turn on spam protection, tap Menu  > **Details** > **Block & report spam**.

Set default messaging app



To set your default messaging app, swipe up from the home screen and tap  **Settings** > **Apps** > **Default apps** > **SMS app**, and select the messaging app to use as the default.

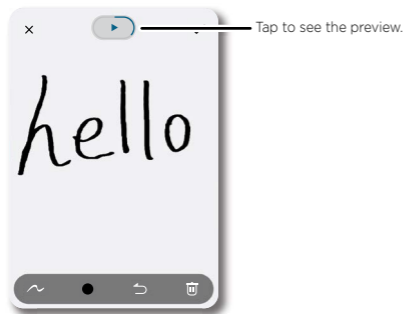
Live message












Instead of a text message, create and send an animation of your handwritten text or drawing.

Find it: Open a messaging app, like  **Messages**, use the stylus to tap the message input field, then tap  on the handwriting control bar



Or, you can also quickly open the **Live message** pop-up window from the stylus shortcuts. To add **Live message** to the stylus shortcuts list, swipe up from home screen and tap  **Settings** > **Stylus** > **When device is unlocked**, then tap  **Live message**.




- » **Create:** Tap  or , then choose your preferred pen stroke or color and start writing or drawing. Tap  or  to undo or erase all. Tap  to save the animation as a GIF (up to 15 seconds) to the gallery. To see the saved live messages, swipe up from the home screen and tap  **Photos** > **Library** > **Live messages**.
- » **Share:** Tap  to send the live message to family and friends.
- » **Send:** To send a live message in  **Messages**, create a live message and tap  to add it to the message input field, then tap . Or, tap  to attach a saved live message from the gallery.

Note: You can also send a live message using WhatsApp and other messaging apps.

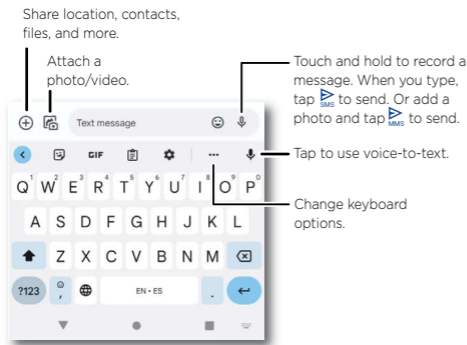
Tip: See also [Stylus](#) and [Stylus shortcuts](#).







Use the keyboard

When you tap a text box, like in a message or search, you have keyboard options.

- » **Type or glide:** Enter letters by touching them one at a time. Or, enter a word by tracing a path through the letters. Word suggestions appear above the keyboard. Tap one to choose it.
- » **Voice-to-text:** Tap  on the touchscreen keyboard, speak your message.

Note: See a different keyboard? It varies by app. This one is for texting.



- » **Symbols and numbers:** Touch and hold a letter to enter the number at the top of it. To enter symbols, tap .
- » **Capital letters:** Tap  for one capital letter. For all capital letters, tap  twice quickly.
- » **Keyboard options:** To customize your keyboard, tap . For more settings, tap .
- » **Cut, copy, select all and paste:** Touch and hold a word to highlight it, tap **Cut**, **Copy**, or **Select all**. Touch and hold the location you want to paste the text, and tap **Paste**.
- » **Close the keyboard:** Tap .

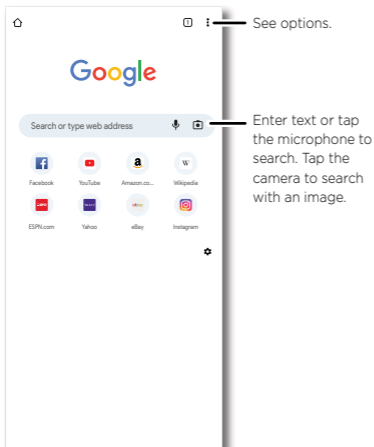
Chrome™












Access the Internet with the Chrome browser app.

Find it:  **Chrome**

Or, from the home screen, tap the Google search box and enter or speak text to search.



Note: Your phone uses your Wi-Fi network (or your mobile phone network) to access the Internet. If you can't connect, contact your service provider. Your service provider may charge to surf the web or download data.




- » **Go to a web page:** Tap the address bar at the top of a page and enter an address.
- » **Add a bookmark:** Tap Menu  > .
- » **Open a bookmark:** Tap Menu  > **Bookmarks**.
- » **Web page shortcut:** To add a web page shortcut to your home screen, go to the web page and tap Menu  > **Add to Home screen**.
- » **Mobile sites:** Some websites automatically show you a mobile version of their page—if you want to see the computer version of a website, tap Menu  > **Desktop site**.
- » **Reload:** If a page doesn't load correctly, tap Menu  > .
- » **Tabs:** To open a new tab, tap Menu  > **New tab**. To move from one tab to another, tap  2.
- » **Clear history:** In the browser, tap Menu  > **Settings** > **Privacy and security** > **Clear browsing data**. Then choose history, cache, cookies, and other options.
- » **Help:** For more about Google Chrome, tap Menu  > **Help & feedback** or visit <https://support.google.com/chrome>.

Downloads

Warning: Apps downloaded from the web can be from unknown sources. To protect your phone and personal data from theft, download apps only on Google Play™ Store.







- » **Files:** Tap the download link. To see the file, tap Menu  > **Downloads**.
- » **Pictures:** Touch and hold it, then tap **Download image**. To see the picture, tap  **Photos** > **Library** > **Download**.

Browser settings

To change your browser security settings, text size, and other options, tap Menu  > **Settings**.

Safe surfing & searching

Keep track of what your browser and searches show:

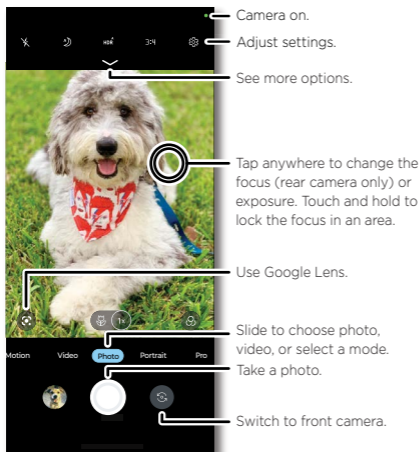
- » **Incognito:** To open a tab that won't appear in your browser or search history, tap Menu  > **New Incognito tab**.
- » **Auto complete:** Your browser automatically fills in names and addresses, if you have entered the same information before. To turn off this feature, tap Menu  > **Settings** > **Addresses and more** > **Save and fill addresses**.
Tip: Auto complete also fills in payment information, such as a credit card. To turn off this feature, tap Menu  > **Settings** > **Payment methods** > **Save and fill payment methods**.
- » **Pop-ups:** To stop pop-up windows from opening, tap Menu  > **Settings** > **Site settings** > **Pop-ups and redirects**, then tap the switch to turn it off.
- » **Safe browsing:** To protect your phone from websites that might be unsafe, tap Menu  > **Settings** > **Safety check** > **Safe Browsing**.
- » **Password Manager:** Manage your passwords to easily sign in to sites and apps, tap Menu  > **Settings** > **Password Manager**.





Camera

Take crisp, clear photos with the main, macro, or front camera.

Take photos





Find it:  **Camera**




- » **Take a photo:** Tap  to take a photo.
- » **Take a selfie:** Tap  in the camera screen to switch to the front camera.
- » **Multi-shot:** Touch and hold  to take a burst of photos.
- » **Tips:** To see tips to help you take great photos, tap .

Record videos

Find it:  **Camera**, then tap **Video**

Tap  to start recording. Then tap  to stop recording. Tap  on the screen while recording to save a photo. Or tap  to pause the video.















Camera options


Point, tap, and you're done, or play with these camera options. Swipe down on the viewfinder or tap  above the viewfinder to see some of these options:

Viewfinder options for rear and front cameras

Google Lens

Find out more about the things you see in the viewfinder. See [Identify & scan items using Google Lens™](#).

Viewfinder options for rear and front cameras	
 Macro camera	Take a detailed close-up photo with the macro camera.
1x Main camera	Take a regular photo with the main camera. Touch 1x and drag the slider to set magnification.
 Flash	Set to AUTO  , ON  , or OFF  .
 Timer	Set a timer to 3 or 10 seconds.
3:4 Aspect ratio	Choose the width/height screen ratio as 1:1 , 3:4 , 9:16 , or FULL  .
 HDR	Turn off HDR (high dynamic range) effect or set it to AUTO for better pictures in challenging lighting situations, such as outdoors.
 Active photos	Turn on to capture a brief photo in motion of your subject. Set to Auto to capture brief motion automatically. Note: HDR and Flash are turned off when Active photos is set to On .
 Auto Night Vision	Switch to Night Vision mode automatically in low light conditions.
JPG Format	Set the file format as JPG , RAW , or RAW+JPG . Note: This feature displays only in Pro mode.
 Face Beauty	With the front camera, smooth skin and beautify faces. Touch  and slide the bar to the right to make your face smoother. Note: Face Beauty feature is also available when taking videos.
 Live Filter	Choose a filter to adjust the contrast, brightness, color, saturation, and other aesthetic settings of your photo. Tap ORIGINAL to see how your photo would look without a filter, or select the desired filter, like NATURAL LIGHT , ROMANTIC , or FILM .
 Torch	Turn on a flashlight when taking photos with the macro camera.

Additional viewfinder options for video camera	
 Torch	Turn on a flashlight when taking a video. Set to ON or OFF (back camera) or AUTO/ON/OFF (front camera).






Additional viewfinder options for video camera	
 Stabilization	Set Stabilization to ON to remove shakiness when taking a video.
 Mic	Turn on/off the microphone. Switch to an external microphone device, if connected.
9:16 Aspect ratio	Choose the width/height screen ratio as 9:16 or Full  .
 Face Beauty	With the front camera, smooth skin and beautify faces. Touch  and slide the bar to the right to make your face smoother. Note: Face Beauty for video does not work when Stabilization is on.

Photo and video modes

Photo and video modes are shown below the viewfinder, slide left or right to change mode.


Tip: Tap **More** below the viewfinder, touch and hold a mode, then drag it to a different location to rearrange the order, or drag it to the carousel of modes below the viewfinder for quick use. Tap  below the viewfinder, touch and hold a mode below the viewfinder, then drag it to a different location to rearrange the order.





















