



# moto g<sup>50</sup>

User Guide

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You can also read this help on your phone at **Settings > Help**.

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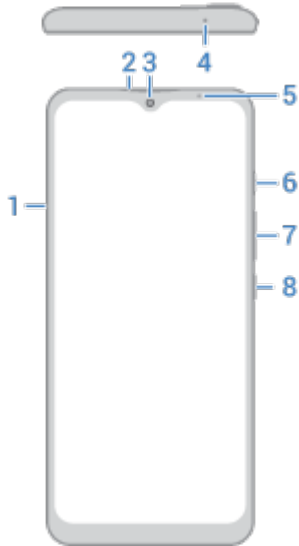
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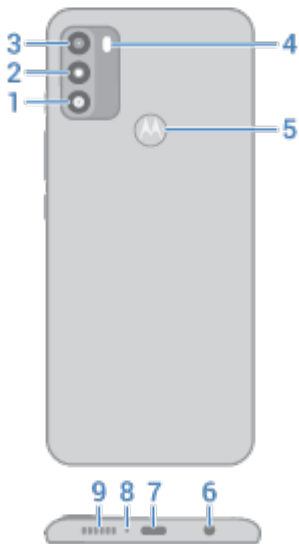
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## About your hardware

### Hardware diagram



1. Tray for [SIM and SD card](#)
2. Earpiece
3. Front camera (To learn more, read [. .](#))
4. Microphone
5. Proximity sensor
6. [Google Assistant](#) button
7. [Volume up/down](#) button
8. Power button



1. Depth camera (To learn more, read .)
2. Main camera
3. Macro camera
4. Flash
5. [Fingerprint sensor](#)
6. Headset jack
7. USB-C port for [charging](#), [transferring](#) files, sharing connection with [tethered devices](#).
8. Microphone
9. Speaker

## Care for your phone

To clean the screen:

- While this does not disinfect your phone, the best way to keep your phone clean is to wipe it thoroughly with a dry soft cloth. Avoid abrasive cloths, including paper towels and other materials with rough surfaces.
- If the screen gets drops of liquid on it, wipe it with a clean, dry cloth.

To disinfect your phone:

- It is okay to use wipes or cloths moistened with 70% isopropyl alcohol to gently wipe your screen.
- When disinfecting or cleaning your phone, turn it off and avoid getting any moisture in its openings, including the charging port, headphone jack, microphones and speakers.
- Don't submerge your phone in any cleaning agents, avoid using any cleaners with bleach or abrasives, and avoid spraying cleaners directly on the screen.

## Prevent water damage

Mobile phones marketed as water repellent are not waterproof. Avoid prolonged exposure to water, and do not submerge in water. If your phone is exposed to water, dry your phone and ports with a soft, clean cloth.

Water 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 or puncture your phone, as this could damage the water repellent features.
- 

## Insert and remove SIM and SD cards

### About the SD card

Your phone supports an optional microSD card up to 512 GB.

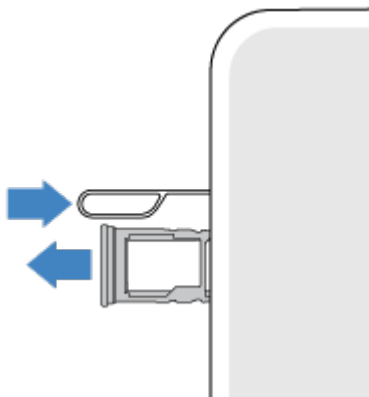
A Class 2, 4, or 6 card is sufficient.

Your phone uses the card as portable storage for media files: photos, videos, and music. Because it's portable, you can easily [swap the card](#) and its content between devices. After you insert the card, be sure to update settings within media apps (like camera, music, and podcast apps), so they use the card to store content you create or download.

You can't store apps on the SD card because it is portable storage.

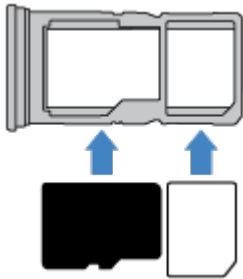
### Insert or replace cards

1. If you are removing an SD card, [unmount it](#) first.
2. Insert the tool into the hole in the tray and gently push to pop it out.

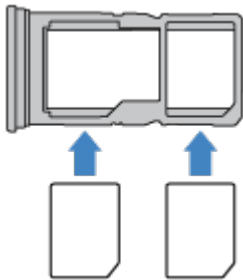


3. Insert or remove the cards as needed.

To use an SD card and a SIM card:

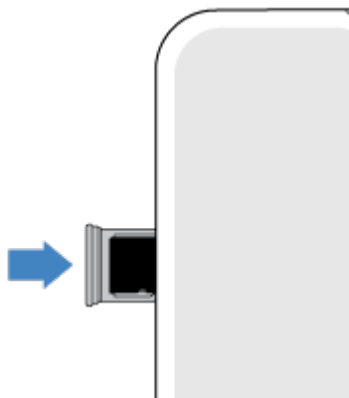


Or, to use two SIM cards (dual-SIM models only):




To see if your phone supports dual SIMs, go to **Settings > About phone > SIM Status**. If you see **SIM Slot 1** and **SIM Slot 2**, then your phone supports dual SIMs.

4. Push the tray back into the phone.



5. If you inserted an SD card, format it now.

If you inserted two SIMs, you'll receive a notification to set them up. Swipe the notification down and touch it to [manage dual SIMs](#). If you see , [troubleshoot](#) the issue.

**Note:** If you need to activate a SIM, contact your carrier.

## Fix a problem

Select a problem to see troubleshooting steps.

### SIM card

[SIM not recognized](#)

[Can't make calls](#)

[Can't answer calls](#)

### SD card





[Phone doesn't recognize card](#)

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## Copy data from old phone

### Copy data from iPhone

You'll use Google Drive to copy files from your iPhone and iCloud account to your new phone and [Google account](#):

- Photos will back up to  Photos.
  - Contacts will back up to  Contacts.
  - Calendar will back up to  Calendar.
1. Charge both phones and connect them to a Wi-Fi network.
  2. To ensure you don't miss any messages or calls:
    - a. Turn off iMessage. (**Settings** > **Messages** >  off. Or, if your SIM has been removed, [deregister your phone](#).)
    - b. Turn off FaceTime. (**Settings** > **FaceTime** >  off.)
  3. Download the [Google Drive](#) app on your iPhone.
  4. On your iPhone, open Drive and then:
    - a. Sign in with your Google account. If you don't have one, you can create it now.
    - b. Touch  > **Settings** > **Backup** and start the backup.
  5. Wait for the backup to complete.
  6. When complete, on your new phone, sign in with the same [Google account](#) (**Settings** > **Accounts** > **Add account**).

### Copy data from Android phone

During setup, you can copy your apps, music, contacts, messages, and more. [Learn what does and doesn't get copied](#).

If you no longer have your old phone or can't turn it on, you can copy files using a backup from the cloud with your Google account.

To copy files:

1. Charge both phones and turn them on.
2. On your new phone:
  - a. If this is the first time you've turned it on, select your language on the setup screen.
  - b. If you skipped copying files during setup, open the **Settings** app and touch **Finish setting up your device**.
3. Touch **Start**.

4. Insert your SIM to connect to the mobile network, or touch **Skip**.
5. Connect to a Wi-Fi network and touch **Next**.
6. Follow the onscreen instructions to select the old phone or backup associated with your Google account, and to choose which apps and data to copy.

**Tip:** Be sure to leave **Back up to Google Drive** turned on.

## What gets copied from Android phone

If you [copy data from another Android phone](#) during setup, here's what gets copied:

- Apps and app data
- Music, photos, and videos
- Google accounts
- Contacts stored on your phone or SIM card
- Text messages
- Multimedia attachments in messages
- Most phone settings
- Wallpaper
- Call history



You'll see these when you sign in to your Google account on your new phone.

What won't copy:

- Downloads, like PDF files
- Apps that aren't from Play Store
- Accounts other than Google accounts
- Contacts and calendars for services other than Google (such as WhatsApp)
- Ringtones

## Import contacts from SIM



If you have a SIM card with contacts saved on it, you can import them into your Google account.

1. [Insert the SIM](#) in your phone.  
Or, if your old phone is an Android phone and can connect to Wi-Fi, turn it on.
2. Open the  Contacts app.
3. Touch  > **Settings** > **Import** > **SIM card** > **OK**.
4. If you have multiple Google accounts, choose the account where you want to save them.

## Manage dual SIMs

### About dual SIMs

When two SIMs are [inserted](#):

- You see  at the top of the home screen. If you see , [troubleshoot](#) the issue.
- Both SIMs can make and receive calls and text messages.
- Only the [owner](#) of the phone (not additional users or guests) can access dual SIM settings.

### Set up SIM profile

Set SIM options based on how you expect to use the cards:

1. Go to [Settings](#) > **Network & internet** > **SIM cards**.
2. Select the option that best meets your needs:
  - **Smart SIM**: Automatically select SIM for voice calls based on your call history. In Brazil, selection is also based on your contact's carrier.
  - **Personal and Work**: Use one SIM for personal and the other for work-related voice calls.
  - **Manual**: Choose which SIM to use for voice calls, for data, and for SMS.
3. Follow onscreen instructions to complete setup.

### Change SIM profile

1. Go to [Settings](#) > **Network & internet** > **SIM cards**.
2. Touch **Dual SIM usage profile**.
3. Select a different profile and touch **CHANGE PROFILE**.
4. Select a new profile.
5. Follow onscreen instructions to complete setup.

To keep the same profile but adjust options for data, SMS, voice calls, video calls, or contacts:

1. Go to [Settings](#) > **Network & internet** > **SIM cards**.
2. Touch each preferred SIM and contact option to change.

*This information applies only to phones that support dual SIM cards and have both cards inserted.*

### Change SIM name, color, ringtone

When two SIMs are inserted, you'll see them referenced in apps like Contacts, Messages, and Phone. The SIM name shows your carrier and, if you're using the Personal and Work profile, shows which it's assigned to, but you can rename it. You can also change SIM icon color to make them easy to differentiate.

1. Go to [Settings](#) > **Network & internet** > **SIM cards**.
2. Touch the SIM to change.



3. Change settings as needed.
- 

## Set up voicemail




### Set voicemail password

Contact your carrier for help setting or recovering your password/PIN for voicemail.




### Set mailbox greeting

Your carrier provides and manages your voicemail.

To set your greeting:

1. Touch  > .
2. Touch & hold  to dial into your mailbox.
3. Follow your carrier's system prompts. If your voicemail is not set up, contact your carrier for instructions.

### Change voicemail options

1. Touch  >  > **Settings**.  
(If you don't see , swipe down on the screen.)
  2. Touch **Voicemail**.
  3. If you have dual SIMS, touch the SIM for the account to change.
  4. Touch **Advanced Settings**.
  5. Change any of the options:
    - To change voicemail service from your provider to another voicemail service or app, touch **Service**.
    - To change the number dialed to access voicemail, touch **Setup**.
- 

## Set up email


### Set up personal email

You can add multiple email accounts of the following types:

- Gmail
- Personal email from other providers (IMAP/POP)

If you [added](#) a Google account on your phone:

- When you open the Gmail app for the first time, you'll see your email for that account. You're already set up.

- To set up additional accounts, open Gmail, touch your profile icon , then touch **Add another account**.

If you didn't add a Google account to your phone and want to set up email for an IMAP/POP provider (an address that's not Gmail):

1. [Open](#) the **Gmail** app.
2. Follow the onscreen instructions to enter your email address, password, and account options.


If you have problems setting up the account, read Google's [help for Gmail](#).

## Set up corporate email

If you use Microsoft Office Outlook on your work computer, your phone can synchronize emails, calendar events, and contacts with the Microsoft Exchange server. Before you start, you'll need the following information from your company's IT department:

- Email address
- Email password
- Domain name
- Username
- Server name
- Security type/SSL settings
- Client certificate requirement


To set up corporate email:

1. [Open](#) the **Gmail** app.
2. Do one of the following:
  - If this is your first time opening the Gmail app, touch **Add another email address**.
  - If you have been using Gmail with another account, touch your profile icon , then touch **Add another account**.
3. Touch **Exchange and Office 365**.
4. Follow the onscreen instructions to enter your email address, password, and other information from your company's IT department.

## Switch account views

In the **Gmail** app, touch your profile icon , then select an account.

To open each inbox with one touch from your home screen, add [task shortcuts](#):

1. Touch & hold .
2. Drag **≡** for each account to a blank space on your home screen.

## Prepare for emergencies

### Set up emergency information

You can set up emergency information for first responders or others to view from your lock screen, such as your emergency contact and medical information (blood type, allergies).

To set up your emergency information:

1. Go to **Settings** > **About phone**.
2. Touch **Emergency information**.
3. Set up your information.

**Note:** Anyone who picks up your phone can [see your emergency info](#) without unlocking your phone.

### View emergency information

1. From the lock screen:
  - Swipe up and touch **Emergency** below the keypad.
  - Or, press and hold the Power button, then touch **Emergency**.
2. Touch **Emergency information** twice.

### Add message to lock screen

To add your name or a short message to your [lock screen](#) for anyone who finds your phone:

1. Go to **Settings** > **Display** > **Advanced** > **Lock screen**.
2. Touch **Add text on lock screen**.
3. Type the text to display and touch **Save**.

**Tip:** Don't put your mobile number as your contact info unless you can access your voicemail from another device.

### Send your location to emergency services

*Not all carriers and countries support this feature.*

If Android Emergency Location Service (ELS) works in your country and on your carrier's network and if you haven't turned off ELS, when you [call or text an emergency number](#), ELS sends your location to authorized emergency responders to help them locate you.

If ELS is off, your carrier might still send the phone's location during an emergency call. For more information, check with your carrier.

To turn ELS on or off:

1. Go to **Settings** > **Location** > **Advanced**.
2. Touch **Emergency Location Service**.

3. Turn it on  or off .


To learn more about ELS, read [Google's help](#).

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## Make it yours

This topic lists things that most people want to do with their new phone, with links to instructions on how to do them.

### Personalize your phone

- Set the [wallpaper](#).
- [Add apps](#) to your home screen.
- Adjust screen settings, like [style \(font size, color scheme\)](#), [rotation settings](#), and [dark background](#).
- You can use either the  buttons or gestures to move between apps and screens. [Choose which System navigation to use](#).
- Assign [ringtones](#) or [photos](#) to friends you call.
- Set your schedule for Do Not Disturb, to automatically silence your phone when you don't want to be interrupted.

### Protect your phone

- Set up a [screen lock](#).
- Set up [fingerprint security](#) to unlock your screen safely and quickly with a touch.
- In case you lose your phone, set up [Find My Device](#) and record your [IMEI number](#).

### Other common set up tasks

- Connect with your [Bluetooth devices](#) and [Wi-Fi networks](#).
- If you use [multiple languages](#), set them up so they appear on your keyboard.

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## About your home screen


You see the home screen when you turn on and unlock your phone or swipe up from the bottom of the screen.

You can add more pages to the right as needed. To add a page, drag an app shortcut or widget to the edge of an existing page and place it on the new page.

Swipe right or left to move between pages.

Here are the parts of your home screen:



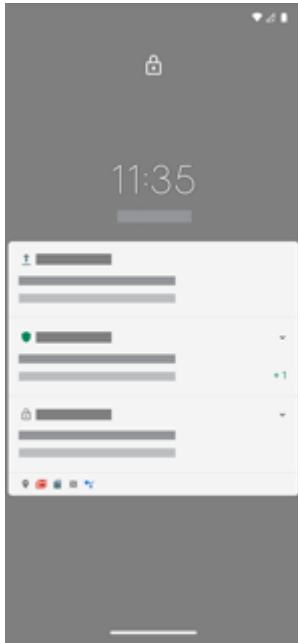
1. Status bar: Displays the time and [icons](#) that tell you about your phone's battery and network connections. Swipe down to see your [notifications](#) and [quick settings](#).
2. Widget: You can add [widgets](#) to your home screen for quick access to information or frequent tasks.
3. Shortcut: You can add shortcuts to open [apps](#) or [web pages](#) you use frequently.
4. App list: Swipe  $\wedge$  up from the bottom of the screen to see the list of all your apps.
5. Favorites tray: Provides one touch access to your most-used apps from any home screen page. You can [customize](#) which apps appear here.
6. Navigation bar: Use gestures to [move between apps and screens](#). You can replace the bar with the  [navigation icons](#) instead.
7. Folder: Add [folders](#) to organize app shortcuts.

If you want an entirely new look and feel for your home screen, you can use a [different launcher](#). For a less drastic renovation, just [change the wallpaper](#).

---

## About your lock screen

The lock screen appears when you're using a [screen lock](#) and you power on your phone or [turn on](#) the screen.



**Tip:** If you're using [Peek Display](#), you'll see those notifications before you get to your lock screen.

From the lock screen, you can:

- **Make an [emergency call](#).**
- **[View and respond to notifications](#).** Double touch one to open it.
- **Open your [quick settings](#).** Swipe down from top of screen.
- **Start a [voice command](#).** Swipe up diagonally from either bottom corner.
- **Go into [Lockdown](#).** Temporarily turn off notifications and fingerprint unlocking.

You can [customize your lock screen](#) to add a message and control which notifications appear.

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## If this is your first smartphone

### Learn the basics

To get around your phone, here are the key concepts.

- You can choose how you [move between apps and screens](#): gestures or ◀ ● ☰ icons.
- In addition to touching the screen to select items, you can use [other gestures](#), such as pinch to zoom.
- The [icons at the top of your home screen](#) tell you important stuff at a glance, like your phone's battery level and network connection, and whether you've missed a call.
- Your phone and apps send you notifications for things like new messages, calendar events, and upcoming alarms. You'll [find notifications](#) in several places, and can [do a lot](#) with them.

To learn about these common tasks, touch one below:

- [Answer a call.](#)
- [Make a call.](#)
- [Set an alarm.](#)
- [Turn the flashlight on/off.](#)
- [Listen to music.](#)

### Get apps

Your phone comes with many [fun and useful apps](#), but you can really unlock its power by [installing](#) apps that suit your lifestyle. Go to Play Store to explore free and paid apps that help you be more productive, organized, informed, in touch, and entertained.

### Protect your phone

You carry your phone around with you, and accidents happen; phones get lost sometimes. So set up some [security](#) and prevent heartache if you and your phone become separated.

**Set up a screen lock.** This is your first line of defense in keeping your sensitive information safe. Prefer numbers, shapes, words? Set up a PIN, pattern, or password required to unlock your phone. [Learn how.](#)



A screen lock doesn't prevent you from immediately answering a call or accessing your camera.

**Display your owner info.** On your lock screen, you can discreetly display a "please return" message with some of your contact info so that, if your phone is lost, someone can return it to you. [Learn how.](#)

**Enable lost phone features.** For peace of mind, check out [Find My Device](#), in case you ever need to remotely locate and lock or erase your phone.

### Personalize your phone

While changing your [wallpaper](#) is probably your first [customization](#), don't stop there. Be sure to explore your [Settings](#) to set ringtones, font sizes, data usage preferences, keyboard preferences, and much more. It's a great way to learn many of your phone's capabilities while customizing it to suit your needs.

In most apps you can touch  or  for app-specific settings. Be sure to see what options are available to you there, too.

## Manage cellular data

**Understand your data usage.** Keep an eye on your data usage and [learn how](#) to make the most of it. See which apps use [large amounts of data](#) and adjust their settings. If your phone is using too much data, you can also stop accounts from [auto-syncing](#).


**Use Wi-Fi to conserve cellular data.** When you connect to a Wi-Fi network, your data will use that network connection instead of your carrier's network, saving your cellular data for when you need it. [Learn how to connect to Wi-Fi networks](#).

## Useful to know

**Find phone info.** To find your phone number, device name, and other information, go to **Settings > About phone**.

**Tell your phone what to do.** Use your phone hands-free with [voice commands](#). Tell it to navigate you, and listen to it speak the directions to you as you drive--it'll even reroute you if you've gone off course. Tell it to set alarms, find information on the web, make calls.

**Never miss a photo opportunity.** Automatically open the camera right from your lock screen. Just [twist](#) your phone twice. You can [automatically back up](#) your photos and videos with your Google account or with other photo sharing apps available from [Play Store](#).

**Store your stuff.** You have several [storage options](#). Store apps and content on your phone. For more storage space, use an [SD card](#) for photos, videos, and music. You can open stored items in associated apps, like Photos to see your photos and videos. For even more storage space, plus the ability to access your media and files from any internet-connected device (phone, computer, tablet), use cloud storage. Your [Google account](#) includes free cloud storage on Drive, which has its own app and is also available from the  menu throughout other apps.

**Wi-Fi hotspot.** You can use your phone as a [Wi-Fi hotspot](#) to share your internet connection with your other devices that need internet access (for example, a laptop or tablet).

**Reboot phone.** In the unlikely event that your phone becomes unresponsive, frozen, shows a blank or black screen, or doesn't respond to the [Power button](#), you can reboot it. Press and hold the Power button for 7 - 10 seconds. The phone will restart normally.

*Certain features, services, and applications are network or carrier dependent and may not be available in all areas.*

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## If you had an iPhone

Welcome to Android! Here are some differences between your old iPhone and your new phone.

**Your assistant:** You've retired Siri. Now, find info and get things done with Google Assistant. Just [set up](#) "OK, Google". Then ask for info or help with everyday tasks.

### Apps:

- Goodbye Apple App Store, hello Google Play Store. [Play Store](#) is now your default app store. Apps aren't compatible between iPhone and Android. However, many developers make iPhone and Android versions of their apps; if the app stores your data online, then you can switch with little effort. Just download the Android version from Play Store and log in.
- Continue listening to podcasts. You can listen with the YT Music app. Or, there are lots of podcast apps on Play Store - search for "podcast" in Play Store and [download](#) one of your choice.



- Install apps remotely. On a computer, visit [play.google.com](https://play.google.com). Browse apps on the bigger screen and then install them on your phone from your computer.

#### Your home screen:

- On your old iPhone, your home screen was far left. Now, you start with one [home screen](#) and can add more pages to the right as needed.
- Your old phone showed all apps on your home screen. With your new phone, you can put [shortcuts](#) to your most important apps on your home screen for easy access. Or, find your [full list](#) by swiping up from your [favorites tray](#). This frees up room on your home screen for widgets, making your new home much more lively.
- Like your old iPhone, you'll see [notifications](#) at the top of the screen, which you can swipe down to review. But on your new phone, you can swipe them left or right to dismiss them.

**Quick access to settings:** On your old iPhone, to adjust settings you opened a Settings app. You can still do that. But now you've also got [quick settings](#). Swipe down from the top of the screen for easy access to toggles for [airplane mode](#), [Wi-Fi](#), and other frequently-used settings.

**In the cloud:** Your [Google account](#) is your key to cloud storage with Google. If you migrated your contacts to your phone, then you can see them from any device or computer by logging into Gmail. Your Google account includes apps like Calendar and Drive that let you work well with others. And it has apps that let you play too - access your photos, videos, music from any device when you log in with your Google account. Use YT Music to [upload](#) your iTunes library.

**File sharing:** If you used AirDrop on your iPhone, now you'll use Nearby Share to easily [share files or links with friends](#).

---

## About your Google account

### Benefits of your account

When you set up your phone, you [added](#) a Google account. If you haven't had a Google account before, this is more than just a password you set up for your phone.

A Google account lets you organize and access your personal information and files from any computer or mobile device:

- **Synchronize everything.** Never lose your contacts. Associate them with your Google account if you [create](#) them on your phone, and view them from Gmail on any computer or by signing into your Google account on any phone. Create [emails](#) or [calendar events](#) on your phone and view them on any computer. Access your [browser bookmarks](#) from any device.
- **Store in the cloud.** Upload your [photos](#), [videos](#), and [music](#) to the cloud; get to all of it without taking up space on your phone.
- **Keep your stuff secure.** Your account password secures it all and lets you access it from anywhere.

### Maintaining your account

Other than remembering your password, you don't need to do much maintenance on your Google account - just enjoy the benefits of your secure, synchronized information. However, you can:

- Control how frequently your phone [syncs](#) your information.
- Review and [manage](#) the information Google collects from you, such as search and browsing history.

## Learn about Google apps

Many Google apps, like [Gmail](#), [Chrome](#), [Photos](#), and [Maps](#) are preloaded on your phone. To learn about and download additional Google apps, read [Google's information](#).

## Can't sign in to Google account

If you're having problems signing in to your account, read [Google's support information](#).

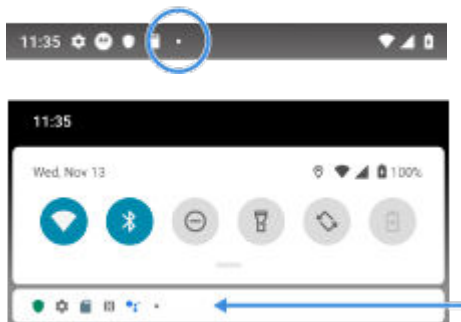
## Status bar icons

### About status icons

The [status bar](#) at the top of the home screen contains icons that help you monitor your phone.




- **On the left**, icons tell you about apps, such as new messages or downloads. If you don't know what one of these icons means, swipe the status bar down for details.
- **On the right**, icons tell you about your phone's battery level and network connections.

A dot means there are more icons to view. Drag down from the top of the screen to see all icons.



### What status icons mean

These are the icons from apps that came on your phone and the phone status icons.

Icon	Meaning
<b>CALLS</b>	
	Active call.
	Missed call.
	Speakerphone on.



Microphone muted.

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### NETWORK

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Connected to cellular/mobile network (full signal). Speed of your network connection is also shown. For example, **H** or **4G**. Possible speeds, from slowest to fastest, are 3G, H, H+, 4G, 5G. Available speeds depend on your carrier and your location.

---



Poor connection to cellular/mobile network.

---



Connected to different cellular/mobile network (roaming).

---



[Data Saver](#) is on, preventing apps from using background data.

---



Wi-Fi network within range.

---



[Connected](#) to Wi-Fi network.

---



Poor connection to Wi-Fi network.

---



[No SIM card](#).

---



Location services are in use.

---



[Airplane mode on](#).

---

### CONNECTIVITY

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[Bluetooth](#) connected.

---



[Trusted device](#) connected.

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Your phone is a [Wi-Fi hotspot](#). Devices can connect to share your data connection.

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[Wireless display](#) or adaptor connected.

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Connected by [USB cable](#).

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[USB tethering](#) enabled.

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### SYNC AND UPDATES

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App updates are available for [download](#) from Play Store.

---



App successfully installed from Play Store.

---



Email and calendar sync in progress.

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Upload complete.

---



Download complete.

---



Google [backup](#) in progress.

---



Google backup complete.

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### SOUND

---



Vibrate.

---

### DO NOT DISTURB

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[Do Not Disturb](#) is on.

---

**BATTERY**

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Battery fully charged.



Battery charging.



Battery low.



[Overcharge protection](#) is limiting battery to 80%.



Phone is in [Battery Saver mode](#).

**ALARM AND CALENDAR**

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[Alarm](#) set.



Upcoming [calendar](#) event.

**EMAIL AND MESSAGING**

---



[New Gmail message](#).



[New text message](#).



[New voicemail](#).



Important alert.

**OTHER ICONS**

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[Screenshot](#) is available.



Screen recording in process.

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Focus mode is on.

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Apps that you [download](#) might show other icons to alert you about their status.

*Certain features, services, and applications are network or carrier dependent and may not be available in all areas.*

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## Phone terms you should know

### **Airplane mode**

A [mode](#) allowing access to a device's non-wireless functions (e.g., music, games, etc.), while disabling its wireless radio functions that are banned on airplanes during flight.

### **app**

Software that you can download for added functionality, such as games, email apps, bar code scanners and more. Some apps are already on your phone, and more can be downloaded from your phone's app store.

### **Bluetooth™**

A short-range wireless technology you can use to connect a device to other nearby Bluetooth-capable devices and accessories, such as headsets, speakers, printers, etc. Use Bluetooth to make handsfree calls on a headset or in your car, listen to music on wireless speakers, use a wireless mouse or keyboard, or print a document in another room. [Set up Bluetooth](#).

### **cellular network or mobile network**

A network of radio-transmitting towers. You make calls on your phone using radio waves sent between the phone and the network towers. You also send data and access the Internet on this network. Carriers use different technologies to handle these radio transmissions (GSM, CDMA, Edge, 3G, 4G, LTE, HSPA, iDEN).

### **data**

Information sent or received from your phone other than calls and text messages. You may use data when you access the internet, check your email, play games, use apps and more. Background tasks, such as syncing or location services, may also use data.

### **data usage**

The amount of data your phone uploads or downloads over a network in a given period. Your phone uses your carrier's cellular network or over a Wi-Fi network. Depending on your plan with your carrier, you may be charged additional fees when your data usage exceeds your plan's monthly limits.

### **GPS**

Global Positioning System. A global satellite-based system for determining precise locations on Earth. With GPS, your phone becomes your navigator when you're driving and your concierge when you're looking for a nearby meal, movie, or cup of coffee.

### **mobile hotspot**

A device or app that lets you share your mobile data connection with multiple devices via Wi-Fi. You can connect different devices to your hotspot, including notebooks, netbooks, MP3 players, cameras, Smartphones, and portable gaming systems. The number of devices that can connect at one time depends on your carrier and connection speed.

**notification**

An alert from your phone or an app on your phone. Your phone displays icons in the status bar to notify you of new messages, calendar events and alarms. Icons can also indicate ongoing status, such as connection to a Wi-Fi network.

**Play Store**

Google's store where you can download apps, books, movies, and music. Choose from an assortment of free books or apps; purchase from an even larger selection.

**SD card**

Secure Digital (SD) card. A small, high-capacity removable memory card used in small, portable devices such as mobile phones, tablets, and digital cameras.

**short cut**

An icon you can add to your home screen that lets you quickly open an app. Create short cuts for apps you use frequently.

**SIM card**

Subscriber Identity Module (SIM) card. A card that securely stores information your carrier uses to authenticate your phone on the cellular network.

**software update**

An update to your phone's operating system that typically includes new features and fixes reported problems. The update is wirelessly downloaded to your phone at no additional cost to you.

**status bar**

Thin bar at the top of your [home screen](#) that displays the time and icons that tell you about your phone's battery and network connections. Apps display [icons](#) in the status bar to alert you of events, such as new messages.

**sync**

The process of sharing the same information across multiple devices and websites. Contacts, calendars and email are often synced through cloud services, so you can enter information on one device and access it through another.

**widget**

An element you can add to your home screen that gives you quick access to information or frequent tasks. For example, widgets can provide weather updates, upcoming calendar events. Many are preinstalled on your phone. Apps you [download](#) may also include widgets.

**Wi-Fi**

A short-range wireless technology that provides a high-speed internet connection to wireless data devices. Many locations offer Wi-Fi connections, including airports, hotels, restaurants and more. Using a Wi-Fi connection instead of your cellular network can help reduce your cellular data usage. Some public Wi-Fi connections may not be secure. You should only connect to those you trust and use some form of internet security on your devices. [Set up Wi-Fi](#).

*Certain features, services, and applications are network or carrier dependent and may not be available in all areas.*

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## Learn gestures

You can use gestures on your touch screen to move between apps and choose or manipulate items.

There are also gestures, which you can [turn on/off](#), to perform everyday tasks like screenshots or turning on the flashlight.

### Touch, drag, swipe, zoom

---

Gesture	Description
Touch	<p>Press with one finger and lift.</p> <p>Result: Open something (app or email) or choose something (checkbox, icon).</p>
Touch & hold	<p>Press and wait before lifting one finger.</p> <p>Result: Select something (app icon, text on a page) and see possible actions.</p> <p>Try it: Touch &amp; hold text on this page to see the copy feature.</p>
Drag	<p>Touch &amp; hold an item and then, without lifting, slide your finger until you reach the target position.</p> <p>Result: Move elements on the screen; for example, change a toggle from on  to off .</p> <p>Try it: Drag an app shortcut from one spot on your home screen to another.</p>
Swipe	<p>Quickly move one finger across the screen, without pausing when you first touch (so you don't drag instead).</p> <p>Result: Switch between home screens or between tabs in an app. Or, move quickly through a list. You can swipe different directions (up, down, left/right) for different results. <a href="#">Learn more</a>.</p> <p>Try it: Open the Phone app and swipe left/right to switch between tabs. Or, swipe up from the bottom of this screen to go home.</p>
Pinch out to zoom	<p>Put two fingers on the screen and then drag them apart.</p> <p>Result: Zoom in to see larger version of photos and maps. Or, open expandable notifications.</p> <p>Try it: Open a photo and pinch out to zoom in on an area.</p>



**Tip:** If you have visual impairments, you can enable additional [magnification gestures](#).

---

Pinch in to zoom

Put two fingers on the screen, far apart, and then drag them together.

Result: Zoom out to see smaller version of photos or maps. Or, close expandable notifications.

---

## Press Power button twice

Press the Power button twice to open [Google Assistant](#).

You can [customize settings](#) to open the camera instead.

---

# Move between apps and screens

## Choose how to get around

You can change how you move between apps and screens using your touch screen: **Settings > System > Gestures > [System navigation](#)**.

## Use gesture navigation

Use these gestures to move between screens and apps if you [chose Gesture navigation](#) and see at the bottom of your home screen.

---

Action	Gesture to use
Switch between apps	At the very bottom of the screen, swipe left or right.
See all recent apps	Drag up from the bottom, hold, then let go.
See all apps	Swipe up from the bottom of the <b>home</b> screen.
Go back	Swipe towards the middle from the left or right edge of any screen.
Go home	Swipe up from the bottom of any screen.
Open Google Assistant	Swipe diagonally from either lower corner of the screen.

---


## Use 3-button navigation ◀ ● ☰

Use these icons to move between screens and apps if you [chose 3-button navigation](#).

◀ takes you back one screen.

● returns you to the home screen from any app.

☰ lets you [switch](#) between recent apps.

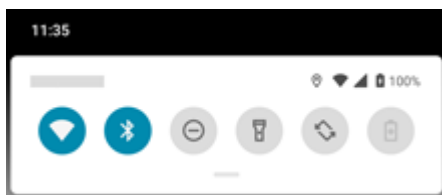
**Tip:** For visual assistance, you can add  to open the [Accessibility Menu](#) or [magnify](#) what's on the screen.

## Use quick settings

### Open quick settings

Settings you adjust frequently, like Wi-Fi and Bluetooth, are “quick settings”, easy to get to from any screen.



To see your first few quick settings, swipe down once from the top of your screen.





To see all quick settings, swipe down again.

### Adjust quick settings

Do one of the following:

- **Touch** an icon to toggle the setting on  or off .
- **Touch & hold** an icon to adjust related settings.

Icon	Setting
	Wi-Fi
	Bluetooth



Do Not Disturb

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Flashlight

---



Audio effects. You can [add this](#) to quick settings.

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Auto-rotate

---



Battery Saver

---



Mobile data

---



Airplane mode

---



Screen Cast

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Screen Record

---



Nearby Share



**Data Saver.** Appears after you turn on Data Saver the first time.




**Night Light.** Appears after you turn on Night Light the first time.



NFC






**Wi-Fi hotspot.** Appears after you turn on hotspot the first time.

You can also slide  to adjust screen **brightness**.

## Open all settings


To open the full list of all settings:


- Open **quick settings** and touch .
- Or, **open** the  **Settings** app.

**Tip:** You can search the Settings app to find what you need quickly. Just touch  at the top of the app and type your search term.

## Customize quick settings

You can rearrange quick settings, putting your most used at the top. You can also add or remove them.

1. Open quick settings.
2. Touch .
3. Drag to add, remove, or rearrange.

To return quick settings to its original state, touch  **> Reset**.

**Tip:** You can also [change the background color](#) to be light or dark.

---

## Turn screen off and on

### Why your screen turns off automatically

- **To save battery power**, your screen turns off if you haven't used it for some time. You can [lengthen or shorten the time](#) before your screen automatically turns off.
- **When you bring the phone to your face to speak into it during calls**, the screen turns off to prevent accidental touches. When you pull the phone away from your face, the screen turns on so you can use it. (If the screen stays dark, [follow these steps](#).)

### Turn screen off and on manually

To turn the screen on:

- Press the Power button. If you've set up a [screen lock](#), you need to unlock it.
- If you've added your [fingerprint](#) to the phone, touch the sensor to wake and unlock your phone.
- Your screen automatically turns on when you have an incoming call.

To turn the screen off:

- Press the Power button. When you set down your phone, it's good habit to do this. You prevent accidental touches, save a bit of battery, and keep it secure with the [screen lock](#).
- To keep your screen off and phone quiet when you don't want interruptions, like at night, use [Do Not Disturb](#) settings.

When your screen is off, battery-friendly [Peek Display](#) notifications fade in and out, showing only notifications delivered since the screen was last on.

---

## Adjust volumes




### Use Volume buttons

**In-call audio.** When you're on a call, the [Volume buttons](#) control the volume of the other person.

**Media.** When you're not on a call, the Volume buttons control media volume during playback or before you listen.

**Phone ringtone, notification sounds, and alarms.** To adjust these volumes, press a Volume button and then use this shortcut on your home screen:




1. Touch to toggle the phone ringtone and notification sounds between on , silent , and vibration only .
2. Slide to adjust media volume.
3. Touch to mute media volume.
4. Touch to access all volume controls (call, ring, alarm, media).

## Set app volumes and auto-mute apps


You can adjust the volume of each app.

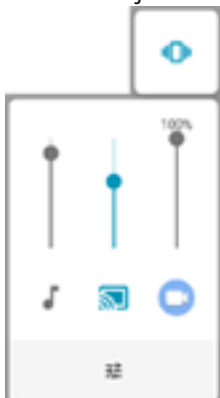
Also, your phone can learn to automatically mute apps you usually do. You can review and adjust the list of apps at any time.

### Set it up

1. Go to **Settings** > **Sound**.
2. Touch **Multi-volume** and turn it on .

### Adjust app volumes

1. Press a Volume button, then touch .
2. Slide to adjust the app's volume.



### View and remove automatically muted apps

1. Go to **Settings** > **Sound** > **Multi-volume**.
2. Touch **Auto mute** to see the list of muted apps.
3. To remove an app from the list, just unmute it in the app.

If you don't want your phone to learn your usage patterns and automatically mute apps, go to **Settings** > **Sound** > **Multi-volume** and turn **Auto mute** off .

## Silence with Power & Volume buttons

To silence a ringing phone, press either the **Power** button or the **Volume down** button.

To switch to vibrate at any time, press & hold the **Power & Volume up** buttons until you feel a vibration and see .

If you want to customize Power & Volume up so that it silences the phone instead of vibrating:




1. Go to **Settings** > **System** > **Gestures**.
2. Touch **Prevent ringing** > **Mute**.

**Tip:** Use Do Not Disturb to silence all calls, messages, events, and reminders. Turn it on [from quick settings](#), or schedule it to turn on automatically during certain times or [during calendar events](#).

## Pick up to silence

You can simply pick up your phone to silence incoming calls and alarms, and to turn vibration on.



To enable this gesture:

1. Go to **Settings** > **Sound** > **Advanced**.  
Or, [open](#) the **Moto** app and touch  > **Gestures**.
2. Touch **Pick up to silence** and turn it on .
3. If you want this gesture to silence calls but not alarms (or vice versa), touch **Settings** and turn the appropriate option off .

---

## Turn flashlight on and off


To turn your flashlight on or off:

1. Open [quick settings](#).
2. Touch  or .

Or, make a chopping motion to turn the flashlight on or off.

If the camera opens instead of turning on the flashlight, be sure to use a chop gesture, not a [twist gesture](#).

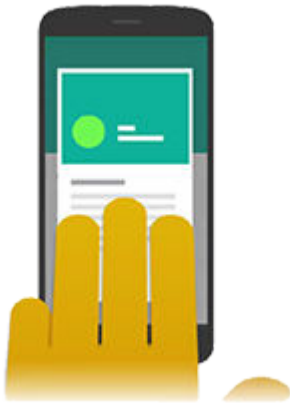
To control the chop gesture:



1. Go to [Settings](#) > [System](#) > [Gestures](#).  
Or, [open](#) the **Moto** app and touch  > [Gestures](#).
  2. Touch **Fast flashlight** and turn it on or off.
- 

## Take screenshots













### Take a screenshot

1. Do one of the following:
  - Touch & hold three fingers on the screen. (If this doesn't work, [turn Three finger screenshot on](#).)



- Drag from the bottom of the screen and hold to see recent apps, then touch **Screenshot**.
  - Press & hold [Power](#) and [Volume Down](#) simultaneously until the screen is captured.
2. To scroll and capture more content, touch . (If you don't see , turn [Screenshot editor](#) on.)  
To stop scrolling before the end of the page, touch **STOP**.



3. Do any of the following:
  - To edit the screenshot, touch .
  - To share it, touch .
  - To [analyze it with Google Lens](#), touch .
  - For more time to review it before taking an action, touch the thumbnail to open the screenshot.
  - To open the screenshot after the thumbnail disappears, swipe the [status bar](#) down and touch the  notification.
4. If you touched :
  - To crop the screenshot, touch . To switch between standard, circular, or freeform, touch  again.
  - To change tools, touch  to draw,  to write, or  to erase. Touch the icon again to adjust related options, like stroke thickness, color, and pattern.
  - Touch  to undo and  to redo a change.
  - Touch **Done** > **Discard** to close without saving, or touch **Done** > **Save**.

## Find screenshots later






[Open](#) the Photos app and touch **Library** > **Screenshots**.

---



## Record your screen

You can record a video of your screen while you're using it. You can choose to include your audio or a selfie video when recording.

### Record screen

1. To start recording:
  - [Open quick settings](#) and touch .
  - If you're playing a game and [Gametime](#) is on, touch  > .
2. Touch **Start** to open the recorder and see a 3-second countdown before recording.  
To adjust sound and video options before recording:
  - a. Immediately touch the countdown icon.
  - b. [Adjust options](#).
  - c. Touch to unpause and start recording.
3. To stop recording:
  - Touch  on the recorder.
  - Or, swipe down from the top of the screen, then touch the red  notification.





While recording:


- You can drag the recorder to reposition it.
- You'll see a timer next to  and  in the status bar.


## Adjust sound and video options

You can mute or record your phone's sound, and you can include your own narration or a thumbnail view of your selfie video in the corner of the screen.

To adjust sound, touch the current setting and change it.


Icon	Meaning
	Mute
	Record your narration using the microphone
	Record only your phone's sound
	Record both your narration and your phone's sound

To include a selfie video in the corner, touch .

To turn the selfie video off, touch .

You can adjust more options, like frames per second or screen touches, in phone Settings. [Learn more.](#)

## View recordings

To view a recording immediately after you capture it, swipe down from the top of the screen and touch the  notification.


To view any time, open the Photos, Files, or other media viewing app, and look for the Screen record folder.

## Control phone with your voice


### Speak a command

*Not all languages support voice commands.*

You can tell Google Assistant to call people, get directions, send messages, set alarms. Or, ask questions.

1. Get your assistant's attention by doing any of these:
  - Press the [Google Assistant button](#).
  - For hands-free control, say "Hey Google" or "OK Google", if you've taught it to recognize your voice.
  - Swipe up from the bottom left or right corner of your phone. [Learn more](#).
  - Touch .
2. Ask a question or say a command. For example, you can say "What's the weather today?" or "Set alarm for 7 AM tomorrow."

**Tip:** To see a list of commands, say "Help".

3. To silence Google Assistant when it's talking to you, touch .
- Google Assistant will stop listening after a few seconds.

## Fix a problem

If your phone isn't recognizing "OK, Google" commands:

1. Is [Battery Saver](#) on?
  - If it's on, you need to [get your assistant's attention](#) by touch instead of voice, or turn off Battery Saver.
  - If it's off, then follow the remaining steps.
2. [Open](#) the Google app.
3. Touch **More** > **Settings** > **Voice**.
4. Touch **Voice Match** > **Voice model**.
5. Touch **Retrain voice model**.

---

## Get directions to a location

### Navigation and battery life

Navigation is one of the most power-intensive apps, so keep your phone plugged into a high-quality car charger, especially if you're streaming music and/or using [Bluetooth](#) (also power-intensive features).

### Use voice commands to get directions

1. Be sure you set up voice commands.
2. Say "OK, Google" or "Hey, Google."
2. Press the [Google Assistant button](#).
3. Say "Navigate to [destination]."



## Use Directions widget

1. Before you hit the road, [add](#) a Maps Directions widget to your home screen, and you'll have directions to any destination you choose.
2. When you're ready to roll, just touch the widget, and your phone will talk you through the directions.

**Tip:** Combine your Directions widgets into a [folder](#) on your home screen.

## Get directions to home or work

Get directions from anywhere to your home or work addresses with one touch by setting up a [task shortcut](#) for the Maps app:

1. Touch & hold .
2. Drag  to a blank space on your home screen.
3. If you haven't set your home or work address yet in Maps, touch the shortcut and follow the onscreen instructions to add it.

When you're ready to roll, just touch the shortcut, and your phone will talk you through the directions.

## Use clock and weather widget







### Add widget to home screen

Put a clock on your home screen and get quick access to alarms, your calendar, and the weather.



1. Touch & hold the home screen.
2. Touch **Widgets**.
3. Touch & hold the **Moto Widget** widget, then drag it to a home screen page.

### Set or delete alarms


1. Touch the time.
2. Adjust alarms:
  - To use an existing alarm, switch it on . Touch  to view or edit its ringtone.
  - To add a new alarm, touch  and set the time and ringtone.
  - To delete an alarm, touch  next to it, then touch .
3. To control general alarm settings, like alarm volume and snooze duration, touch  > **Settings**.

When an alarm is set,  shows in the [status bar](#).

## Manage weather forecasts




Display current conditions for your location or for a city you select.

### Show temperature and conditions for current location



1. Do one of the following:
  - Touch **Add cities**.
  - Or, touch the current temperature, then touch .
2. Turn **Current location** on.

**Tip:** To switch between Fahrenheit and Celsius, touch **Temperature unit**.


### Add location

1. Do one of the following:
  - If you haven't added locations yet, touch **Add cities**.
  - Or, touch the current temperature, then touch .
2. Touch **Add new location**.
3. Enter a city name or ZIP code, then touch .
4. Touch the city to add.
5. When you add a city, it is set to show on the widget. If you want a different city's weather shown on the widget, select its button  from the list of locations.

### Remove location

1. Touch the temperature.
2. Touch .
3. Touch  next to the city's name.

### View forecasts

1. Touch the current temperature on the widget to open the forecast.
2. Then:
  - To switch between forecasts for multiple locations you added, swipe right and left.
  - To see more details on the weather provider's website, touch an item on the forecast.
  - To change the frequency of forecast updates, touch  > **Forecast update period**, then select a duration.

### Control weather alert notifications

The Moto Widget widget sends notifications about weather conditions that need special attention.

To turn notifications on or off:

1. Touch the temperature.

2. Touch .
3. Turn **Weather alert notifications** on or off.





## View your calendar

Touch the current date to open your calendar, where you can view or add upcoming [events](#).

## View daily steps with Fit

You can track your daily steps on the widget. And, to open the Fit app, touch your steps.

To show or hide your daily steps:

1. On the widget, touch  until you see , then touch it.
2. Turn **Google Fit** on  or off .
3. If this is your first time using Fit, follow the onscreen instructions to set up your profile.

---

# Manage time spent on your phone

## Understand your habits

1. Go to [Settings](#) > **Digital Wellbeing & parental controls**.
2. If this is your first time using this feature, touch **Show your data**.
3. Review the chart to see:
  - Time you spent using phone today
  - Which apps you've had on screen and for how long
  - How often you unlocked the phone today
  - How many notifications you've gotten
4. For more information, touch a label on the chart. For example, to see your screen time for the week, touch today's usage time.

**Tip:** To find Digital Wellbeing & parental controls as an app, turn on **Show icon in the app list**.


## Limit daily screen time

For individual apps, you can set a timer that limits the amount you use the app daily.

**Tip:** To manage your child's screen time, use [parental controls](#).

To set an app timer:

1. Go to [Settings](#) > **Digital Wellbeing & parental controls** > **Dashboard**.  
Or, [Settings](#) > **Apps & notifications** > **Screen time**.

2. Next to the app you want to limit, touch .
3. Set the total time that you can use the app per day.

When you reach your time limit in an app:

- The app closes.
- Its icon dims and no longer opens the app.


The app timer resets at midnight. To use the app before midnight, go back to the timer in **Settings** and extend its time or delete the timer.



## Pause distracting apps to focus

Use Focus mode to pause selected apps for fewer distractions.


1. Go to **Settings** > **Digital Wellbeing & parental controls** > **Focus mode**.
2. Choose which apps you want to pause.
3. Do one of the following:
  - To turn it on, touch **Turn on now**.
  - To have it turn on automatically, touch **Set a schedule**, then select days of the week and start/end times.

When Focus mode is on:



- You'll see  in the [status bar](#).
- You won't be able to use the selected apps and won't get notifications from them.

**Tip:** To add  Focus mode to quick settings, [open](#) quick settings, touch , then drag the tile where you want it.

To turn Focus mode off:

- Open [quick settings](#) and touch .
- Or, on the notification, touch **Turn off now**. (To turn it off for a short period, touch **Take a break**.)

To remove the schedule:

1. Do one of the following:
  - Open quick settings, then touch & hold .
  - Go to **Settings** > **Digital Wellbeing & parental controls** > **Focus mode**.
2. Next to Schedule, touch .

**Tip:** To mute sounds, stop vibration, and block notifications for all calls and notifications, use [Do Not Disturb](#).

## Make it easier to put your phone away at bedtime

You can schedule changes to get ready for sleep.

1. Go to [Settings](#) > **Digital Wellbeing & parental controls** > **Bedtime mode**.
2. Select when to turn on **Bedtime mode**.
3. Adjust start and end times if needed.
4. Touch **Customize** to set what your phone should do during this scheduled time:
  - Remove screen colors (turn on **Grayscale**).
  - Silence your phone (turn on [Do Not Disturb](#)).

## Use parental controls

You can:

- Control your child's access to devices and apps
- Control location settings and view the location of your child's supervised device
- Set daily usage limits, monitor app usage, and remotely lock supervised devices
- Set filters and controls on what your child can browse, purchase, or download using Chrome, Google Search, Play Store, and YouTube

You'll need to set up parental controls on your and your child's devices.

To set up parental controls on this phone:

1. Go to [Settings](#) > **Digital Wellbeing & parental controls**.
2. Touch **Set up parental controls**.
3. Follow onscreen instructions to set up the phone for child or adult usage.
4. To set up parental controls on the other device, refer to the help for that device.


To learn more, read [Google's help](#).





## Use onscreen keyboard

### Open, close, resize keyboard

To open the keyboard, just touch an area where you can enter text or numbers.

To close the keyboard so you can see other parts of the screen, touch .

To make the keyboard larger, turn your phone horizontally. If your screen doesn't rotate, check your [auto-rotate](#) setting.

**Tip:** If you [installed](#) other keyboards, you'll see  next to the navigation buttons when you're typing. To switch to a different keyboard, touch .



### Type special characters

Touch & hold a key to see related special characters. For example:


- Touch & hold **.** to see other punctuation marks.
- Touch & hold **e** to see **é** and **3**.

**Tip:** To insert a period followed by a space, touch the spacebar twice quickly.

### Capitalize letters

To type in ALL CAPS, touch  twice, quickly, so you see . Touch it once more to turn ALL CAPS off.


To change capitalization of a word you've already typed:

1. Select the word.
2. Touch  until you see the capitalization you want: first letter only, ALL CAPS, or lowercase.

### Use glide typing

You have two options for entering text: type one letter at a time (multi-touch typing) or slide your finger through all the letters in a word using one continuous motion (glide typing). Start typing either way and switch whenever you like.

When you're using glide typing, you can:


- **Type a word.** Drag your finger over the letters in the word.
- **Delete words.** Drag left slowly from  to select a word or string of words, then lift your finger to delete.
- **Enter apostrophes in common words.** Drag through the letters and the apostrophe is automatically inserted.
- **Add a space.** There's no need to use the space bar. Just lift your finger and start the next word.

You can [disable](#) glide typing.

## Get suggestions

Use suggestions to type faster.


When you're typing, you'll see a list of suggested next words above the keys:

- Touch a word in the list to insert it in your text.
- If you don't like a suggested word, touch & hold it, then drag it to .

You can [limit or turn suggestions off](#).

## Spell check and auto correct

Misspelled words are automatically corrected as you type:



- To undo a correction, touch .
- To prevent that word from being auto-corrected again, add it to your dictionary by touching the word in the list of suggestions above the keys.

If auto-correction is [turned off](#), you can still check spelling:

1. After you're done typing, review your text; misspelled words (and words not in your dictionary) are underlined.
2. Touch an underlined word:
  - If the word is spelled correctly, touch it in the suggestion bar.
  - If the word is misspelled, select the correct word in the suggestion bar or type the correction.

## Type in multiple languages

If you have [added multiple languages](#) as a system language in your phone settings, keyboards and text suggestion are available for those languages:

- When using a keyboard language other than your primary system language, available keyboard languages are shown on the spacebar.
- To toggle between languages, touch .
- To see a list of available keyboards, touch & hold  or the spacebar.



You can [add keyboards](#) for other languages.

---

## Cut, copy, paste text

You can select and copy text from web pages and messages.

1. To select text, touch & hold a word.




2. Touch **Copy, Cut, Share, Select all** or:
  - Select more text. Drag the sliders .
  - Get information about selected text. Touch **Web Search**.
  - Translate selected text. Touch  > **Translate**. (If you don't see this option, [install](#) the Google Translate app.)
3. To paste text, touch to insert at the cursor or select a block of text to replace. Then touch **Paste**.

**Tips:**

- In some apps, you need to double-tap a word to select it (instead of touching & holding it).
- When you use **Copy**, the text is copied to the clipboard in your phone's memory, overwriting previous text in the clipboard. If you want to save and manage everything you copy into the clipboard, search for "clipboard manager" in Play Store to select and [download](#) an app.

---

## Use voice typing


1. Touch a text field to show the [onscreen keyboard](#).
2. Touch  on the onscreen keyboard.
3. Speak what you want to type:
  - Speak naturally but clearly. There's no need to shout or hold the phone close to your mouth.
  - To include punctuation, say "comma," "period," "question mark," or "exclamation point."
  - To pause or restart, touch .
  - To delete a word, touch .

---

## Fill in forms automatically

Don't retype your personal information again and again. Save it securely, then with just one touch, fill in passwords, addresses, credit cards, and other information saved to your [Google account](#).

To set it up:

1. Go to [Settings](#) > **Privacy** > **Advanced** > **Autofill service from Google**.  
Or, [Settings](#) > **System** > **Languages & input** > **Advanced** > **Autofill service** > .
2. Touch **CONTINUE**.
3. Touch categories to review and edit personal information, addresses, credit cards, and passwords.

---

## Change wallpaper

You can change the background image on your [home screen](#) or [lock screen](#).

1. Touch & hold a blank area on your home screen, then touch **Wallpapers**.
2. Touch **Wallpapers**.
3. Touch a wallpaper or photo to use.
4. Touch **Set wallpaper**.
5. Select whether you want to use the wallpaper on your home screen, lock screen, or both.

### If your photo is too large

Open the photo and [take a screenshot of it](#). Then edit the screenshot as needed and set it as the wallpaper.

### If you selected a live wallpaper

If your battery is low, temporarily change live wallpaper to a static image to save power.

---

## Customize your Favorites tray

The Favorites tray at the bottom of the [home screen](#) gives you one-touch access to your most-used applications. You can customize these app shortcuts.



To change the app shortcuts:

1. Touch & hold one of the app shortcuts, then drag it up and drop it on **Remove**.
2. Swipe up from the bottom of the home screen to open your app list.
3. Touch & hold the app you want. When the new shortcut appears, drag it to the empty spot in your tray.

**Tip:** You can also use [folders](#) in your Favorites tray.

---

## Add widgets, shortcuts, or folders

### Add widgets

Widgets stream information, giving some of an app's functionality without opening the app. For example, the Calendar widget shows your daily agenda and gives you one-touch access to your full calendar.

To add a widget:

1. Touch & hold the home screen.
2. Touch **Widgets**.

Widgets are listed under their related apps.

3. Touch & hold a widget to add it.

You can make some widgets larger to view more content:

1. Touch & hold the widget until it's highlighted.
2. Release it to see an outline.
3. Drag a corner or side to resize.

## Add app shortcuts





1. Swipe up from the bottom of the home screen to open your app list.
2. Touch & hold the app you want.
3. Drag the app to an empty spot on your home screen. Or, drag it to the edge of the screen and drop it onto a new home screen panel.

## Add task shortcuts

Many apps icons include shortcuts to common tasks, so you don't have to open and navigate the app.

1. Touch & hold an app icon to see available task shortcuts.
2. Do one of the following:
  - To perform the task, touch it.
  - To create a shortcut for that task, drag **=** to an empty space on your homescreen.

Here are examples of task shortcuts for various apps. Not all apps include task shortcuts.

App	Task shortcuts
 Gmail	<ul style="list-style-type: none"> <li>• Compose new email</li> <li>• Open to specific account</li> </ul>
 Maps	<ul style="list-style-type: none"> <li>• <a href="#">Navigate</a> to Work</li> <li>• Navigate to Home</li> </ul>
 YouTube	<ul style="list-style-type: none"> <li>• Search</li> <li>• Subscriptions</li> <li>• Explore</li> </ul>
 Chrome	<ul style="list-style-type: none"> <li>• New incognito tab</li> <li>• New tab</li> </ul>



- Calendar
- New reminder
  - New event



- Messages
- Open most recent conversation
  - New conversation




- Clock
- Start screen saver
  - Start stopwatch
  - Create new timer
  - Create new alarm



- Settings
- Bluetooth
  - Battery
  - Data usage
  - Wi-Fi

## Add web page shortcuts

1. [Open](#) the **Chrome** app.
2. Navigate to the web page.
3. Touch  > **Add to Home screen**.
4. Edit the name if desired.
5. Touch **Add**.
6. Do one of the following:
  - Touch & hold the icon to drag it where you want on the home screen.
  - Touch **Add automatically**.

## Add folders

Folders organize your shortcuts.

1. Touch & hold an app shortcut on your home screen.
2. Drag it onto another to group them together, then release when a circle forms around them.



Then you can:

- **Add more apps.** Drag app icons onto the circle from your home screen or app tray.
  - **Use an app in the folder.** Open the folder and touch the app's icon.
  - **Name the folder.** Open the folder, then touch its name and type a new name.
  - **Remove an app from the folder.** Open the folder and drag the app icon onto the home screen, or drag it up and drop it on **Remove**.
  - **Delete the folder.** Touch & hold the folder, then drag it to **Remove**.
- 

## Remove widgets, shortcuts, or folders

To remove items from your [home screen](#):

1. Touch & hold it until it vibrates.
2. Drag it to **Remove**.

To select a totally new user interface for your home screen, download a [different launcher](#).

---

## Remake your home screen with launchers

### Get different launcher

Totally changing the look and feel of your [home screen](#) is easy to do. Just select and download a new launcher app. Switch back to the standard look and feel at any time. Launchers frequently include new sets of wallpapers, new gestures for interacting with your phone, and customizable elements for your home screen.

1. Search for “launcher” in [Play Store](#).
2. Read through the choices and download the one (or more) that you want.
3. To start using it, open the app or follow the onscreen instructions after downloading it.

### Switch between launchers

1. Go to [Settings](#) > **Apps & notifications**.
2. Touch **Default apps** > **Home app**.  
Or, touch **Advanced** > **Default apps** > **Home app**.
3. Select the launcher you want to use.

### Delete launchers

You can only delete launchers that you installed.


Touch & hold the launcher's app icon, then touch  > **Uninstall**.

---

## Use a screen saver

### Set up screen saver

While your phone is idle on a dock or charger, turn it into a desk clock, a photo frame to show off your pics, or more.

1. Go to **Settings** > **Display** > **Advanced**.
2. Touch **Screen saver**.
3. Do any of the following:
  - To change screen savers, touch **Current screen saver**, then select one. To set options for that screen saver, touch .
  - To preview your selection, touch **Start now**. Touch the screen anywhere (unlock if necessary) to return to settings.
  - To adjust when the screen saver starts (while docked, charging, or either), touch **When to start**.

### Start screen saver

The screen saver automatically starts when you connect your phone to a dock or charger and the screen turns off.

To exit the screen saver and return to your home or lock screen:

- Press the Power button.
- Or, if you're using [fingerprint security](#), touch the sensor.

To manually start your screen saver any time, go to **Settings** > **Display** > **Advanced** > **Screen saver** and touch **Start now**.

### Turn off screen saver

To prevent the screen saver from starting automatically:

1. Go to **Settings** > **Display** > **Advanced**.
2. Touch **Screen saver** > **When to start** > **Never**.

### Add screen savers


Search for "Screen saver" in Play Store for apps that give you more.

After you [install](#) an app, you can select the new ones in **Settings** > **Display** > **Advanced** > **Screen saver**.



## Set ringtones



### Change default call ringtone

1. Go to [Settings](#) > **Sound**.
2. Touch **Advanced** > **Phone ringtone**.
3. Do one of the following:
  - Select a ringtone from the list.
  - To use a song as the ringtone, touch **Add ringtone** at the bottom of the list. Then touch  > **Audio** and select the song [stored on your phone](#).
  - For silence, touch **None** at the top of the list.

### Vibrate phone for calls





You can set the phone to vibrate when it rings for calls.

To extend battery life, turn vibrate off.

1. Go to [Settings](#) > **Sound**.
2. Turn **Vibrate for calls** on  or off .



### Set call ringtone for a contact

You can choose a unique ringtone for calls from specific people so you'll know instantly who's calling.

1. [Open](#) the  **Contacts** app.
2. Touch the contact's name.
3. Touch  > **Set ringtone**.
4. Do one of the following:
  - Select a ringtone from the list.
  - To use a song as the ringtone, touch **Add ringtone** at the bottom of the list. Then touch  to browse and select the song [stored on your phone](#). Touch  to show internal storage.
  - For silence, touch **None** at the top of the list.

### Set ringtone for app notifications

You can set a default sound for notifications from apps including messaging and email. You can also set a unique ringtone for notifications from specific apps. [Learn how](#).

**Tip:** To change your [alarm sound](#), open the Clock app and touch . Then touch .




## Get more ringtones

Although your phone comes with lots of ringtones, you can get more:

- Search for “ringtones” in [Play Store](#) and install an app that provide ringtones.
- Search for “ringtone maker” in [Play Store](#) and install an app that lets you create custom ringtones. Open the app and use it to select entire songs or portions of songs.
- If you have songs that are .mp3 files stored on your computer, [connect](#) your phone and computer with a USB cable, then copy the song to your phone.

## Fix a problem




If you're not hearing your ringtones:

- Look for  in your [status bar](#), which means you're in [Do Not Disturb](#) mode. Open [quick settings](#) and touch  to turn Do Not Disturb off.
- Check that your [ringtone volume](#) is set to .

---

## Enhance sound


### Turn Audio effects on/off

1. Go to [Settings](#) > [Sound](#) > [Audio effects](#).  
Or, [open](#) the **Moto** app and touch  > [Play](#) > [Audio effects](#).
2. Turn it on  or off .

**To use only for the phone's speaker**, set the [sound profile](#) for headphones or other audio devices to **CUSTOM** >  > **Flat**.

**To use only for headphones or connected devices**, set the [speaker equalizer](#) to **Flat**.




### Set equalizer for phone's speaker

1. Go to [Settings](#) > [Sound](#) > [Audio effects](#).  
Or, [open](#) the **Moto** app and touch  > [Play](#) > [Audio effects](#).
2. Make sure it's on and that no devices are connected.
3. Select an equalizer for the speaker.

### Set sound profile for headphones or other device



You can select a preset sound profile for your headphones or other connected device, and your phone will remember the next time you connect it.

1. Connect your headphones or other audio device.




2. Go to **Settings** > **Sound** > **Audio effects**.  
Or, **open** the **Moto** app and touch  > **Play** > **Audio effects**.
3. Make sure it's on .
4. Select an effect:
  - **3D Stereo**: Immersive and spatial sound experience, great for gaming
  - **Home Theater**: Optimized for surround sound
  - **Live**: Simulates the effect of a live concert
  - **Custom**: Touch  to select a preset equalizer profile and a surround sound option

## Add/remove as app or quick setting

To show or hide Audio effects in your list of apps:

1. Go to **Settings** > **Sound** > **Audio effects**.  
Or, **open** the **Moto** app and touch  > **Play** > **Audio effects**.
2. Touch  > **Show icon in the app tray** or **Hide icon in app tray**.

To add or remove Audio effects in quick settings:

1. **Open** quick settings.
2. Touch , then:
  - To add, drag  where you want it in the upper panel.
  - To remove, drag  from the upper to lower panel.




---

## Avoid interruptions with Do Not Disturb

### Quickly turn Do Not Disturb on or off

When you're busy, use Do Not Disturb to mute sounds, stop vibration, and block notifications.


#### Turn it on

1. Open **quick settings** and touch .  
You'll see  in the status bar when Do Not Disturb is on.
2. To change how long it stays on, in quick settings, touch & hold , touch **Advanced** > **Duration for Quick Settings**, and then choose one:
  - To keep it on indefinitely, touch **Until you turn off**.
  - To select a duration, touch **For 1 hour**, then touch + or - to adjust the time.
  - To choose each time you turn Do Not Disturb on, touch **Ask every time**.

### Turn it off



Open [quick settings](#) and touch .

If it's turning itself on again, but you don't want it to:

- Make sure you're not silencing on a schedule or [during calendar events](#).
- If you're using [Bedtime mode](#), touch **Settings** > **Digital Wellbeing & parental controls** > **Bedtime mode** and turn **Do Not Disturb** off .

### Set down to start



You can turn on Do Not Disturb by placing your phone face down on a surface. To enable this gesture:

1. Go to [Settings](#) > **Sound** > **Advanced**.  
Or, [open](#) the **Moto** app and touch  > **Gestures**.
2. Touch **Flip for DND** and turn it on .




## Choose what can interrupt

You can choose which interruptions to allow when Do Not Disturb is on.

### Choose interruptions by People

1. Go to [Settings](#) > **Sound** > **Do Not Disturb**.  
Or, in quick settings, touch & hold .
2. Touch **People**.
3. Choose what and who to allow.
  - **Conversations**: Allow all or priority conversations, or allow none. Touch to make selections.
  - **Calls**: Allow calls from starred contacts, other contacts, all callers, or none. You can also allow calls if the same person calls twice in 15 minutes; turn **Allow repeat callers** on .
  - **Messages**: Allow messages from starred contacts, other contacts, anyone, or none.




### Choose interruptions by Apps

1. Go to [Settings](#) > **Sound** > **Do Not Disturb**.  
Or, in quick settings, touch & hold .
2. Touch **Apps**.
3. Touch .
4. Touch the app to allow, and set notifications to allow .

You'll see selected apps under APPS THAT CAN INTERRUPT. To change which notifications can interrupt, touch the app in the list.


### Allow alarms and other interruptions

Alarms and media sounds are allowed by default, but you can turn them off. You can also allow touch sounds, reminders, and calendar events to send notifications.

1. Go to **Settings** > **Sound** > **Do Not Disturb**.  
Or, in quick settings, touch & hold .
2. Touch **Alarms & other interruptions**.
3. Turn interruptions on  or off .


## Choose settings for hidden notifications

If you have chosen to [hide status bar icons for silent notifications](#), you can also hide them in the pull-down shade.