Photo modes	
 Portrait	Take portraits using special enhancements and effects. For more, see Take a portrait photo .
 Spot Color	Pick one color from the viewfinder while everything else becomes black & white.
 Night Vision	Take photos in low light situations.
 Panorama	Take a wide-angle shot. Use the on-screen guide to slowly pan while you are taking the photo.
 Group Selfie	Take a wide-angle selfie for groups.
 Ultra-Res	Use the main camera to take an ultra-high-resolution photo. Note: This option is best used in bright light conditions.
 Pro	Control professional camera settings, see Take a Pro mode photo .
 Dual Capture (photo)	Take photos with front and back cameras at the same time. Drag the viewfinder to move it. Tap  or  to change viewfinder layout. Tap  or  to swap screens.

Photo modes	
Video modes	
 Slow Motion	Take a video that will play in slow motion (120fps).
 Timelapse	Take a video using timelapse to make a longer video play faster. You can set the playback speed as 4x , 8x , 16x , and 32x (times) faster than a regular video.
 Dual Capture (video)	Record videos with front and back cameras at the same time. Drag the viewfinder to move it. Tap  or  to swap screens. Tap  or  to change viewfinder layout.

Note: To get answers or provide feedback, tap Help  or Feedback .

Camera settings

To find these options, tap  at the top of the viewfinder:



Camera settings		
AI SETTINGS	Auto Smile Capture	Automatically detect smiles and take a photo when all of the subjects in the viewfinder are smiling.
	Gesture Selfie	Hold up your palm to start a two-second timer to take a selfie.
	Shot Optimization	Turn on automatic tuning and scene detection.
	Google Lens	Turn on to see Google Lens on the main camera display.
PHOTOS	Selfie photo mirror	Turn on to take a mirrored selfie. Note that the viewfinder won't show a mirrored selfie, but the photo will be mirrored after you take it.
	Watermark	Add a watermark, signature, date or time to your photos.
VIDEOS	Efficient videos	Turn on to reduce the file size of UHD videos.

Camera settings		
CAPTURE SETTINGS	Quick capture	Twist twice to open the camera app, or switch between front and back cameras.
	Tap anywhere to capture	Capture photos or videos by tapping anywhere on the screen.
	Shutter sound	Turn the shutter sound on or off.
	Assistive grid	Overlay a grid to help align the subjects in your photos or videos.
	Leveler	Take perfectly level photos using a guide line in the viewfinder.
	Keep last mode	Open the camera with the last mode active.
SAVE PREFERENCES	Storage	Choose a storage location for your photos and videos (Phone or microSD card).
	Save location	Turn on to tag photos with a location.
ABOUT		Play tutorial, get help, reset camera settings, and more.

Take a portrait photo

You can use the portrait mode to add a blur effect to the background, while keeping the main subject in perfect focus.

Find it:  **Camera > Portrait**

- 1 Line up your subjects. The closest subject is prioritized automatically. Tap the screen to change the focal point.
- 2 Tap , then slide the bar to increase or decrease the background blur.
- 3 Tap  to take the photo.




Tip: For best results, subjects should be two to six feet away.

Take a Pro mode photo


Use the Pro mode to adjust settings and take personalized photos.

Find it:  **Camera > Pro**


» **Adjust Pro settings:**

-  **Focus range:** Change the focus mode. Drag from **A** (auto focus on foreground) to  for Macro focus, to blur the background and focus on details. Drag to  for infinite focus, to focus on the background and blur the foreground. This feature is not available for the front or marco camera.
- **WB White balance:** Adjust the color temperature by manually changing the Kelvin value from 2,300 to 7,500. Drag from left to





right to change the temperature spectrum, from auto to blue/cold or orange/warm.

-  **Shutter speed:** Adjust how slow or fast the camera shutter closes. A fast shutter speed creates a shorter exposure (the amount of light the camera takes in), and a slow shutter speed allows a longer exposure.
- **ISO ISO:** Set the camera's sensitivity to light. The higher the ISO, the brighter the photos.

Note: Higher ISO settings can result in noise/graininess in photos.

-  **Exposure:** Change the exposure value. The higher the exposure the lighter the photo.


Tip: Touch an icon and drag the slider to customize the settings.

- » **Restore default settings:** Touch  to close options, then touch .
- » **Set file format:** Tap **RAW** on the viewfinder and select **JPG**, **RAW**, or . Saving in **JPG** format will compress a photo to make it smaller. A **RAW** photo is completely unprocessed for extra editing control in post-production and the photo size will be larger. **RAW+JPG** mode lets you shoot and save in both file formats at the same time.
Note: For files saved as **RAW**, you'll see  on the photo or its thumbnail.
- » **Read the histogram:** The histogram displays in the top-right corner of your screen. It helps you gauge whether the photo is overexposed (when it is right-skewed) or underexposed (when it is left-skewed). A generally centered histogram tends to indicate a well-exposed image.

Identify & scan items using Google Lens™

Search landmarks, products, explore books, identify plants and animals, copy text, scan barcodes, QR codes, business cards, and more.







Find it:  **Camera** > 

- 1 Focus your camera on an object, landmark, or code.
- 2 Tap  to search. Depending on the object, you can see the details, take an action, or find products.

Note: Google Lens may not work in all languages.


Capture your screen

There's more than one way to capture your phone's screen.

- » Press and hold both the Power and the Volume Down buttons at the same time. If a screen is longer than the display, tap  to capture all of it. Then, tap an option to edit , share  or delete  the screenshot. Tap  to find out more about the object(s) in the screenshot.
- » Set up [Gestures](#) to capture screenshots by touching the screen with three fingertips.
- » Remove the stylus, then tap  when the stylus shortcuts appear.

Tip: To see the screen capture, tap  **Photos** > **Library** > **Screenshots**.


Record your screen




Start a screen recording to capture information visible on your device. Swipe down twice to display Quick settings, then tap  **Screen record**.

Tip: To see the screen recording, tap  **Photos** > **Library** > **Screenrecord**.

Photos


View, edit, and share photos.

Find it: Swipe up from the home screen and tap  **Photos**

» **View, share, or delete:** Tap a thumbnail to open it, then tap  to share,  to delete, or Menu  for more options.


Tip: To select multiple files, open a folder, touch and hold a photo, then tap others. Or group photos in an album and share the whole album.





» **Zoom:** Open a photo in your gallery, then double-tap or drag two fingers apart or together on the screen.


Tip: Turn your phone sideways for a landscape view. To turn Auto-rotate screen on or off, swipe up from the home screen and tap  **Settings** > **Display** > **Auto-rotate screen**.


» **Wallpaper or contact photo:** Open a photo, then tap Menu  > **Use as**.

» **Edit:** Open a photo, then tap .

» **Slideshow:** Tap a photo, then tap Menu  > **Slideshow**. To stop the slideshow, tap the screen. To show the slideshow on a television or other device, see [Connect, share & sync](#).

» **Create album:** Touch to select one or multiple photos or videos, then tap  > **Album**. Add a title to your new album and tap  to create the album. Or, tap  **Photos** > **Library** >  **New album**.

» **Search by people, things & places in your photos:** Sign in to your Google Account, tap  at the bottom, then search by text or exploring categories, such as people & pets, places, screenshots, and more.

» **Back up photos and videos to your Google Account:** Swipe up from the home screen and tap  **Photos** > your profile picture in the top-right corner > **Photos settings** > **Backup**. Tap the switch to turn it on. Tap **Backup quality**, **Mobile data usage**, or **Back up device folders** to customize the settings.

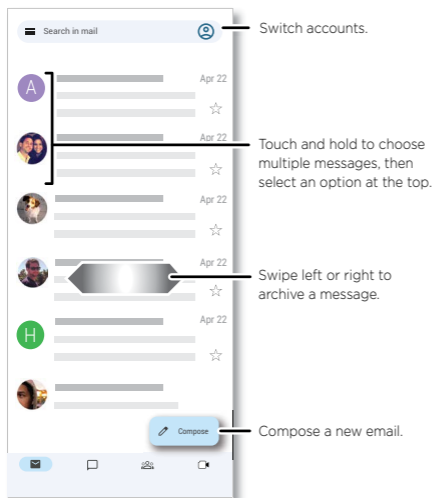
Tip: You can also use  **Google One** to [Backup & restore](#) all your photos and videos.




Note: For more about Google Photos™, visit <https://support.google.com/photos>.




Gmail



Send and receive email from all of your personal accounts (even if they're not Gmail accounts). You can manage your accounts in Gmail and easily switch between them.

Find it: Swipe up from the home screen and tap  **Gmail**










Tip: If you don't see the  Chat or  Spaces tab, tap Menu  > **Settings**, then tap your account and check the box next to **Chat**.



- » **Add Gmail accounts:** The first time you turned on your phone, you probably set up or logged in to your Google account—that sets up the  **Gmail** app for one account. To add more Google accounts, swipe up from the home screen and tap  **Settings** > **Passwords & accounts**, then tap  **Add account** > **Google**.






Tip: In the  **Gmail** app, tap Menu  > **Settings** > **Add account**.

- » **Chat:** Use Google Chat in the **Gmail** app to communicate directly with people.

- **Chat with a friend:** Start a conversation with a contact. Tap , and then tap an existing contact in the list. Or, tap  > , type a name or email address in the search field, and then select a contact suggestion below the search field.
- **Chat with a group:** Start a group chat to talk to several people at once. Tap , and then tap an existing group in the list. Or, tap  > , type a name or email address in the search field, select a contact suggestion below the search field, and then tap  to add more contacts.

- » **Create Spaces:** Use a space to communicate with a friend, a group of people or an organization about a topic, project, or shared interest. Tap


 > **+ New space** > **Create a space**, or you can also tap  > **New chat** > **Create a space**.

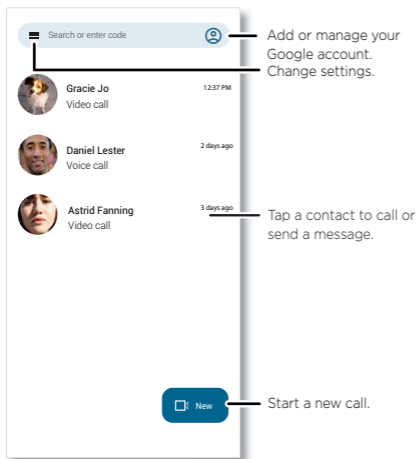
- » **Start or join a meeting:** Tap , then tap **New meeting** or **Join with a code**.
- » **Add email accounts:** The Gmail app manages all of your email accounts. To add other personal email accounts to the Gmail app, swipe up from the home screen and tap  **Settings** > **Passwords & accounts** > **+ Add account**. For Microsoft® Exchange server work email accounts, tap **+ Add account** > **Exchange**, and enter details from your IT administrator.
- » **Change account settings:** To change the settings for a Gmail or email account, swipe up from the home screen and tap  **Gmail** >  > **Settings**, then tap the account name.
- » **Delete accounts:** Swipe up from the home screen and tap  **Settings** > **Passwords & accounts**, then tap the account name and **Remove account**.