1. Go to **Settings** > **Sound** > **Do Not Disturb**.  
Or, in quick settings, touch & hold .
2. Touch **Advanced** > **Display options for hidden notifications**.
3. Select what to allow or block:
  - **No sound from notifications:** You will see notifications in the pull-down shade but won't hear their sound.
  - **No visuals or sound from notifications:** You won't see or hear notifications.
  - **Custom:** Start with not seeing or hearing notifications, and make small adjustments, like allowing notification dots.

## Silence during calendar events

Your phone can automatically switch into and out of Do Not Disturb mode for all scheduled events in calendars that you specify.

1. Open [quick settings](#), then touch & hold .
2. Touch **Schedules**.
3. Do one of the following:
  - To use an existing one, turn it on.
  - To create a new one, touch **Add more**. Touch **Event**, then enter a name and touch **Add**.
4. Adjust options to select the calendar to use and your reply status.

To stop your phone from automatically silencing:


1. Go to **Settings** > **Sound**.
2. Touch > **Schedules**.
3. Do any of the following:
  - To use the schedule later, uncheck it to turn it off.
  - To delete a schedule, touch  > .
  - To delete multiple schedules, touch  > **Delete schedules**.

---

## Stop phone from speaking

### Silence replies to voice commands

Some [voice commands](#) (like “What’s up?” and “What is the current weather?”) cause Google Assistant to speak in response.

To quickly silence a voice command response, touch .

To have your phone show responses to voice commands on screen and only speak them when you’re wearing headphones or a Bluetooth headset:

1. [Open](#) the **Google** app.
2. Touch **More** > **Settings**.
3. Touch **Voice** > **Spoken results**.
4. Touch **Hands-free searches only**.

### Turn off screen reader


If your phone describes everything you touch on screen, speaking your notifications, and reading messages aloud, you might have turned on a screen reader. This accessibility feature helps people with visual impairments.

To turn it off:

1. Press & hold both Volume Up and Down buttons for three seconds. If TalkBack was reading the screen, this pauses readout so you can update settings more easily.
2. Go to [Settings](#) > **Accessibility**.
3. Turn off all screen readers, such as TalkBack or Select to Speak.

## Silence “Hello Moto” during power up

If you don't want your phone to say “Hello Moto” when it powers up:

1. Go to [Settings](#) > **Sound** > **Advanced**.
2. Turn **Power on sounds** off .

You can't adjust the volume level for this sound.

---

## Turn off charging sounds

If you don't want your phone to make a sound when it comes in contact with a charger:

1. Go to [Settings](#) > **Sound** > **Advanced**.
2. Turn off **Charging sounds and vibration**.

---

## About your apps








### Open an app

Swipe up from the bottom of your [home screen](#), then touch the app to open.

### Preloaded apps

The following apps are preloaded on your phone. Don't want some? [Delete or disable them](#).

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Icon	App	Description
	<a href="#">Assistant</a>	Use your voice to control your phone.
	Calculator	Make some quick calculations.
	<a href="#">Calendar</a>	Keep track of your upcoming events, get automatic reminders on your phone, and coordinate with others by sharing calendars.
	Camera	Capture photos or videos. To learn more, read <a href="#">. </a>
	<a href="#">Chrome</a>	<a href="#">Browse the web</a> . Access your browser bookmarks from any device, and sync tabs with your computer or Android devices.
	Clock	Set <a href="#">alarms</a> . Use a <a href="#">timer</a> or stopwatch.
	Contacts	<a href="#">Organize and connect</a> with your contacts. Assign <a href="#">ringtones</a> to people.

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Docs

Create, edit, and collaborate with others on documents.

---



Drive

Store and synchronize your files on Google's cloud, then access them anywhere you have an internet connection. Create and share spreadsheets, documents, and presentations. [Scan](#) documents and share or print them.

---



Duo

Make video call with your friends across Android and iOS.

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Facebook

Connect with friends, family, and communities. Share updates and media. Find information on events, entertainment, and businesses.

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Files

Browse and manage files and folders stored on your device or [SD card](#).

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Fit

Track your health and physical activity.

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FM Radio

[Listen](#) to FM radio stations. ([Available](#) in Play Store if not preloaded.) To learn more, open the app and touch  > **Help**.

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Gmail

Compose, send, view, or search your email from your phone or computer.

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Google

[Search](#) the web, see your updates, and adjust Google settings, including [privacy](#).

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Google One

Get expanded storage, Google support, and other member benefits with a paid subscription.

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Google Pay

Pay with your phone [in-store](#) or online, and send cash using this secure digital wallet.

---



Google TV

Get movies and TV shows for instant viewing from Play Store.

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Home

Set up and control your Google Home and Chromecast devices, and other home products like lights, cameras, and thermostats.

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Interactive  
wallpapers

Provides access to Motorola's interactive wallpapers, hosted on the cloud so they don't take up space on your phone until you download them.

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Maps

[Find your destination](#), explore locations.

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Messages

Send and receive text messages.

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Moto

Select available gestures for phone shortcuts and control notifications.

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News

See headlines, weather, and information on your favorite topics and locations.

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Phone

[Make calls](#).

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Photos

Manage photos and [upload](#) them automatically to your private album.

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Play Store

Get apps for your phone, as well as books, magazines, music, and movies and access them from your computer or any Android device.



Podcasts

Find the latest episodes of your favorite podcasts, browse popular and trending podcasts, or discover new podcasts based on your listening history and preferences.



Settings

Customize your phone settings.



Sheets

Create, edit, and collaborate with others on spreadsheets.



Slides

Create, edit, collaborate with others, and play presentations.



YouTube

Find, view, and upload videos to the web.





YT Music



Stream your favorite albums, singles, and live performances, and get recommendations for new music.

## Get more apps

You can [download free and paid apps](#) from Play Store.

**Tip:** Swipe up  and touch  **Search apps**. Type the missing app's name to go to Play Store and install with one touch.

## Get help for an app

1. Open the app.
2. Touch  or .

3. Look for **Help** or **Settings > Help**.

## Switch between recent apps

1. Drag up from the bottom of the home screen, hold, then let go.
2. In your list of recent apps:
  - Touch any app screen to return to it.
  - Swipe left or right to see more apps.
  - Swipe an app up to remove it from the list.
  - To clear the list, swipe all the way right and touch **Clear all**.

### Tips:

- To switch between apps, swipe left or right at the very bottom of the screen.
- Use two apps at once with [split screen](#).

## Close apps



To get out of an app, swipe up from the bottom of the screen.

You don't need to close apps. Android manages the memory and battery that apps use, so you don't need to worry about leaving apps open.

To remove apps from your recently used list:

1. [Drag up](#) from the bottom of the home screen, hold, then let go.
2. Do one of the following:
  - To remove one app, swipe up to remove it from the list.
  - To remove all apps, swipe right to the end of the list and touch **Clear all**.




## Tips for using apps

- You can [change the background color](#) of your app list to be light or dark.
- See how long you use each app and set [app timers](#) to improve your [digital wellbeing](#).
- You can [print](#) from many apps.
- [Copy and paste](#) text between apps with the clipboard.
- To organize apps into groups on your home screen, use [folders](#).
- Want to turn the flashlight on or off? Use [quick settings](#) ( or ). No app required.
- If you're having problems with an app, try these [troubleshooting steps](#).

---



## View two apps on screen

### Use split screen view

1. Open the first app.
2. [Drag up](#) from the bottom of the home screen, hold, then release.
3. In the list of recent apps, touch the app's icon at the top of the preview to see  and .  
Be sure to touch the app's icon instead of the preview, which opens the app.
4. Touch  **Split screen**.
5. Select the second app to use.

### Use a gesture to split the screen

To set it up:

1. Go to [Settings](#) > **System** > **Gestures**.  
Or, [open](#) the **Moto** app and touch  > **Gestures**.
2. Touch **Swipe to split** and turn it on .

To use it:





1. In the first app you want to view in split screen, swipe once back and forth across the screen.
2. Select the second app to use.

### Exit split screen view

Drag the black divider all the way up or down.

### Use Picture-in-picture

With some apps, you can watch video in a small, movable frame while you do other things. Use it when [navigating](#) with Google Maps, too.

1. When you're playing a video or navigating with Maps, touch  or swipe up from the bottom of the screen.  
The video (or navigation) shrinks.
2. You can drag the video (or navigation) anywhere on the screen.
  - To return it to full size, touch it twice.
  - To close it, drag it to the bottom of the screen. Or, touch it, then touch .
  - To turn off Picture-in-picture for the app in use, touch it, then touch  and turn **Allow picture-in-picture** off .

To see all apps that support Picture-in-picture:

1. Go to [Settings](#) > **Apps & notifications**.
  2. Touch **Advanced** > **Special app access** > **Picture-in-picture**.
  3. To turn off Picture-in-picture for an app, touch it and turn **Allow picture-in-picture** off .
- 

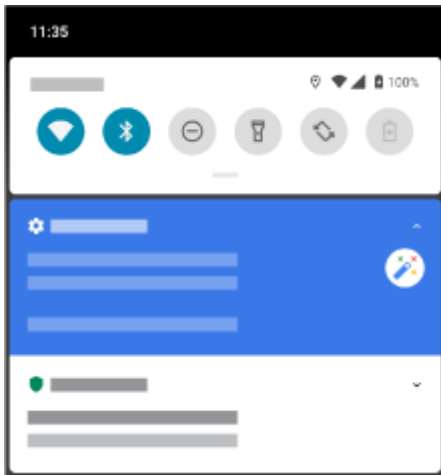
## View notifications

### Find your notifications

Apps send notifications to alert you about things like new messages, calendar events, and alarms.

You can check your notifications from a few places:

- They appear on your [lock screen](#).
- You see them when you swipe the [status bar](#) down on any screen.



If you receive multiple notifications from an app, they're bundled together. Swipe down to view more details. Conversation notifications are bundled together at the top of your other notifications so you can easily return to them any time.

Some important notifications pop up briefly over your current app so that you can take action. For example, a notification for an incoming call might appear while you're watching a video, so that you can answer or dismiss the call.

If an app icon has a notification dot, you can touch & hold it to see the most recent notification:



### Swipe fingerprint for notifications

You can set the fingerprint sensor to open your [notifications](#) and [quick settings](#) when you swipe it.

#### Set it up

1. Go to [Settings](#) > **System** > **Gestures**.
2. Touch **Swipe fingerprint for notifications** and turn it on .


### Use it

Swipe down on the [fingerprint sensor](#):

- Swipe once to view notifications.
- Swipe again to view quick settings.

## What you can do with notifications


### Respond from a notification

Many notifications include actions at the bottom that let you complete common tasks without opening the full app. If you have several notifications, these actions are hidden. When you see , touch it to reveal actions.

### Open the app that sent the notification

Swipe down from the top of the screen and touch the notification to open the app. From your lock screen, touch the notification twice and enter your PIN, pattern, or password to unlock your screen and open the app.

### Snooze a notification

Swipe left or right slowly. Then touch  and select a duration to snooze notifications. To snooze notifications, first [turn on snoozing](#).

### Dismiss a notification

Swipe it sideways. Some notifications, like voicemails, require an action and cannot be dismissed.

### Dismiss all notifications

Swipe to the end of your notifications and touch **Clear all**.

## Customize your notifications

Use [Do Not Disturb](#) to silence all notifications when you don't want interruptions.

Touch & hold a notification to customize that app's notifications. Then you can:

- [Stop all notifications](#) from that app.
- [Change the app's notifications](#) to be **Silent** instead of **Default**.

---

## About Moto experiences

The Moto app provides experiences to help you get the most from your Motorola phone.

You can turn these features on or off with the app or in Settings.


### Turn gestures on/off

Perform everyday tasks with quick motions.

You turn each gesture on/off independently.

Touch "Learn more" links to learn how to use and turn gestures on/off.

- Use three fingers to take a screenshot. [Learn more](#).

- Make a chopping motion to turn the flashlight on or off. [Learn more.](#)
- Twist your wrist twice quickly to open the camera from any screen. [Learn more.](#)
- Use the  navigation buttons instead of gestures to move between screens. [Learn more.](#)
- Use the Volume buttons to switch tracks when listening to music. [Learn more.](#)
- Set your phone face down on a surface to start Do Not Disturb mode. [Learn more.](#)
- Pick up your ringing phone to silence it and switch to vibrate. [Learn more.](#)
- Swipe back and forth to use split screen. [Learn more.](#)

## Optimize your gaming

Gametime provides tools and settings to help you focus on gaming. You can:

- Turn on enhanced display and audio settings. [Learn how.](#)
- Block notifications and reject incoming calls, except for those you choose. [Learn how.](#)
- Pause gestures that conflict with game controls. [Learn how.](#)
- Access shortcuts to social apps, screen capture tools, and settings. [Learn how.](#)

## Other settings

- See what's going on while your screen is off with Peek Display. [Learn more.](#)
- Keep your screen on while you're looking at it with Attentive Display. [Learn how.](#)
- Enhance sound with Audio effects. [Learn how.](#)
- Silence the "Hello Moto" greeting during startup. [Learn how.](#)



To find information about different settings, touch  above.

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## Enhance your gaming

### Open toolkit

Gametime provides a toolkit you can use to quickly adjust settings when gaming.


To open the toolkit, during a game touch  or slide  right.



To change how you open the toolkit, adjust the swipe position, or hide the toolkit:

1. Touch  or swipe  right.
2. Touch  > **Toolkit access**



## Customize display and sound for gaming





1. During a game, [open the toolkit](#) and touch .
 

If you're not playing, open the **Moto** app and touch  > **Play** > **Gametime** > **Settings**.
2. To keep brightness at a fixed level while gaming, turn **Disable adaptive brightness** on .





**Tip:** For the smoothest motion, be sure the display refresh rate is [set to the highest rate](#)

## Play uninterrupted

### From toolkit


1. During a game, [open the toolkit](#).
2. Touch  to block calls and  to block notifications.
3. When Block calls is on , calls from [starred contacts](#) are allowed as exceptions. To block starred contacts as well, or to permit calls from certain contacts, touch  > **Caller exceptions**.



### From Moto app

1. Open the **Moto** app.
2. Touch  > **Gametime** > **Settings**.
3. Under Immersive mode, turn **Block notifications** and **Block calls** on  or off .
4. When Block calls is on , calls from [starred contacts](#) are allowed as exceptions. To block starred contacts as well, or to permit calls from certain contacts, touch **Caller exceptions**.

## Turn off gestures that conflict with game controls

Some [gestures](#) may conflict with game controls. You can turn them off while you're playing games.


1. During a game, [open the toolkit](#) and touch .
 


Or, open the **Moto** app and touch  > **Play** > **Gametime** > **Settings**.
2. Touch **Block Gestures** and turn on  the gestures you want to block.

## Use social apps while you play

You can add up to two shortcuts in [the toolkit](#) to social apps such as WhatsApp or Discord, for quick access to your gaming friends. When you open the app from the toolkit during a game, it appears in a small freeform window that you can reposition.

To add apps to the toolkit:

1. Be sure you've [installed](#) and set up the social app.
2. During a game, [open the toolkit](#) and touch .
 

Or, open the **Moto** app and touch  > **Play** > **Gametime** > **Settings**.

### 3. Touch **App shortcuts**.

If needed, [download](#) the app you want to use from Play Store.

### 4. Select the apps to add.


To use the social apps:

1. During a game, [open the toolkit](#) and touch the app's icon, like WhatsApp.
2. Drag the app window where you want it.
3. Use available app features as you normally do. Certain app features may not be available in freeform mode.

## Record or take screenshot during game

1. During a game, [open the toolkit](#) by touching .


2. To record your screen, touch . [Learn more](#).

To take a screenshot, touch .

To adjust viewfinder size, resolution, or to record/disable screen touches, touch **Screen record settings**.



## Manage game list

1. During a game, [open the toolkit](#) and touch .

Or, open the **Moto** app and touch  > **Play** > **Gametime** > **Settings**.

2. Touch **Game management**.

3. Add or remove games:

- Touch  to add a game.
- Touch  to remove a game. You'll no longer be able to use the toolkit or settings during games you remove.

## Install or update apps

### Get apps from Google Play Store



Need a voice recorder, notepad, or compass? You can download more apps, in addition to the apps [preloaded](#) on your phone.

To download apps:

1. [Open](#) the **Play Store** app.
2. Browse by category or search.
3. Touch an item to see a description, read reviews, and download it.

You'll see  in the [status bar](#) when the app has downloaded and installed successfully.


#### Tips:

- To view Play Store apps you've installed on this phone, touch your profile icon  > **My apps & games**. Touch **Library** to see apps you've installed on other devices using the same Google account.
- To prevent accidental or unwanted purchases, touch your profile icon  > **Settings** > **User Controls** > **Require authentication for purchases**.

### Get apps from other sources

Before downloading, do some research: check the app's rating and read lots of comments.

To download apps:


1. [Open](#) the **Chrome** app and go to the appropriate site to download the app.  
If you see a warning, touch **OK** to continue.  
You'll see  in the [status bar](#) when the download completes.
2. Touch the download notification to install the app. Or, open the **Files** app to install it later.
3. When installing the app, be sure to review what information the app will access. If you don't want the app to access this information, cancel the installation. For example, if you're installing an app that makes a shopping list, the app should not require access to your contacts.

### Update Play Store apps automatically

Updating your apps gives you the latest features and improves security and stability. For best performance, apps are set to update automatically.


If an app changes the information it wants to access on your phone, you will receive a notification to update the app manually and will be required to review and accept the new permissions.

To control when your apps are automatically updated:

1. [Open](#) the **Play Store** app.
2. Touch your profile icon  > **Settings**.



3. Touch **Auto-update apps**.
4. Select whether apps should:
  - Auto-update over any network
  - Auto-update only over Wi-Fi - save data charges on your cellular plan

## Update Play Store apps manually


1. [Open](#) the **Play Store** app.
2. Touch your profile icon  > **My apps & games**.
3. On the Updates tab, touch **Update all**, or to update a specific app, touch **Update** next to its name.
4. Read the summary of what changed, then swipe down to review any changes to permission details, what information on your phone the app can access. If you agree, touch **Update**.

## Turn off Play Store auto-updates

To stop a specific app from updating automatically:




1. [Open](#) the **Play Store** app.
2. Touch your profile icon  > **My apps & games**.
3. Touch the **Installed** tab, then touch the app's name.
4. Touch  and turn off **Enable auto update**.

To stop all apps from updating automatically:

1. [Open](#) the **Play Store** app.
2. Touch  > **Settings**.
3. Touch **Auto-update apps** > **Don't auto-update apps**.

## Restore Play Store apps

If you [uninstall](#) an app you got from Play Store, you can reinstall it anytime. Have apps you use infrequently, such as a flight tracker? Delete them and easily reinstall when needed.

1. [Open](#) the **Play Store** app.
2. Touch your profile icon  > **My apps & games**.
3. Touch the **Library** tab for a list of every app you've downloaded.
4. Next to the app name, touch **INSTALL**.
5. If you have multiple Google accounts, touch  and next to your account touch . Select the other account and repeat the process to restore apps downloaded in that account.

## Manage or delete apps

### Organize apps


To organize apps into groups on your home screen, use [folders](#).


### Control app permissions

The first time you use an [app](#), and sometimes when you [install](#), [update](#), or haven't used it for a while, you are asked to grant the app permission to access certain data and phone features.

You can adjust these permissions any time.

To adjust permissions by app:

1. Touch & hold the app icon, then touch .
2. Touch **Permissions**.
3. Turn each permission on or off as needed.

**Tip:** To see how the app uses each permission, touch  > **All permissions**.

You can also review each feature and [adjust which apps have permission](#).

### Use safe mode

Issues such as apps crashing, unexpected reboots, or fast battery drain could be caused by a third-party app. Use safe mode to start your phone with only the original software and apps. If the issues go away in safe mode, the problem is probably from a third-party app you downloaded.

To restart in safe mode:

1. Press & hold the Power button.
2. Touch & hold **Power off**. Then touch **OK** to restart in safe mode.

When it restarts, you'll see **Safe mode** across the bottom of the home screen, and all widgets and third-party apps will be disabled.

3. Use your phone and see if the problem has gone away. Remember, you won't be able to use any downloaded apps.

#### If the problem goes away:

1. To exit safe mode, restart your phone.
2. One by one, uninstall recently downloaded apps. After each removal, restart your phone. See whether removing that app solved the problem.
3. Once you delete the problematic app, you can [restore](#) the other apps you removed during testing.


**If the problem doesn't go away:** Try these [troubleshooting steps](#) for phone performance issues.

### Exit safe mode

Restart your phone by holding down the Power button for about 30 seconds.


## Clear app's cache or data

Clearing the cache and data can free up phone memory, improve performance, and fix some problems with apps and web pages.

1. Touch & hold the app icon, then touch .
2. Do one of the following:
  - To free up space by removing temporary files, touch **Storage & cache** > **Clear cache**. Over time, the cache builds up again, so repeat if a problem occurs.
  - If problems still occur, then delete all data saved in the app by touching **Storage & cache** > **Clear storage**. Be careful - there's no way to undo this.



## Force stop apps

Force stop an app only if it seems to be causing a problem. To completely shut down an app, including any background services:

1. Touch & hold the app icon, then touch .
2. Touch **Force stop**.


## Delete apps you installed

You can delete (uninstall) apps that you downloaded. For many [preloaded apps](#), you can disable but not delete them.

1. Touch & hold the app's icon.
2. Do one of the following:
  - Drag the icon up and drop it on . This removes the app and frees storage space.
  - If you don't see a delete option, touch & hold the app icon, then touch  > **Disable**.

## Delete apps installed by others


If you are the [owner](#) of the phone and share it with [users](#) or [guests](#), you can uninstall apps they installed. Although their apps don't appear in your app tray or on your home screen, they do reduce available storage space.

1. Go to **Settings** > **Apps & notifications** > **See all ### apps**.  
Apps installed by others show the message **Not installed for this user**.
2. Touch the app name.
3. Touch  > **Uninstall for all users**.

## Back up to Google

You can automatically back up the following items to your [Google account](#):


- Apps and app data
- Call history

- Contacts
- Phone settings (including Wi-Fi passwords and permissions)
- Photos and videos (synced to [your Google Photos library](#), not to Google Drive)
- SMS text messages (if using  Messages)



**Tip:** Back up over [Wi-Fi](#) to prevent cellular data charges.

Not all apps back up data automatically. Check with the app developer.

To automatically back up to Google Drive:

1. Go to [Settings](#) > **System**.
2. Touch **Backup**.
3. Turn **Back up to Google Drive** on .
4. If you have multiple Google accounts, touch **Account** to select an account.
5. Follow the onscreen instructions.


To back up other files that aren't automatically backed up, like attachments or downloads:

1. [Open](#) the  Drive app.
2. Touch .
3. Touch **Upload**, then choose the files or folder to upload.

---




## Protect against harmful apps

### Scan phone for harmful apps

Google Play Protect  helps keep your phone secure by automatically scanning your apps, including sideloaded apps, to check for potentially harmful apps (malware).

If Google Play Protect finds a potentially harmful app, it stops the app from running and warns you so that you can uninstall it.

To see the results or to rescan:

1. [Open](#) the **Play Store** app.
2. Touch your profile icon  > **My apps & games**.
3. Do any of the following:
  - To see the results of latest scan, on the Updates, look at the message next to .
  - To rescan your phone, touch .

Google Play Protect is on by default.

## **If your phone seems slow**

If you've scanned your phone to confirm there aren't any potentially harmful apps but your phone seems slow, try these [troubleshooting steps](#).



## Search the web

### Search from anywhere

You don't have to leave your current app to search for the info you need. Use Google Assistant from any screen to get search results and options for your next action.

To search:

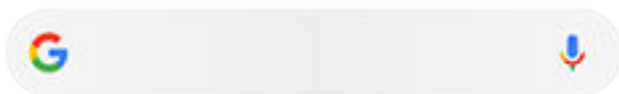
1. Press the [Google Assistant button](#).
2. Tell the assistant what you're looking for. For example, search for a local restaurant by saying "Find [restaurant name]."
3. Below the search result, touch options for related actions: make a call, get directions, read reviews, and more.

For more help with Google Assistant, read [Google's support information](#).

### Search with the widget

To type your search term:

1. Touch the Search widget.






2. Start typing a search term.  
As you type, suggested terms appear.
3. Touch a suggestion to search for it.



### Use camera to search for info

In the  Camera app, you can use  Google Lens on the viewfinder to:



- **Search for information about objects and surroundings:** Learn about products, landmarks and buildings, plants and animals, books and visual art
- **Scan barcodes and QR codes:** Search for related information, open a website to purchase a product
- **Digitize real-world text:** Copy text to paste in another app, translate text, save business card information to Contacts, create calendar events from dates on posters or billboards


To use Google Lens:


1. Open the  Camera app and touch .
2. Frame the item you want to learn about and touch .
3. Touch the item you want to learn about.

For text, touch it to select it, and use   to select more.


4. In the list of results:

- Review results, then touch a selection to view it or take the suggested action.
- To crop the area of your search for more accurate results, touch .
- For more actions, touch  and then:

 Translate text



 Copy or scan text

 Homework help, like steps to solve math problems

 Shopping, product details

 Places, building details



 Menus, restaurant reviews

You can also use Google Lens on captured photos and screenshots. In the  Photos app, open the photo or screenshot, then touch .



To learn more, read [Google's help](#).

## Search for nearby phone numbers

To find and call a nearby business:

1. [Open](#) the  **Phone** app.
2. Touch .
3. Say or type the name of place to call, or a search term about the place (for example, “restaurant”).  
You’ll see a list of nearby search results.
4. Touch the place to dial its number.

If it doesn't work:

- Make sure [Location](#) is enabled.
- Touch  >  > **Settings** and turn **Nearby places** on.

## Delete Google search history

Read [Google's help](#) for instructions.

## Use search engine other than Google


To use a search engine other than Google:

1. Search for “search engine” in Play Store and [install](#) one of the apps.
2. Open that app to search.



3. Optionally:
    - [Delete](#) the Google search widget from your home screen. If you can't delete it, use a [different launcher](#) for your home screen that doesn't include the widget.
    - Install a browser to replace Chrome and make it [your default browser](#).
    - [Turn off](#) Google's collection of your information.
- 

## Search your phone

### Find an app

1. Swipe up from the bottom of the [home screen](#) to open your app list.
2. Touch  **Search apps**.
3. Type the app's name.
4. If the app is on your phone, touch its icon to open it.  
If the app isn't on your phone, touch **SEARCH FOR MORE APPS** to go to Play Store and install with one touch.

### Find a setting

1. Go to [Settings](#).
2. At the top of Settings, touch .
3. Type your search term and touch  on the keyboard.
4. In the list of search results, touch a setting to open it.

### Find your phone number

1. Go to [Settings](#).
2. Touch **About phone > Phone number**.

### Find photos, videos, files

To find photos or videos on your phone, use the Photos app.








To find downloaded files, use the [Files app](#).

---

## Browse websites

### Visit and bookmark websites




Your phone connects to your carrier's cellular network or to a Wi-Fi network to access the internet. To save data charges on your cellular plan, use a [Wi-Fi connection](#).

1. Open the  **Chrome** app.
2. Go to a site by touching the bar at the top and typing the address.
3. On a web page:
  - To bookmark it, touch  > .
  - Or, touch  > **Add to Home screen** to put a [shortcut](#) on your home screen.
  - To search for text on that page, touch  > **Find in page**.
  - To open a link, touch it.
  - To see options for opening a link in a new tab and copying or sharing a link, touch & hold the link.
  - To print the page, touch  > **Share** > **Print**. If you don't see your printer listed, set up your [print service](#).
4. To return to the previous page touch .



To learn more about browsing or managing bookmarks, open Chrome and touch  > **Help & Feedback**.

## Open and switch browser tabs

In the  **Chrome** app:

- To switch tabs, touch the switcher icon .
- To open a new tab, touch touch the switcher icon , then touch .

## Clear browsing history

1. Open the  **Chrome** app.
2. Touch  > **History**.
3. Touch **Clear browsing data**.  
To learn more, read [Google's help](#).

You can also review and delete your [search history](#).

## Change default browser

You can [download](#) other browsers from Play Store. After you've installed one, you can make it your default browser.

1. Go to **Settings** > **Apps & notifications**.
2. Touch **Default apps** > **Browser app**.  
Or, touch **Advanced** > **Default apps** > **Browser app**.
3. Touch the app to use.

---

## About text and multimedia messages

### Text messages - SMS

SMS (Short Message Service) messages contain text only. One text message can contain 160 characters; when you near the limit, a counter appears. If you type more, your message is sent in a series of SMS messages.

You can send one SMS message to multiple people, and replies are delivered in separate, not group, conversation threads (unless you and your recipients have group messaging enabled).

SMS messages are included in most carriers' text messaging plans and do not use cellular data.

### Multimedia messages - MMS

MMS (Multimedia Messaging Service) messages can include unlimited text plus a photo, picture slideshow, video, or sound file.

You can send one MMS message to multiple people using group messaging, containing text only or text and media, and replies are delivered in group conversation threads to each person in the group.

MMS messages use cellular data and require a cellular data plan or pay-per-use payment.

### Group messaging

Group messaging lets multiple people carry on a group conversation. All replies from recipients are delivered to all recipients, in a group conversation thread.

Though you send one message to multiple recipients, you are charged for each message received. Group messaging:

- Converts multiple-recipient SMS messages to MMS for all who can receive them
- Is available for MMS messages only

**Note:** Recipients who cannot receive MMS messages receive SMS instead and, if media is attached, a link to download it over Wi-Fi (when offered by carrier). Replies are to the sender only, in an individual conversation.


If you don't want to receive replies in group conversations, you can [turn off group messaging](#) in the Messages app.

---




## Read, send, manage text messages

### Read and reply to a text message

When you receive a [text message](#) with the  Messages app, you'll see  in the [status bar](#).

1. Swipe the status bar down and touch .







2. Do any of the following:

- To respond to the message, enter your response in the text box and touch .
- If the message is from an unassigned number, [create a contact](#) to associate a name with that number.
- To open an attached photo, slideshow, or any type of attachment, touch it.
- To [save an attachment](#), touch & hold it, then touch .
- To find a message, touch  at the top of your message list and enter search terms.





#### Tips:

- If you don't want multi-recipient SMS messages converted to MMS and want replies sent in separate conversations (threads) to you only, [turn off](#) group messaging.
- To protect your privacy, you can [hide sensitive content for lock screen notifications](#).

## Send text message



1. [Open](#) the  **Messages** app.
2. Touch .
3. Enter recipients, then type the message.
4. Optionally:
  - To [add an attachment](#), touch  or .
  - To add a smiley or other icons, touch  on the [onscreen keyboard](#).
5. Touch .

Tips for sending messages:

- To text your best friend with one touch from your home screen, add a [task shortcut](#). Touch & hold  and drag  to your home screen.
- To [change](#) the text message reply to incoming calls, open the  Phone app and touch  > **Settings** > **Quick responses**.


## Request text delivery reports

See whether recipients receive your messages by requesting delivery reports.



1. [Open](#) the  **Messages** app.
2. Touch  > **Settings**.
3. If you have dual SIMs, touch the SIM.  
If you have one SIM, touch **Advanced**.
4. Turn on **Get SMS delivery reports**.

## Manage draft texts



When you begin composing a text message reply or a new message with recipients, it is saved in your message list as a draft until you send or delete it.

1. Open the message list and touch the conversation marked **Draft**.
2. Do one:
  - Finish composing the message and touch .
  - Delete the characters in the text field to delete the draft.

## Forward a text message

1. Open the  **Messages** app.
2. Open the conversation.
3. Touch & hold the message.
4. Touch  > **Forward**.







## Copy text from a message

1. Open the  **Messages** app.
2. Open the conversation.
3. Touch & hold the message.
4. Touch .

You can now [paste](#) it elsewhere, like in an email you're [composing](#).

## Delete or archive texts

When you delete a message, you also delete any attached photos or videos. If you want the attachments, be sure to [save them](#) before deleting the message.








- To delete a single message, open the conversation (thread) and touch & hold the message, then touch .
- To delete or archive all messages in a conversation, touch & hold the conversation, then touch  to delete or  to archive.
- To delete or archive multiple conversations, touch & hold each conversation, then touch  or .
- To see archived messages, touch  > **Archived**.

---

## Add attachments




### Attach files to text message

You can attach saved pictures and videos, or take one right from your message that has an optimized, reduced file size.

1. Open the  **Messages** app.
2. Compose a [reply](#) or a [new message](#).
3. Do one of the following:
  - Touch & hold  to start recording a voice message. When done, lift your finger.
  - Touch  to attach a photo or video or capture a new one. Touch  to expand the viewfinder to fullscreen, where you can switch to a selfie camera  or capture a video.
  - Touch  for other types of attachments (emoji, GIF, your location).
4. Touch .

To learn more, touch  > **Help & Feedback** in the  Messages app.

### Send contact as text message

1. Open the  **Messages** app.
2. Open your conversation with that person.
3. Touch their name at the top of the conversation.  
You'll see their contact information.
4. Touch  > **Share**.
5. Touch the recipient's name, or touch **Messages** to start a new message.
6. Touch .



### Fix a problem

If you're having trouble attaching files, check that:

- Cellular data is [turned on](#).
- Your data plan supports MMS (multimedia messages).

---

## Save attachments from text message

If you received an attachment to a [text message](#), you can save it on your phone. In the message, just touch & hold the attachment, then touch  to save it. If you don't see , touch the attachment to open it, then look for save options.



To view the saved attachment:

- For photos or videos, [open](#) the Photos app and touch **Library**.
- For other attachments, [open](#) the Files app.

If you do not save a photo or video from a message, it is kept within the message only. So, if you delete the message, you also delete the attachment. (You can try to [recover](#) recently deleted messages.)



---

## Turn group messaging on or off

Group messaging allows conversation participants to reply to all recipients in a single thread. If you do not want multi-recipient SMS messages converted to MMS and want replies sent in separate threads only to you, turn off group messaging.

*This feature is not available in all countries.*

To adjust the group messaging setting:

1. In the  Messages app, touch  > **Settings**.
  2. Do one of the following:
    - If you have a single SIM, touch **Advanced**.
    - If your phone allows dual SIMs, touch the SIM you use for text messaging.
  3. Touch **Group messaging** and select an option.
- 

## Change default messaging app



You can [download](#) additional messaging apps from Play Store. After you've installed one, you can make it your default messaging app.

To select a different app to send and receive text (SMS) and multimedia (MMS) messages:


1. Go to [Settings](#) > **Apps & notifications**.
  2. Touch **Default apps** > **SMS app**.  
Or, touch **Advanced** > **Default apps** > **SMS app**.
  3. Touch the app to use.
- 

## Control notifications for text messages

If you use the Messages app:

1. [Open](#) the  Messages app.
2. Touch  > **Settings**.
3. If you have dual SIMs, touch **General**.
4. Touch **Notifications** and turn notifications on or off, change the sound, and add or remove vibration.



If you use a different messaging app:

1. Touch & hold the app's icon.
2. Touch  **App info** > **Notifications**.
3. Make changes.



**Tip:** In your phone settings, you can [prevent interruptions](#) by restricting text message notifications during hours you specify or from specific people.

---

## Change text message reply to incoming calls

When your phone rings, you can drag  towards  to see a list of quick responses you can send by text message instead of [answering](#) the call.


To edit these quick responses:


1. Touch .
2. Touch  > **Settings**.
3. Touch **Quick responses**.
4. Touch one of the responses to edit it.

---

## Get text messages on your computer




### Set up Messages for web

If you use the  Messages app on your phone, you can see and send text messages on your computer.

Pair your computer and the  Messages app on your phone by scanning a QR code:

- The QR code is unique to that computer.
- You can set up multiple computers, getting individual QR codes, but only one is active at a time.

To set up a computer:

1. Be sure your phone and computer are connected to the internet.
2. On your phone, [open](#) the  **Messages** app and touch  > **Messages for web**.
3. On your computer, go to <https://messages.android.com>. To remember this computer and stay signed in to Messages, turn the slider on .
4. Follow onscreen instructions to scan the QR code on the web page with your phone.

Once paired, you'll see your latest conversations in your computer's browser.

### See and send messages

When you have unread messages, you'll see a red notification and number of unread messages in the browser tab on your computer.

To send messages from your computer, your phone must be on and connected to the internet.




Usual carrier fees for sending text messages from your phone also apply to messages sent from your computer.


## Sign out of Messages for web

If you don't use Messages on a paired computer for 14 days, you're automatically signed out from that computer for security reasons.

If you're using a shared or public computer, sign out when you're done.

To sign out from your phone:


1. Open the  **Messages** app.
2. Touch  > **Messages for web**.
3. Do one of the following:
  - Touch  next to an individual computer to sign out of it.
  - Touch **Sign out of all computers**.

To sign out from the computer, at the top of the message list, click .

---


## Read, send, manage emails

### Read email






If you've [set up email](#), you'll start receiving emails after your account [syncs](#) with your phone. When you receive an email [notification](#), you'll see  in the [status bar](#).

1. To open email from a notification, swipe the status bar down and touch the notification:
  - A single email notification opens the message directly.
  - A multiple email notification opens the email list; touch an email to open it.





If you dismiss the notification and want to view the email later, [open](#) the **Gmail** app.

2. Do any of the following:
  - To view other folders, touch  from your email list.
  - Attachments appear at the end of the email. You can [view or save](#) them.
  - You can [print](#) emails from your phone.


### Reply to or forward an email

1. Touch  to reply to the sender. Or, swipe to the end of the email and touch  to reply to all recipients or  to forward.
2. Enter your message.
3. To copy someone on the email, in the To field, touch .
4. Touch .

### Send new email

1. [Open](#) the **Gmail** app and touch **Compose**.  
Or, touch & hold , then touch **Compose**. (If you send lots of emails, add a [task shortcut](#). Drag  **Compose** to your home screen.)
2. Enter the recipient and your message.
3. To copy someone on the email, in the To field, touch .
4. Touch .

### Add attachment to email

1. In the email you're composing, touch  > **Attach file**.
2. Browse to the file, and touch it to add it to the email. The attachment appears at the bottom of the email.

## Find emails

When you open the Gmail app, you see your Inbox.

To view sent email, drafts, recently deleted email, and other categories, touch .

To search for emails, at the top of your email list enter terms, like the topic or the sender's name.

## Delete emails

To delete an open email, touch .

To delete multiple emails, go to your email list, touch & hold each message to delete, then touch .

To delete large quantities of email, sign into your email account on your computer, and see your email provider's help for more information.

### Tips:

- To delete [attachments](#) that you saved from emails, use the Files app.
- You can also [remove](#) email accounts from your phone.

## Learn more

For more help with Gmail, read [Google's support information](#).

For help managing email from other providers, sign into your email account on your computer and look for the provider's instructions.

---

## View email attachments



### View attachments

Attachments appear at the end of an [email](#).

To view or play the attachment, touch it.

If you see a message that you can't open the attachment type, most file types have a free viewer that you can use. In Play Store, search for the file type, then select and [download](#) an app.


### Save attachments from email

In the email, touch  on the attachment to download and save it on your phone, or touch  to save it in Drive.

To view attachments later, open the [Files](#) app (go to Download) or the **Drive** app.

### Delete attachments saved from email


1. [Open](#) the **Files** app.
2. Touch **Browse** > **Downloads**.

3. Do one of the following:
  - To select one item, touch & hold it.
  - To select multiple items, touch & hold the first one, then touch the others.
4. Touch .

## Prevent previews of attachments

Attached photos or videos appear as thumbnails, showing a preview.


To see a generic thumbnail instead of a preview thumbnail until you open the file:

1. [Open](#) the **Gmail** app.
  2. Touch  > **Settings**, then touch the account name.
  3. Touch **Images** > **Ask before displaying external images**.
- 

## Preview inboxes from home screen


To preview your inboxes, open emails, or quickly start a new email, [add](#) the Gmail widget to your home screen.

With the widget, you can:

- **Open a message.** Touch the message.
  - **Compose a message.** Touch .
  - **View more messages.** Scroll down the list.
  - **Open the app.** Touch the folder name at the top of the widget.
- 

## Add email signature

To add a signature automatically to the end of emails you [send](#):

1. [Open](#) the **Gmail** app.
  2. Touch  > **Settings**.
  3. Select the account.
  4. Touch **Mobile Signature** and edit the text you want to appear at the end of every email.
- 

## Control email notifications

You can control whether you see notifications when you [receive an email](#).

1. Touch & hold .
2. Touch  > **Notifications**.

3. Adjust notification settings.

**Tip:** To automatically silence notifications during hours you specify, use [Do Not Disturb](#).

---

## About the calendar

Keep track of upcoming events and get automatic reminders on your phone with your calendar. Google calendars let you save all your events in one place, which is secure, synced, and accessible from any web-enabled device or computer when you've signed in to your account.

You can:

- [Review](#) existing events.
- [Create](#) new events.
- [Control notifications](#) for events.


Your calendar can automatically create new events based on your incoming Gmail messages. For example, if you make restaurant reservations or book a flight, these events will show up automatically on your calendar; you don't have to add them.

If you created multiple calendars within your [Google account](#), or if you have multiple Google accounts on your phone, you can control which events are [synced](#) with your phone.

---

## Find calendar events

### Open calendar events

You'll see  in the [status bar](#) to alert you of upcoming events. Just swipe the status bar down and touch the notification to see the event details in your calendar.

To see your list of upcoming events, [open](#) the Calendar app.


**Tip:** For an overview of your upcoming events from your home screen, [add](#) a Calendar widget.

### Get around the calendar




To glance at the month view:

1. Touch the month's name.
2. Touch a date to jump to it and see its events.

To change the view:

1. In your calendar, touch .
2. Touch **Schedule**, **Day**, **3 days**, **Week** or **Month**. This view remains the default until you change it.

From these views, you can:

- **Read or edit event details.** Touch the event to open it and touch  to edit it.
- **Add new events.** Touch .
- **Search your calendar.** Touch .




---



## Create and manage events

### Create calendar events

As you're creating an event, you'll see suggestions for the event titles, locations, people, and more. In some cases, these suggestions are personalized based on information associated with your Google account and your previously created events.


1. [Open](#) the **Calendar** app and touch  > **Event**.
2. Touch the account name to associate the event with the calendar you want.
3. Enter the start time and other details.
4. If you want a reminder sent to your status bar, touch **Add notification** and select how long before the event you want a reminder.
5. Touch **Save**.

### Edit or delete calendar events

1. Touch an event to open it.
2. Do any of the following:
  - To edit it, touch .
  - To delete it, touch  > **Delete**.


### Control which events are shown


To temporarily hide calendar events for a Google account you don't need to see all the time:

1. [Open](#) the **Calendar** app and touch .
2. Beneath the account name, touch **Events**. If you have multiple calendars for that account, touch the name of each calendar to hide its events.

**Tip:** When you hide events, the calendar still [syncs](#) with your Google [account](#). To prevent that account's calendar from automatically syncing, from the home screen go to [Settings](#) > **Accounts**.


To exclude automatically-generated events created from Gmail (for events such as flight bookings and restaurant reservations):

1. Touch  > **Settings** > **Events from Gmail**.
2. Under the name of the account, turn off **Events from Gmail**.

To learn more, open Calendar and touch  > **Help & Feedback**.

---

## Control notifications for calendar events

1. Touch & hold the  app icon.

2. Touch ⓘ > **Notifications**.
3. Adjust notification settings.





If you have [assigned](#) a ringtone for the notification but you silence your phone, your phone won't play the ringtone.

**Tip:** To automatically silence notifications during hours you specify, use [Do Not Disturb](#).

---

## Set alarms

### Set alarm by touch

1. [Open](#) the **Clock** app.
2. Touch .
3. Adjust alarms:
  - To create a new alarm, touch .
  - To use an existing alarm, switch it on.
  - To change an alarm's sound, schedule or label, touch .
4. To control general alarm settings, like alarm volume and snooze duration, touch  > **Settings**.

### Set alarm by voice

1. Press the [Google Assistant button](#). Or, say “Hey Google” if you've set up Voice Match.
2. When prompted to speak, say your command. For example: “Set alarm for 7:45 p.m., label, switch the laundry” or “Wake me up at 7 a.m. tomorrow.”




Your phone sets the alarm and provides a confirmation.

### When an alarm is set

You'll see  in the [status bar](#) and on your [lock screen](#).

To adjust it, open [quick settings](#) and touch the alarm time.

### Delete an alarm



1. [Open](#) the **Clock** app.
2. Touch .
3. Touch  > .

---




## Use timer or stopwatch


### Use timers

You can set multiple countdown timers with labels to keep track:

1. In the Clock app, touch  for the Timer tab.
2. Enter the time to count down.
3. Touch .






4. Do any of the following:

- To pause the countdown, touch .
- To add a label to the timer, touch **Label** (helpful when using multiple timers).
- To add a minute to the countdown, touch **+ 1:00**.
- To reset the counter to the original time, touch  > **Reset**.
- To add a timer, touch **Add timer**.
- To delete a timer, touch **Delete**.
- To change the timer's sound, touch  > **Settings** > **Timer sound**.
- If you leave this app, quickly return to it by swiping the status bar down with one finger to see the timer notification and remaining time. To open the timer, touch the notification.

**Tip:** If you use timers frequently, create a [task shortcut](#). Touch & hold , then drag **Create new timer** to your home screen.

## Use a stopwatch

Record your time and share your results.

1. In the Clock app, touch  for the Stopwatch tab.
2. Touch .
3. Do any of the following:
  - To pause the stopwatch, touch .
  - To record laps (or multiple durations) while the stopwatch is running, touch **Lap**.
  - To reset the counter to zero, touch  > **Reset**.
  - To share your times with others or send them to yourself, touch  > **Share**.
  - If you leave this app, quickly return to it by swiping the status bar down with one finger and touching a control. To open the stopwatch, touch the notification.

**Tip:** If you use stopwatches frequently, create a [task shortcut](#). Touch & hold , then drag **Start stopwatch** to your home screen.





---

## Set date and time

### Change time format

1. Go to [Settings](#) > **System** > **Date & time**.

2. To change how times are displayed:

- To use military time such as 13:00, turn **Use locale default** off  and turn **Use 24-hour format** on .
- To use the time format of your current location, turn **Use locale default** on .
- To use 12-hour format, turn both **Use locale default** and **Use 24-hour format** off .

## Set date and time automatically

1. Go to **Settings** > **System** > **Date & time**.
2. Turn on **Use network-provided time** and **Use network-provided time zone**.

Your phone automatically syncs with the local time (using the mobile network). The local time is used for alarms and is displayed on the lock screen and other displays.

## Set date and time manually



1. Go to **Settings** > **System** > **Date & time**.
2. Turn off **Use network-provided time**.
3. To make corrections, touch **Date** and **Time**.

## Switch time zones

1. Go to **Settings** > **Date & time**.
2. Turn off **Use network-provided time zone**.
3. Touch **Time zone**. Then choose a regional time zone (which is applied to the current time).



## Show multiple time zones

You can view multiple time zones in the Clock app, so you can coordinate plans with friends and co-workers in other cities, or stay in touch with family back home when you're traveling.

1. **Open** the **Clock** app and touch .
2. To add time zones, touch , then select cities in the time zone you want to view.

## Show home time zone

When traveling, you can view your home time zone in the Clock app.

1. **Open** the **Clock** app and touch .
2. Touch  > **Settings** > **Automatic home clock**.
3. Touch **Home time zone**, then select your home time zone.


---


## Share photos and videos


You can wirelessly share one, multiple, or all items from any Photos view, sending them as email or message attachments, uploading to the cloud, or using device-to-device connections like Bluetooth.

In addition to sharing wirelessly, you can [transfer photos to your computer](#) with a USB connection. You can also [move photos](#) from internal memory to SD card.

To share wirelessly:



1. [Open](#) the  **Photos** app.
2. Navigate to the thumbnail of the item you want to share.
3. Select the item to share:
  - To select one item, touch & hold its thumbnail.
  - To select multiple items, touch & hold the first thumbnail, then touch the others to select them.

**Tip:** To clear all selections, touch  at the top of the screen next to the number selected.



4. Touch  and select the [way you want to share](#).
- 

## Upload photos and videos



### Back up automatically

1. [Open](#) the  **Photos** app.
2. Touch your profile icon  > **Turn on backup**.
3. Select back up and sync settings and touch **Confirm**.  
You can [change](#) these settings any time.


### Adjust back up settings

1. [Open](#) the  **Photos** app.
2. Touch your profile icon  > **Photos settings** > **Back up & sync**.
3. Adjust settings as needed:
  - To choose high quality or original size for uploads, touch **Upload size**.
  - To back up items in your Download, Screenshots, and third-party app folders, touch **Back up device folders**.
  - To back up items over your cellular network, touch **Cell data usage**, then adjust options for photos, videos, and roaming.

## Back up manually

1. [Open](#) the  **Photos** app.
2. Open the photo or video.
3. On the photo or video, touch .

## View your backed up photos and videos

From your phone, open the  Photos app.


From your computer, sign in to [photos.google.com](https://photos.google.com).

## More help


To learn more, read [Google's help](#).

## Answer calls

### Answer incoming call

When you receive a phone call, the Incoming call screen shows the caller ID. If you miss a call, you'll see  in the [status bar](#).

To answer an incoming call:


- On the Incoming call screen, touch **Answer**.
- On the [lock screen](#), swipe  up to answer a voice call, or swipe the caller's icon/picture up to answer a video call.

During a call, you can use the keypad to enter numbers or codes, use speakerphone or a paired Bluetooth device, and add other people to the call. [Learn more](#).

**Tip:** You can [save a recent call](#) as a contact.

### Reject incoming call

If you don't want to talk to the caller, you can:



- **Divert the call to voicemail.** On the Incoming call screen, touch **Dismiss**. Or, on the lock screen, press the Power button. You can also automatically [divert all calls](#) from a specified number to voicemail.
- **Respond with a text message.** On the lock screen, touch . You can [customize](#) these default messages.
- **Block all calls** from that number.

## Control ringtones and notifications

You can:

- **Quickly silence the ringer.** Press Volume Down on the side of the phone.
- **Silence ringtones during hours you specify.** Use [Do Not Disturb](#).
- **Choose a unique [ringtone for specific people](#).** You'll know instantly who's calling.
- **Get notified of incoming calls when you're on a call.** Set up [call waiting](#).
- **Set the number of rings before sending a call to voicemail.** Dial into [voicemail](#), then follow your carrier's prompts to change this setting.

### Fix a problem






If your phone isn't ringing for incoming calls, look for  in your status bar. Open [quick settings](#) and touch  to turn Do Not Disturb off. Your phone will ring for incoming calls. Check your settings to make sure your phone is screening calls at the appropriate times.

If you're having other problems, try these [troubleshooting steps](#).





## Make calls


### Make a call










1. Touch .
2. Touch  and enter a number.
3. If you enter a wrong number, touch .
4. Touch  to call the number.
5. To hang up, touch .


### Other ways to make calls

You can place calls from:



- The  Phone app
- The  Contacts app
- Other apps that show contact information. Wherever you see a phone number, you can usually touch it to dial.

In the  Phone app, you can place calls in several ways.

To	Do this
Dial a number	Touch  , enter a number and touch  . If you enter a wrong number, touch  .
Dial by voice	Touch  and say a name or number. (If you don't see  , swipe down to close the dialer.) Or, skip the Phone app entirely and say a <a href="#">voice command</a> .
Call by name	Start typing the name in the  search box. You'll see a list of matches. Just touch one to call. (If you don't see  , swipe down to close the dialer.) Or, to see your contact list, touch  . Swipe through and touch the person to call.
Call a <a href="#">favorite</a>	Touch the  tab.

Call nearby place Touch  and say or type the name, then touch the search result to place the call. [Learn more.](#)

---

Return call Touch , then touch  next to the number.

---

**Tips:**

- To call frequent numbers with one touch from your home screen, [add](#) a Direct dial widget.
- You can [save a recent call](#) as a contact.

## Change default calling app

You can [download](#) additional calling apps from Play Store. After you've installed one, you can make it your default calling app.

1. Go to [Settings](#) > **Apps & notifications**.
2. Touch **Default apps** > **Phone app**.  
Or, touch **Advanced** > **Default apps** > **Phone app**.
3. Touch the app to use.

## Fix a problem

To change your caller ID information seen by people receiving your calls, contact your carrier.




If you're having other problems, try these [troubleshooting steps](#).

---


## During a call

### Adjust sound during call

While listening, you can:

- **Adjust the volume.** Use the Volume button on the side of the phone.
- **Switch between earpiece, loudspeaker, or connected Bluetooth device.** Touch .
- **Use a paired Bluetooth device.** Touch  to use or stop using the device.
- **Mute your microphone.** Touch . You can hear the caller but they can't hear you.

### Enter a number

Touch  on the call screen to use the numeric keypad.

## Use other apps


When you hold your phone to your ear, the screen goes dark to avoid accidental touches. To wake it up, move it away from your ear or press the Power button.


To hide the call and use other apps, swipe up from the bottom of the screen.

To return to the call, swipe the **status bar** down and touch **Ongoing call**.

## Answer call waiting

If **call waiting** is active and a new call comes in, you can answer it. Touch **Hold and Answer Voice**. The first call is put on hold.



To switch between calls, touch .

To merge the calls, touch .






## Record calls

Not all carriers and countries support this feature.


To record an incoming or outgoing call:

- On the call screen, touch  to start and  to stop.
- You can't start recording when you're on mute, on hold, or on conference calls.
- When you start recording a call, for legal purposes, a voice announces the call is being recorded. You can't turn off the announcement.

To play or share the recording:

1. In the  Phone app, touch .
2. In the list of recent calls,  means the call was recorded. Touch the call.
3. Then:
  - Touch  to play the recording.
  - Touch  to share it.
  - To delete it, swipe the recording left.

## End the call

Touch  on the call screen.

Or, swipe down from the top of any other screen to view the call notification and touch **Hang up**.

---

## Make video calls

### Make video call with Duo app

Duo lets you video call anyone in your contact list who also uses Duo. Android users can get it from Play Store, and iPhone users can download it from the iTunes App Store. The video calls are secure and can't be seen by others.

To get started, [open](#) the Duo app and follow the onscreen instructions to set it up.

For more information, touch  > **Help & Feedback**.

### Get an app to make video calls


There are many video calling apps to choose from on Play Store (like WhatsApp, Skype, and more).



1. [Open](#) the **Play Store** app.
2. Search for "video calls".
3. [Download](#) the app you want to use.

---

## Make conference calls

To make a conference call:

1. [Call](#) the first person.
  2. To call the next person:
    - a. Touch .

This puts the first call on hold.
  - b. Enter the number.
  - c. Touch .
3. To join the calls after the second person answers, touch .

---

## Block calls and texts

### About blocking


If you don't want to get calls or texts from a certain phone number, you can block it. When the number tries to contact you, your phone declines automatically.

You can still call or text a number you've blocked. But, you'll see **Blocked** on the listing in the Phone app and will get a warning in the Messages app, because you won't receive a response or a return call unless you unblock the number.


## Block a number

Use either app to block both calls and texts from a number.



From the  Phone app:


1. Touch .
2. Touch & hold a call from the number to block.
3. Touch **Block/report spam**.
4. If you don't want to report the call as spam to Google, remove the checkmark.
5. Touch **Block**.

From the  Messages app:




1. Touch & hold the conversation thread from the number to block.
2. Touch .
3. If you don't want to report the call as spam to Google, remove the checkmark.
4. Touch **OK**.

## Block all numbers for a contact

1. **Open** the  **Contacts** app.
2. Touch the person's name.
3. Touch  > **Block numbers**.
4. If you don't want to report the call as spam to Google, remove the checkmark.
5. Touch **Block**.



On the contact screen, you'll see  by the blocked numbers.

## Block calls from unidentified callers

1. **Open** the  **Phone** app.
2. Touch  > **Settings** > **Blocked numbers**.
3. Turn **Unknown** on .

## Unblock a number

From the  Phone app:

1. Touch  > **Settings** > **Blocked numbers**.
2. Touch  by the number to unblock.





From the  Messages app:

1. Touch  > **Spam & blocked**.

2. Touch the blocked conversation.
3. Touch **UNBLOCK**.

## Identify and block spam callers automatically




For numbers that aren't in your contacts, Google can provide information about the number and warnings about potential spam callers.

1. Touch .
2. Touch  > **Settings** > **Caller ID & spam**.
3. Turn **Caller ID & spam** on .
4. To prevent ringing and notifications from suspected spam calls, turn **Filter spam calls** on .

You won't receive notifications for these calls, but you'll see them in your [call history](#) and can check any voicemail you receive.

When Caller ID & spam is on:

- If you see "Suspected spam caller" or "Spam" for an incoming call, you can answer the call or block and report the number.
- Your phone may need to send information about your calls to Google.
- It doesn't control whether your number shows when you make calls.

If you don't want Google to identify spam callers, touch  >  > **Settings** > **Caller ID & spam** and turn it off .




---


## Turn call waiting on and off

When you're on a call and a new call comes in, the new call is sent to [voicemail](#). If you want to be notified of new calls instead, turn on call waiting.

**Note:** Some carriers automatically control call waiting. If you do not see this option on your phone, contact your carrier for more information.

To turn call waiting on:

1. Open the  **Phone** app.
2. Touch  > **Settings**.
3. Do one of the following:
  - If your phone has one SIM card, touch **Calls**.
  - If your phone has dual SIMs, touch **Calling accounts** and select the SIM.
4. Touch **Additional settings**, then turn **Call waiting** on .

When call waiting is on, if you're on a call and a new call comes in, you can answer it. The first call is put on hold. Touch  to merge the two calls.



To turn call waiting off, go to **Additional settings**, then turn **Call waiting** off 




---


## View and delete call history

### See your call history



To see all recent calls:

1. Touch .
2. Touch .
3. You'll see one or more of these icons next to each call:

Icon	Meaning
	Missed call (incoming)
	Call you answered (incoming)
	Call you made (outgoing)

4. To learn more about a call, touch it, then touch .



To see only your missed calls:


1. Touch .
2. Touch  > **Call history**.
3. Touch **Missed**.

### Save recent call as contact

You can save a number to make it easy to find and call back later.

To save a number:




1. Touch .
2. Touch .
3. Touch the number.
4. Touch **Add Contact**.
5. If you have multiple accounts, select one.

6. Do one of the following:
  - To add to an existing contact, touch **Add to existing**.
  - To set up a new contact, add contact details.
7. Touch  or **Save**.




## Delete calls from history

**Caution:** There's no way to restore the history after you delete it.

To delete one call:

1. Touch .
2. Touch .
3. Touch & hold the number.
4. Touch .

To delete all calls:


1. Touch .
2. Touch  > **Call history**.
3. Touch  > **Clear call history**.

---

## Make emergency call from locked phone

In an emergency, you don't need to unlock your phone to dial an emergency number (for example, 911 in the US or 112 in Europe).

To dial an emergency number from a locked screen:

1. Swipe up on the lock screen.
2. Touch **Emergency** to see the dialer.
3. Enter the emergency number for your region and touch .

When you make an emergency call, [Emergency Location Service](#) automatically sends your location to emergency responders.






## Add contacts



### Add contacts automatically

When you [add an account](#) to your phone, the contacts for that account are available on your phone automatically.

### Add contact with Contacts app

1. [Open](#) the  **Contacts** app.
2. Touch .
3. If you're using more than one account, the account that will be [synced](#) with your new contact appears at the top. To change accounts, touch .
4. Touch a text box to type the name and details. Fill in as much or as little information as you'd like.





#### Tips:

- To add a photo, touch . Choose a photo you've saved, or take a photo and crop it.
- You can assign a [custom ringtone](#) for calls from that contact.
- If you have multiple [accounts](#) on your phone and want to change the default account for new contacts, go to **Contacts** >  > **Settings** > **Default account for new contacts**.

5. Touch **Save**.

### Add contact from text message

You can easily create a new contact or add a new number for an existing contact when you receive a text message from an unassigned number.

1. [Open](#) the  **Messages** app.
2. In the message list, touch & hold the number, then touch .
3. Touch .
4. Do one of the following:
  - To add to an existing contact, start typing the contact's name in the search field, then select it.
  - To set up a new contact, touch **Create a new contact** and add contact details.
5. Touch  or **Save**.

### Other ways to add contacts







- [Save a recent call](#) as a contact.
- Have someone send you a [name card](#).

- Scan business cards or QR codes.
- 

## Edit or delete contacts

### Edit contacts



After creating a contact, you can change the name, photo, and other contact information.

1. Open the  **Contacts** app.
2. Touch the person's name.
3. Adjust settings as needed:
  - To assign a [custom ringtone](#), touch  > **Set ringtone**.
  - To send calls directly to voicemail, touch  > **Route to voicemail**. You can also [block calls](#).
  - To edit contact info, touch , then touch a field to make changes, touch  to change the photo, or touch  > **Discard** to undo changes.

### Merge contacts

If you have two contacts for the same person, you can merge the information (including all emails and phone numbers) into a single listing.


To automatically merge contacts:


1. Open the  **Contacts** app.
2. Touch  > **Merge & fix**.

If you don't see **Merge & fix**, no duplicate contacts were found.
3. Touch **Merge duplicates**.

If you don't see this option, contacts can't be automatically merged.
4. Select options to merge one or all duplicates.

To manually merge contacts:

1. Open the  **Contacts** app.
2. Touch & hold the primary contact to merge.



By default, this contact's name is used for the new listing.
3. Touch the second contact.
4. Touch  > **Merge**.

**Tip:** You can edit the primary contact name (for the merged listing), or delete or change other contact information as needed.



## Delete contacts

You can delete contacts created and stored on your phone. If the contact is synced from a social network account, you need to delete the contact in that account. For example, a Facebook contact must be deleted from within your Facebook account. Or, hide Facebook contacts on your phone by [filtering](#) your contact list.

To delete one contact:


1. [Open](#) the  **Contacts** app.
2. Touch the person's name.
3. Touch  > **Delete** and confirm the deletion.

To delete multiple contacts:


1. [Open](#) the  **Contacts** app.
2. In your contact list, touch & hold the first contact.
3. Touch the other contacts to delete.
4. Touch .

---

## Star your favorite contacts

Contacts you mark as favorites appear at the top of the list in the Contacts app and on the  tab in the Phone app.



To add someone to your favorites:

1. Touch the contact icon (photo or other icon).
2. Touch .

---


## Sort contacts

### Sort contacts in Contacts app

1. [Open](#) the  **Contacts** app.
2. Touch  > **Settings**.
3. Set options:
  - To sort by first or last name, touch **Sort by**.
  - To list names with first name first or last name first, touch **Name format**.

### Sort contacts in Phone app



1. [Open](#) the  **Phone** app.





2. Touch  > **Settings** > **Display options**.
3. Set options:
  - To sort by first or last name, touch **Sort by**.
  - To list names with first name first or last name first, touch **Name format**.

## Narrow which contacts are shown

In the Contacts app, you can narrow which contacts are shown. These changes don't affect which contacts are shown in the Phone app.

In the  **Contacts** app:

- To show contacts from only one account or all accounts, touch your profile icon , then select the account(s).
- To narrow which contacts are shown from your account, touch  > **Customize view**.

In the  **Phone** app, use the  tab to see only contacts you call frequently or have [starred](#) as favorites. To remove contacts from this tab, touch  on the contact, then touch .

---



## Share contacts

### Ways to share contacts



You can share [one](#) or [all](#) contacts with someone by sending a name card file (.vcf).


You can also share a contact's information as a [text message attachment](#).

### Share one or a few contacts

1. [Open](#) the  **Contacts** app.
2. Touch & hold a name to select it, then touch others to select more.
3. Touch .
4. Select the [way to share](#).

### Export all contacts

1. [Open](#) the  **Contacts** app.
2. Touch  > **Settings** > **Export**.
3. If you use more than one account, select the account.
4. Touch **SAVE** to save it in your Downloads folder.
5. Open the **Files** app.
6. Go to **Downloads**.

7. Touch & hold the file.
8. Touch .
9. Select the [way to share](#).

## Receive a name card file



1. When someone sends you a name card file, you'll see a file transfer notification. Touch the [notification](#) and accept the file transfer.
2. Touch the name card file (.vcf) to open it and add the person to your contacts.


---

## Use voicemail

### Listen to voicemail




If you've [set up voicemail](#), you'll see  in the [status bar](#) when a new voicemail message arrives.

1. Do one of the following:
  - [Swipe the status bar down](#) and touch .
  - Or, touch , then touch & hold 1.
2. When connected, follow your carrier's system prompts.

If you listen to a new message and disconnect from voicemail without saving or deleting it, you will still see  in the status bar.

### Manage your mailbox


Your carrier provides your voicemail system.

1. Do one of the following:
  - Swipe the status bar down and touch .
  - Or, touch , then touch & hold .
2. When connected, follow the prompts to manage your messages and mailbox.



Contact your carrier for help with:

- Recovering or resetting your password/PIN for voicemail
- Replaying messages
- Saving, forwarding, or deleting messages
- Replying with or sending voice messages
- Changing number of rings before connecting call to voicemail
- Changing greeting or recorded name
- Changing notification options
- Changing mailbox language

### Fix a problem

If  remains in your status bar after you listen to your voicemails, try the following.

First, force stop the app:

1. Touch & hold .
2. Touch .

3. Touch **Force stop**.



This restarts the app and should remove the notification.

If that doesn't help:

1. Call yourself from another phone and leave a short message.
  2. Go into to your voicemail and delete this message, but wait to hang up until the notification icon has disappeared from your status bar.
- 

## Send all calls from contact to voicemail

To send all calls from a certain person to voicemail:









1. [Open](#) the  **Contacts** app.
2. Touch the contact's icon.
3. Touch  > **Route to voicemail**.

**Tip:** You can also [block](#) all calls and text messages from a number.

## Listen to radio

### Listen to FM stations




Your phone automatically tunes to radio stations with the best signal. Listening to the radio doesn't use your mobile data.

1. Plug headphones (any brand) into your phone. They serve as a radio antenna and allow you to scan for stations. Even when you listen through your phone's speaker, [Bluetooth](#) wireless speakers, or wireless headphones, you still need the wired headphones as your antenna.
2. [Open](#) the **FM Radio** app.
3. Do any of the following:
  - To view all stations and listen to any, use the  tab.
  - To listen to your favorite stations, use the  tab.
  - To seek stations throughout the radio dial, touch the  tab, then touch  or . Tune to specific frequencies by dragging the tuner to the appropriate number.
  - To change between headphones or speakers, touch  or .
  - If you're listening to the radio while using another app, use the mini player in [notifications](#) to seek stations or turn the radio off.
  - To turn the radio off, touch .


**Tip:** If you're having reception issues, try moving your phone as far from the headphones as possible to increase the size of the antenna. Or, try moving a short distance, towards a window if you are inside or away from buildings if you are outside.

### Manage your favorite stations


#### Add a station to your favorites

On the  or  tabs, touch  by the station.

#### Listen to your favorite stations

Use the  tab.

#### Remove a favorite

On any tab, touch  by the station.

#### Save and reload your favorites




If you change regions or manually rescan stations, your favorites will be cleared, too, so save them first. Then after you rescan, reload your favorites.

To save your favorites, touch  > **Save favorites**.

To reload your saved favorites, touch  > **Load favorites**.





## Record current station

1. On the  tab, touch  to start recording.
2. To stop recording, touch .
3. If desired, edit the recording's name.
4. Touch **DONE**.



To listen to a recording, touch  > **Recordings** > .

To delete or rename a recording, beside it, touch .


To delete all recordings, at the top of the screen, touch  > **Delete all**.

To change storage location for recordings, touch  > **Settings** > **Storage location**.