Tip: To learn more about **Gmail**, visit <https://support.google.com/mail>.



Meet

Sign in with your Google account for video calls and meetings.

Find it: Swipe up from the home screen and tap  **Meet**



- » **Start a new call:** Tap , or tap the search box, then type or tap a name in your contacts to start a voice call, video call or send a message.
 - » **Create a new meeting:** Tap  > **Create a new meeting**, then tap **Share** to send the meeting info to people you want to join the meeting.
- Tip:** To schedule a meeting, tap  > **Schedule in Google Calendar**.


- » **Preview incoming calls:** See live video of the caller before you answer. To turn this off for both the caller and receiver, tap Menu  > **Settings** > **Calling settings** > **In-call settings** > **Knock Knock for this device**.
- » **Change settings:** Tap Menu  > **Settings** > **Calling settings** > **In-call settings** to change the vibration setting, block numbers, and more.
- » **Call anyone:** Meet works across platforms, allowing you to call friends with Google Meet app on any device.

Tip: When on a video call, your phone will automatically switch from cellular network to Wi-Fi, if available.

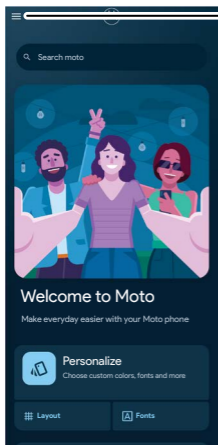
Moto

Explore special features designed to save you time and make your day easier.

Find it:  **Moto** > 

- » **Personalize:** Customize your phone with styles, themes and more.
- » **Gestures:** Control your phone with gestures.
- » **Moto Secure:** Protect your digital life with Motorola security features ( **Moto Secure**).
- » **Tips:** Find details of your phone's latest features.
- » **Display:** See how to interact with your display.
- » **Play:** Find features and tools for gaming, media controls and audio enhancements and customizations.



Note: Your phone may not have all features.



Tap to open Moto app features, or swipe up from the bottom of the screen.

Personalize

Make your phone unique with custom themes, styles, and more.








Find it:  **Moto** >  > **Personalize**

- » **Themes:** Choose custom themes or design your own to change the look of your device.
- » Tap **Fonts, Colors, Icon shape, Display size and text, Layout, Peek display, Sounds,** or **Dark mode** to make your own mark on your phone.


Gestures



Enhance your phone with gestures and actions.


Find it:  **Moto** >  > **Gestures**








- » **Sidebar:** Launch apps in freeform or full-screen windows to enhance multitasking. Tap the switch to turn it on, then tap **Settings > More Settings > Choose how your apps will open > Open apps in freeform** or **Open apps in full screen**. Swipe the sidebar  in from the edge to open a list of apps and shortcuts, then tap an app or a shortcut to open it in a freeform window or full screen. Tap  to change the apps and shortcuts to be shown. To move a freeform window around, tap and drag . Drag the bottom corner to resize it. Tap  to expand it to full screen, or tap  to shrink it to an icon. To close a freeform window, drag it to  or tap .
- » **Quick Capture:** Twist your wrist twice quickly to open the camera.
- » **Fast Flashlight:** Turn the flashlight on/off with two chopping motions.
- » **Three finger screenshot:** Touch and hold the screen with three fingertips to [Capture your screen](#).
- » **Lift to unlock:** Lift your phone and look at the screen to unlock it. You'll need to set up face unlock, see [Unlock with your face](#).
- » **Flip for DND:** Place the phone face down to silence notifications and calls.
- » **Pick up to silence:** Silence the ringer during an incoming call by lifting up the phone.
- » **Swipe to split:** See apps in split screen by swiping back and forth.

Moto Secure

Protect your digital life with  **Moto Secure** features.

Find it:  **Moto** >  > **Moto Secure**

Tip: From the home screen swipe up and tap  **Moto Secure**.

- » **Secure folder:** Tap  or  > **Add apps** to add apps to your secure folder for extra protection. You'll need to enter a secure folder pattern, PIN or password. To change folder security, tap  > **Change lock**. When set up you can swipe up from the home screen and tap  **Secure folder**. To remove an app, tap and hold it, then tap **Remove app**. Tap  > **Disguised icons** to disguise up to four icons and add fake names. Tap  > **Stealth mode** to hide an app icon. To delete the folder, tap  > **More settings > Delete secure folder**.
- » **Network protection:** Turn on **Wi-Fi security**, and **Hotspot** to get warnings when connecting to unsecure Wi-Fi or weak protocol hotspot networks. Turn on **Mobile data security** to stop spoofing from 2G network connections. Tap **Wi-Fi blocklist** to block apps when your phone is on an open network.

- » **Lock screen security:** See the level of security for each lock screen. Tap **Lock after screen timeout** to select time. Tap the switch to turn on **Power button instantly locks** or **Lock Network and security** to keep network and security features locked when your screen is locked.
- » **PIN pad scramble:** Shuffle the numerical layout of the PIN entry screen each time you unlock your device.
- » **Privacy dashboard:** Open the Privacy dashboard. See [Privacy dashboard](#).
- » **Security & privacy:** Open the Security & privacy screen. See [Security](#) and [Privacy](#).
- » **Permission manager:** Open the Permission manager screen. See [Permission manager](#).
- » **Privacy controls:** Open the Privacy controls screen. See [Privacy controls](#).

Tips

View tips about your phone's features.


Find it:  **Moto** >  > **Tips**

Display

See notifications, keep the screen on when you're looking at it, and reduce blue light in the evenings.

Find it:  **Moto** >  > **Display**

- » **Peek Display:** Battery friendly notifications fade in and out while the screen is off to show you what's going on. Tap the switch to turn it on, then tap **Settings** to customize appearance, gestures and notifications.






Note: Notification display settings can also be set by swiping up and tapping  **Settings** > **Notifications**.

- » **Attentive Display:** Your screen won't dim or sleep while you're looking at it.

Play


Enjoy immersive and engaging entertainment.

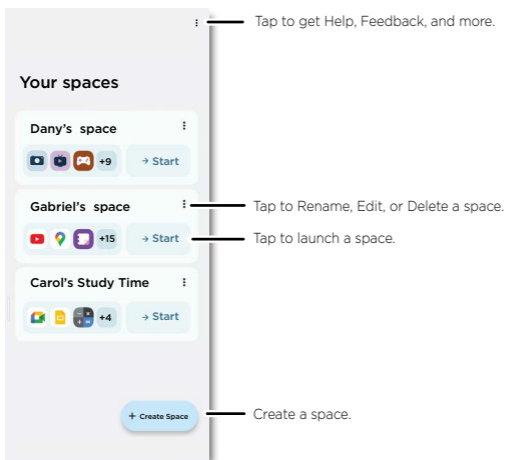
Find it:  **Moto** >  > **Play**



- » **Games:** To turn it on, tap **Games** >  > **Moto Gametime** switch. Then you can customize your gaming options. To block calls or notifications while gaming, tap  > **Block calls** or **Block notifications**. Tap  > **Sidebar access** > **Swipe right from the edge** or **Tap the icon** to use the sidebar while gaming. During a game, swipe the sidebar right from the edge or tap the icon, then tap **Block calls**, **Block notifications**, **Screenshot**, **Share**, **Settings** and more. When you open a compatible game,  appears automatically.
- » **Media controls:** Tap the switch to turn it on, then use the volume buttons to change music tracks when the screen is off.
- » **Dolby Atmos:** Enhance audio and customize your sound. Tap **Dolby Atmos** >  **Settings**, then tap **Smart audio**, **Music**, **Movie**, **Game**, **Podcast**, or **Custom**.



Family Space



Create a safe space on your phone where kids can learn and play. Set limits on screen time, control access to apps, and more.

Find it: Swipe up from the home screen and tap  **Family Space**




- » **Create a space:** Tap , then enter the name of your space and select the allowed apps. Tap **Next**. Then tap  next to Homescreen grid or Background to set the look of your screen when the space is active. Tap **Next**.


Then tap  next to **Password** to require a password to close the space and tap  next to **Timer** to show a floating screen on the space, then tap **Done**.

- » **Rename, edit, or delete spaces:** Tap Menu  > **Rename, Edit** or **Delete**.
- » **Launch a space:** Tap  **Family Space** to show your spaces, then tap **Start** next to the space you want to launch.

Tip: Spaces can also be launched from [Quick settings](#).


- » **Set space permissions:** When a space is launched permissions are set. Tap **Device Administrator** to activate the screen lock when the timer runs out, tap **Do Not Disturb** to hide notifications from other apps in active spaces and tap **Notifications** to allow Family Space notifications such as timer alerts in active spaces, then tap **Done**.
- » **Set screen time:** When a space is launched you can set the screen time, tap **15 min**, **30 min**, **1 hr**, **2 hr**, **Custom** or **No time limit**, then tap **Start**. When the time runs out, tap **Add time** to continue, or tap **Leave Space** to exit.

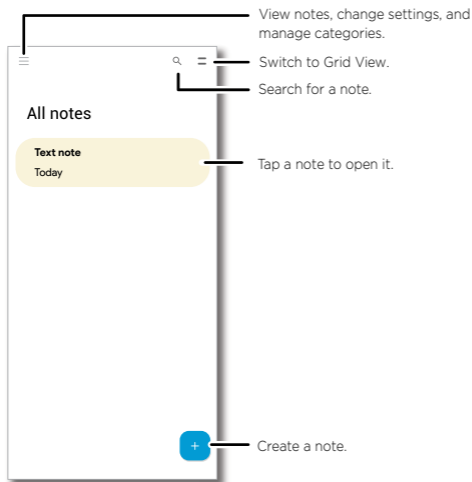
Tip: Tap  to pause the timer.





























- » **Close a space:** Tap  to close a space. You may need to enter your password.











Moto Note

Use the stylus to create, edit, and share notes.

Find it: Swipe up from the home screen and tap  **Moto Note**



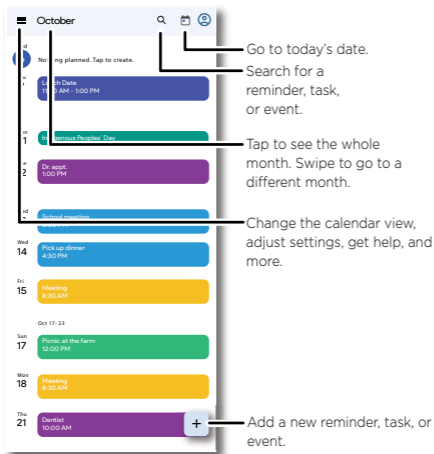
- » **Create a note:** Tap , then tap a mode ( text,  drawing,  audio, or ) checklist. To save the note you have created, tap . To delete a checklist, tap Menu  > **Delete**.
- » **Text mode:** Tap  to start a text note. Tap on the keyboard or handwrite on the screen with the stylus (see [Handwrite with a stylus](#)) to input text. Tap the tools at the bottom of the screen to add a table, take a photo, or choose an image. To convert images of typed, handwritten, or printed text into machine-encoded text, tap **OCR**. To delete a text note, tap Menu  > **Delete**.
- » **Drawing mode:** Tap  to create a drawing. Tap the tools at the bottom of the screen to change to a different highlighter, erase the drawing, insert a ruler, and more. To add an image or text, tap Menu  > **Add image** or **Add text**. Tap  to expand the canvas. Tap  or  to scroll the canvas up or down. To delete a drawing, tap Menu  > **Delete**.
Tip: To minimize the toolbar, tap  on the right of the bar.
- » **Audio mode:** Tap  to start a recording. Then tap  to stop recording or tap  to pause. To play a recording, tap . To delete all recordings, tap Menu  > **Delete**.
- » **Checklist mode:** Tap  to start a checklist. Tap  to add an entry to the checklist. To delete a checklist, tap Menu  > **Delete**.
- » **Add a title or categorize a note:** To enter a title, type in the title field above the canvas. Tap  next to **Uncategorized** to apply or create a category. To view or sort by categories, from the home screen, swipe up and tap  **Moto Note** > Menu  > **To-do, Personal, or Work**. To add a category, tap .







- » **Set background:** Create or open a text or drawing note, then tap Menu  > **Set background** > a color or pattern > **Set**.
- » **Edit a note:** Tap a note to view or edit it.
- » **Share a note:** Touch and hold a thumbnail, then tap . Or, open a note, then tap Menu  > **Share**.
- » **Delete a note:** Touch and hold a thumbnail, then tap  > **Delete**.
- » **Add a watermark:** Tap Menu  > Settings  > **Watermark** to show a watermark on your note.
- » **Turn on Auto-shape:** Tap  > Settings  > **Auto-shape** to add a template shape automatically. In drawing mode, draw a shape and pause on the canvas for 1 second. Your drawn shape gets replaced by a similar ready-made shape, like a straight line, a circle, or a triangle. To see how it works, tap  > .


Calendar

See all your events, all in one place.

Find it: Swipe up from the home screen and tap  **Calendar**



- » **Change the view:** Tap the month at the top to choose a date to view. Or tap  to choose **Schedule**, **Day**, **3 days**, **Week**, or **Month**.
- » **Go to today's date:** Tap  at the top.
- » **Add reminders, tasks, or events:** Tap  > **Reminder**, **Task**, or **Event**, enter details, then tap **Save**.
Tip: In most views, tap a time on the calendar to enter event details.
- » **Find an event:** Tap  to search for a reminder, task or event.
- » **Show, edit, or delete reminders, tasks, or events:** Tap an reminder, task, or event to open it, then tap  to edit it, or tap Menu  > **Delete** to remove it.


» **Show, hide, or add calendars:** Tap , and select which options, such as events, tasks, reminders, birthdays, holidays or other calendars, to show or hide. You can use a computer to add or remove calendars on your Google account at www.google.com/calendar.

Tip: Add a **Calendar** widget to your home screen. Touch and hold an empty spot on the home screen, tap **Widgets**, then touch and hold a calendar widget and drag it to your home screen.

More apps

Google Play

Google Play is a digital content experience from Google where you can find and enjoy your favorite music, movies, TV shows, books, magazines, and Android apps and games.

- » **Download apps:** Tap  **Play Store**.
- » **Log in or open a Google account:** Visit www.google.com/accounts.
- » **Google help:** See www.google.com/support.

Google Home

Control your home devices in one place.

Find it: Swipe up from the home screen and tap the **Google** folder >

 **Home**

Follow the prompts to get started.

Note: You may need to download Google Home.

Google Fit

Get personalized fitness coaching right from your phone.

Find it: Swipe up from the home screen and tap the **Google** folder >


 **Fit**

To learn more and to find out which apps work with **Google Fit**, visit www.google.com/fit.

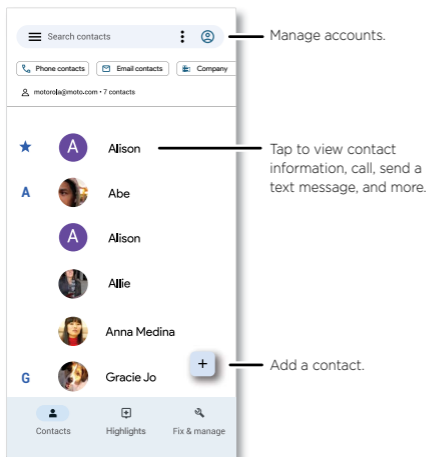
Note: You may need to download Google Fit.

Contacts



Combine information from your Google contacts and social networks for quick access to everyone you know.

Tip: You can find most of these features on the  **Contacts** tab in the Phone app. See [Phone](#).

Find it: Swipe up from the home screen and tap  **Contacts**





» **Add a contact:** Tap .



» **Edit or delete:** Tap a contact, then tap  or tap Menu  > **Delete**.

» **Call, text, or email:** Tap a contact, then tap an option. (If the contact doesn't have an email address, you can add one, and use [Meet](#) to video chat.)

» **Search contacts:** In the **Contacts** list, tap **Search contacts**.

» **Share a contact:** Tap a contact, then tap Menu  > **Share** to send it in a message or email, via a Bluetooth connection, or save to Google Drive™.



Tip: Tap a contact, then tap Menu  > **Add to Home screen** to add a shortcut for the contact on your home screen.

» **Synchronize:** On your phone, swipe up from the home screen and tap  **Settings** > **Passwords & accounts**, and choose your Google account. Then tap **Account sync** > Menu  > **Sync now**.

» **Add your details:** To store your user profile, tap your profile picture, then tap **Contacts app settings** > **Your info**.

Favorites


Set your most-used contacts as favorites, so you can get to them faster.

» To set a favorite, swipe up from the home screen and tap , select a contact and tap .

» To see your favorites, tap  **Phone** >  **Favorites**.


Get contacts


Get all your contacts in one place.

» To add your social networking contacts, swipe up from the home screen and tap  **Settings** > **Passwords & accounts**, then tap **Add account**.

» To add your email contacts, see [Gmail](#).


Tip: If you add an **Exchange** account, you can send messages to your coworkers, even if you don't have them stored in your contacts.


» To import contacts from your SIM card (if it didn't happen automatically), swipe up from the home screen and tap  **Contacts** > **Fix & manage** > **Import from SIM**. Tap **OK** to confirm.

» To import contacts from your computer, upload the contacts to your Google account at <http://contacts.google.com>. On your phone, swipe up from the home screen and tap  **Contacts** > your profile picture > **Manage accounts on this device** > **Automatically sync app data**. You can also see these contacts at <http://mail.google.com>.

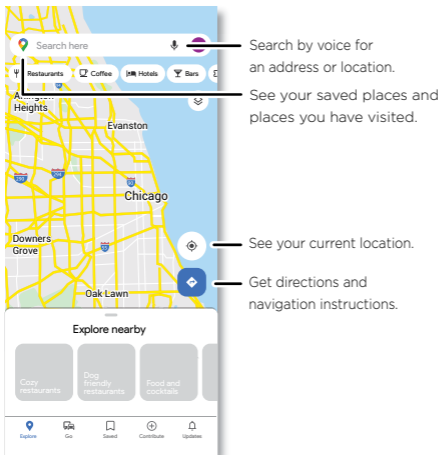
Maps

Find a nearby cafe, get directions or step-by-step GPS voice navigation using Google Maps™.

Find it: Swipe up from the home screen and tap  **Maps**


Enter what you want to find in the search bar, or tap  to search by voice.

Note: Your screen may look different.



» **Find an address:** In the search field, type an address or something


you're looking for, like "restaurant." Tap an item to see more, or tap an option, such as **Directions** or **Share**, to do more with this item.


- » **Get directions:** Tap , then enter a place or address.
- » **Zoom:** To zoom in or out, drag two fingers together or apart on the screen.
- » **Turn:** Rotate two fingers on the map to turn it.
- » **Tilt:** Drag two fingers up or down on the map to tilt it.
- » **Identify address:** Touch and hold a spot on the map to show the nearest address.
- » **Get map help:** Tap your profile picture, then tap **Help & feedback**.

Note: For more on maps, visit support.google.com/maps.

Drive

Keep all your photos, videos, documents, and more safely in one place—private unless you choose to share. Available on Google Drive™ from all your devices.

Find it: Swipe up from the home screen and tap  **Drive**

- » To create a new file or folder, tap .
- » To open a file, tap it.
- » To edit a document, tap anywhere in the text to begin typing.


Note: You may need to download **Google Sheets**, **Google Docs**, or **Google Slides** to edit a document.

Music, movies, TV & YouTube


Enjoy quality entertainment experiences right at your fingertips.

Music


Music everywhere—stream it, buy it, save it, play it. Listen and create playlists anytime.

Find it: Swipe up from the home screen and tap  **YT Music**

To upload your music library to YT Music, from a computer, visit music.youtube.com.


Tip: Share songs directly with your contacts. Tap Menu  next to a song and tap **Share**.




For more on the YT Music app, see support.google.com/youtubemusic.

Note: Copyright—do you have the right? Always follow the rules. See "Content copyright" in the legal and safety information on your phone. Connect your phone to the internet, swipe up from the home screen and tap  **Settings** > **About phone** > **Legal information** > **Legal and safety**, then tap **Content copyright**.

FM Radio

Find it: Swipe up from the home screen and tap  **FM Radio**

Plug in a headset, then tap  or  to tune to a lower or higher frequency station. To listen on your phone's loudspeaker, tap  **Headset**


and select  **Loudspeaker** from the drop-down list. To listen on another device such as Bluetooth wireless speakers, select  **Bluetooth** from the drop-down list, tap **SET UP** > **Pair new device**, then tap a found device to connect it. For more, tap Menu  > **Help**.

Tip: Your phone has the Frequency Modulation (FM) broadcast receiver functionality for reception without data usage. The phone will perform an auto tuning for the radio channels with the best signal.