## Set sleep timer for radio

1. Touch  > **Sleep Timer**.
2. Select a duration of time to listen.
3. Touch .

After the specified time, the radio automatically turns off.

To turn off the timer before the duration has passed, touch .

---

## Listen to music

### Get music

Stream songs or download them to your phone so you can listen when you're on an [airplane](#) or don't have an internet connection.

Your phone can play MP3, FLAC, M4A, AAC, AAC+, MIDI, and WAV files.


To get music, do any of the following:

- Purchase it in a music app. Then stream it or download it using that app.
- Transfer it over [USB](#) or [Bluetooth](#) from your computer to your phone's Music folder.
- [Upload it](#) from your computer to the cloud and listen on any internet-connected device.

### Use Volume buttons to switch tracks

When the screen is off, you can use the [Volume buttons](#) to switch tracks.

To set it up:

1. Go to [Settings](#) > **Sound** > **Advanced**.  
Or, [open](#) the **Moto** app and touch  > **Gestures**.

2. Touch **Media controls** and turn it on .

To switch tracks when the screen is off:

- For the next track, press & hold the Volume up button.
- For the previous track, press & hold the Volume down button. If this restarts the current track, press Volume down again.

---

## Transfer music files


### About transferring music


You can transfer purchased music files stored on your devices between devices you own.

Music apps that share music files from cloud storage typically share links to access stored files instead of transferring music files between devices. To transfer music files, the music must be stored on the device.

### Send files over Bluetooth


To send music files stored on your phone:

1. [Pair your phone](#) with the device receiving the music.
2. On your phone, open the **Files** app and touch **Browse > Audio**.
3. Touch & hold the file.
4. Touch  and select **Bluetooth**.
5. Touch the name of the paired device.

During file transfer, you'll see  in the status bar. To check the status, [see](#) the notification.

### Receive files over Bluetooth

1. [Pair your phone](#) with the device sending the music.
2. On the device sending the music, start the file transfer, following device's instructions.
3. When you receive the Bluetooth notification on your phone, swipe down and touch it, then touch **Accept**.

During file transfer, you'll see  in the status bar. To check the status, [open](#) the notification.

The files are saved in Music/Bluetooth, where music apps will find them. You're ready to [listen](#)!

**Tip:** To see Bluetooth files you received, go to [Settings](#) > **Connected devices** > **Connection preferences** > **Files received via Bluetooth**.

### Transfer music from your computer

To move your music from your computer to your phone, [connect them with a USB cable](#) and copy the files to your phone's Music folder.

---

## Connect a MIDI device

To connect a MIDI device:

1. Make sure you have:
  - A USB cable that's capable of data transfer and isn't for charging only.
  - A USB OTG adapter cable, if needed.
2. Turn the phone and MIDI device on.
3. Connect them with the USB cable (and adapter if needed).
4. Unlock the phone.
5. Change the USB connection type to allow MIDI connection:
  - a. Swipe down from the top of your home screen and touch the **Charging this device via USB** notification.
  - b. Touch **MIDI**.

---

## Charge phone

### How to charge phone

Your phone is like a small computer, giving you tons of information and apps. Depending on what you use, that can take a lot of power. Plan on charging the phone each night so it's ready for the next day.

1. [Connect](#) your phone to the charger that came with your phone.

Other chargers, including laptops, can charge more slowly.

2. Insert the plug into an electrical outlet.

When the phone is off and charging, you'll see the outline of a battery and a percentage. If the battery is completely discharged, this will not appear until the phone has received the minimum voltage required to boot.

When the phone is on and charging, you'll see  in the [status bar](#).

### Tips for charging phone

- You can use your phone while charging. To charge faster, don't use your phone while charging.
- If you can't turn the phone on while it's charging, wait until it receives enough voltage before turning it on.
- When the battery gets low, the phone sends a [notification](#).
- Use [Battery Saver mode](#) when the battery is low.
- You can [turn off](#) charging sounds.

---

## Extend battery life

### Choose settings that use less battery

To get the most life from your battery:

- **Connections:** Turn off [Bluetooth](#) and [GPS](#) when you're not using them.
- **Wi-Fi:** Turn on [Wi-Fi](#) when the phone is in a location with Wi-Fi coverage.
- **Screen:** Turn down [screen brightness](#), change to [Dark theme](#), and set a shorter [screen timeout](#).
- **Sync:** If you don't need it, turn off [automatic syncing](#) for all accounts. This means you won't receive notifications when updates occur and you'll need to manually sync to get new emails.

### Temporarily conserve battery power

Use [Battery Saver](#) mode to keep going on a low battery.

Also, avoid these battery-intensive activities until you can [charge](#):

- Recording or watching videos

- Listening to music
- Taking pictures
- Using Live (animated) [wallpaper](#)

## See what's using your battery

To see if a specific app is draining your battery:



1. Go to **Settings** > **Battery** > **USAGE DETAILS**.
2. Swipe up to view the list of apps and features using power since the last full charge.
3. Touch the app or feature using a lot of power.
4. Under **Manage battery usage**, touch options for reducing the power usage.

## Use optimized charging

Optimized charging reduces stress on your battery and extends its overall life by limiting time spent charging it over 80%.

- If your phone has been plugged in for a few days, it limits charging.
- You can schedule times to start and end with a full charge, like overnight.

To set a charging schedule:


1. Go to **Settings** > **Battery**.  
Or, open quick settings, then touch & hold .
2. Touch **Optimized charging**.
3. Turn **Scheduled charging** on .
4. Enter times to **Start** and **End fully charged**.

## Keep adaptive battery and battery optimization on

To ensure that apps use your battery only when they need to, keep adaptive battery and battery optimization on.

### Check that adaptive battery is on for your phone

When you keep adaptive battery on, infrequently used apps will run less when you're not using them. Your phone will learn how you use apps over time and adjust for best battery life.

1. Go to **Settings** > **Battery** > **Adaptive Battery**.
2. Turn **Use Adaptive Battery** on .

### Check that battery optimization is on for each app


If you turn off Battery optimization for an app, that app can run when you're not using it, even when Adaptive Battery is on. This decreases battery life unnecessarily.

1. Go to **Settings** > **Apps & notifications** > **Advanced** > **Special app access**.
2. Touch **Battery optimization**.

3. Filter the list by **Not optimized**. Essential apps and services are listed as **Battery optimization not available**. If any apps are listed as **Not optimized**:
    - a. Touch the app.
    - b. Touch **Optimize** > **Done**.
- 

## Prevent overcharging

Leaving your phone plugged into a charger can lead to overcharging, which over time shortens your battery's life. Overcharge protection keeps your battery healthy by limiting its charge to 80% if it's been plugged in for three days.

When Overcharge protection is limiting your charge, you'll see  in the [status bar](#).

To fully charge your phone from 80%, just disconnect it from the charger and plug it in again.

To turn this feature on or off:

1. Go to [Settings](#) > **Battery** > **Overcharge protection**.
  2. Turn it on  or off .
- 


## Use Battery Saver mode

### When Battery Saver is on

Battery Saver helps you keep going on a low battery until the next charge.

To save power, your phone will:

- Switch your background to [Dark theme](#)
- Lower the [display refresh rate](#)
- Turn off [Live Caption](#)
- Wait until you look at an app to refresh its content, like email or news
- Stop using Location services when your screen is off
- Stop apps from doing things in the background (like listening for you to say "Hey Google")

When the phone is in Battery Saver mode, you'll see  in the status bar.


### Turn Battery Saver on or off

#### Turn it on/off yourself

Open [quick settings](#) and touch .

#### Have it turn on automatically

To turn on when your battery is below a specified level:



1. Open quick settings, then touch & hold .

2. Touch **Battery Saver** > **Set a schedule** > **Based on percentage**.
3. Move the slider to adjust the percentage when Battery Saver switches on.

**Tip:** Battery Saver turns off while your phone is charging. It turns back on when you unplug the phone.

### Let it turn off when your phone is charged



To turn off automatically when your battery reaches 90%:

1. Open quick settings, then touch & hold .
2. Touch **Battery Saver**.
3. Make sure **Turn off when charged** is on .

---

## Show battery percentage in status bar

To show the percentage of battery power remaining in the status bar:

1. Go to [Settings](#) > **Battery**.  
Or, open quick settings, then touch & hold .
2. Turn **Battery percentage** on .

---

## About storage options

### Phone internal storage

You can store photos, videos, music, and applications on your phone. Files you [downloaded](#) from the internet and attachments you save from [email](#) or [text messages](#) are stored there, too.

You can [free up space](#) when needed.

### SD card storage

You can store media files on an SD card. Just [insert](#) the card and [move](#) your files from phone storage to the SD card.

Benefits include:

- Immediate access to your files
- No cellular data or internet connection required to access files
- More control over privacy

### Cloud storage

Clouds are great for storing files, like [photos](#), [videos](#), and [music](#), you want to share and access from other devices.

Benefits include:

- Access your files from any device with an internet connection
- File synchronization - no need to keep track of multiple versions in multiple storage locations
- Backups of photos and videos available if phone is lost or damaged

Cloud storage providers typically offer free storage that can be expanded with a paid subscription once you reach the free-storage limit. Or you can manage your free storage by removing files you no longer need to make space for new ones.

Apps like Drive and Photos let you easily [back up media](#) to cloud storage.

---

## Manage phone storage

### Free up space by scanning

To scan your phone for old and unused items to remove, like downloads and unused apps:



1. [Open](#) the **Files** app.
2. Touch **Clean**.

You'll see suggestions for categories of items to check and free up space.

3. Touch the suggestions and follow onscreen instructions to uninstall, move, or delete items.




If you don't see suggestions to free up space, check that suggestions are on:

1. [Open](#) the **Files** app.
2. Touch  > **Settings**.
3. Touch **Notifications** and turn on  ones you want to receive.


## Free up space manually

To free up space:

1. [Open](#) the **Files** app.
2. Touch **Browse**.
3. Touch a category (apps, images, videos, etc.) to view that type of item.
4. Do any of the following:
  - To uninstall apps, touch the app name, then touch **Uninstall**.
  - To clear an app's cache, touch the app's name, then touch **Storage** > **Clear cache**.
  - To clear your data for an app, touch the app's name, then touch **Storage** > **Clear storage**.
  - To delete media or other files, touch & hold to select one or more items, then touch .

## Schedule automatic removal of photos and videos

If you [automatically back up](#) your photos and videos, you can automatically remove copies from your phone's internal storage after 30, 60, or 90 days.

1. Go to [Settings](#) > **Storage**.
2. If you installed an SD card, touch **Internal shared storage**.
3. Touch **Storage manager** and turn it on .
4. Touch **Remove photos & videos** and select a duration.

If you store photos or videos on your SD card, this does not delete them.

---

## Manage SD card

### Move photos, videos, music to SD card

To free up internal storage on your phone:

1. Be sure you've [inserted and set up your SD card](#).
2. [Open](#) the **Files** app and touch **Clean**.  
Or, go to [Settings](#) > **Storage** > **Internal shared storage** > **FREE UP SPACE**.
3. If there are media files to move, touch the option to free up space.
4. Select items to move.
5. Touch **Move to SD card** > **Move**.

**Tip:** You can set the camera to store all new photos and videos on the SD card.


## Move apps to SD card

You cannot store apps on the SD card because it is portable storage. If needed, you can [free up space](#) on your phone.

## Eject SD card

Drag the SD card notification down, and touch **Eject**.


If you don't see the notification:

1. Go to [Settings](#) > **Storage**.
2. Next to your SD card name, touch .

It's now safe to [remove the card](#) from the phone.

To insert the card into another device (computer, projector, etc.) that uses different card dimensions, you may need the adapter that came with your card. See device manufacturer's instructions for the type of adapter required and insertion instructions.

## Erase SD card

1. Go to [Settings](#) > **Storage**.
2. Select your SD card.
3. Touch  > **Storage settings** > **Format**.
4. Follow onscreen instructions to format the card.

---

## Find downloaded files



You can download files and store them on your phone, including:

- Photos, videos, and documents you save from emails or texts
- Books, movies, or other content that you buy from Play Store and save for offline viewing
- Other files or images you download from the web

When the file has finished downloading, you'll see  in the [status bar](#). Touch the [notification](#) to open the file in the appropriate app.

To view, edit, or delete downloads:

1. [Open](#) the **Files** app.
2. Touch **Browse** > **Downloads**.

3. Do any of the following:
  - To open or play a file, touch it.
  - To sort files by name, date modified, or size, touch the label to sort by it.
  - To share a file, touch & hold it, then touch .
  - To delete a file, touch & hold it, then touch .

**Tip:** To access downloads from a computer, connect your phone with a [USB cable](#). Then open the phone's internal storage, and look for files in the Downloads folder.

---

## Recover recently deleted files

You can try to recover recently deleted photos, videos, or texts. But do so as soon as possible. The more you use the phone, the more likely the file will be overwritten with new data.

1. Search for "file recovery" in Play Store and [install](#) one of the apps.
2. Use the app to scan your phone.
3. If you can't recover recently deleted items, try connecting your phone to your computer with a USB cable and using a desktop program for file recovery.

**Tip:** [Back up your photos to the cloud](#) so you won't lose them if you delete them from your phone.

---

## Upload music to cloud

You can store songs from your library in the cloud, for free, with Google YT Music (not available in all countries). Then you can instantly listen to your tunes wherever you are.

You can upload music from your:

- iTunes library
- Windows Media Player library
- My Music folder, or any folder on your computer

To upload your music:

1. On your computer, visit [music.youtube.com](https://music.youtube.com)
2. Click on your profile picture > **Upload music**.

To learn more, read [Google's help](#).



After you've uploaded your music, you can listen to it:

- On your computer by visiting [music.youtube.com](https://music.youtube.com)
- On your phone with the [YT Music](#) app

---



## Upload photos and videos

### Back up automatically



1. Open the  **Photos** app.
2. Touch your profile icon  > **Turn on backup**.
3. Select back up and sync settings and touch **Confirm**.

You can [change](#) these settings any time.


### Adjust back up settings

1. Open the  **Photos** app.
2. Touch your profile icon  > **Photos settings** > **Back up & sync**.
3. Adjust settings as needed:
  - To choose high quality or original size for uploads, touch **Upload size**.
  - To back up items in your Download, Screenshots, and third-party app folders, touch **Back up device folders**.
  - To back up items over your cellular network, touch **Cell data usage**, then adjust options for photos, videos, and roaming.

### Back up manually

1. Open the  **Photos** app.
2. Open the photo or video.
3. On the photo or video, touch .

## View your backed up photos and videos

From your phone, open the  Photos app.

From your computer, sign in to [photos.google.com](https://photos.google.com).

### More help










To learn more, read [Google's help](#).

---

## Scan documents and make copies

### Scan document to Drive

You can scan important documents with your phone and save them as PDFs on Google Drive.

1. Open the **Drive** app.
2. Touch  > .
3. Align your phone over the document to scan and touch .
4. Touch .
5. Optionally:
  - Touch  to crop.
  - Touch  to select image enhancement options.
  - Touch  to delete, rename, and adjust image and PDF settings.
  - Touch  to reset the scanner (deletes current unsaved scan).
  - Touch  to add another page.
6. When you've finished scanning, touch **Save**.
7. Change the document title and folder on Drive, if desired, then touch **Save**.

In Drive, open the file and touch  to share or [print](#) the scan.

**Tip:** You can also use the Camera app to scan information.

## Scan and save to folders from your home screen

Add Drive Scan widgets to your home screen to scan and save to new or selected folders. Each widget saves to a single folder on Drive. So, [add multiple widgets](#), one for each folder you need (receipts, billing statements, recipes, etc.).


## Connect to Wi-Fi networks

### Turn on and connect



#### Turn Wi-Fi on


Open [quick settings](#) and touch .



Your phone automatically connects to nearby Wi-Fi networks you've connected to before.

When you're connected, you'll see  in the [status bar](#). If the connection is poor, you'll see  instead.

#### Search for available networks




1. Open [quick settings](#), then touch & hold .
2. Turn **Use Wi-Fi** on .

You'll see a list of available networks. If a network needs a password, you'll see .

3. Do one of the following:
  - If the network is open (no ) , touch its name to connect.
  - To type a password from the network owner, touch the network to connect to, then enter the password. For your home network, get the password from the label on the Wi-Fi router. For a public network, get the password from the business or organization.
  - To connect using a QR code, next to **Add network**, touch  and scan the code.
  - If the network is hidden, you need to [set it up](#) before it will appear in the list of available networks.



## Change, share, remove networks

### Change

1. Open [quick settings](#), then touch & hold .
2. In the list of nearby networks:
  - To connect to a different network, touch its name.
  - To change settings for the currently connected network, touch  > .
  - To change settings for a saved network, touch & hold its name, then touch **Modify**.


### Share

You can share connection information with a friend so they can connect to the same network.

1. Open [quick settings](#), then touch & hold .
2. Touch the network you're connected to, then touch .
3. Show the person the code to scan or the Wi-Fi password to type.


### Remove

If you don't want to automatically connect to a saved Wi-Fi network, you can forget that network.


1. Open [quick settings](#), then touch & hold .
2. If the network appears in your list of nearby networks, touch & hold its name, then touch **Forget**.
3. To review all of your saved networks, touch **Saved networks**. For each network you want to remove, touch its name, then touch **Forget**.

## Turn Wi-Fi off

To extend the life of your battery between charges, turn off Wi-Fi when you're not in a location with access to Wi-Fi.


Open [quick settings](#) and touch  to turn it off.

## Advanced: Disable Wi-Fi scanning

1. Go to [Settings](#) > **Location**.
2. Touch **Wi-Fi and Bluetooth scanning**.
3. Turn **Wi-Fi scanning** off .

If you turn this off, apps that [use your location](#) won't work as well.

## Advanced: Connect to hidden networks

1. Go to [Settings](#) > **Network & internet** > **Wi-Fi** >  **Add network**.
2. Enter the SSID (network name), security type, check **Show password** and enter the password.
3. Touch **Advanced options**, and change **Hidden network** to **Yes**.
4. Touch **Save**.


The hidden network is now visible in the list of available networks, and if you weren't connected to Wi-Fi previously, you're now connected.

5. If you were connected to Wi-Fi when you added the hidden network, in the list of available networks, touch the name of the saved network, then touch **Connect**.

---

## Use Airplane mode

Airplane mode turns off all wireless connections, preventing your phone from transmitting signals that could interfere with airplane communications.

Open [quick settings](#) and touch  to turn airplane mode on. This disables all wireless connections (Wi-Fi, voice and data for calls and text messages, Bluetooth). If permitted by your airline, you can then turn [Wi-Fi](#) and/or [Bluetooth](#) back on during the flight. Other wireless connections remain off.

---

## Control data usage

### Turn mobile data off/on

To toggle it on/off, swipe the [status bar](#) down and touch .




When you turn off data usage over your cellular network, you can still use data by connecting to a [Wi-Fi network](#).

Cellular data must be ON if you want to:

- Receive or send [multi-media messages](#)
- [Share your phone's internet connection](#) with other devices

## Set data warning and limit

Sometimes it's easy to exceed your data plan limit without realizing it. To avoid surprises, set a usage warning that notifies you when you're close to your limit, and set a usage limit that turns off cellular data when the limit is reached.

1. Go to [Settings](#) > **Network & internet** > **Mobile network**.  
Or, in [quick settings](#), touch & hold .
2. If you're using two SIMs, touch the SIM name.
3. Touch **Data warning & limit**.
4. To set a warning, turn **Set data warning** on , then touch **Data warning** and enter the amount of data.
5. To set a usage limit, turn **Set data limit** on , then touch **Data limit** and enter the amount of data.

## Restrict background data

### About background data


Even when you're not actively using them, most apps use data in the background to sync information and deliver notifications.


To conserve data when you're running low, you can use Data Saver to turn off background data for all apps. Or, to restrict background data used by an app indefinitely, you can turn off background data specifically for that app.



### Notifications only when you open the app


When you turn off background data for an app, it won't sync until you open it, so you will receive NO notifications until you open the app and it syncs.

### Restrict for all apps when you're low

1. Go to [Settings](#) > **Network & internet** > **Data Saver**.  
Or go to [Settings](#) > **Network & internet** > **Advanced** > **Data Saver**.
2. Turn **Use Data Saver** on .



You'll see  in your status bar and all apps are prevented from using background data.

**Tip:** The first time you turn Data Saver on,  is added to [quick settings](#). After that, just swipe the status bar down and touch  to turn Data Saver off/on.

3. To allow certain apps to continue using background data, touch **Unrestricted data access**, then next to the app name, slide the switch on .



### Restrict for specific apps indefinitely

1. Go to [Settings](#) > **Network & internet** > **Mobile network**.  
Or, in [quick settings](#), touch & hold .
2. If you're using two SIMs, touch the SIM name.
3. Touch **App data usage**.
4. Touch an app, then turn **Background data** off .

**Tip:** You can also restrict background data for Wi-Fi networks.

## Share your internet connection

### About hotspots and tethering

Want to use the internet on a laptop computer or tablet but don't have a connection? You can share your phone's cellular data connection with multiple devices by turning your phone into a [Wi-Fi hotspot](#). You can also share your internet connection with a single device using [USB tethering](#) or [Bluetooth tethering](#).


**Note:** Your cellular plan must support data sharing. If you don't know, contact your carrier.


### Set up Wi-Fi hotspot

1. Check that [cellular data is on](#). If cellular data is off, your phone doesn't have an internet connection to share.
2. Go to [Settings](#) > **Network & internet** > **Hotspot & tethering**.
3. Touch **Wi-Fi hotspot** and do any:
  - To make it easier to identify your hotspot when connecting to it, change the network name for your hotspot.
  - To prevent others from seeing your phone's network name, check **Hide my device**.
  - To see the current password, touch **Advanced** > **Hotspot password**.
  - If the hotspot signal is experiencing interference, touch **Advanced** and change the broadcast channel/band to 5GHz. If the hotspot signal seems weak, change it to 2GHz. (This feature is not available in all countries.)
  - To limit the number of devices that can connect or to restrict access to only devices you specify, touch **Advanced** > **Manage devices**.
  - To save power you can configure when the hotspot should automatically turn off if nobody is using it. Touch **Advanced** > **Timeout setting**.


### Connect devices to hotspot

1. Check that [cellular data is on](#). If cellular data is off, your phone doesn't have an internet connection to share.
2. Go to [Settings](#) > **Network & internet** > **Hotspot & tethering**.



3. Touch **Wi-Fi hotspot** and turn it on , then plug in your phone to charge. Using the hotspot really drains the battery!

When your hotspot is active, you'll see  in the [status bar](#).

4. Set up the connection.

To connect	Do this
A phone	<ol style="list-style-type: none"> <li>a. On your phone, next to the hotspot's name, touch  and unlock if prompted.</li> <li>b. Use the other phone's camera to scan the QR code that provides the password.</li> </ol>
Other device	<ol style="list-style-type: none"> <li>a. Open the device's Wi-Fi settings.</li> <li>b. Select your phone's hotspot.</li> <li>c. Enter the hotspot password. <a href="#">Learn how to find the hotspot's password.</a></li> </ol>

#### Tip:

The first time you turn the hotspot on,  is added to [quick settings](#). After that, just swipe the status bar down and touch  to turn the hotspot off/on.

## Manage hotspot connections

To see the number of devices connected to your hotspot:

- In [quick settings](#), look below .
- Or, go to **Settings > Network & internet > Hotspot & tethering** and look under **Wi-Fi hotspot**.

By [assigning a password](#) for your hotspot, you ensure that people can't connect to your hotspot without your knowledge or permission.

To disconnect all devices and prevent them from reconnecting:

1. Turn the hotspot off.
2. [Change](#) the password.
3. Turn the hotspot back on to continue using it.

If you're experiencing performance issues, you can limit the number of connections allowed or temporarily disconnect devices.

1. Go to [Settings](#) > **Network & internet** > **Hotspot & tethering**.
2. Touch **Wi-Fi hotspot** > **Advanced** > **Manage devices**.
3. Do any of the following:
  - To limit number of devices allowed, touch **Device limit**.
  - To temporarily disconnect devices until your next hotspot session, under Connected devices, touch the device's name > **Disconnect**. The device will remain unable to connect until you turn off and restart the hotspot.

To allow only specified devices to connect:

1. Get the MAC addresses of the devices you want to allow to connect. (Connect devices to the hotspot normally, then go to **Manage devices**, and touch the name of each connected device to view its MAC address.)
2. Touch **Manage allowed devices** > **Add allowed device**.
3. For each device, enter the MAC address and device name.
4. Once you add allowed devices, they are saved unless you delete them, and you can turn this feature on and off by checking or unchecking **Allow all devices** any time.

To restrict access for a previously allowed device, touch the device name, then touch **Delete**.

## View or change hotspot password


1. Go to **Settings** > **Network & internet** > **Hotspot & tethering**.
2. Touch **Wi-Fi hotspot**.
3. Touch **Advanced** > **Hotspot password** to see the current password.
4. To change the password, type over the current password.

**Note:** Although you can turn off passwords for your hotspot, keeping a password prevents unauthorized usage of your cellular data.

## USB tethering

To connect a device to the internet using your phone's cellular data and a USB cable:

1. Check that **cellular data is on**. If cellular data is off, your phone doesn't have an internet connection to share.
2. **Connect** your phone to your computer with a USB cable.
3. On your phone, go to **Settings**.
4. Touch **Network & internet** > **Hotspot & tethering**.
5. Turn on **USB tethering** to start the connection.

You'll see  in your **notifications**.


To stop the connection, touch the notification and turn off **USB tethering**, then disconnect your phone and computer.

## Bluetooth tethering

To connect a device to the internet using your phone's cellular data and a Bluetooth connection:

1. Check that **cellular data is on**. If cellular data is off, your phone doesn't have an internet connection to share.
2. Turn on Bluetooth on your phone and **pair** with the other device.
3. Set up the other device to get its network connection via Bluetooth.
4. On your phone, go to **Settings**.
5. Touch **Network & internet** > **Hotspot & tethering**.

6. Turn on **Bluetooth tethering** to start the connection.

You'll see  in your [notifications](#).


To stop the connection, touch the notification and turn off **Bluetooth tethering**.

---

## Connect to VPNs

A virtual private network (VPN) lets you access files on a secure network like an office network with a firewall. Contact your network administrator for VPN settings and any additional apps or requirements.

To set up a VPN connection:

1. Go to [Settings](#) > **Network & internet**.
2. Touch **Advanced** > **VPN**. If prompted, set a screen lock PIN or password.
3. Touch .
4. Choose the type of VPN and enter settings from the network administrator.
5. To always remain connected to the VPN, check **Always-on VPN**.
6. Touch **SAVE**.

The network is stored in the VPN list so you can select it when you need to connect.

## Connect with Bluetooth™

### Turn Bluetooth on/off

Bluetooth uses more of your battery, so turn it off when not in use.


1. Open [quick settings](#).
2. Touch the icon to switch on/off:


 is on.

 is off.

### Pair with Bluetooth device

To connect with a new Bluetooth accessory or other device, you need to pair with it. You only need to do this once for each device.

1. Set the device you want to pair (accessory, computer, other phone, etc.) to Bluetooth discovery mode so that your phone can find it. See the device manufacturer's instructions.
2. On your phone, go to [Settings](#) > **Connected devices**.
3. Touch .

As the phone searches for available devices, you'll see .

4. Touch an available device to connect.
5. Do any of the following:
  - If a pairing code appears on your phone and Bluetooth device, make sure the codes match. (If they don't, touch **Cancel**, verify the name of the device you want to pair with, and try again.)
  - If your device shows a passkey (like 0000 or 1234), enter it on your phone. If you don't see a place to enter it, swipe down from the top of your screen and touch the Bluetooth notification.
  - If your device doesn't show a passkey and you must enter one for the device to pair, see the device manufacturers' instructions.
6. Touch **Pair** on your phone AND touch the pairing prompt on the other device. If you don't confirm on both devices, pairing will fail.
7. [Set sharing options](#) if you'll want to share contacts, phone audio, media audio, or internet access.

**Tip:** If you use a screen lock, you can define a paired Bluetooth device as a [trusted device](#), keeping your phone unlocked while connected to it. When you disconnect or move out of range, your phone locks again. Go to [Settings](#) > **Security** > **Smart Lock** > **Trusted devices**.

Can't pair? Try these [troubleshooting steps](#).


### Use paired device

**Tip:** Bluetooth connections can really drain your battery. Save power by [turning Bluetooth off](#) when you're not connected to a device.


After pairing with a device, you'll need to set sharing options and then you can use Bluetooth to:

- Make or receive [calls](#) with a headset
- Make or receive [calls](#) and play music over your car's audio system
- Transfer [music](#)
- Share [photos](#)
- Share [contacts](#)
- Share [your phone's internet connection](#) with your computer

To set sharing options:

1. Go to [Settings](#) > **Connected devices**.
2. Do one of the following:
  - For a currently connected device, touch the device name.
  - For a previously paired device, next to the device name touch .
3. Turn sharing options on or off.
4. On the paired device or in the device's app, look for Bluetooth settings to review and adjust. For more information, see the paired device manufacturer's instructions.


## Reconnect with Bluetooth device

1. Open [quick settings](#) and touch  to turn it on.
2. Turn on the Bluetooth device.

## Turn off Bluetooth scanning

When [Bluetooth is off](#), your phone can still scan and automatically connect to a [previously paired device](#). To prevent this, turn off Bluetooth scanning.


To turn off scanning:

1. Go to [Settings](#) > **Location**.
2. Touch **Wi-Fi and Bluetooth scanning**.
3. Turn **Bluetooth scanning** off .

If you turn this off, apps that [use your location](#) won't work as well.

## Change phone's name

Your phone name identifies your phone in a Bluetooth network. You can change the name.

1. Go to [Settings](#) > **Connected devices**.
2. Touch  > **Device name**.

## About aptX

Your phone features Qualcomm aptX Adaptive audio for robust, high resolution Bluetooth wireless audio.



Qualcomm® aptX™ Adaptive

Qualcomm aptX is a product of Qualcomm Technologies, Inc. and/or its subsidiaries.

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## Connect with Wi-Fi Direct

If you have a device, like a [printer](#) or [TV](#), that supports Wi-Fi Direct, you can connect your phone without a wireless router or cable.

When you turn on your phone's [Wi-Fi](#), Wi-Fi Direct is automatically enabled.

To connect to a Wi-Fi Direct device:

1. On the device you want to connect, set up Wi-Fi Direct. For instructions, see that product's user guide.
2. On your phone, go to [Settings](#) > **Network & internet** > **Wi-Fi** > **Wi-Fi preferences**.
3. Touch **Advanced** > **Wi-Fi Direct**.

You'll see a list of Wi-Fi Direct devices that are within range and compatible.

4. Touch the device's name to connect.
- 

## Make contactless payments

*Only some versions of this phone, sold in certain countries, support this feature.*

Use NFC (near-field communication) to pay quickly and [securely](#) at checkout registers by touching your phone to an electronic reader.

## Set up contactless payment

1. Make sure you have:
  - Set up a payment app on your phone. [Install one](#) from Play Store if needed.
  - Turned on [NFC](#).
2. Go to [Settings](#) > **Connected devices** > **Connection preferences**.
3. Touch **NFC** and make sure it's on.
4. Touch **Contactless payments** > **Payment default** and select the app.

5. Touch **Use default**, then chose when to use it (always or except when another payment app is open).

**Note:** This feature manages payment apps. It doesn't include money transfer apps.

## Make a payment

1. Make sure [NFC is on](#) and that the terminal has this symbol:



2. Unlock your phone and touch its [back](#) to the terminal.

Your payment app might require you to open the app and enter a PIN before touching your phone to the terminal.

## Turn off contactless payment

[Turn off NFC](#). If you do this, you also turn off [other features](#) that use NFC.

**Tip:** You can also open your payment app and turn off contactless payments. Not all payment apps support this option.

---

## Share or receive with NFC

*Only some versions of this phone, sold in certain countries, support this feature.*

NFC (near-field communication) makes it easy to [securely](#) share with sources you trust, without having to type a lot of information or struggle with pairing.

### Turn NFC on

1. Go to [Settings](#) > [Connected devices](#) > [Connection preferences](#).
2. Touch **NFC** and turn it on .

If you don't see this option, then your phone doesn't support NFC.

### Share content between devices

Share content from your phone to another device by touching the devices together (usually back to back).

You can share content using the Files app. To learn how, read [Google's help](#).

### Read NFC tags on posters and signs

Receive web links, e-coupons, brochures, maps, and more from an NFC tag. Look for the NFC logo on NFC-enabled accessories, posters, signs and store displays. Just touch the [back](#) of your phone to within 2 cm of the logo to receive its tag information.






## Enable NFC icon in status bar

To know whether NFC is on by glancing at your status bar:

1. Go to [Settings](#) > **Connected devices**.
2. Turn **NFC icon** on .

When NFC is on, you'll see  in your [status bar](#).

## Turn NFC off

Go to [Settings](#) > **Connected devices** > **Connection preferences** and turn NFC off .

---


# Cast screen or media to TV

## Mirror with Chromecast



To mirror your screen on a TV, showing all apps and screens you use on your phone, you must:

- Use a TV with [Chromecast built-in](#).
- Or, plug a Chromecast into your TV's HDMI port. ([Learn how.](#))

To start casting:

1. Make sure your phone and Chromecast or TV with Chromecast are connected to the same [Wi-Fi](#) network.
2. Go to [Settings](#) > **Connected devices** > **Connection preferences** > **Cast**.  
Or, from [quick settings](#), touch .
3. Touch the name of the Chromecast or TV to connect.

To stop:

- On the casting notification, touch  > **Disconnect**.
- Or, from quick settings, touch  > **Disconnect**.


## Cast an app


You can cast an app if you:

- Have a smart TV that supports mobile apps for viewing or playing media from your phone. See your TV user guide for instructions to connect your phone.
- Have Chromecast or a TV with [Chromecast built-in](#).


Miracast is not supported.