Note: Not all carriers support FM Radio.

Google TV


Find and watch content from your favorite apps:

Find it: Swipe up from the home screen and tap  **Google TV**

Select the apps and services for your existing subscriptions, then browse shows and movies to start watching.

YouTube™

Watch videos and podcasts from YouTube users everywhere—or log in to your account to share your own.

Find it: Swipe up from the home screen and tap  **YouTube**







Recorder

Find it: Swipe up from the home screen and tap  **Recorder**

Note: Check local laws as you may need permission to record conversations.


Clock


Find it: Swipe up from the home screen and tap  **Clock**

Options	
Alarm	<p>Tap . Tap an alarm to edit it, or tap  to add a new alarm.</p> <p>Tip: Press the volume buttons and tap  to adjust Alarm volume.</p> <p>Wake up to your favorite song by linking to a music app. Or tap Google Assistant Routine to have the Google Assistant provide information to start your day, such as the weather, traffic, or what's on your calendar.</p> <p>When an alarm sounds, tap Stop, or Snooze for ten minutes.</p>
Clock	<p>To change your alarm volume, snooze delay, or other settings, tap Menu  > Settings. For other time zones, tap Home time zone.</p>
Timer	<p>For a timer, tap .</p>
Stopwatch	<p>For a stopwatch, tap .</p>

Options

Bedtime

Set consistent bedtime/wake-up times for better sleep. Add a **Sunrise Alarm** to slowly brighten the screen before the alarm sounds. Tap .


Tip: To set your current date, time, time zone, and formats, swipe up from the home screen and tap  **Settings** > **System** > **Date & time**.

Connect, share & sync


- » [Connect with Wi-Fi](#)
- » [Mobile network](#)
- » [Connect with Bluetooth wireless](#)
- » [Connect to your car](#)
- » [Share files with your computer](#)
- » [Virtual Private Network \(VPN\)](#)
- » [Share your data connection by USB cable](#)
- » [Share files with Nearby Share](#)
- » [Print](#)
- » [Sync to the cloud](#)
- » [Cast to a TV](#)
- » [Use a microSD card](#)
- » [Airplane mode](#)


Connect with Wi-Fi

Turn on and connect to networks

Find it: Swipe up from the home screen and tap  **Settings** > **Network & internet** > **Internet**, then tap the switch to turn it on

Tip: You can also turn Wi-Fi on and off in [Quick settings](#).


Tap a found network to connect to it. If required, enter the password. When connected, you'll see  in the status bar.

Note: When Wi-Fi is on, your phone automatically reconnects to available networks it has used before. If you see a question mark in the Wi-Fi status indicator , swipe the status bar down, tap the network, and enter the network's password.

Wi-Fi calling


Note: Your service provider may charge to use this feature.

When Wi-Fi calling is on, your phone can route calls over Wi-Fi or your service provider network, depending on your preference and which signal is stronger.

Find it: Swipe up from the home screen and tap  **Settings** > **Network & internet** > **Mobile network** > **Wi-Fi calling**

Wi-Fi hotspot

You can make your phone a Wi-Fi hotspot to provide portable, convenient Internet access to other Wi-Fi enabled devices. Your phone turns off Wi-Fi and uses the mobile network for Internet access. This feature may require an additional subscription service from your service provider.

Find it: Swipe up from the home screen and tap  **Settings** > **Network & internet** > **Hotspot & tethering** > **Wi-Fi hotspot**

Note: These steps may vary depending on your network.


To set up security:


- » **Hotspot name:** Enter a unique name for your hotspot.
- » **Hide my device:** Hide your hotspot from other devices.
- » **Security:** Select the type of security you want: **WPA3-Personal**, **WPA2/WPA3-Personal**, **WPA2-Personal** or **None**. If prompted, enter a unique password (8 characters min.) that others will need to access your Wi-Fi hotspot.
- » **Hotspot password:** Set or change your hotspot password.

Note: To turn off the hotspot automatically, tap **Timeout setting**. To set which devices can connect to the hotspot, tap **Manage devices** > **Manage allowed devices**.

Mobile network

Your phone uses your Wi-Fi network to access the Internet. When a Wi-Fi network is not available, you can use your mobile phone network.


Mobile data is on by default. To turn it off, swipe the status bar down and tap  **Mobile data**.


To see network settings options, swipe up from the home screen and tap  **Settings** > **Network & internet** > **Mobile network**.

Note: You should not need to change any network settings. Contact your service provider for help.





Connect with Bluetooth wireless

Turn on and connect devices

Find it: Swipe up from the home screen and tap  **Settings** > **Connected devices** > **Pair new device**

Or, to quickly turn on or open Bluetooth settings, swipe the status bar down and tap  **Bluetooth**. Touch and hold it to open Bluetooth settings.




Note: If Bluetooth is not on, it will turn on to pair a new or previously connected device.

- 1 Make sure the device you are pairing with is in discoverable mode (for details, refer to the guide that came with the device).
- 2 Swipe up from the home screen and tap  **Settings** > **Connected devices** > **Pair new device**.
- 3 Tap a found device to connect it. Tap  and choose what the device will be used for. You can tap  next to a saved device and tap  to rename the device.


Tip: To automatically **disconnect** or **reconnect** a device, just turn the connected device off or on.

Note: Using a mobile device or accessory while driving may cause distraction and may be illegal. Always obey the laws and drive safely.

Share files using Bluetooth


- » **Photos or videos:** Open the photo or video, then tap  > **More** > **Bluetooth**.
- » **Contacts:** Swipe up from the home screen and tap  **Contacts**. Touch and hold a contact, then tap  > **Bluetooth**.

Bluetooth tethering


To share your phone's internet connection via Bluetooth, swipe up from the home screen and tap  **Settings** > **Network & internet** > **Hotspot & tethering** > **Bluetooth tethering**.

Connect to your car

You can use **Android Auto** to connect your phone to your car's display and control maps, media, and messaging. Use voice commands using the Google Assistant. Just say "Hey Google."


Note: To turn this feature on, swipe up from the home screen and tap  **Settings** > **Google** > **Settings for Google apps** > **Search, Assistant & Voice** > **Voice** > **Voice Match**.

Once connected via a USB to USB-C cable, or connected wirelessly, **Android Auto** starts automatically.

Tip: To set the voice languages, sign in to your Google Account, and swipe up from the home screen and tap  **Settings** > **Google** > **Settings for Google apps** > **Search, Assistant & Voice** > **Voice** > **Languages**.

Note: Confirm that your car and Android phone are compatible with **Android Auto**. Your phone might ask you to download the Android Auto app or update to the newest version of the app. To learn about more features, go to <http://android.com/auto>.


Share files with your computer

Copyright—do you have the right? Always follow the rules. See "Content copyright" in the legal and safety information on your phone. Connect your phone to the internet, swipe up from the home screen and tap  **Settings** > **About phone** > **Legal information** > **Legal and safety**, then tap **Content copyright** under **Legal & safety**.

You can use a USB cable to move music, pictures, videos, documents, or other files between your computer and phone.

Note: If your phone gets exposed to water, ensure that the port is completely dry before connecting a USB cable. If water is detected on the USB connector, a warning notification appears in the Notification panel.

For Microsoft® Windows®:

- 1 Unlock your phone.
- 2 With a USB cable, connect your phone to your computer.
- 3 On your phone, when the **Select USB mode** popup shows, tap **File Transfer** or **Photo & video transfer**. Or swipe up from the home screen and tap  **Settings** > **Connected devices** > **USB** > **File Transfer**.
- 4 A file transfer window will open on your computer. Use it to drag files.

If you don't see it, go to **This PC** and select your phone, then you can drag and drop files.

- 5 When you're done, eject your phone from Windows and unplug the USB cable.



Tip: For more instructions or driver files, visit www.motorola.com/support.

For Apple™ Macintosh™:

Use Android File Transfer, available at www.android.com/filetransfer.

Virtual Private Network (VPN)

A VPN lets you access files on a secured network (like an office network with a firewall). Contact the network administrator for VPN settings, and any additional apps or requirements.

To enter VPN settings, swipe up from the home screen and tap  **Settings** > **Network & internet** > **VPN**. Tap  to add a new VPN. Choose the type of VPN and enter settings from the network administrator. Select the VPN name to connect.

Share your data connection by USB cable


Your computer can access the Internet through your phone's mobile network—you just need a USB cable.

Note: Your phone turns off Wi-Fi and uses the mobile network for Internet access. This feature may require an additional subscription service from your service provider.

- 1 Connect your phone to your computer using a USB cable.

Note: Mac computers can't tether with Android by USB.


- 2 On your phone, swipe down from the home screen and make sure **Wi-Fi** is off.

- 3 On your phone, swipe up from the home screen and tap  **Settings** > **Network & internet** > **Hotspot & tethering** > **USB tethering**.

To stop the connection, tap **USB tethering** again, then disconnect your phone from your computer.

Share files with Nearby Share

Share files with nearby contacts using Nearby Share.

Find it: Swipe up from the home screen and tap  **Settings** > **Connected devices** > **Connection preferences** > **Nearby Share**, then tap the switch next to **Use Nearby Share** to turn it on

Note: Bluetooth and Location features must be turned on. Not all phones can receive files using Nearby Share.



- 1 Tap **Device visibility** and then turn on the switch next to **Visible to nearby devices** to choose an option:

- **Everyone:** Anyone near you can share with your phone when the screen is unlocked.
- **Contacts:** Your phone is visible to your nearby contacts while your screen is on and unlocked. You can choose to make your phone visible to all contacts or select specific contacts.

- **Your devices:** Your phone is visible to your devices with the same Google Account signed in.

2 Open the file you want to share, such as a photo, video, or website.

3 Tap  >  **Nearby Share**.


Note: If you don't see  **Nearby Share** as an option, tap **Create link**, then tap  **Nearby Share**.

4 Tap the device to send the file.

5 Tap **Accept** on the receiving phone.

Print

Print your photos, documents, and more from your phone.

Swipe up from the home screen and tap  **Settings** > **Connected devices** > **Connection preferences** > **Printing**, then tap a print service. Tap **Add service** to add a print service that can provide data by Wi-Fi or mobile network.


To print from your phone, select the file and tap Menu  or More  >

Print.



Sync to the cloud


One account with access to everything, everywhere—phone, tablet, computer.

Auto-sync your Google account

To auto-sync your Google account, swipe up from the home screen and tap  **Settings** > **Passwords & accounts**, then tap the switch next to **Automatically sync app data** to turn it on.

Manually sync your Google account

To manually sync your Google account, swipe up from the home screen and tap  **Settings** > **Passwords & accounts**, choose your Google account, select **Account sync**, and tap the switch next to the services you want to sync. Then, tap Menu  > **Sync now**.

If an app doesn't show in the account sync list, it can't auto-sync with your Google Account. To manually sync other Google apps, look in each app's settings menu for an option to sign in or sync. You can also use  **Google One** to [Backup & restore](#) all the apps, messages, and more.

Phone, & tablet & Bluetooth® accessories


Your Android phone, tablet and Bluetooth accessories can work together to help you get the most out of both:

- » **Transfer media and files:** Copy files to your phone and transfer them to other devices—see [Share files with your computer](#).
- » **Phone hotspot:** If you have a Wi-Fi tablet, turn your phone into a Wi-Fi hotspot to let your tablet access the Internet anywhere—see [Wi-Fi hotspot](#).

- » **Bluetooth accessories:** If you have a Bluetooth keyboard or other accessories to use with your tablet, remember you can use them with your phone too. To connect them, see [Connect with Bluetooth wireless](#).

Cast to a TV

To cast (mirror) your screen on a TV, showing all apps and screens you use on your phone, you'll need to use a TV with Chromecast™ built-in, or plug a Chromecast device into your TV's HDMI port.

- 1 Make sure your phone and TV/Chromecast device are connected to the same Wi-Fi network.
- 2 On your phone, swipe up from the home screen and tap  **Settings** > **Connected devices** > **Connection preferences** > **Cast**.
- 3 Tap the name of the TV/Chromecast device to connect.

Note: To stop casting, on the casting notification, tap  > **Disconnect**.

Use a microSD card




You can move pictures, videos, audio, and other media files from internal phone storage to a microSD card (sold separately).

Note: Your phone supports microSD cards up to **1 TB**. Use a Class 10 (or higher) microSD card for best results.

Format a microSD card

Insert the microSD card into your phone (see [Insert the SIM and microSD cards](#)).



Caution: Do not use your computer to format the microSD card.


- 1 On your phone, swipe up from the home screen and tap  **Settings** > **Storage**.
- 2 Tap  and select the microSD card from the drop-down list.
- 3 Tap Menu  then select **Format**.

Caution: Formatting a microSD card will erase any files on the card.

Move files from your phone to a microSD card




You can move files from your phone to a microSD card. This frees up internal phone space.

- 1 Swipe up from the home screen and tap  **Settings** > **Storage** > **Free up space** > **Browse** > **Internal storage**.
- 2 Touch and hold a folder or a particular item, then tap Menu  > **Move to** > **SD card**.
- 3 Select a folder or location, then tap **Move here**.

Tip: To move a folder or an item to a new folder, tap Menu  next to the folder or item > **Move to** > **Internal storage** > **Add new folder**, then enter the folder name and tap **Move to folder**.


Remove a microSD card

To unmount your microSD card (so you can take it out of your phone):

- 1 On your phone, swipe up from the home screen and tap  **Settings** > **Storage**.
- 2 Tap  and select the microSD card from the drop-down list.
- 3 Tap Menu  then select **Eject**.

Caution: Do not remove a microSD card while your phone is using it or writing files to it.

Airplane mode

Use airplane mode to turn off all your wireless connections—useful when flying. Swipe the status bar down and tap  **Airplane mode**.


Note: When you select airplane mode, all wireless services are disabled. You can then turn Wi-Fi and/or Bluetooth back on, if permitted by your airline. Other wireless voice and data services (such as calls and text messages) remain off in airplane mode. Emergency calls to your region's emergency number can still be made.

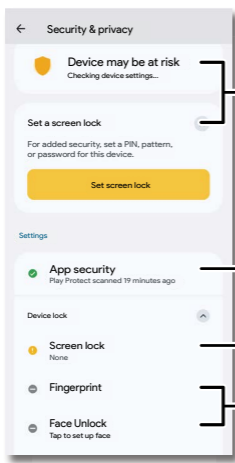
Protect your phone

- » [Security](#)
- » [Privacy](#)
- » [Google privacy & security](#)
- » [App pinning](#)
- » [Backup & restore](#)
- » [App safety](#)
- » [Data usage](#)

Security

Your phone and sensitive data are protected, even when you are not using the phone.

Find it: Swipe up from the home screen and tap  **Settings** > **Security & privacy**



See your device security status and get help on how to improve security.


Protect your phone and sensitive data from harmful apps.


Set your screen lock and adjust settings.

Unlock your phone with your fingerprint or your face.



App security

Google Play Protect regularly checks your phone and apps for harmful behavior. You'll be notified of any detected security risks.

Find it: Swipe up from the home screen and tap  **Settings** > **Security & privacy** > **App security**

- » **Scan harmful apps:** Google Play Protect is on by default on your phone. To turn it off, tap , tap the switch next to **Scan apps with Play Protect**, and then tap **Turn off**.


Note: For security reasons, it's recommended that you always keep Google Play Protect on.

- » **Detect unknown apps:** Google Play Protect automatically sends apps installed from unknown sources to Google for better detection. To turn off this feature, tap , and then tap the switch next to **Improve harmful app detection**.
- » **Manage permissions for unused apps:** Google Play Protect automatically resets permissions, deletes temporary files, and stops notifications for apps you haven't used for at least three months. To turn off this feature for individual apps, tap  > **Permissions for unused apps**, then select an app and tap **Pause app activity if unused**.

Device lock


The easiest way to protect your phone is to lock your touchscreen when you are not using it. You can choose the best method for you to unlock your phone.


Screen lock

Find it: Swipe up from the home screen and tap  **Settings** > **Security & privacy** > **Device lock** > **Screen lock**

1 Select a lock type:

- **None:** Turn off the screen lock.
- **Swipe:** Drag up from the bottom of the screen to unlock.
- **Pattern:** Draw a pattern to unlock.
- **PIN:** Enter four to sixteen digits to unlock.
- **Password:** Enter four to sixteen letters, digits, or symbols to unlock.


2 After setting the lock type, tap  for screen lock settings. Tap **Lock after screen timeout** to change when to lock after screen timeout (except when kept unlocked by Smart Lock).

Tip: To change when your touchscreen goes to sleep, swipe up from the home screen and tap  **Settings** > **Display** > **Screen timeout**.


Note: You can make emergency calls on a locked phone (see [Emergency calls](#)). A locked phone still rings, and you do not need to enter a PIN or password to answer a call.

Unlock with your fingerprint

You can use the fingerprint sensor (see [First look](#) for the sensor location) to unlock your phone, authorize purchases, or sign in to apps.

Find it: Swipe up from the home screen and tap  **Settings** > **Security & privacy** > **Device lock** > **Fingerprint**

Tip: You need to set a backup screen lock first such as a pattern, PIN, or password before adding a fingerprint.


- » **Enroll your fingerprint:** Follow the on-screen prompts to record your fingerprint. When finished, tap **Done**, or tap **Add another** to add another fingerprint.
- » **Add more fingerprints:** Tap **Add fingerprint**. You can add up to 5 fingerprints.
- » **Remove your fingerprint:** Tap  next to a fingerprint to delete it.

- » **Rename your fingerprint:** Tap a fingerprint name, then type a new name and tap **OK**.

Unlock with your face

Unlock your phone by looking at it.

Caution: Face unlock is less secure than a pattern, PIN, or password. Someone who looks like you could unlock your phone.

Find it: Swipe up from the home screen and tap  **Settings** > **Security & privacy** > **Device lock** > **Face Unlock**


Tip: You need to set a backup screen lock first such as a pattern, PIN, or password before adding a face.

- » **Enroll your face:** Tap **Set up** and follow the on-screen prompts to record your face. When finished, tap **Next** > **Done**.
- » **Change face unlock settings:** Customize how to unlock your phone with your face.
 - **Skip lock screen:** You can go to the home screen or the last used app directly after unlocking with your face. When this feature is off, to go to the home screen or the last used app, you need to swipe up from the lock screen after unlocking.
 - **Lift to unlock:** Tap the switch to turn it on, and then you can unlock your phone by lifting and looking at it. When this feature is off, you need to look at your phone and press the Power button to unlock your phone.
- » **Redo your face model:** To remove the existing face model and create a new one, tap **Redo face scan** > **Redo**.
- » **Remove face unlock:** To delete the stored face model and turn off face unlock, tap **Delete face model** > **Delete**.

Note: If your phone has been locked for more than 4 hours, face unlock can't work until you unlock the phone with another screen lock method.

Smart lock


Keep your phone unlocked when it's safe with you.

Find it: Swipe up from the home screen and tap  **Settings** > **Security & privacy** > **More security settings** > **Smart Lock**

- » Tap **On-body detection** to keep your phone unlocked when it's in motion.
- » Tap **Trusted places** and **Trusted devices** to add locations and nearby devices that will keep your phone unlocked.

SIM card lock

Your SIM card came with a default PIN from your carrier. You can use it to set up an optional SIM card lock, which prevents others from using your cellular plan and accessing account information if your phone is stolen.

Find it: Swipe up from the home screen and tap  **Settings** > **Security & privacy** > **More security settings** > **SIM card lock**

Note: If you add a SIM card lock, you will be prompted to enter the PIN each time you swap SIM cards or restart the phone.

- 1 Make sure you have the PIN your carrier provided with the SIM card. If you don't have it, contact your carrier.
- 2 Tap the switch next to **Lock SIM card**, then enter your carrier-provided PIN and follow the prompts to set up a SIM card lock.
- 3 Tap **Change SIM PIN** and then follow the prompts to change the default SIM PIN.

Caution: If you enter an incorrect PIN multiple times, your SIM card will be disabled. To enable your SIM card again, contact your carrier for a PIN Unlock Key (PUK).

Can't unlock?

If you forget your pattern, PIN, or password, you can enter your Google account email and password on another device to unlock the phone.


If you don't have a Google account on your phone, contact your service provider to have your phone factory reset.

Warning: A factory reset will delete all data on your phone.

Secure folder


Add apps and files to your secure folder to keep your sensitive data safe.

Find it: Swipe up from the home screen and tap  **Settings** > **Security & privacy** > **More security settings** > **Secure folder**

Or, you can also open your secure folder from Moto Secure. Swipe up from the home screen and tap  **Moto Secure** > **Secure folder**. For more, see [Moto Secure](#).

Network protection


Protect your phone from unsecure networks.