To cast an app:



1. Make sure your phone and smart TV or Chromecast are connected to the same [Wi-Fi](#) network.
2. In a cast-compatible app (like YouTube), touch .

If you don't see  or don't see your TV listed in the casting options, try these [troubleshooting steps](#).

While casting:

- You'll see  in the [status bar](#).
- You can still make and receive calls and use your phone's other features.

To stop casting:

- In the app that's casting, touch  and touch the option to disconnect.
- From the notification, touch .

## Cast personal media with Wi-Fi Direct

If your TV supports Wi-Fi Direct, [set up a connection](#) between your phone and TV so that you can view or play media from your phone.

For information about using Wi-Fi Direct after you've connected, see the user guide that came with your TV.

## Fix a problem


After each step, see if your issue is fixed.

### Check the basics

1. If you're using a [VPN](#), turn off the VPN and try again.
2. Make sure your phone and Chromecast or smart TV are connected to the same [Wi-Fi](#) network.
3. Move your phone to within 15 feet of your Chromecast or smart TV.
4. If you're using Chromecast or a TV with Chromecast built-in, [check for updates](#) to the Home app.

### Phone can't find smart TV

First, check the basics. Then:

1. On the TV, open the app and start a video. Then on your phone, open the app and try casting to the TV again.
2. Link the app on your phone to the app on the TV:
  - a. On your phone, open the app, open its settings, and look for options to watch on TV. (For example, **YouTube** >  > **Settings** > **Watch on TV** > **Link with TV code**.)
  - b. Follow the app's onscreen instructions to complete setup.
3. Reboot your Wi-Fi router.
4. Check your TV for firmware and app updates. See the TV manufacturer's support website for information.
5. Check your TV manufacturer's support website to make sure the app is still supported on your TV model.

### Check for app help

If you're having issues casting with one of these apps, check their help center for troubleshooting information:


- [Netflix](#)
  - [Amazon Prime Video](#)
  - [YouTube](#)
  - [Google TV](#)
- 

## Share files and links with nearby Android phones

Share content easily and securely. You can share things like photos or videos, contacts, documents, and links. Send them to another Android phone near you without using an internet connection.

### Turn sharing on/off

To turn it on:

1. On your phone, make sure [Bluetooth](#) and [Location](#) are turned on.
2. [Open quick settings](#) and touch .



Or, go to [Settings](#) > [Connected devices](#) > [Connection preferences](#) > [Nearby Share](#).

3. Touch **Turn on** or turn it on .

To turn it off, open quick settings, touch , then touch and turn Nearby Share off .

**Tip:** You can change your phone's name to something less identifiable before sharing or receiving. Go to [Settings](#) > [Connected devices](#) > [Connection preferences](#) > [Nearby Share](#) > [Device name](#) and edit the name.

### Share content with someone

1. Open the content to share.
2. Touch  or touch  > **Share**, then select **Nearby Share**.  
Your phone will look for nearby devices.
3. Hold your phone and the other phone close to each other.
4. When you see the other phone in your list of nearby devices, touch its name to send the item.  
The other person can accept or reject the transfer.

### Get content from someone

1. When someone [shares content](#) with you, you'll get a notification:
  - If needed, touch the notification to make your phone visible.
  - If you're prompted to turn on Nearby Share, Bluetooth, or Location, touch **Turn on**.
2. To get the content, touch **Accept**.

## Choose who can see you for sharing

No one can share with you when your screen is locked.

To adjust who can share with you when your screen is unlocked:

1. [Open quick settings](#) and touch .

Or, go to [Settings](#) > [Connected devices](#) > [Connection preferences](#) > [Nearby Share](#).

2. Touch and choose who can see your phone for sharing:

- **All contacts:** Your phone is visible to your contacts who are nearby while your screen is on and unlocked.
- **Some Contacts:** Your phone is visible to nearby contacts you choose while your screen is on and unlocked.
- **Hidden:** Your phone is only visible when Nearby Share is open.

If a contact isn't available when you've selected **All contacts** or **Some Contacts**, you'll need to add an email address associated with their Google account to your contacts.

## Fix a problem

If you're having problems sharing content with someone, try these steps:

1. On both phones, check that [Bluetooth is on](#).
2. On both phones, check that [Location is on](#).
3. Bring the devices close together, within 1 foot (30 cm) of each other.
4. Turn [airplane mode](#) on and then off.
5. Turn your phone off and then on again.
6. Wait until no one else is sharing content with the other phone.

---

## Transfer files between phone and computer (USB)

### About USB transfers

You can transfer [music](#), photos, and other files between your phone's storage and computer (in either direction). Use a USB cable that's capable of data transfer and isn't for charging only.

When you connect the phone and computer with the USB cable, the phone's USB connection type is set to charging mode, which charges your battery but prevents your computer from seeing files on your phone. Before transferring files, change the USB connection type to allow transfer of:

- Any type of file
- Only photos and videos

### Connect phone to transfer files

1. With the phone and computer turned on, connect the phone and computer with a USB cable.
2. Unlock the phone.

3. Change the USB connection type to allow file transfers:
  - a. Swipe down from the top of your home screen and touch the **Charging this device via USB** notification.
  - b. To transfer any type of file, touch **File transfer**.  
Or, to transfer only photos and videos, touch **PTP**.

## Transfer files

On a Windows computer:

1. Ensure the phone is properly connected to the computer using the steps above.  
If you don't unlock the phone and change the USB connection to allow file transfers, you won't see any files on your phone.
2. On your computer, open File Explorer, click the name of your phone, and navigate to its internal storage or SD card.
3. If you selected **PTP** when you connected the phone, in File Explorer choose whether to import pictures and videos automatically or manually.
4. Open a second File Explorer window to see your computer folders.
5. Navigate to the folders or files to transfer, then drag and drop them to and from the open phone storage and computer folders.

On a Mac:

1. Ensure the phone is properly connected to the computer using the steps above.  
If you don't unlock the phone and change the USB connection to allow file transfers, you won't see any files on your phone.
2. On your computer, download the Android File Transfer application from [www.android.com/filetransfer](http://www.android.com/filetransfer) and follow the onscreen instructions.

## Location of files

Files are stored in these folders on your phone:

- **DCIM:** (Digital Camera Images) Photos and videos taken with the Camera app
- **Pictures:** Photos you edited and photos from apps other than Camera
- **Download:** Files [downloaded](#) from the internet
- **Music:** Files for apps that play music
- **Ringtones:** Sound files for ringtones
- **Notifications:** Sound files for [notifications](#)
- **Alarms:** Sound files for [alarms](#)

## Fix a problem

If you're having problems, try these [troubleshooting steps](#).

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## Print from your phone



### Set up: Wi-Fi or Wi-Fi Direct

To connect your printer and phone:





1. Before you begin:
  - If your printer is connected to a Wi-Fi network, be sure the phone and your printer are connected to the same network.
  - If your printer supports Wi-Fi Direct, [set up a direct connection](#) between the phone and printer.
2. Go to **Settings** > **Connected devices** > **Connection preferences** > **Printing**.
3. Touch **Default Print Service** to automatically find your printer.

Once your printer is found, it is ready to print.

If your printer isn't found in Default Print Service:

1. Touch **Add service**.
2. In Play Store, search for “[printer brand] print service” and install the app for the printer's service plugin.
3. Once installed, return to **Settings** > **Connected devices** > **Connection preferences** > **Printing** and touch the print service plugin name to automatically find your printer.
4. If your printer isn't found automatically, touch  > **Add printer** > .
5. Enter the printer's name and IP address (found in your printer settings on connected computer).

### Print

1. Open the item to print, such as:
  - A photo in Photos
  - An email
  - A document in Drive
  - A web page in Chrome.
2. Touch  or  > **Print**. (If you're using Chrome,  > **Share** > **Print**.)
3. Select printer options if needed.
4. Touch .

---

## About wireless sharing

### What you can share

You can share your [photos and videos](#), [contacts](#), [screenshots](#), and [downloaded files](#).

## When sharing photos and videos

When deciding how to [share](#) your photos or videos, consider these factors:

- Resolution (high versus low) of the photo or video; high resolution uses more data
- Number of photos to share (one photo or a few or an entire vacation album)
- Whether you want to share on the internet or from device-to-device
- Length of availability for sharing

## Ways to share

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Method	Description
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Nearby Share	
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Good for:

- Sharing securely with nearby people who have Android phones
- Sharing a link, a contact, one or a few photos
- Fast, immediate sharing

Things to consider:

- The other phone must be within 1 foot (30 cm).
- No Wi-Fi or cellular data connection required.

[Learn more.](#)

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Message (MMS)	
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Good for:

- Sharing one photo or a low-resolution video
- Sharing with a friend or group
- Sharing immediately, as an event is happening

Things to consider:

- You and your recipients must have cellular data plans to receive multimedia text messages.
- Sending high resolution photos via text message uses more more data.
- Photos and video remain available until the recipient deletes the message.
- High quality videos are too large and cannot be shared in text messages.

[Learn how](#)

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Email	
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Good for:

- Sharing one or a few photos
- Sharing with a friend or group

Things to consider:

- Some email providers limit attachment sizes. For large files, upload the file to a cloud storage and email the link instead of the file.
- Email attachments remain available for download until the recipient deletes the email.

[Learn how](#)

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## Cloud

Good for:

- Sharing high resolution photos, multiple photos, entire albums, and videos
- Controlling sharing via links
- Controlling how long you share something (You can easily delete it or turn off sharing privileges.)

Things to consider:

- Many cloud services offer free storage with a basic account.
- Cloud storage services are fairly secure, but not completely free from security breaches, so upload wisely.
- Upload over [Wi-Fi](#) to prevent cellular data charges.

[Learn how](#)

---

## Social app

Good for:

- Sharing publicly, with large groups of friends, followers, and subscribers
- Sharing one photo at a time, or many photos, albums, or videos
- Controlling how long you share something (You can easily delete it or turn off sharing.)

Things to consider:

- Understand social network privacy and sharing policies before you post.
  - Review updates to social network privacy and sharing policies often.
  - Requires a Wi-Fi or cellular data connection.
- 

## Bluetooth

Good for:

- Sharing from phone-to-phone or other connected device
- Fast sharing

Things to consider:



- Your phone must be [paired and connected](#) with another device.
-

## Change app settings

### Set or change default apps

If you have multiple apps that do the same thing, you can pick which app to use by default.

#### Pick when asked

Sometimes, your phone asks which app to use. For example, your phone might ask which app to use to open a PDF file.

To set a default when asked:

1. Touch the app to use.
2. Pick how often you want to use that app for this action: **Always** or **Just once**.

If you select Always, you won't be asked which app to use anymore. To have your phone ask you again, you can clear the default:

1. Go to [Settings](#) > **Apps & notifications**.
2. Touch **Default apps** > **Opening links**.  
Or, touch **Advanced** > **Default apps** > **Opening links**.
3. Touch the app you selected as default.
4. Touch **Open supported links** and select **Ask every time**.

#### Pick any time

You can change some default apps (such as [browser](#) or [messaging](#)) at any time:

1. Go to [Settings](#) > **Apps & notifications**.
2. Touch **Default apps**.  
Or, touch **Advanced** > **Default apps**.
3. Touch the default to change.
4. Touch the app to use.

### Adjust app permissions

The first time you use an [app](#), and sometimes when you [install](#) or [update](#) it, you are asked to grant the app permission to access certain data and phone features. You can adjust these permissions any time.

To adjust permissions by feature:

1. Go to [Settings](#) > **Privacy**.  
Or, [Settings](#) > **Apps & notifications** > **Advanced**.
2. Touch **Permission manager**.
3. Touch a feature to see which apps have permission to use it.
4. Turn that permission on or off for each app as needed.

You can also [adjust permissions](#) by app, for all features.

## Adjust special app access

In **Settings > Apps & notifications > Advanced > Special app access**, you can adjust these settings:

- **Usage access:** Control which apps have access to data about your app usage (what other apps you're using and how often, your carrier, language settings, and other details).
- **Unrestricted data access:** Allow certain apps to use background data even when Data Saver is on. [Learn more.](#)





You can also control whether apps have access to features such as [Picture-in-picture](#), [Battery optimization](#), and [Do Not Disturb](#). In general, you shouldn't need to adjust these.

## Choose how apps notify you

### Stop app from sending notifications

When you receive unwanted notifications from an app, touch & hold the notification, then touch **Turn off notifications**.

To review all apps and adjust whether they can send notifications:

1. Swipe down to view your notifications.
2. At the bottom of the list, touch **Manage**.
3. Do one of the following:
  - To stop all notifications from an app, turn it off .
  - To stop certain notifications from an app, touch the app name, then turn notifications  or off  for each category.
  - To stop an app from showing notifications as a banner across the top of an unlocked screen, like those for incoming calls, touch the app name, (if needed, touch the notification type), then turn **Pop on screen** off  for the category.

**Tip:** To prevent notifications from all apps during certain times or calendar events, use [Do Not Disturb](#).

### Silence an app's notifications

If you want an app's notifications to be less intrusive, you can categorize them:

- **Default:** You'll hear a sound and feel vibration (if on), get a message on your lock screen, and can see the app's icon in your status bar.
- **Silent:** You won't hear a sound or feel a vibration. The notification icon will still show in the [status bar](#), unless you hide them.


#### Option 1: On a notification

1. Touch & hold a notification.
2. Touch **Silent**.

#### Option 2: In Settings

1. Go to **Settings** > **Apps & notifications** > **See all ### apps**, select the app, and touch **Notifications**.
2. Touch the type of notification to change.
3. Touch **Silent**.

To hide status bar icons for all silent notifications:


1. Go to **Settings** > **Apps & notifications** > **Notifications**.
2. Touch **Advanced**.
3. Turn **Hide silent notifications in status bar** on .
4. Restart the phone to apply the new settings.

You won't see the icon in the status bar for any silent notifications. When you swipe the status bar down, the icon appears in the pull-down along with the notification.

**Tip:** In phone Settings, you can only hide status bar icons for all apps. If you want to hide status bar icons for a single app, open the app and look in its settings. Only some apps let you do this.

## Change notification volume

To adjust the volume level of all notifications:


1. Press a Volume button and on the screen touch .
2. Adjust the **Ring volume** slider.

## Change notification sound

To change the sound for all app notifications:

1. Go to **Settings** > **Sound** > **Advanced** > **Default notification sound**.
2. Do one of the following:
  - To change it, choose a new sound.
  - To turn notification sounds off, select **None**.


To change the notification sound for a specific app:

1. Touch & hold the app icon.
2. Touch  > **Notifications**.
3. Touch the category for enabled notifications, then touch **Advanced** > **Sound** and select a unique ringtone, or set it to none.

If an app's notifications are silent but you want to hear them:

1. Touch & hold a notification.
2. Touch **Default**.

To let an app's notifications be heard when **Do Not Disturb** is on:

1. Touch & hold the app icon.
2. Touch  > **Notifications**.

3. Touch the category for enabled notifications, then touch **Advanced** and turn **Override Do Not Disturb** on .

## Turn notifications on for an app

If an app isn't sending notifications but you want it to:

1. Go to **Settings** > **Apps & notifications** > **Notifications**.
2. Touch **See all from last ### days**.
3. At the top, touch ▼ and select **Turned off**.
4. Turn notifications on  as needed.

## Turn on snoozing

If you want to be able to snooze notifications by dragging them left or right, turn on snoozing:

1. Go to **Settings** > **Apps & notifications** > **Notifications**.
2. Touch **Advanced**.
3. Turn **Allow notification snoozing** on .

## Control notification dots and bubbles

Some conversations can appear as bubbles floating on top of other apps and your home screen for easy control.

To turn bubbles on or off for all apps:

1. Go to **Settings** > **Apps & notifications** > **Notifications**.
2. Touch **Bubbles** and turn them on  or off .

You can control whether app icons show dots to alert you about unread notifications.



To turn dots off for all apps:

1. Go to **Settings** > **Apps & notifications** > **Notifications**.
2. Touch **Advanced**.
3. Turn **Allow notification dots** on  or off .


To turn dots off for one app:

1. Touch & hold the app icon.
2. Touch ⓘ > **Notifications**.
3. Touch **Advanced**.
4. Turn **Allow notification dot** on  or off .

## Control lock screen notifications

If you've [set a pattern, PIN or password](#), you can control which type of notifications show on your [lock screen](#) and prevent them from revealing private information.

To adjust notifications for all apps:


1. Go to [Settings](#) > **Apps & notifications** > **Notifications**.
2. To hide sensitive content on your lock screen, turn **Sensitive notifications** off .

You'll get lock screen notifications for an incoming email or chat, but they won't include message details.

For finer control, leave this on  to allow details, and instead hide sensitive content from specific apps.

3. To change which notifications show on your lock screen (show all, hide notifications from apps you [silenced](#), or hide all), touch **Notifications on lockscreen**.


To hide sensitive content from specific apps:

1. Set lock screen notifications for all apps to **Show conversations, default, and silent**.
2. Touch & hold the app icon, then touch  > **Notifications**.
3. Types of notifications the app sends appear here. For each enabled notification that you want to hide:
  - a. Touch the name.
  - b. Touch **Advanced** > **Lock screen** > **Show sensitive content only when unlocked**.

**Tip:** When you [turn on Lockdown](#), notifications won't show on your lock screen.

---

## Adjust screen brightness

To set your screen's brightness, open [quick settings](#) and slide .

Your phone automatically adjusts your screen to the light around you, with Adaptive brightness. When the feature is on, you can still fine tune the brightness in quick settings. To turn this feature off:

1. Go to [Settings](#) > **Display**.
  2. Turn **Adaptive brightness** off.
- 

## Adjust screen colors at night



Your phone can automatically filter out blue light and adjust screen colors to warmer tones at night, making it easier to view and read in dim light. You might even fall asleep more easily.

If you selected a [color mode](#), it will resume outside of night hours.

### Set the schedule

1. Go to [Settings](#) > **Display** > **Night Light**.
2. Touch **Schedule**, then:
  - To start and stop at specified times, touch **Turns on at custom time** and enter times.
  - To filter from dusk to dawn, touch **Turns on from sunset to sunrise**.


### Turn on/off any time

To turn Night Light on or off at any time, open [quick settings](#) and touch  or .

If it's not in quick settings, add it by turning Night Light on for the first time. Go to [Settings](#) > **Display** > **Night Light** > **Turn on now**.

### Adjust filter intensity

When Night Light is on, you can adjust the filter intensity:

1. In [quick settings](#), touch & hold .
  2. Use the slider to adjust the intensity of the amber filter.
- 


## Change display style

Create custom themes for your display with unique fonts, icon shapes, and color schemes.

**Note:** Styles might not work well with third-party [launchers](#).

### Create a theme

1. Go to [Settings](#) > **Display** > **Styles**.

2. Touch , then follow onscreen instructions to select:
  - Fonts for screen elements
  - Background color
  - Icon shape
  - App tray layout
3. Type a name for your theme.
4. Touch **Done**.

### Change themes

1. Go to **Settings** > **Display** > **Styles**.
2. Touch a theme and touch **Apply**.

You can also [change the size of the text or other items](#) on your screen.

---



## Use Dark theme



Give your eyes and battery a break by changing to a dark background.

When Dark theme is on, the dark background applies to your settings and app screens. Colors don't change in media, such as videos.

When it's off, if you run low on battery, [Battery Saver](#) switches temporarily to the dark background until the phone has charged.

### Turn it on or off

1. Go to **Settings** > **Display**.
2. Turn **Dark theme** on  or off .

**Tip:** To add  Dark theme to quick settings, [open](#) quick settings, touch , then drag the tile where you want it.

### Set a schedule

1. Go to **Settings** > **Display**.
  2. Touch **Schedule**, then select one:
    - To start and stop at specified times, touch **Turns on at custom time** and enter times.
    - To use from dusk to dawn, touch **Turns on from sunset to sunrise**.
- 

## Show apps full screen




By default, apps avoid the banded area across the [front camera](#), but you can set your apps to use full screen and stretch across the entire display.

You can turn it on or off for individual apps or all apps.

1. Go to **Settings** > **Display** > **Advanced** > **Full screen**.



## 2. Adjust the settings:

- To adjust an individual app, next to the app's name, turn it on  or off .
- To adjust all apps, touch  > **Turn on for all apps** or **Turn off for all apps**.

## 3. If you don't see the change or it doesn't display correctly, do either to close and restart the app:

- Open [recent apps](#) and swipe it from the list, then reopen the app.
- Restart the phone, then reopen the app.

If you're using an app and want to toggle full screen on or off, you can do it from the recent apps list:

## 1. [Drag up](#) from the bottom of the home screen, hold, then release.

Or, touch  if you're using [3-button navigation](#).

## 2. Touch **Full screen** to switch it on or off:

- extends the app screen around the camera.
- prevents the app from extending around the camera.

---

# See Peek Display notifications

## About Peek Display notifications

When your screen is off, battery-friendly notifications fade in and out, lighting only the pixels needed and showing notifications delivered since you last woke your screen. You can select which apps show notifications and limit content to control your privacy.



These notifications aren't displayed:

- When the phone is in your pocket or purse
- When the phone is lying face down
- When you are on a call
- When [Do Not Disturb](#) is on

## Respond to Peek Display notifications


### Check for notifications



If you haven't seen activity for a while, to wake your phone, bump it.

### Peek at contents






Touch & hold an icon to preview the notification.

### View more and take action



For more details and notifications, drag an app icon up, or drag it to . Then:


- To respond, drag the app icon to an action, like reply  or archive .
- To dismiss, drag the app icon to **Dismiss**.

## Change Peek Display settings

1. Go to **Settings** > **Display** > **Advanced** > **Peek Display**.  
Or, **open** the **Moto** app and touch  > **Display** > **Peek Display**.
2. Touch **Settings** and do any of the following:
  - To allow replies without unlocking the phone, turn **Safe reply** off . To require unlocking to reply, keep it on .
  - To stop specific apps from showing these notifications, touch **Block apps** >  and touch the app's name.
  - For more privacy when the screen is locked, touch **Level of details to show**.
  - To see a black background for these notifications instead of an animated one that fades in and out, turn **Animated background** off .

## Stop Peek Display notifications

1. Go to **Settings** > **Display** > **Advanced** > **Peek Display**.  
Or, **open** the **Moto** app and touch  > **Display**.
2. Turn **Peek Display** off .

To restart the notifications, turn Peek Display on .

---

## Change screen timeout

### Change when your screen turns off

1. Go to **Settings** > **Display** > **Advanced**.
2. Touch **Screen timeout** and select the time of inactivity before your phone sleeps.

**Tip:** Set a shorter time to [extend battery life](#).


## Stay on until you look away

Use Attentive Display to keep the screen on when you're looking at it and turn it off when you look away:

- Your screen won't dim or sleep when you're looking at it.
- Your screen will sleep sooner when it doesn't see you, saving battery.


In certain lighting conditions, your phone may have difficulty detecting when you've looked away.


To turn on Attentive Display:

1. Go to **Settings** > **Display** > **Advanced**.  
Or, open the **Moto** app and touch  > **Display**.
  2. Touch **Attentive Display** and turn the feature on or off.
- 

## Stop automatic rotation

### Prevent screen from rotating

Open [quick settings](#) and turn Auto-rotate off .

In this mode, you can manually rotate the current app. Turn your phone the direction you want, then touch  in the corner.

### Allow screen to rotate

To allow rotation for all apps, open [quick settings](#) and turn Auto-rotate on .

You can also adjust this in **Settings** > **Display** > **Advanced** > **Auto-rotate screen**

**Tip:** If your home screen isn't rotating but Auto-rotate is on, then check your home screen settings. Touch & hold a blank spot on your home screen, then touch **Home settings** > **Allow Home screen rotation**.

---

## Choose color mode

You can change the intensity of color on your screen for a realistic or enhanced look.

1. Go to **Settings** > **Display**.
2. Touch **Advanced** > **Colors**.
3. Choose one:
  - To see the most accurate colors, touch **Natural**.
  - To see accurate colors with more vividness, touch **Boosted**.
  - To see the most vivid colors, touch **Saturated**.

**Tips:**

- If colors don't appear as you expect, troubleshoot the issue [here](#).
- If you're color blind, use [color correction](#) instead.

## Adjust refresh rate

The action you see on your screen is a series of frames strung together, like a movie. A higher display refresh rate shows more frames per second, making the action smoother and more responsive. This uses more battery power.

You can adjust the display refresh rate, depending on your needs:

- For the smoothest, most responsive display, use the highest refresh rate.
- To save battery power, use a lower rate.

**Note:** When [Battery Saver](#) is on, the refresh rate is set to 60Hz.

To raise or lower the refresh rate:

1. Go to [Settings](#) > **Display**.
2. Touch **Advanced** > **Display refresh rate**.
3. Select the rate.

## Change font and display size

You can make the text or other items on your screen smaller or larger for your comfort and convenience.





1. Go to [Settings](#) > **Display** > **Advanced**.
2. Do any of the following:
  - To adjust the size of text on the screen, touch **Font size**, then drag the slider to the size you want.
  - To adjust the size of icons and other screen elements, touch **Display size**, then drag the slider to the size you want.

You can also change the [font's style](#).

**If you need more help seeing the screen**, turn on [accessibility](#) features, like magnification to zoom in and out or a screen reader to hear audio descriptions of what you touch on the screen.

## Set recording options

You can adjust settings before [recording your screen](#):

1. Open recording options:
    - In [quick settings](#), touch & hold .
    - Or, go to **Settings > Display > Advanced > Screen record**.
    - If you're playing a game and Gametime is on, touch , then touch & hold .
  2. Select options for viewfinder size, resolution, and frames per second.
  3. To show screen touches, turn **Recording screen** on .
- 

## Set lock screen preferences

### Limit lock screen notifications

If you've [set a pattern, PIN or password](#), you can control which notifications show on your [lock screen](#).

1. Go to **Settings > Display > Advanced > Lock screen**.
2. Touch **Lock screen > Notifications on lockscreen**.
3. Select whether or not to show notifications. If you show notifications but hide sensitive content, then you'll get notifications for an incoming email or chat, but they won't include message details.

### Add message to lock screen

To add your name or a short message to your [lock screen](#) for anyone who finds your phone:


1. Go to **Settings > Display > Advanced > Lock screen**.
2. Touch **Add text on lock screen**.
3. Type the text to display and touch **Save**.

**Tip:** Don't put your mobile number as your contact info unless you can access your voicemail from another device.

### Quickly tighten lock screen security

Unlocking with the [fingerprint sensor](#) and setting up [automatic unlocking](#) make it easier to keep your phone secure and minimize when you need to enter your PIN, pattern, or password. But sometimes you need to trade convenience for more security. You can temporarily tighten locks and prevent lock screen notifications.

To set it up:

1. Go to **Settings > Display > Advanced > Lock screen**.
2. Turn **Show lockdown option** on .

To use it:

1. Touch & hold the Power button.

2. Touch **Lockdown**.

Your fingerprint sensor and automatic unlock settings are disabled and notifications won't be displayed on your lock screen.

3. To exit Lockdown, unlock your phone with your PIN, pattern, or password.



## Use location services

### About location information


You can let your phone use GPS, Wi-Fi networks, mobile networks, and sensors to estimate your location. Apps that have your permission can use this information to deliver location-based services, such as the ability to check in, view traffic, find nearby restaurants, or tag your photos with the location where you took them.

### Turn location on or off

To control what location information your phone can use:

1. Go to [Settings](#) > **Security** > **Location**.
2. Turn **Use location** on  or off  to give or remove permission to use your location information.

When it's off, your phone can't find your precise location or share it with any apps. However, turning this off disables many useful features and apps.

**Tip:** To add a Location tile to quick settings, [open quick settings](#). Touch . Then drag the Location tile where you want it.

### Review apps using your location

To see which apps have recently accessed your location:

1. Go to [Settings](#) > **Security** > **Location**.
2. Under RECENT LOCATION REQUESTS, review the list of apps that recently received your location.
3. To prevent an app from accessing your location:
  - a. Touch **App access to location**.
  - b. Touch the app name.
  - c. Select **Deny**.

### Review services using your location

1. Go to [Settings](#) > **Security** > **Location** > **Advanced**.
2. Touch a service to open its settings:
  - **Emergency Location Service:** [Sends your location to emergency responders](#) when you call or text an emergency number
  - **Google Location Accuracy:** Improves location accuracy for [Maps](#) and [Find My Device](#).
  - **Google Location History:** Clear saved location details and turn location history on or off.
  - **Google Location Sharing:** View who's sharing your location, change sharing duration, and stop sharing.
  - **Carrier Location Access:** Improves carrier services and analytics.

## Fix a problem

### Problem: Location isn't working


After each step, check to see if the issue is fixed.

1. Turn [location off](#) and then on again.
2. Turn [airplane mode](#) on, wait 15-20 seconds, then turn it off again.
3. If you're using a case, remove it and check if GPS is working. The case might be obstructing the sensor.
4. [Check if Battery Saver is on](#). To save power, when Battery Saver is on, your phone disables location services.
5. Turn your phone off and then on again.
6. [Check for updates](#) to the Maps app. After updating the app, restart your phone.
7. [Clear the cache and data](#) for the Maps app.
8. [Use safe mode](#) to see if apps you installed are causing the issue and uninstall as needed.

If location works correctly in safe mode, a 3rd party app is probably causing the issue. A lot of apps use your phone's location. If these apps end up with corrupted files, it can affect your phone's location too.

### Problem: Location isn't accurate


Turn accuracy on:

1. Go to [Settings](#) > **Location**.
2. Touch **Advanced** > **Google Location Accuracy**.
3. Turn **Improve location accuracy** on .

When this setting is on, your phone uses GPS, Wi-Fi, mobile networks, and sensors to get the most accurate location.

When it's off, your phone uses only GPS to find location, which can be slower and less accurate.

Let your phone scan for nearby Wi-Fi networks or Bluetooth devices:

1. Go to [Settings](#) > **Location**.
2. Touch **Wi-Fi and Bluetooth scanning**.
3. Turn **Wi-Fi scanning** and **Bluetooth scanning** on .



## About security

### Screen lock options

To keep your phone secure, use a [screen lock](#) when it goes to sleep:

- Choose a [pattern, PIN, or password](#) to unlock.
- Add a Smart Lock to unlock automatically when connected to a [trusted device](#), when you're at a [trusted place](#) (like home or work), with [facial recognition](#), or until you [set your phone down](#).
- You can access notifications and quick settings, start a call, and launch the camera from the [lock screen](#).
- You can make [emergency calls](#) on a locked phone. A locked phone still rings; you don't need to unlock it to answer.
- If you forgot your pattern, PIN, or password, follow [these steps](#).

You can customize the lock screen by adding [your contact info](#). You can also [control](#) which notifications appear on your lock screen.

### Fingerprint sensor

Quickly and easily verify your identity using the [fingerprint sensor](#) on your phone, instead of entering a password, PIN, or pattern to unlock the phone, make online and in-store purchases, and sign into banking and financial apps.

You can [add and remove](#) fingerprints.

Fingerprints:

- Are created from features of your fingertip, converted to a mathematical representation, and then encrypted and stored only on the phone. No fingerprint images are ever stored.
- Are never shared with Google or Motorola.
- Are never shared with other apps. Your phone only shares the verification, not the fingerprint.

**Note:** A fingerprint screen lock may be less secure than a strong pattern or PIN lock. It is possible to unlock the phone using a physical copy of a matching fingerprint.

### Additional security options


For additional security, you can also:

- [Protect](#) your phone in case it's lost or stolen. Use Find My Device.
- Connect to a [virtual private network](#) if you need to access files on a secure network.
- Add a SIM lock to prevent others from using your cellular plan and accessing account information if your phone is stolen.
- [Prevent viruses](#) and other attacks on your data and privacy with Google Play Protect.

---




## Protect against harmful apps

### Scan phone for harmful apps

Google Play Protect  helps keep your phone secure by automatically scanning your apps, including sideloaded apps, to check for potentially harmful apps (malware).

If Google Play Protect finds a potentially harmful app, it stops the app from running and warns you so that you can uninstall it.

To see the results or to rescan:

1. [Open](#) the **Play Store** app.
2. Touch your profile icon  > **My apps & games**.
3. Do any of the following:
  - To see the results of latest scan, on the Updates, look at the message next to .
  - To rescan your phone, touch .

Google Play Protect is on by default.

### If your phone seems slow

If you've scanned your phone to confirm there aren't any potentially harmful apps but your phone seems slow, try these [troubleshooting steps](#).

---



## Be ready to find a lost phone

Make sure your phone can be found. Find My Device allows you to remotely locate, lock, and erase your phone.

If you ever need to find your phone, your phone will need to:

- Be turned on
- Be [signed in](#) to a Google account
- Be connected to mobile data or Wi-Fi
- Have [location services](#) turned on
- Have Find My Device turned on

To check that Find My Device is on for your phone:

1. Go to [Settings](#) > **Security**.
2. Touch **Find My Device** and turn it on .
3. To learn more, touch  > **Help & Feedback**.

To confirm that you can find your phone, go to [android.com/find](https://android.com/find) on your phone or from a computer.

## Set screen lock

You can set up a screen lock to secure your phone. Each time you power on your phone or [turn on the screen](#), you'll be asked to unlock it.


### Set or change screen lock

1. Go to [Settings](#) > [Security](#).
2. Touch **Screen lock** and select the [type of lock](#) you want.

Some lock options aren't available if you added a [VPN](#) or a work (corporate) email account to your phone.

### Screen lock types

No lock:

- **None:** This gives no protection, but you can quickly access your home screen.
- **Swipe:** Swipe  up. This prevents accidental dialing but doesn't secure the phone.

Lock:

- **Pattern:** Draw a pattern on a grid.
- **PIN:** Enter a four to sixteen digit numeric code. Longer PINs are more secure.
- **Password:** Enter four to sixteen letters, digits, or symbols for the password. A long, strong password is the most secure option.


When you're using any of the 3 locks, you can set your phone to [automatically unlock](#) in certain conditions.