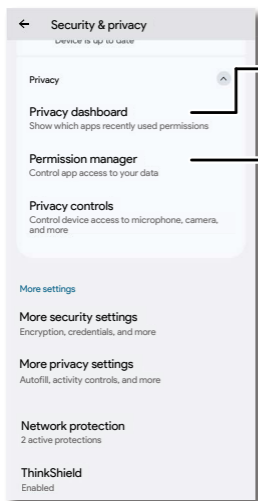
Find it: Swipe up from the home screen and tap  **Settings** > **Security & privacy** > **Network protection**

Or, you can also open network protection from Moto Secure. Swipe up from the home screen and tap  **Moto Secure** > **Network protection**. For more, see [Moto Secure](#).

Privacy

Keeping your information safe is important.

Find it: Swipe up from the home screen and tap  **Settings > Security & privacy > Privacy**



See which apps used permissions in the past 24 hours.

Decide which apps can access your information.

Privacy dashboard


See which apps used your phone's permissions in the past 24 hours.

Find it: Swipe up from the home screen and tap  **Settings > Security & privacy > Privacy > Privacy dashboard**

Tap **Location**, **Camera**, or **Microphone**, to see a timeline of when apps were used. Tap **Manage permission** to view and change permissions. Tap **See other permissions** for more apps.

Permission manager

See which apps have permissions to access private information, such as calendar events, contacts, and your location.


Find it: Swipe up from the home screen and tap  **Settings > Security & privacy > Privacy > Permission manager**

Tap a permission, then select an app and tap **Allow**, **Don't allow**, **Allow all the time**, **Allow only while using the app**, or **Ask every time**.

Note: Turning off permissions may cause an app not to function correctly.


Privacy controls

Control your phone's access to camera, microphone, location, and more.

Find it: swipe up from the home screen and tap  **Settings > Security & privacy > Privacy > Privacy controls**

Control access to your camera and microphone


Your phone allows apps and services to access your camera and microphone.

To block access to your camera or microphone for all apps and services, swipe up from the home screen and tap  **Settings** > **Security & privacy** > **Privacy** > **Privacy controls**, and then tap the switch next to **Camera access** or **Microphone access** to turn it off.


Tip: To know which app is using your camera or microphone and block the app from using it, see [Privacy notifications](#). To control the camera or microphone access for an individual app, see [Permission manager](#).

Note: If **Microphone access** is turned off, microphone data may still be shared when you call an emergency number.

Show clipboard access


Your phone shows a message when apps access text, images, or other content you've copied. To turn this off, swipe up from the home screen and tap  **Settings** > **Security & privacy** > **Privacy** > **Privacy controls** > **Show clipboard access**.

Show passwords

Your phone briefly shows password characters as you type. To turn this off, swipe up from the home screen and tap  **Settings** > **Security & privacy** > **Privacy** > **Privacy controls** > **Show passwords**.

Location Settings

You can manage your location permissions and see which apps recently used your phone's location. Location may use sources, like GPS, Wi-Fi, mobile networks, and sensors.

Find it: Swipe up from the home screen and tap  **Settings** > **Security & privacy** > **Privacy** > **Privacy controls** > **Location Settings**


- » To block access to your phone's location for all apps and services, tap the switch next to **Use location** to turn it off.
- » To see all apps that recently used your phone's location, tap **See all**.
- » To choose which apps can access location, tap **App location permissions**, then select an app and tap **Allow all the time**, **Allow only while using the app**, **Ask every time**, or **Don't allow**.


Tip: To share only your approximate location to an individual app, tap the switch next to **Use precise location** to turn it off.

- » To choose which services can access your location, tap **Location services**, then select a service and tap the switch to turn it on or off.


Notifications on lock screen

Your phone shows notifications even when it's locked.

To choose which notifications show, swipe up from the home screen and tap  **Settings** > **Security & privacy** > **More privacy settings** > **Notifications on lock screen**. Tap **Show all notification content**, **Show sensitive content only when unlocked**, or **Don't show notifications at all**.

Or, you can also swipe up from the home screen and tap  **Settings** > **Notifications** > **Notifications on lock screen**. Tap **Show conversations, default, and silent**, **Hide silent conversations and notifications** or **Don't show any notifications**.

Google privacy & security


Find it: Swipe up from the home screen and tap  **Settings** > **Google** > **Manage your Google Account**

Tap an option:

- » **Personal info:** Review your information. You can remove or add information, and choose who can see your information.
- » **Data & privacy:** Review websites you've visited and more. Choose whether to save your browser and other history. If there are privacy suggestions, tap to explore them.
- » **Security:** See recommendations to protect your account and recent sign-in activity. Set up additional verification methods to make your account more secure.

App pinning


To keep an app open on your screen, pin it for easy access.

Find it: Swipe up from the home screen and tap  **Settings** > **Security & privacy** > **More security settings** > **App pinning**, then tap the switch to turn it on

To pin an app, open the app and tap Recents  then tap the app's icon at the top of the screen and tap  **Pin**.


To unpin the app, touch and hold  and .

Backup & restore

Find it: Log into your Google account, swipe up from the home screen and tap  **Settings** > **System** > **Backup**, then tap the switch next to **Backup by Google One** to turn it on and tap **Back up now**

Your Google account data is backed up online. If you reset or replace your phone, just log in to your Google account to restore the contacts, events, and other details you synced with the account.

To restore your Google Play apps, see [Take care of your apps](#).

Tip: Every Google Account comes with 15 GB of cloud storage for Google Drive, Gmail, and Google photos. You can also use  **Google One** for more storage. Additional charges may apply.

App safety

Tip: Choose your apps and updates carefully, as some may impact your phone's performance—see [Choose carefully](#).


Apps from Google Play


Get music, movies, books, apps, games, and more.

Find it:  **Play Store**

Apps from the Internet



You can get apps from other online app stores using your browser.

When installing an app, make sure you read the alerts that tell you what information the app will access. If you don't want the app to access this information, cancel the installation, or set strong privacy permissions: swipe up from the home screen and tap  **Settings** > **Security & privacy**.

To let your phone install apps that are not on Google Play, swipe up from the home screen and tap  **Settings** > **Apps** > **Special app access**, then tap **Install unknown apps** and choose which apps are allowed to install them.


Choose carefully

Here are a few tips:

- » To help prevent spyware, phishing, or viruses, use apps from trusted sites, like  **Play Store**.
- » Check the app's ratings and comments before installing. If you doubt the safety of an app, don't install it.
- » Apps use up memory, data, battery, and processing power—some more than others. If you're not happy with how much memory, data, battery or processing power an app is using, uninstall it.
- » Monitor children's access, to prevent exposure to inappropriate content, and set limits on phone use, swipe up from the home screen and tap  **Settings** > **Digital Wellbeing & parental controls**.
- » Certain apps may not provide completely accurate information. Take care, especially when it comes to personal health.

Set app permissions

You may be asked for permissions when you use a feature in an app.



To modify permissions for an app, touch and hold an app, then tap  App info > **Permissions**. Tap a feature (such as microphone), then tap **Allow all the time**, **Allow only while using the app**, **Ask every time**, or **Don't allow**.



Take care of your apps

- » **Uninstall apps:** To remove an app from your phone, touch and hold the app, then drag it to **Uninstall**.

To remove an app from the home screen, touch and hold the app, then drag it to **Remove**. The app isn't removed from your phone, just the home screen.


Note: Not all apps can be uninstalled, but they can be disabled.

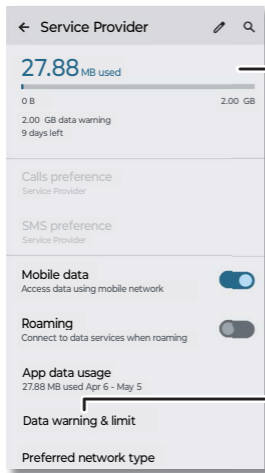
- » **Disable/Stop apps:** To disable an app or force it to stop running, swipe up from the home screen and tap  **Settings** > **Apps**. Tap an app, then tap **Disable** or **Force stop**. To enable it, tap **Enable**.
- » **Reinstall apps:** To reinstall apps from Google Play, swipe up from the home screen and tap  **Play Store**. Tap your profile picture, then tap **Manage apps & device** > **Manage** > **Installed** > **Not installed**. The apps you've used before are listed and available for download.

- » **Update apps:** See [Add and update apps](#).
- » **See app details:** Touch and hold an app, then tap .
- » **See app data usage:** To show which apps are using the most data, swipe up from the home screen and tap  **Settings** > **Network & internet** > **Mobile network** > **App data usage**. For more, see [Data usage](#).

Data usage



You can track the amount of data your phone uploads and downloads.


Find it: Swipe up from the home screen and tap  **Settings** > **Network & internet** > **Mobile network**



See the total amount of data used for this period.

Set a warning and limit for how much data you used.

To see a breakdown of which apps are using data, swipe up from the home screen and tap  **Settings** > **Network & internet** > **Mobile network** > **App data usage**. Some apps transfer data in the background when you're not viewing them—to help reduce this type of data usage, swipe up from the home screen and tap  **Settings** > **Network & internet** > **Data Saver**, then tap the switch next to **Use Data Saver** to turn it on.

Tip: To see Wi-Fi data usage, swipe up from the home screen and tap  **Settings** > **Network & internet** > **Internet** > **Non-carrier data usage**.

Note: Usage information is provided to help you manage your phone. This may not match the amounts charged by your service provider, as they're not measured in the same way.

Troubleshoot your phone

- » [Restart or remove an app](#)
- » [Restart your phone](#)
- » [Check for software update](#)
- » [Reset](#)
- » [Free up storage](#)
- » [Stolen phone](#)
- » [Find the IMEI number](#)

Restart or remove an app


If an app locks up your phone as soon as you turn it on, restart in Safe Mode: Press the Power and Volume Up buttons at the same time. When you see the **Power off** option, press and hold it, then tap **OK**. Your phone restarts with **Safe mode** in the lower left. Then, try removing the app.

To exit safe mode, restart your phone.

Restart your phone

In the unlikely event that your phone stops responding to touches and button presses, try a reboot—press and hold the Power button until the screen goes dark and your phone restarts.

Check for software update

To manually check for updates, swipe up from the home screen and tap  **Settings** > **About phone** > **Android version** > **Google Play system update**.


Your phone downloads updates over your Wi-Fi connection (if available) or mobile network. We recommend that you download updates over a Wi-Fi connection. These updates can be quite large and may not be available in all countries.

For safety reasons, your phone may receive security updates automatically over mobile network, if Wi-Fi is not available.

Note: When updating your phone, make sure you have enough battery power to complete the update.

If the mobile network updates are not available in your country, update using a computer. On your computer, go to www.motorola.com/update.