### Unlock your screen automatically

If you're using a PIN, password, or pattern, you can:

- Stay unlocked when [connected to a device](#), like your car audio system.
- Stay unlocked at a [specific location](#).
- Stay unlocked when [holding or carrying](#) your phone.
- Unlock with [your face](#).

#### Tips:

- You can swipe up from anywhere on the screen when unlocking. You don't need to touch the  icon.
- Some of these options aren't available if you added a [VPN](#) or a work (corporate) email account to your phone.

### Remove screen lock

1. Go to [Settings](#) > [Security](#).


2. Touch **Screen lock**.
  3. Enter your current PIN, password, or pattern to confirm your identity.
  4. Select **None** or **Swipe**.
- 

## Adjust lock options

### Set time before locking



Unless kept [unlocked automatically](#), your phone locks the screen five seconds after the screen turns off.

To increase or decrease the amount of time before automatically locking the screen:

1. Go to [Settings](#) > **Security**.
2. Next to **Screen lock** touch .
3. Touch **Lock after screen timeout**, then select a duration.

### Stop Power button from instantly locking

You can manually lock your phone by pressing the Power button. If you want the Power button to turn off the screen but not lock it:


1. Go to [Settings](#) > **Security**.
2. Next to **Screen lock** touch .
3. Touch **Power button instantly locks** off .

After the screen turns off, your phone will still lock after the time set for [the automatic lock](#).



### Hide your password or pattern

You can hide your password or pattern to prevent others from viewing it when you unlock your screen.

For passwords:

1. Go to [Settings](#) > **Privacy**.
2. Turn **Show passwords** off .

For patterns (if you're using a pattern [screen lock](#)):

1. Go to [Settings](#) > **Security**.
2. Touch .
3. Turn **Make pattern visible** off .

## Unlock with trusted devices

### Set up trusted devices

You can keep your phone unlocked when it is connected to a trusted device, like your Bluetooth watch or car.

1. Make sure you have:
  - Set a [screen lock](#) on the phone.
  - Turned on [Bluetooth](#) on the phone.
  - Paired your phone with the device.
2. Go to [Settings](#).
3. Touch **Security** > **Smart Lock**.

If you don't see Smart Lock, try the following:

- Update Google Play services. In the Google Search widget on your home screen, search for “Google Play services”, then touch the app to open it in Google Play.
  - Go to **Settings** > **Security** > **Advanced** > **Trust agents** and enable **Smart Lock**.
4. Unlock your phone, then touch **Trusted devices** > **ADD TRUSTED DEVICE**.
  5. Touch a device to select it from the list of connected devices.

**Tip:** If your device isn't in the list, make sure you are [paired](#) with it.


When the phone is connected to the device, the phone automatically unlocks.

### Remove trusted devices

1. Go to [Settings](#).
2. Touch **Security** > **Smart Lock**.
3. Unlock your phone, then touch **Trusted devices**.
4. Touch the device name and confirm that you want to remove it.

### Manually lock phone

If you need to make sure the phone stays locked even when you're connected to a trusted device, you can manually lock the phone.

On the lock screen, touch . The phone stays locked until the next time you manually unlock it.

---

## Unlock with your face

### Before using face matching

Keep in mind that:

- Looking at your phone can unlock it, even when you don't intend to.
- Your phone can be unlocked by someone who looks a lot like you.
- Your phone can be unlocked by someone else if it's held up to your face while your eyes are open. Keep your phone in a safe place. To prepare for unsafe situations, you can [turn on lockdown](#).

### Set up face matching

1. Make sure you have set a [screen lock](#) on the phone.
2. Go to [Settings](#).
3. Touch **Security > Face Unlock**.

If the option is grayed out, go to **Settings > Security > Advanced > Device admin apps** and disable the device administrator.

4. Unlock your phone, then touch **Face Unlock**.
5. Follow the onscreen instructions.
  - Be sure to frame your entire face with the outline.
  - If **Skip lock screen** is on , then your phone unlocks right to your home screen or last used app when your face is matched. For more privacy, turn **Skip lock screen** off ; when your face is matched, you'll need to swipe up on the lock screen before seeing your home screen or last used app.
  - To unlock by raising your phone and looking at the screen, turn **Lift to unlock** on .



Whenever you turn on or wake the phone, it will search for your face and unlock when it recognizes you.

### Unlock your phone

Show your face to the lock screen.

If it doesn't recognize you, it stays locked and displays one of these icons.

---

Icon	How to unlock
	Use your password, PIN, or pattern
	Use the fingerprint sensor

---

## Turn off face matching

1. Go to [Settings](#).
2. Touch **Security** > **Face Unlock**.
3. Unlock your phone.
4. Touch **Delete face data**.

## Fix a problem


If you're having trouble getting the phone to recognize your face:

1. Go to [Settings](#).
  2. Touch **Security** > **Face Unlock**.
  3. Unlock your phone, then touch **Redo face scan**.
  4. [Set up](#) face matching again.
- 


## Unlock at trusted places

### Set up trusted places


To avoid repeatedly unlocking your phone when you are at familiar and trusted locations (like home or work), use a Smart Lock. You can still manually lock the phone at trusted places when needed.

1. Make sure you have:
  - Set a [screen lock](#) on the phone.
  - Turned on [location](#) services.
  - Entered your Home and Work locations in Maps ( > **Your places**) if desired.
2. Go to [Settings](#).
3. Touch **Security** > **Smart Lock**.


If you don't see Smart Lock, try the following:

- Update Google Play services. In the Google Search widget on your home screen, search for "Google Play services", then touch the app to open it.
  - Go to **Settings** > **Security** > **Advanced** > **Trust agents** and enable **Smart Lock**.
4. Unlock your phone, then touch **Trusted places**.
  5. Set up your places:
    - If you added Home or Work locations in Maps, touch the location name and turn it on if desired.
    - To add a location, touch **Add trusted place**. Verify your current location to add it, or touch , type the address to add, and touch **Select this location**.

## Manually lock phone

To lock your phone when you're in a trusted place, on the lock screen, touch . The phone stays locked until the next time you manually unlock it.

## Remove trusted places

1. Go to [Settings](#).
  2. Touch **Security** > **Smart Lock**.
  3. Unlock your phone, then touch **Trusted places**.
  4. Remove the location from your trusted places:
    - For your Home or Work locations in Maps, touch the location name to toggle it off. To remove the address entirely, you must remove it in Maps.
    - For custom places you added, touch the location name, then touch .
- 

## Keep phone unlocked while it's on you

You can keep your phone unlocked while you're holding it in your hand or carrying it in your pocket or handbag. Just unlock it once, and it stays unlocked until you set it down (or manually lock it).

1. Make sure you have set a [screen lock](#).
  2. Go to [Settings](#).
  3. Touch **Security** > **Smart Lock**.  
If you don't see Smart Lock, try the following:
    - Update Google Play services. In the Google Search widget on your home screen, search for "Google Play services", then touch the app to open it.
    - Go to **Settings** > **Security** > **Advanced** > **Trust agents** and enable **Smart Lock**.
  4. Unlock your phone, then touch **On-body detection**.
  5. Turn it on.
- 

## Use fingerprint security

### Set up fingerprint security

Use the [fingerprint sensor](#) to unlock your phone, make fast and secure online and in-store purchases, and sign into bank and finance apps.

1. Go to [Settings](#) > **Security**.
  2. Touch **Fingerprint**.
  3. Follow the onscreen instructions to scan your fingerprint using [the sensor](#) on the back of your phone.
- Fingerprints are [stored securely](#) on the phone.



## Add more fingerprints


Keep in mind that:

- If multiple users [share the phone](#), users should add their fingerprints from within their [user profile](#), instead of adding multiple fingerprints to your owner profile.
- Anyone whose fingerprints are added to a user profile can unlock the phone and authorize purchases with the associated [Google account](#) or apps.


Add a fingerprint for each finger you want to use with the sensor:

1. Go to [Settings](#) > [Security](#).
2. Touch **Fingerprint** and enter your pattern, PIN, or password to verify your identity.
3. Touch **Add fingerprint**.
4. Use the fingerprint sensor to scan another fingerprint.
5. Rename each fingerprint. Touch the current name, type a name, and touch **OK**.

## Remove a fingerprint

1. Go to [Settings](#) > [Security](#).
2. Touch **Fingerprint** and enter your pattern, PIN, or password to verify your identity.
3. Touch  next to the fingerprint.

## Use fingerprint to unlock phone

To wake and unlock your screen, or any time you see  on the screen, touch the sensor to verify your identity.

**Tip:** You can temporarily tighten security by turning off fingerprint unlocking and lock screen notifications with [Lockdown mode](#).

## Use fingerprint to sign in to apps

To use the fingerprint sensor with third-party apps:

- Be sure the app supports fingerprint recognition.
- [Install](#) the app and open its settings to adjust options, like enabling fingerprint unlock.
- Consult the app's help info for more instructions.

## Why am I still asked for PIN/pattern?

For maximum security, you still need to enter your pattern, PIN, or password:

- Every time you power up your phone
- When more than 72 hours have passed since you last unlocked the phone
- When you go to [Settings](#) > [Security](#) > [Fingerprint](#)

- When the sensor can't read the fingerprint

## Fix a problem

### **Problem: Sometimes the sensor can't read my fingerprints.**

Each finger has a unique print. If you've added only one fingerprint, add more for other fingers you want to use with the sensor.

The sensor may have trouble reading fingerprints if your finger is:


- Wet
- Oily
- Dirty
- Injured

If a registered fingerprint isn't working as expected, [remove](#) and re-add the fingerprint. If your finger is injured, add fingerprints for your other fingers and use them until healed.

### **Problem: Fingerprint option disappeared from Security menu.**

After each troubleshooting step, check to see if your issue is fixed.

1. Turn your phone off and then on again.
2. Check if a [software update](#) is available for your phone.
3. Check for app updates.

[Open](#) the **Play Store** app and touch  > **My apps & games**.

4. Use [safe mode](#) to see if apps you installed are causing the issue and uninstall as needed.

If the sensor works correctly in safe mode, a 3rd party app is probably causing the issue. These apps can cause issues: lock screen apps, app locks that use the fingerprint sensor, RAM boosters, and RAM cleaners.

5. [Reset](#) the phone.
- 

## Pin an app screen

### Turn on pinning


Use pinning to keep the current app in view until you unpin it. For example, you can pin a game and your child cannot navigate anywhere else on your phone.

You can set up a pattern, PIN, or password required to unpin.

1. Go to [Settings](#) > **Security** > **Advanced** > **App pinning**.
2. Turn screen pinning on.
3. By default, you must always enter your pattern, PIN, or password when unpinning a screen. If you don't want this security before accessing your other phone screens, turn this option off.

## Pin and unpin an app

To pin a screen:

1. Make sure you've [turned on](#) pinning and have recently opened the app you want to pin.
2. [Drag up](#) from the bottom of the screen, hold, then release.
3. In the recent app list, touch the app's icon at the top of the preview to see .

Be sure to touch the app's icon instead of the preview, which opens the app.

4. Touch .

To unpin it:

1. [Drag up](#) from the bottom of the screen and hold.
2. If you required a pattern, PIN, or password when you [turned on pinning](#), enter it to unlock the phone.


## Add or remove accounts

### Add Google account

When you set up your phone, you were prompted to add a Google account. If you skipped this, be sure to set one up now so you can download apps from Play Store, get a customized information feed, and take full advantage of the Calendar, Gmail, and other apps included with [your Google account](#).

To add a Google account:

1. Go to [Settings](#).
2. Touch **Accounts** > **Add account**.
3. Touch **Google** and follow the onscreen instructions to add an existing account or to create a new one.
4. Once the account is added, [Calendar](#), [Contacts](#), and other account features and apps are updated with information from that account. You can review and change what [syncs](#) with your phone for that account.

**Tip:** Keep your apps [up-to-date](#). To see if newer versions of the apps associated with your Google account are available, open the Play Store app and touch  > **My apps & games**.

### Add email or app account

Accounts are automatically added when you:

- Set up [corporate email](#)
- Set up [personal email](#) for non-Gmail addresses
- Install apps that require a username/password to log in, such as messaging, shopping, or streaming content

To review these accounts or add another:

1. Go to [Settings](#).
2. Touch **Accounts** > **Add account**.
3. Touch the type of account to add and follow the onscreen instructions.  
If you don't see the type of account you want to add, [install](#) the related app from Play Store, then sign into your account through the app.
4. Once the account is added, account-related features and apps are updated with information from that account. To review and change what [syncs](#) with your phone, touch the account type, then account name.

### Remove account

If you remove an account, information you [synced](#) will be removed from your phone, but it is not deleted from your account.

To remove an account:

1. Go to [Settings](#) > **Accounts**.

2. Touch the account name.
3. Touch **Remove account**.

**Tip:** If you have trouble removing a corporate account, go to **Settings > Security > Advanced > Device admin apps** and turn off the app for the account, then try to remove it again.

---

## Change name & info in your Google account

You can update, add, and remove basic info for your Google account:

1. Go to **Settings > Google > Manage your Google Account**.
2. Touch **Personal info**.
3. Update information as needed. Add or change your profile picture, edit your name and birthday. [Learn more](#).

Forgot your Google password, or want to change it? Learn how to [reset your password](#).

Other questions about your account? Read [Google's help](#).

---

## Sync apps with your Google account

### About syncing

#### What sync does

When your phone syncs, your Google apps refresh their data, and you get notifications about updates.

#### Which apps sync

By default, [apps made by Google](#) sync automatically. You can turn auto-sync off and back on for individual apps.

Whether other apps (not made by Google) can sync varies by app.

#### If you turn off auto-sync

Turning off auto-sync doesn't remove the app or your data. It only stops the app from automatically refreshing your data.

To receive emails, calendar reminders, or other notifications from Google apps, you'll need to sync manually.

### See which apps auto-sync

#### See which Google apps auto-sync

1. Go to **Settings > Accounts**.
2. Touch the account name.
3. Touch **Account sync**.
4. Review the list of your Google apps and when they last synced.

#### Check other apps

To see if your other apps can auto-sync:

1. Go to [Settings](#) > **Accounts**.
2. Review the list of accounts:
  - If the app isn't listed, then it can't auto-sync.
  - If it is listed, touch its name to see any sync options you can adjust.


## Turn off auto-sync

### Turn off for certain Google apps


1. Go to [Settings](#) > **Accounts**.
2. If you have multiple accounts on your phone, touch the one you want.
3. Touch **Account sync**.
4. Turn off the apps you don't want to auto-sync.

For example, sync your Calendar and Gmail but don't sync Drive.


### Turn off for your Google account

1. Go to [Settings](#) > **Accounts**.
2. Turn **Automatically sync app data** off .

To collect messages, email, calendar, or other app updates, you'll need to sync the accounts manually.

**Tip:** Turning off auto-sync can help save [battery life](#). To start auto-sync after your battery recharges, turn it back on .

## Sync manually

1. Go to [Settings](#) > **Accounts**.
2. Touch the account name.
3. Touch **Account sync** >  > **Sync now**.

## Fix a problem

Select an issue to see troubleshooting steps:

- [Account sync issues](#)
- [Forgot password for Google account](#)
- [Problems with Facebook, WhatsApp, other apps](#)

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## Control what info Google collects


Google collects information from you to provide personalized services and tailored content, as outlined in the .

You can review, delete, and control the information Google collects about you. Learn more from Google about:

- [Viewing and controlling](#) what information is collected (search, YouTube, recordings of your voice commands, location).
- [Deleting](#) your search history and other activity.
- [Reviewing](#) your location history.
- Any [other questions](#) about your account

## Visual assistance

### Adjust colors if you're color blind


1. Go to **Settings** > **Accessibility**.
2. Touch **Color correction** and turn **Use color correction** on .
3. Touch **Correction mode** and choose an option.

How you see colors	Option to choose
It's difficult to tell violet from blue. Yellow and green appear redder.	Deuteranomaly (red-green)
Colors aren't bright. Red, orange, and yellow appear greener.	Protanomaly (red-green)
It's difficult to tell yellow and red from pink. Blue appears greener.	Tritanomaly (blue-yellow)

Color correction is an experimental feature and might not work correctly everywhere on your phone.

If colors don't appear as you expect, troubleshoot the issue [here](#).

### Magnify the screen

You can magnify the screen by triple tapping it or by swiping up from the bottom of the screen with two fingers. If you're using [3-button navigation](#), you can add  to magnify.

#### Set it up


To set up the way to start (zoom in) and stop (zoom out) magnification:

1. Go to **Settings** > **Accessibility** > **Magnification**.
2. Turn **Magnification shortcut** on .

When magnification is on, you'll see an orange border around the screen.

#### Use magnification

To zoom in/out:

1. Start magnification: swipe up from bottom of screen with two fingers, or touch .
2. Touch the area of the screen to magnify, then:
  - Drag two or more fingers to scroll.
  - Pinch two or more fingers to adjust zoom.




To zoom temporarily:

1. Start magnification: swipe up from bottom of screen with two fingers, or touch .



2. Touch & hold anywhere on the screen, then:


- Drag to move around the screen.
- Lift your finger to zoom out.

You can't zoom in on the keyboard or the    buttons.

**Tip:** You can also adjust [font and display size](#).

## Turn touch sounds on/off



1. Go to [Settings](#) > **Sound** > **Advanced**.
2. Do any of the following:
  - To hear a tone when you dial a number, turn on **Dial pad tones**.
  - To hear a click when you lock or unlock the screen, turn on **Screen locking sound**.
  - To hear a click when you touch something on the screen, turn on **Touch sounds**.
  - To feel a vibration when you type on the keyboard, turn on **Touch vibration**.


If you don't want any of these sounds, just turn them off .

## Hear other notification sounds

You can [assign a ringtone](#) for notifications from specific apps.

You can also control sounds that notify you of other events:


1. Go to [Settings](#) > **Sound** > **Advanced**.
2. To hear a confirmation tone and feel a vibration when you successfully connect your phone to a charger, turn **Charging sounds and vibration** on .
2. To feel a vibration when you make a call and the other party answers, turn **Outgoing call vibration** on .

If you don't want any of these sounds, just turn them off .

## Use TalkBack to read screens

Hear descriptions of everything you touch.

### Enable TalkBack


1. Go to [Settings](#) > **Accessibility**.
2. Touch **TalkBack** and turn **Use TalkBack** on .
3. Touch **Settings** and set the options you want.

### When TalkBack is on

- Touch an item. Your phone speaks the name.
- Start typing. Your phone speaks each number or letter.

- Drag status bar down. Your phone speaks all of the notifications.
- Open a message, file, or book. Your phone reads the text out loud.


### Change readout volume

- Press a Volume button to open volume settings, then use the  slider to adjust the level.
- Or, during voice readout, repeatedly press a Volume button.

### Stop readout

To pause or resume readout, press & hold both the Volume Up and Down buttons at the same time for three seconds, until you hear confirmation that TalkBack is on or off. You can change the accessibility feature associated with this [shortcut](#).

Or, turn TalkBack off:

1. Go to [Settings](#) > [Accessibility](#).
2. Touch **TalkBack** and turn **Use TalkBack** on .
3. To use the Volume keys or a swipe gesture as a shortcut to turn the reader on/off, touch **TalkBack shortcut**, then select keys or gesture.

## More assistance

You can also:

- Use [voice commands](#)
- Dictate text instead of typing

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## Hearing assistance

### Caption all speech

*This feature is available only in English.*

Your phone can automatically caption videos, podcasts, audio messages, and recordings.

#### Turn captions on/off

Press & hold a Volume button, then turn it on  or off . (If you don't see this icon, change caption settings to add it.)

Or, go to [Settings](#) > [Accessibility](#) > [Live Caption](#) and turn it on  or off .

#### Use the caption box

- To move captions, drag the box.
- To expand or shrink captions, touch the box twice.

#### Battery use

Live Caption uses more battery. When your battery gets low and [Battery Saver](#) is on, Live Caption automatically turns off.

#### Change caption settings

You can hide or show:



- Profanity
  - Sound labels (laughter, applause, music)
  - Caption icon in volume controls
1. to **Settings** > **Accessibility** > **Live Caption**.
  2. Turn settings on  or off .

## Turn on video captions

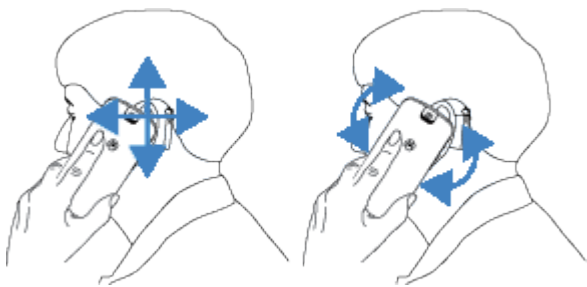
1. Go to **Settings** > **Accessibility**.
2. Touch **Caption preferences** and turn **Use captions** on .
3. Specify options (language, text size, and style) for closed captioning.

## Use hearing aids

To improve compatibility with hearing aids and reduce sound feedback:

1. Touch .
2. Touch  > **Settings** > **Accessibility**.
3. Turn **Hearing aids** on .

During a call, hold the phone to your ear, then rotate or move it to get the best position for speaking and listening.



## Use real-time text (RTT) during calls

*Not all carriers support this feature.*


Real-time text (RTT) lets you use text to communicate during a phone call. Your phone sends text as you type and the recipient can read your message while you write.

RTT:




- Uses call minutes, just like a voice call
- Doesn't require additional accessories

To turn RTT on:

1. Touch .
2. Touch  > **Settings** > **Accessibility**.

3. Touch the real-time text option and turn it on , or select when you want it to appear.

To make a call with RTT:



1. Touch .
2. [Call](#) the number.  
While the phone rings, the other person's screen displays an RTT indicator.
3. After the other person answers, enter a message in the text field.  
The text that you enter is visible to the other person as you type.
4. During a call, you can touch  to mute the call, turn on the speaker, return to the keypad, or add a call.
5. To end the call, touch .

## Set up TTY device

*Not all carriers support this feature.*

For text-based communication, you can use [text messaging](#) and [email](#).

If you prefer to connect to a TTY device:

1. Touch .
2. Touch  > **Settings** > **Accessibility** > **TTY mode**.
3. Select a mode:
  - **TTY Full**: Type and read text on your TTY device.
  - **TTY HCO**: Type text on your TTY and listen to voice replies on your phone.
  - **TTY VCO**: Speak into your phone and read text replies on your TTY.
4. Connect your phone and TTY with the audio cord that came with your TTY.


---


## Use accessibility shortcuts

### Use accessibility menu

Get quick access to an accessibility menu that gives you better control of your phone.

To turn it on:

1. Go to [Settings](#) > **Accessibility**.
2. Touch **Accessibility Menu**.
3. Turn **Accessibility menu shortcut** on .

**Tip:** To increase the size of the buttons on this menu, touch **Settings**, then turn **Large buttons** on .


If you're using [gesture navigation](#):

1. Use two fingers to swipe up from the bottom of the screen.

If you've set other [accessibility tools](#) to use this gesture, swipe up with two fingers and hold to switch between tools.

2. Choose an option from the menu.

If you're using [3-button navigation](#):

1. At the bottom of the screen, touch .

If you've set other [accessibility tools](#) to use this icon, touch & hold it to switch between tools.

2. Choose an option from the menu.

## Press Volume buttons to start/stop TalkBack

You can press the Volume buttons to turn the screen reader TalkBack on or off.

To enable the shortcut:

1. Go to [Settings](#) > [Accessibility](#) > [TalkBack](#).
2. Turn **TalkBack shortcut** on .


To use the shortcut:

Press and hold the Volume Up and Down buttons at the same time for three seconds.

You'll hear confirmation that the feature has been turned on or off.

## Customize the keyboard


### Quickly access keyboard settings

On the keyboard, touch .


You can also access your keyboard settings at **Settings > System > Languages & input > Virtual keyboard > Gboard**.

### Change how keyboard looks

To change the background color of your keyboard:



1. On the keyboard, touch .
2. Touch **Theme**.
3. Select a color to use as the background.
4. Touch **Apply**.

To adjust the keyboard's height for more comfortable typing:

1. On the keyboard, touch .
2. Touch **Preferences > Keyboard height**.
3. Select the height you want.

### Adjust keyboard sounds


To control whether your keyboard makes sounds:

1. On the keyboard, touch .
2. Touch **Preferences**.
3. To hear sounds when you type, turn **Sound on keypress** on .
4. To adjust how loud the sounds are, touch **Volume on keypress**.

### Adjust keyboard vibration



The [onscreen keyboard](#) vibrates when you touch a key. Turn off vibration feedback if you prefer not to use it or want to improve battery life.

To adjust keyboard vibrations:




1. On the keyboard, touch .
2. Touch **Preferences**.
3. Do any of the following:
  - Turn **Vibrate on keypress** off or on.
  - If on, touch **Vibration strength on keypress** and move the slider.

## Disable glide typing



With [glide typing](#), you drag your finger over the letters in a word. If you want to turn this off and only use multi-touch typing:

1. On the keyboard, touch .
2. Touch **Glide typing**.
3. Turn **Enable glide typing** off .

## Limit or turn off suggestions

1. On the keyboard, touch .
2. Touch **Text correction**.
3. Adjust settings:
  - If you don't want predictions based on your previous word, turn **Next-word suggestions** off . You will only see [suggestions](#) for the current word you're typing.
  - If you don't want ANY suggestions, turn **Show suggestion strip** off .
  - You can also turn off (or on) offensive word blocking and suggestions for emoji, stickers, and information from Contacts.

## Turn off auto-correction


1. On the keyboard, touch .
2. Touch **Text correction**.
3. If you don't want words corrected while you type, turn **Auto-correction** off .

---

## Use multiple languages

### Change display language

You selected the language for your phone during set up. To change it:


1. Go to [Settings](#) > **System** > **Languages & input** > **Languages**.
2. Touch & hold the language you want and drag it to the first position in the list.
3. If you don't see the language you want, touch  to add it, then drag it to the first position.


All languages added to the list will appear on [the keyboard's spacebar](#).

To remove a language, go to **Settings** > **System** > **Languages & input** > **Languages**, then touch  > **Remove**, select the language, and touch .

### Add language to keyboard

If you want a keyboard for a language that isn't a display language:

1. On the keyboard, touch .
2. Touch **Languages**.
3. Touch **ADD KEYBOARD**.
4. Select the language.
5. Touch **Done**.



Then, [switch between languages](#) on the keyboard by touching .

---

## Open apps faster with Adaptive performance

Adaptive performance has artificial intelligence (AI) that learns which apps you use most, then manages your phone's memory more efficiently so that they open faster.

To turn this feature on or off:

1. Go to **Settings** > **System** > **Adaptive performance**.
2. Adjust settings:
  - To allow AI to learn your usage patterns to help open apps faster, turn **Quick launch** on .
  - To use phone storage to extend RAM and improve performance, turn **RAM boost** on . Restart your phone to apply the new setting.



---





## Customize Power button gesture

You can customize the Power button so that pressing it twice either opens [Google Assistant](#) or opens your camera.

1. Go to [Settings](#) > **System** > **Gestures**.
  2. Touch **Double press power key** and select what you want the gesture to do.
- 

## Change System navigation

You can select which navigation option to use for moving between apps and screens.

1. Go to [Settings](#) > **System** > **Gestures**.
  2. Touch **System navigation**.
  3. Choose an option:
    - **Gesture navigation:** Use drag and swipe gestures to return to your home screen, to switch apps, or to go back to the previous screen. To adjust sensitivity of the back gesture, touch  and move the slider. [Learn more](#).
    - **3-button navigation:** Use the   and  buttons. [Learn more](#).
- 

## Swipe fingerprint for notifications

You can set the fingerprint sensor to open your [notifications](#) and [quick settings](#) when you swipe it.

### Set it up

1. Go to [Settings](#) > **System** > **Gestures**.
2. Touch **Swipe fingerprint for notifications** and turn it on .



### Use it

Swipe down on the [fingerprint sensor](#):

- Swipe once to view notifications.
  - Swipe again to view quick settings.
- 

## Turn flashlight on and off

To turn your flashlight on or off:

1. Open [quick settings](#).
2. Touch  or .

Or, make a chopping motion to turn the flashlight on or off.

If the camera opens instead of turning on the flashlight, be sure to use a chop gesture, not a [twist gesture](#).

To control the chop gesture:

1. Go to **Settings** > **System** > **Gestures**.  
Or, **open** the **Moto** app and touch **☰** > **Gestures**.
  2. Touch **Fast flashlight** and turn it on or off.
- 

## Twist phone to open camera

Open your camera instantly from any screen, even your lock screen, with Quick capture.

Twist your phone twice like this:



Your viewfinder opens, and you're ready to shoot.

Twist twice again to switch to the front (selfie) camera.

If you don't want others to access your camera, you can turn Quick capture off. But if you use a screen lock, don't worry--only your Camera app is accessible. To view existing photos or access any other features or apps, you must unlock your phone.

To turn Quick capture on or off:

1. Go to **Settings** > **System** > **Gestures**.  
Or, **open** the **Moto** app and touch **☰** > **Gestures**.
  2. Turn **Quick capture** on  or off .
- 


## Adjust screenshot settings

1. Go to **Settings** > **System** > **Gestures**.  
Or, **open** the **Moto** app and touch **☰** > **Gestures**.
2. Turn **Three finger screenshot** on  or off .

## Back up phone

### Back up to Google


You can automatically back up the following items to your [Google account](#):

- Apps and app data
- Call history
- Contacts
- Phone settings (including Wi-Fi passwords and permissions)
- Photos and videos (synced to [your Google Photos library](#), not to Google Drive)
- SMS text messages (if using  Messages)



**Tip:** Back up over [Wi-Fi](#) to prevent cellular data charges.

Not all apps back up data automatically. Check with the app developer.

To automatically back up to Google Drive:



1. Go to [Settings](#) > **System**.
2. Touch **Backup**.
3. Turn **Back up to Google Drive** on .
4. If you have multiple Google accounts, touch **Account** to select an account.
5. Follow the onscreen instructions.

To back up other files that aren't automatically backed up, like attachments or downloads:

1. [Open](#) the  Drive app.
2. Touch .
3. Touch **Upload**, then choose the files or folder to upload.

### Manage your backup in Drive

On your phone:

1. [Open](#) the  Drive app.
2. Touch  > **Backups**.

To learn about managing phone backups from a computer, read [Google's help](#).

### Restore backed up data

When you [add your Google account to a phone](#), photos, contacts, settings and app data that you previously backed up to that account are restored onto the phone.

---

# Share your phone

## Ways to share your phone

- **Add users.** If you share your phone with family, friends, or within a business, you can set up separate user spaces for each of them.
- **Lend to people as guest.** This is a more temporary space that you or the guest can delete when finished.
- **Pin the screen.** This lets you keep one specific app or screen in view. For example, you can pin a game and your child cannot navigate anywhere else on your phone.

## About owners, users, and guests

The owner can:

- Determine whether users and guests can make phone calls and send text messages, which also allows them to see the phone's call history and text history.
- Reset, update, and uninstall any apps.
- Delete user and guests, removing any associated accounts and data from the phone.

Users and guests can:

- Set up [Google accounts](#) and other types of accounts.
- Set up a [screen lock](#).
- Customize the home screen and settings for their spaces.
- Add and delete apps for their spaces, and update any apps they use, regardless of who installed them.

**Important:** To prevent others from switching to your owner profile and accessing your information, set a [screen lock](#) before you share your phone with users or guests.


When sharing your phone with users and guests, some apps are only available to the owner, not to other users and guests.

## Switch users

Only the owner can switch to the guest profile for loaning the phone and can switch between user profiles.

To switch user profiles or see which is currently active, open [quick settings](#). At the top of the screen, you'll see one of these icons after you've [set up a user](#) or [added a guest](#).

---

Icon	Meaning
	Owner (If you set up your profile in Contacts and included a picture, you'll see it and your name instead.)

---



Guest



Added user

## Add, modify, remove users

### Add a user

You must be the device owner to add users.

1. To prevent others from switching to your owner profile and accessing your information, set a [screen lock](#) before you share your phone.
2. Go to [Settings](#) > [System](#) > [Advanced](#) > [Multiple users](#).

**Tip:** To add users from quick settings on your lock screen without unlocking the phone, go to [Settings](#) > [System](#) > [Advanced](#) > [Multiple users](#) and turn **Add users from lock screen** on

3. Touch **Add user** > **OK**.
4. Add the user's name.
5. To allow the user to make calls and send messages, switch on **Turn on phone calls**.
6. Select the option to switch to that user, then touch **Set up now**.
7. Give the phone to the new user to set up the profile.

### Restrict calls and messages

From your [owner](#) profile, you control whether users can call and send texts with your phone:

1. Go to [Settings](#) > [System](#) > [Advanced](#) > [Multiple users](#).  
Or from quick settings, touch > **More settings**.
2. Touch the user's name.
3. To prevent the user from making calls or sending messages, switch off **Turn on phone calls & SMS**.



### Remove a user

You can remove yourself as a user. You must be the device owner to remove other users.

If you're a user who borrowed a phone:

1. Go to [Settings](#) > [System](#) > [Advanced](#) > [Multiple users](#).  
Or from quick settings, touch > **More settings**.
2. Touch and delete your user account from the phone.

If you're the owner:

1. Go to **Settings** > **System** > **Advanced** > **Multiple users**.  
Or from quick settings, touch  > **More settings**.
  2. Touch the user's name.
  3. Touch .
- 


## Add or delete guest

### Lend to guest

Create a temporary profile for [sharing](#) your phone with someone.

1. Go to **Settings** > **System** > **Advanced** > **Multiple users**.
2. Touch **Add guest**.
3. To allow the guest to make calls, switch on **Turn on phone calls**.
4. Touch the option to switch to guest mode.
5. If you've lent your phone to a guest previously, touch **Start over** to clear the last guest settings, or touch **Yes, continue** to keep last guest settings.