Reset








To reset your phone to factory settings and erase all the data on your phone, swipe up from the home screen and tap  **Settings** > **System** > **Reset options** > **Erase all data (factory reset)**.

Warning: All downloaded apps and user data on your phone will be deleted. Data on the cloud will not be deleted.


Free up storage

To help your phone perform better, you can remove old and unused items, like downloads and apps.

Tip: To see how much storage you have left on your device, swipe up from the home screen and tap  **Settings** > **Storage**.

- » **Clear unused files:** Swipe up from the home screen and tap  **Files** > **Clean**. Follow on-screen instructions to remove items. To view the type of items, tap  **Files** > **Browse**, then tap a category (downloads, images, videos, apps, etc.).
- » **Uninstall apps:** Swipe up from the home screen and tap  **Settings** > **Apps** > an app > **Uninstall**.
- » **Clear apps data:** Swipe up from the home screen and tap  **Settings** > **Apps**, then select an app and tap **Storage & cache** > **Clear storage**, **Clear cache**, or **Manage space**. Or swipe up from the home screen, touch and hold an app, then tap  App info > **Storage & cache** > **Clear storage**, **Clear cache**, or **Manage space**.
- » **Delete photos & videos:** Swipe up from the home screen and tap  **Photos**, then touch and hold one or multiple items you want to remove and tap  **Delete**.

Note: If you back up photos and videos to your Google account, when you delete them from the Google Photos app, they're also deleted from your Google account.

- » **Remove backed up photos and videos over a period of time:** To automatically remove copies from your phone's internal storage after 30, 60, or 90 days, swipe up from the home screen and tap  **Settings** > **Storage** > **Storage manager**. Tap the switch next to **Use Storage manager** to turn it on, then tap **Remove photos & videos** and select a duration.


Stolen phone

Find My Device allows you to remotely locate and lock your phone, and erase its data, to protect your phone in case it's lost or stolen.

Find it: Swipe up from the home screen and tap **Settings** > **Security & privacy** > **Find My Device** > **Use Find My Device**

To learn how to use Find My Device, tap **learn more**. To confirm that you can find your phone, visit <https://www.google.com/android/find/> from your computer or another device.


Find the IMEI number

You can find the IMEI number by typing *#06# on your phone's dialpad. Or swipe up from the home screen and tap  **Settings** > **About phone** > **IMEI**.

Note: For service and support, see [Get more help](#).

Accessibility

See, hear, speak, feel, and use. Accessibility features are there for everyone, helping to make things easier.


Find it: Swipe up from the home screen and tap  **Settings** > **Accessibility**

Tip: For more information about your phone's accessibility features, visit www.motorola.com/accessibility.


- » [Create a shortcut](#)
- » [Make your phone speak](#)
- » [Speak to your phone](#)
- » [Change your phone's display](#)
- » [Change your phone's sounds](#)
- » [Hearing aids \(U.S. only\)](#)


Create a shortcut

For some accessibility features, you can use a gesture to quickly activate accessibility features on your phone.

Find it: Swipe up from the home screen and tap  **Settings** > **Accessibility**


To set up a shortcut, tap a feature, such as magnification, then tap the switch next to the shortcut to turn it on. To use the shortcut, tap the shortcut icon that's added to the screen.



Tip: To customize accessibility shortcuts, swipe up from the home screen and tap  **Settings** > **Accessibility** > **Accessibility shortcuts**.

Note: You can also use a large on-screen menu to control your device. Swipe up from the home screen and tap  **Settings** > **Accessibility** > **Accessibility Menu**, then tap the switch next to **Accessibility Menu shortcut** to turn it on.

Make your phone speak


Select to speak

Find it: Swipe up from the home screen and tap  **Settings** > **Accessibility** > **Select to Speak**

Tap the switch to turn it on, then tap  > . Your phone reads the screen from top to bottom.


TalkBack

Use TalkBack to read your screen out loud—screen navigation, selections, even books.


To turn TalkBack on, swipe up from the home screen and tap  **Settings** > **Accessibility** > **TalkBack** > **Use TalkBack**.

- » **Tap** something on the screen to hear a description or text readout.
- » **Double-tap** an outline to open or activate an item.
- » **Swipe** using two fingers to scroll through lists or between screens.

- » Tap **Use TalkBack**, then double-tap the outline. On the Confirmation message, tap **Stop**, then double-tap it.


Tip: To customize TalkBack settings, swipe up from the home screen and tap  **Settings > Accessibility > TalkBack > Settings**.


Text-to-speech output

To set the language, speech rate and pitch of the screen reader, swipe up from the home screen and tap  **Settings > Accessibility > Text-to-speech output**.

Braille

Combine your Braille display with TalkBack for braille and speech feedback.

To use Braille display, first turn on **TalkBack**. To turn on your Braille display, swipe up from the home screen and tap  **Settings > Accessibility > TalkBack > Settings > Braille display > Use braille display**.

Tip: To set up Braille keyboard, swipe up from the home screen and tap  **Settings > Accessibility > TalkBack > Settings > Braille keyboard**.






Speak to your phone

Speak a command to turn on an accessibility feature. For example: “Hey Google, turn on TalkBack”. For more on voice commands, see [Speak](#).



Change your phone's display

Display settings & magnification



Get a closer look.

- » **Change font size:** Increase the font size on your screen. Swipe up from the home screen and tap  **Settings > Accessibility > Display size and text > Font size**. See also [Customize sounds & appearance](#).
- » **Change display size:** Make the items on the screen larger. Swipe up from the home screen and tap  **Settings > Accessibility > Display size and text > Display size**.
- » **Adjust colors:** Adjust colors if you are color blind. Swipe up from the home screen and tap  **Settings > Accessibility > Color and motion > Color correction**. Tap **Use color correction** and choose an option.
- » **Display brightness:** Swipe the status bar down twice and drag the slider to set brightness level. If the brightness slider doesn't go low enough, you can set the screen to extra dim. Swipe up from the home screen and tap  **Settings > Accessibility > Extra Dim**, then tap the switch next to **Make screen extra dim** to turn it on and use the **Intensity** slider to dim the screen.
- » **Pinch to zoom:** Pinch to zoom on maps, web pages, and photos. To zoom in, tap the screen with two fingers and then drag them apart. To zoom out, drag your fingers together, or double-tap the screen.
- » **Screen magnification:** Swipe up from the home screen and tap  **Settings > Accessibility > Magnification**. Tap **Magnification**



shortcut, and choose a shortcut. Then tap the screen, drag two fingers to move around the screen, and pinch to adjust zoom.

- » **Browser:** Choose text size when browsing websites. Swipe up from the home screen and tap  **Chrome** > Menu  > **Settings** > **Accessibility**. Select **Force enable zoom** to allow zooming on all web pages.


Messages

To make text entry even easier, use features like auto-capitalization, auto-correction, and more. Swipe up from the home screen and tap  **Settings** > **System** > **Languages & input** > **On-screen keyboard** > **Gboard** > **Text correction**. Or tap  on the keyboard and speak your message.

Live caption

Automatically caption videos, audio messages, recordings, and more. Swipe up from the home screen and tap  **Settings** > **Accessibility** > **Live Caption**. Or you can press the side volume buttons and tap  to turn it on.



When a caption shows, touch and hold the caption to move it. Double-tap the caption to expand it.


To customize caption size and style, swipe up from the home screen and tap  **Settings** > **Accessibility** > **Caption preferences**.

Note: Live Caption uses more battery.


Change your phone's sounds

Calls

When you want to hear who's calling, assign a unique ringtone to a contact. Swipe up from the home screen and tap  **Contacts**, tap the contact, then tap Menu  > **Set ringtone**.

To end a call by pressing the Power button, swipe up from the home screen and tap  **Settings** > **Accessibility** > **System controls** > **Power button ends call**.

Volume & vibrate

Find it: Swipe up from the home screen and tap  **Settings** > **Sound & vibration**



- » Drag the volume sliders to set volume levels for your music or videos, alarms, and ringtones/notifications.
- » To make your phone vibrate for incoming calls (even when the ringer is silent), tap **Vibration & haptics** > **Ring vibration**.

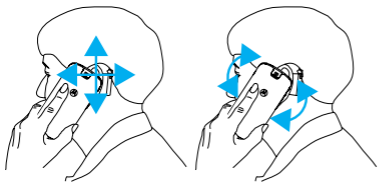
Tip: Feel a vibration when you tap the screen. Tap **Vibration & haptics** > **Touch feedback** to turn it on/off.

Hearing aids (U.S. only)

To help get a clear sound when using a hearing aid or cochlear implant, your phone may have been rated for use with hearing aids. If your phone's box has "Rated for Hearing Aids" printed on it, then please read the following guidance.

Note: Ratings are not a guarantee of compatibility (visit www.motorola.com/hacphones). You may also want to consult your hearing health professional, who should be able to help you get the best results.

- » **Settings:** Tap  **Phone** > Menu  > **Settings** > **Accessibility** > **Hearing aids**.
- » **Call volume:** During a call, press the side volume buttons to set a call volume that works for you.
- » **Position:** During a call, hold the phone to your ear as normal, and then rotate/move it to get the best position for speaking and listening.



TTY (U.S. only)

You can use your phone in TTY mode with standard teletype machines.

Note: Wi-Fi must be turned off.


Tap  **Phone** > Menu  > **Settings** > **Accessibility** > **TTY mode** and select the mode you need:

- » **TTY Full:** Type and read text on your TTY device.
- » **TTY HCO:** Type on your TTY device and listen to voice replies on your phone's speaker.
- » **TTY VCO:** Speak into your phone and read text replies on your TTY device.

Note: You'll need a cable/adaptor to connect your TTY device to the headset jack on your phone. Refer to your TTY device guide for mode and usage information.

Get more help

Get answers, updates, and info:

- » **Help is here:** Swipe up from the home screen and tap  **Settings** > **Help** to get walk-through tutorials, how-tos, or FAQs, right on your phone.
- » **Get more:** Get software, FAQs, and more at www.motorola.com/mymotog.
- » **Join the conversation:** Find us on YouTube, Facebook™, and Twitter.

Where is my legal, safety & regulatory information?

In order to provide you with better access to this important information, we've made the materials accessible from the phone's settings menu and on the web. Review these materials prior to using your device. To access the materials from a connected phone, go to **Settings** > **About phone** > **Legal information**, and select a topic.

To access the materials on the web, visit www.motorola.com/device-legal.

Service & repairs

If you have questions or need assistance, we're here to help. Go to www.motorola.com/support, where you can select from a number of customer care options.

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