### End guest session

1. Go to **Settings** > **System** > **Advanced** > **Multiple users**. Or from quick settings, touch .
2. Touch **Remove guest** > **Remove**.  
All data from and apps installed during this session are deleted.

---

## Record your IMEI number

The IMEI (International Mobile Equipment Identity) number is the unique code that identifies your phone. You'll need it if you contact support regarding a warranty, and it's important to have if your phone is stolen.

Service providers can use the IMEI to block a stolen phone from cellular networks, and many police departments keep a record of stolen phones using this number.

You may never need your IMEI number, but it's a good idea to record it, just in case.

To find the IMEI number:

1. Go to [Settings](#) > **About phone**.
2. See **IMEI** for your number.
3. Record and save the number where you can easily access it.

You can also find your IMEI number by dialing **\*#06#** in the Phone app. On some phones, the MEID HEX number is your IMEI number.

If your phone doesn't turn on, check the box it came in or the receipt for the IMEI number.

---

## Find legal and product information

To view the electronic regulatory label for your phone, go to [Settings](#) > **About phone** > **Regulatory labels**.

For safety, environmental, warranty, and other legal information, go to [Settings](#) > **About phone** > **Legal information**.

Printed legal information may also be provided with your phone.

To find your phone's model or serial number, go to [Settings](#) > **About phone** > **Model & hardware** > **Model Number (SKU)**.

---

## Phone is slow or unstable

### Pinpoint the problem

What type of issue are you seeing?


- If your phone is slow when running all apps and tasks, it's probably a problem with your phone, not an app on your phone. Try the troubleshooting steps below.
- If the problem is specific to one app, try these [app-specific troubleshooting steps](#).
- If you're using Wi-Fi and your phone is slow when you view websites or watch videos online, it could be a problem with your connection. Try using a different Wi-Fi network or contact your Internet Service Provider.

### Troubleshoot phone performance

After each step, check to see if the issue is fixed:

1. Turn your phone off and then on again.
    - Press and hold the Power button, then touch **Power off**.
    - If your phone is frozen, reboot it by pressing and holding the Power button for 7-10 seconds.
  2. Check for system updates.

Go to [Settings](#) > **System** > **Advanced** > **System updates**.
  3. Check for app updates.

[Open](#) the Play Store app and touch  > **My apps & games**.
  4. Check [available storage](#) and clear space if needed.
- 

## Phone feels warm or hot

### Overview

It's normal for your phone to feel warm, or even hot, depending on how you're using it.

If your phone ever becomes too hot, it will ask you to turn it off so it can cool down. Some phones will stay on but limit the phone's capabilities until it cools down.

If your phone is too hot to touch, use a different phone, tablet, or computer to contact [Motorola support](#).

### Reasons your phone may get warm

Doing one or more of the following activities may cause your phone to get warm:

- Playing videos, games, or other media apps
- Using GPS navigation
- Tethering your phone or using it as a Wi-Fi hotspot



- Using phone while it's [charging](#)
- Downloading or uploading a lot of data

## Ways to keep your phone from heating up

- Pause resource-intensive features or apps until your phone cools down.
- Always use the charger that came with your phone.
- Keep your phone away from direct heat or excessive sunlight.
- Don't keep your phone in enclosed or poorly ventilated areas where heat can easily build up.
- Reduce your phone's [display brightness](#).

## If you're not using or charging it

Sometimes a process can get stuck in the background. If your phone is hot but you're not using or charging it, turn your phone off and on again. This will stop the previously stuck process and resolve the issue.

---

## Phone won't turn on

If your phone isn't starting, won't turn on, has a black or blank screen, or turns on but immediately turns off, try these steps to fix the issue.

1. Press & hold the Power button for 5-7 seconds, or up to 30 seconds.

This restarts (reboots) your phone.

2. [Charge](#) the phone.

If your phone has a [sign-of-life indicator](#), look for a white light near the top front of the phone. This indicates that the phone is charging but battery is too low to power the screen.

If you're having trouble charging, try these [troubleshooting steps](#).

3. If you don't see a battery icon after you plug your phone in to charge, the issue could be with your screen. Check if your phone rings by calling it from another phone. If it rings, the issue is with your screen and you can try these [troubleshooting steps](#).
  4. Perform an external reset of your phone. [Learn how](#).
  5. If you have a Windows PC, [download Rescue and Smart Assistant](#) to your PC and try reinstalling the phone's system software.
- 

## Phone restarts or crashes

If your phone randomly reboots, restarts, or shuts down without restarting, try the following.

1. Restart your phone:
  - a. Hold down the Power button for about 30 seconds.
  - b. If this doesn't work, connect your phone to charge for at least 5 minutes. Then, while connected to the charger, restart again by holding down the Power button for 30 seconds.

2. Troubleshoot your phone:
    - a. Check if a [software update](#) is available for your phone.
    - b. Check [available storage](#) and [clear space](#) if needed.

You may see issues if your phone's internal storage is almost full. To free up space, remove unnecessary files and clear cached data.
  3. Troubleshoot your apps:
    - a. Check for [app updates](#).
    - b. Use [safe mode](#) to see if apps you installed are causing the issue and uninstall as needed.

If your problem doesn't go away in safe mode, restart your phone and continue to the next section.
  4. Reset to factory settings:

To remove any processes on your phone that may be causing the issue, you can [reset your phone](#) to factory settings.

A factory data reset will remove all data from your phone.
  5. If you have a Windows PC, [download Rescue and Smart Assistant](#) to your PC and try reinstalling the phone's system software.
- 

## Screen is frozen or won't respond

**Tip:** If your screen goes black when the phone rings so you can't answer the call, [clear data](#) for the Phone app.

If your screen lags or blurs motion between actions, [raise your refresh rate](#).

If your phone freezes, stops responding, or is stuck on a blank or white screen, try the following:

1. Restart your phone. Hold down the Power button for about 30 seconds.
2. If this doesn't work, charge your phone for at least 5 minutes. Then, while connected to the charger, restart again by holding down the Power button for 30 seconds.

**If your phone freezes again**, check for a larger issue:

1. Restart your phone to unfreeze it.
2. Check if a [software update](#) is available for your phone.
3. Check [available storage](#) and [clear space](#) if needed.

You may see issues if your phone's internal storage is almost full. To free up space, remove unnecessary files and clear cached data.
4. Check for [app updates](#).

**If you can't unfreeze the phone**, [reset your phone](#) to factory settings, to remove any processes that may be causing the issue.

A factory data reset will remove all data from your phone.

---

## Screen displays wrong colors




### Everything is grayscale, black and white

Go to [Settings](#) > [Digital Wellbeing & parental controls](#) > [Bedtime mode](#) > **Off**.

### Everything is negative, reversed colors

Go to [Settings](#) > [Accessibility](#) > [Color inversion](#) and turn it off .

### Tones, hues are different or missing

- If the screen shows warmer tones than usual, check [quick settings](#) to see if **Night Light** is on  and turn it off .
- If certain colors appear diminished or their hues are different, go to [Settings](#) > [Accessibility](#) > [Color correction](#) and turn **Use color correction** off .

### Background turned dark/light

Go to [Settings](#) > [Display](#) > [Advanced](#) and turn **Dark theme** off .

---

## SD card problems

### Phone doesn't recognize new SD card

If your phone isn't recognizing a new card that you [inserted](#), try these steps. After each step, check to see if the issue is fixed.

1. Turn your phone off and then on again.
2. Inspect card for damage or alignment issue:
  - a. Turn your phone off and [remove](#) the card. Inspect for damage. If not damaged, reinsert the card.
  - b. Be sure the card sits completely in its slot and that the tray slides easily into the phone.
  - c. Turn the phone on.
3. Check that the card is mounted:
  - a. Go to [Settings](#) > [Storage](#).
  - b. If you see **Ejected** under the card name, touch the name then touch **MOUNT**.
  - c. Turn your phone off and then on again.
4. Check that the card's type and capacity is [compatible with your phone](#). If not, use a different SD card that meets the requirements.
5. Insert a different SD card to confirm that the issue is with the original card and not with your phone.

## Phone can't format SD card

Try the following:

- Check that the card's type and capacity is [compatible with your phone](#). If not, use a different SD card that meets the requirements.
- Try formatting the card using an SD card reader and an SD card formatter app on a Windows computer.

## Phone stopped reading SD card

After each step, check to see if the issue is fixed:

1. Turn your phone off and then on again.
2. Inspect card for damage or alignment issue:
  - a. Turn your phone off and [remove](#) the card. Inspect for damage. If not damaged, reinsert the card.
  - b. Be sure the card sits completely in its slot and that the tray slides easily into the phone.
  - c. Turn the phone on.
3. Check that the card is mounted:
  - a. Go to [Settings](#) > [Storage](#).
  - b. If you see **Ejected** under the card name, touch the name then touch **MOUNT**.
  - c. Turn your phone off and then on again.
4. Use another device to check if the card is readable:
  - a. Insert card into another device.
  - b. If that device can read the card and files are present, back up files to your computer.
5. Check for errors with a USB SD card reader connected to a Windows computer:
  - a. Insert the card into a USB card reader.
  - b. Open My Computer, right-click on the SD card, and select **Properties** > **Service** > **Check disk for errors**. Depending on the size of your card and usage, this process could take up to an hour.
6. Reformat card using an SD card reader and an SD card formatter app on a Windows computer. Formatting the card erases all data on the card. Before you reformat, if you can access your SD card files from your PC, copy them to your computer. Then, use the SD card formatter app to format your card to FAT32.
7. Try a new SD card.

## Apps can't view files on SD card

If none of your apps can view files on the card:

1. Install a different file manager app from Play Store. Use that app to check if files are visible on the card.
2. Check if files are visible using a Windows computer:
  - a. Turn your phone off and [remove](#) the card.
  - b. Put the card in the computer's SD card slot or a connected USB SD card reader.

If a specific app can't view files the card:

1. Open the app from which files are missing.
2. In the app's settings, set the storage location to be the SD card, not internal or phone memory.

## **Computer can't view files on SD card**


After each troubleshooting step, check to see if your issue is fixed:

1. Use a USB cable that's capable of data transfer and isn't for charging only.
2. Be sure you have [set the USB connection type](#) to allow file transfer.


## Problems making/receiving calls



After each troubleshooting step, check to see if your issue is fixed.

### icon is missing



If  disappeared from your home screen, you just need to [add a shortcut](#) for the Phone app.

### SIM card not recognized

If you see  or  in the [status bar](#) or a message that the SIM is not recognized:

1. Turn your phone off and then on again.  
Press and hold the Power button, then touch **Power off**. Then turn it on to establish a new connection with the network.
2. Do one of the following:
  - If your phone allows one SIM card, turn your phone off, then [remove](#) and reinsert the SIM.
  - If your phone allows dual SIMs, disable the SIM, then enable it again. Go to [Settings](#) > **Network & internet** > **SIM cards**. Turn the SIM off . Then turn it on .
3. If your phone has dual SIMs, turn your phone off, then [remove](#) the SIM that is not recognized and try it in the other SIM slot.
4. Contact your carrier to make sure your account is set up properly.
5. Ask your carrier to replace the SIM card.
6. Perform an external phone [reset](#).

### No signal

1. If you usually have a signal  but the [status bar](#) shows  in your current location, move to another area where you can receive a signal, like outdoors. If you're uncertain whether your carrier provides service in that location, check the coverage map on your carrier's website.
2. If [airplane mode](#) is on, turn it off.
3. Turn your phone off and then on again.
4. Check for [app updates](#).
5. Check if a [software update](#) is available for your phone.
6. Check that the **Preferred network type** is set to **Global**. ([Settings](#) > **Network & internet** > **Mobile network** > **Advanced** > **Preferred network type**.) If you're experiencing service issues when it is set on **Global**, try a different setting.
7. [Remove](#) your SIM card and reinsert.
8. Use [safe mode](#) to see if apps you installed are causing the issue and uninstall as needed.
9. [Reset](#) the phone.



## Have signal, but can't make calls

1. Turn your phone off and then on again.

Press and hold the Power button, then touch **Power off**. Then turn it on to establish a new connection with the network.



2. Clear the [cache](#) for the Phone app.
3. Use [safe mode](#) to see if apps you installed are causing the issue and uninstall as needed.
4. Check if a [software update](#) is available for your phone.
5. [Reset](#) the phone.

## Phone doesn't ring or ring loud enough

1. Check your [volume](#) setting.
2. Look for  in your [status bar](#). If you see it:
  - Open [quick settings](#) and touch  to turn Do Not Disturb off. Your phone will ring for incoming calls.
  - Make sure your phone is set to screen calls at the appropriate times.
3. Check that your [ringtone](#) is not set to **None**.
4. Is your phone connected with a [Bluetooth device](#)? If so, all audio is routed to the Bluetooth device.
5. If you're using a ringtone that you installed, try using a ringtone that came with the phone.
6. Use [safe mode](#) to see if apps you installed are causing the issue and uninstall as needed. Begin with application types like launchers, task killers, or anti-virus apps.

## Can't answer ringing phone

1. [Clear the data](#) for the Phone app.

Touch & hold , then touch  > **Storage & cache** > **Clear storage**.

## Consistent busy signal

### Outbound calls

1. If you hear a fast busy signal when you call a number, all cellular circuits may be in use, preventing the call from going through. Try calling again later.
2. If you hear a fast busy signal every time you call the same number, your number may be blocked by an app. Try calling from a different number.

### Incoming calls

If you have a signal and can make calls, but callers tell you they consistently get a busy signal when calling you, check that you haven't [blocked their numbers](#).

---

## Problems during calls

After each troubleshooting step, check to see if your issue is fixed.



## Screen goes black

1. If you are using a case, cover or screen protector, remove it and see if it was causing the issue.
2. Check your [proximity sensor](#).  
Dial a call and set the phone on a table (don't use speaker mode), then hold your hand over the proximity sensor to see if you can turn the screen off and on.
3. Use [safe mode](#) to see if apps you installed are causing the issue and uninstall as needed.


## Calls are dropping

1. Check your signal strength:
  - Weak signal from your cellular provider is a common cause of dropped calls. In the [status bar](#), see how many bars your network connection has. If you see only one or two bars, change locations to improve your signal strength, particularly if you are indoors.
2. Turn your phone off and then on again.  
Press and hold the Power button, then touch **Power off**. Then turn it on to establish a new connection with the network.
3. During a call, check that the [proximity sensor](#) works by covering it to confirm that it turns off your screen, preventing accidental touches during calls. You can also download an app to automatically lock your screen during calls; search for "call screen lock" on Play Store.
4. Use [safe mode](#) to see if apps you installed are causing the issue and uninstall as needed.
5. Check if a [software update](#) is available for your phone.
6. [Reset](#) the phone.

## People can't hear me on calls

1. Check that nothing is covering the [microphone](#):
  - If you are using a case, cover or screen protector, remove it and see if it was causing the issue.
  - Check that the protective film that ships with the phone has been removed.
2. Check to see if your phone is using Voice privacy. (This feature is not available on all models.) Turn it off to see if sound quality improves:
  - a. Touch .
  - b. Touch  > **Settings** > **Calls**.
  - c. Turn off **Voice privacy**.
3. If the issue occurs while using the speakerphone or a Bluetooth headset, check your signal strength.  
In the [status bar](#), see how many bars your network connection has. If you see only one or two bars, change locations to improve your signal strength, particularly if you are indoors.
4. Turn your phone off and then on again.  
Press and hold the Power button, then touch **Power off**. Then turn it on to establish a new connection with the network.
5. Check if a [software update](#) is available for your phone.



6. Turn off Voice Match.
  - a. Open the Google app.
  - b. Touch **More** > **Settings** > **Voice** > **Voice Match**.
  - c. Turn **Hey Google** off .

Saying "OK, Google" won't work from all screens, but you can touch the search widget first, then say "OK, Google".

7. Use [safe mode](#) to see if apps you installed are causing the issue and uninstall as needed.
8. [Reset](#) the phone.

## Poor sound quality on calls

Start by checking your [volume](#) setting. You can only adjust the call volume with the Volume buttons while you're on a call.

### Wired headset

1. Make sure the headset is inserted completely into the [headset jack](#).
2. If you are using a case or cover, remove it and re-insert the headset to see if it was interfering.
3. Try a different headset to determine if the issue is with the original headset.

### Earpiece

1. Check that nothing is covering the [microphone](#):
  - If you are using a case, cover or screen protector, remove it and see if it was causing the issue.
  - Check that the protective film that ships with the phone has been removed.
2. While in a call, try using the speakerphone or a wired headset to see if the sound quality improves. If it doesn't, the issue is probably network signal strength instead of hardware.
3. Turn your phone off and then on again.

Press and hold the Power button, then touch **Power off**. Then turn it on to establish a new connection with the network.
4. Use [safe mode](#) to see if apps you installed are causing the issue and uninstall as needed.
5. Check if a [software update](#) is available for your phone.
6. [Reset](#) the phone.

### Bluetooth device


Check battery level of Bluetooth device and phone, and charge if necessary. Bluetooth devices may disconnect or create noise when the phone or Bluetooth battery are low.

## Can't make/receive calls

Try these [troubleshooting steps](#).

## Charging problems

Try these troubleshooting steps. After each step, check to see if your issue is fixed.

1. Make sure the [USB plug](#) fits securely into the phone.
2. If the battery is completely depleted, connect the charger and wait about 10 minutes until it has enough voltage to charge, then press the Power button.
3. If you're charging by connecting to a wall outlet:
  - If the outlet is controlled with a switch, check that it is turned on.
  - Use the charger that came with the phone.
  - Remove any case, to see if it's impeding the charger/port connection.
  - Inspect the charger for damage to the wire or plug. If you see damage, try charging by connecting to your computer with a USB cable.
  - Check the outlet for damage or loose parts. If you see damage, try another outlet.
4. If you're charging by connecting to your computer, check the USB connection:
  - a. Swipe the [status bar](#) down.
  - b. On the USB notification, touch , then touch the notification.
  - c. Touch **No data transfer**.
5. Reboot the phone by holding the Power button for 7-10 seconds.
6. [Reset](#) the phone.

## Phone gets hot while charging

The TurboPower charger, which provides efficient, rapid charging can cause the battery to heat up, which is normal. If the battery reaches 111 degrees (F), the charging rate slows down. Once the battery cools down, the charger begins rapid charging again.


## TurboPower charging not working

When the battery is below 78%, the TurboPower charger charges rapidly. When the battery is at 78% or higher, it charges at regular speed.

If your battery is below 78% and isn't charging rapidly, disconnect your phone from the charger and plug it back in again.

## Charging stops at 80%

[Overcharge protection](#) keeps your battery healthy by limiting its charge to 80% if it's been plugged in for three days.

If you see  in the status bar, to fully charge your phone from 80% just disconnect it from the charger and plug it in again.

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## Battery drains too fast

### Battery life varies

The way you use your phone can really affect how long you can go before recharging your battery. Navigating, playing games, browsing the web, making calls and texting all require energy. So, your battery life may vary day to day, depending on what you're doing.

### If your battery is draining faster than expected

If your battery life seems shorter than usual, a quick and easy step is to reboot your phone, especially if you haven't turned it off in longer than a week.

1. Press and hold the Power button.
2. Touch **Restart**.
3. Plug your phone in and charge it normally.

**Tip:** You can adjust settings to [extend your battery life](#).

---

## Bluetooth problems

### Bluetooth turning on automatically

After each step, check to see if your issue is fixed:

1. When Bluetooth is off, your phone can still scan and automatically connect to a previously paired device. To prevent this, [turn off Bluetooth scanning](#).
2. Some third-party apps that control Bluetooth devices (smart watches, fitness and vehicle monitors, etc.) automatically turn Bluetooth on. If they do, this can prevent you from turning Bluetooth off.

To check if a third-party app you installed is automatically turning Bluetooth on, use [safe mode](#) to identify the problematic app, then uninstall it.


### Can't pair

After each step, check to see if your issue is fixed:

1. First, [check the basics](#).
2. Make sure the phone and Bluetooth device are in discovery mode.
3. Refresh the available devices list:
  - a. Go to [Settings](#) > **Connected devices**.
  - b. Touch **Pair new device**.
4. Check if a [software update](#) is available for your phone.
5. If you're having trouble pairing with your car, see the car manufacturer's instructions for your model.
6. [Reset](#) the phone's connections, then power cycle the phone.

### Can't reconnect previously paired device


Unpair the Bluetooth device, then pair it again:

1. Go to [Settings](#) > **Connected devices**.
2. Next to the paired device, touch  > **FORGET**.
3. [Pair the device](#) again.

### Can't hear music


After each step, check to see if your issue is fixed:

1. First, [check the basics](#).
2. Check that the volume is up on your phone and car or Bluetooth device.
3. Check that other devices paired with your phone aren't playing the music.

4. Check that **Media audio** is on:
  - a. Go to **Settings** > **Connected devices**.
  - b. Next to the paired device, touch .
  - c. Make sure **Media audio** is checked.
5. If the problem is with a car, check the car's instructions.


## Can't make or hear on calls

After each step, check to see if your issue is fixed:

1. Check that other devices paired with your phone aren't getting your calls.
2. Check that **Phone audio** is on:
  - a. Go to **Settings** > **Connected devices**.
  - b. Next to the paired device, touch .
  - c. Make sure **Phone audio** is checked.
3. If the problem is with a car, check the car's instructions.


## Connection drops

After each step, check to see if your issue is fixed:

1. Check battery level on your phone and on the Bluetooth device and charge if needed. Bluetooth devices may disconnect or create noise when the phone or Bluetooth battery is low.
2. Adjust positioning:
  - Make sure you are wearing or positioning the device appropriately.
  - Keep metal objects, such as keys or coins, away from the phone and device to avoid interference.
3. Clear data for this system app:
  - a. Go to **Settings** > **Apps & notifications**, then touch **See all ### apps**.
  - b. Touch  > **Show system**.
  - c. Touch **Bluetooth** > **Storage** > **Clear storage**.

## Paired device can't see contacts

Check that contact sharing is on:

1. Go to **Settings** > **Connected devices**.
2. Next to the paired device, touch .
3. Make sure **Contact sharing** is on.
4. Check and adjust sharing settings on the paired device or in the device's app.

## Fix it: Check the basics

After each step, see if your issue is fixed:

1. Check battery level on your phone and Bluetooth device, and charge if either is low.
2. Keep the phone and Bluetooth device within 30 feet of each other, closer for better performance.
3. On your phone, turn Bluetooth off and then on again.
4. Turn off the Bluetooth device to disconnect it. Then turn it back on to automatically [reconnect](#) with the phone.
5. Power cycle both your phone and the Bluetooth device.

If that doesn't fix it, follow the steps for specific problems in the sections above.

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## Wi-Fi problems

After each troubleshooting step, check to see if the issue is fixed.

### Can't connect to a network

1. When you [enter the password](#) to connect:
  - Get the password from the Wi-Fi router and make sure you enter it correctly on your phone.
  - If the **CONNECT** button is greyed out, the password you entered isn't long enough. Confirm the router's password and re-enter it on your phone.
2. Check if a [software update](#) is available for your phone.
3. Check that the Wi-Fi router firmware is up to date.
4. [Reset](#) the phone's network connections.
5. [Reset](#) the phone.

### Connection drops

After each troubleshooting step, check to see if the issue is fixed.

1. Turn off [Wi-Fi scanning](#).
2. Set Wi-Fi to always remain connected, even when the phone sleeps.
3. Forget the network connection. Then [set up](#) the Wi-Fi connection again.
4. Check if a [software update](#) is available for your phone.
5. Restart your wireless router by unplugging it from the power outlet for about 30 seconds and then plugging it back in. Once the wireless router is running again, try to reconnect.
6. On a computer, log into your router and try adjusting one or more of these router settings:
  - If the router has multiple bands, disable the lower band.
  - Change the encryption/security setting of the SSID from WPA-password to WPA-PSK.
  - Don't use automatic channel selection. Instead, assign a fixed channel, such as Channel 6.
7. [Reset](#) the phone's connections.

## Hotspot problems

If you can't connect a computer or tablet to your phone's Wi-Fi [hotspot](#):

1. The cellular network for your phone may not be in range. Check the signal icon in your status bar to ensure you have strong connection. If not, try these [troubleshooting steps](#).
2. Re-enter the password on the device to match the [hotspot password](#) set up on your phone. Make sure that the encryption type and security settings match on the device and your phone.
3. Disconnect and then reconnect:
  - a. Turn off the connection from your device.
  - b. Turn off the phone's hotspot.
  - c. Restart your device.
  - d. Wait for 1 minute, then turn on and [enable](#) the hotspot on your phone.
  - e. Reconnect the device.

If you've connected a computer or tablet but can't access certain web sites:

1. Power cycle your computer or tablet.
  2. Make sure the browser version is up to date.
- 

## Can't transfer files or connect to computer

If you're having problems using a [USB connection](#) to connect your phone to your computer, try these troubleshooting steps.

### Check your computer

#### Windows computer

1. Check your computer's settings to make sure that Windows automatically detects new hardware.
2. Restart your computer.

#### Mac computer

- Check that your computer is running Mac OS X 10.5 and up.
- Check that your computer has [Android File Transfer](#) installed and open.
- Restart your computer.

### Check your phone

1. Check if a [software update](#) is available for your phone.
2. Hold down your phone's Power button for 5-7 seconds, or up to 30 seconds.

### Check your USB connection

1. Try a different USB cable. Not all USB cables can transfer files.
2. To test the USB port on your phone, connect your phone to a different computer.

3. To test the USB port on your computer, connect a different device to your computer.



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## Forgot unlock code

If you forgot your PIN, pattern, or password for unlocking your screen, you need to erase your phone, set it up again, and set a [new screen lock](#).


1. Make sure you know your Gmail address and password, which you'll need when setting up the phone. If you've forgotten them, use Google's [website](#) to retrieve them.
  2. Perform an [external reset](#) of your phone.
- 

## Can't sign in to Google

If you've forgotten the Gmail address and password for your Google account:

1. Visit [Google's website](#) to reset the password.
  2. On a computer, log in to Gmail and confirm that the new password works.
  3. Wait 24 hours after changing your password before resetting your device. For security, you can't use an account to set up a phone after reset if that password changed within 24 hours.
- 

## Account sync issues

If your account is having problems syncing, you may see a message or an  icon.

In most cases, these issues are temporary and your account will sync again after a few minutes. If you keep having sync issues, try the solutions below.

### Sync account manually


1. Go to [Settings](#) > **Accounts**.
2. Touch the account to sync.
3. Touch **Account sync**.


If your phone syncs, your issue is fixed. If not, try the troubleshooting solutions below.

### Basic troubleshooting

After each troubleshooting step, try manually syncing to test if sync works.

1. Check that auto-sync is on.
  - a. Go to [Settings](#) > **Accounts**.
  - b. Touch the account.

 by the account name means that some or all of the account's information is configured to auto-sync.

 by the account name means that the account will not auto-sync.

2. Make sure your Internet connection works.

For sync to work, you need an Internet connection. To test if your connection is working, open a browser and load a website. If the website doesn't load, get help connecting to [Wi-Fi](#) or to [cellular data](#).

3. Check if you have account issues.



For sync to work, you need to be able to sign in to your Google account. Make sure that you can sign in to your account in other ways and on another device. For example, try checking your Gmail with your computer's browser.

- If you can sign in, the issue is with your phone. You can move on to the next solution.
- If you can't sign in, [your account may have an issue](#).

4. Check if a [software update](#) is available for your phone.

## Advanced troubleshooting

After each troubleshooting step, try manually syncing to test if sync works.

1. [Remove and re-add](#) your account.
2. Clear cache and data for the Contacts app.
  - a. If you've saved any contacts since you last synced, back them up. Open the **Contacts** app and touch  > **Settings** > **Export**. Then export to a VCF file and email the file to yourself.
  - b. Clear the [cache and data](#) for the Contacts app.
  - c. Download the VCF file that you emailed to yourself, then import those contacts (**Contacts** >  > **Settings** > **Import**).

## App or widget problems

### App or widget missing from home screen

If a widget disappeared from your [home screen](#), then [add the widget](#) by touching & holding an empty spot on your home screen.

If an app disappeared from your home screen, the shortcut for opening the app was removed and you just need to [add a shortcut](#).

If an app disappeared from your list of all apps, you need to [reinstall](#) it.

### App crashes, won't open, or isn't working

After each step, check to see if the issue is fixed:

1. Turn your phone off and then on again.  
Press and hold the Power button, then touch **Power off**.
2. Check that you have not disabled permissions for the app. If any permissions are turned off, [turn them on](#) and try using the app again.
3. [Update the app](#).
4. [Force stop the app](#). This completely shuts down the app, including any background services that may be causing your issue.
5. [Clear the app's cache](#). This frees up space by removing temporary files.
6. [Clear the app's data](#). This erases all data saved in this app.
7. Contact the app's developer.
  - a. [Open](#) the Play Store app.
  - b. Touch **≡ > My apps & games**.
  - c. Touch the app and swipe down to see contact information.
8. If all else fails, [delete the app](#).

**Tip:** To figure out which third-party app is causing performance problems, [use safe mode](#).

### App is slow to open

If you experience a lag when opening an app, [turn on Adaptive performance](#).




### App disabled in safe mode

If apps are disabled because you're in [safe mode](#), you can't use them until you exit safe mode.

To exit safe mode, turn your phone off and then on again.

## Problems with app you installed

After each step, check to see if the issue is fixed:

1. Check for [updates](#) to the app.
  2. If you can open the app, touch  or  > **Help** and look for troubleshooting information.
  3. [Clear the app's cache](#).
  4. Go to the developer's website for support.
    - a. [Open](#) the Play Store app.
    - b. Touch  > **My apps & games**.
    - c. Touch the app and swipe down to see a link to the website.
- 

## Camera problems

### Photo looks blurry

Wipe the lens clean with a soft, dry cloth and retake the photo.

If new photos still look blurry:

- Increase resolution (photo size) in the Camera app. A smaller photo size results in lower image quality.
- Avoid zooming when taking a photo. Pixelation always occurs when you zoom a digital photo. If you use zoom during the shot itself, pixelation will be more evident.
- If you're indoors and taking a panoramic photo, switch to regular mode. Panorama works best for outdoor shots; the algorithm that stitches the images together isn't optimized for indoor, up-close shots.

### Accidentally deleted photos

You can try to [recover](#) recently deleted photos.

If recovered, be sure to [back up your photos](#) to the cloud.

### Can't delete photo


If a photo or video you deleted comes back, check if it's on your SD card. To delete it, use the Files app. (If you don't have this app, [download](#) a file manager app and use it to delete the photo from your card.)

Or, [remove](#) your card from the phone and use a computer to delete photos from the card.

## WhatsApp camera issues

If you installed WhatsApp and have problems taking photos or videos with it:

1. Check for [updates](#) to the app.
2. [Clear the app's cache](#).

3. If the problem continues, open WhatsApp, touch  > **Settings** > **Help**, and search for information about your issue.

## Error: Please restart camera

After each troubleshooting step, check to see if the issue is fixed:

1. Turn your phone off and then on again.
2. Clear the [cache](#) for the Camera app.
3. Check for [updates](#) to your Camera app.
4. Use [safe mode](#) to see if apps you installed are causing the issue and uninstall as needed.  
If the camera works correctly in safe mode, a third-party app is probably causing the issue.
5. If you're storing photos/videos on your SD card, [remove](#) the card and see if you can take photos without getting the error. If so, replace the SD card with a new card. Make sure the new card is certified A1 and has a fast write speed.

## Error: Camera busy


This error can occur if you use the camera in one app and then switch to another app that requires permission to access the camera.

After each troubleshooting step, check to see if the issue is fixed:

1. Turn your phone off and then on again.
2. Check which apps have [permission](#) to access the camera.  
**Settings** > **Apps & notifications** > **Permission manager** > **Camera**  
Review the list of the apps on your phone that request camera access and remove access for apps that look suspicious or that you don't use.
3. Clear the [cache and data](#) for the Camera app.

## Error: Trash is full

If you're getting messages about the trash being full:

1. [Open](#) the **Photos** app.
2. Touch **Library** > **Trash**.
3. Touch  > **Empty trash**.
4. Touch **Empty trash** to confirm the deletion.

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## Messaging problems

If you're having problems [sending or receiving](#) messages, try the following:

1. Check for [updates](#) to your messaging app.
2. Check if a [software update](#) is available for your phone.
3. Turn your phone off and then on again.

4. If the problem persists, follow the steps below for specific problems. After each troubleshooting step, check to see if your issue is fixed.

## Red ! on text message

If you see , your text message was not sent.

1. Check your signal strength:
  - Weak signal from your cellular provider is a common cause of unsent messages. In the [status bar](#), see how many bars your network connection has. If you see only one or two bars, change locations to improve your signal strength, particularly if you are indoors.
2. Open the conversation and [resend](#) the message.

## Can't hear notifications

1. Adjust your [notification settings](#).
2. If you're using a 3rd party launcher, try [switching back](#) to the Moto launcher. If this fixes the issue, then find an alternative launcher to use.




## Can't send or receive messages

1. Change your preferred network to **Global**.
2. If you recently switched from iPhone and are having trouble sending messages to or receiving them from an iPhone, your phone number may still be associated with iMessage. You need to [deregister your account](#).
3. Contact your carrier.

## Can't send or receive pictures or videos

Your data plan must support MMS (multimedia messaging) and [cellular data must be on](#).

## Messages app stopped

1. Check that you have not disabled permissions for the Messages app. If any permissions are turned off, [turn them on](#) and try using the app again.
2. [Force stop the app](#). This completely shuts down the app, including any background services that may be causing your issue.
3. Uninstall any recent app updates.  
Touch & hold , then touch  **App info** >  **Uninstall updates**.
4. [Clear the app's cache](#). This frees up space by removing temporary files.
5. [Reset](#) the phone.

## Keyboard not working



If your keyboard has problems, like a missing spacebar:

1. Check for [updates](#) to your keyboard app.
2. Turn your phone off and then on again.

3. Clear the [cache](#) for the keyboard app.

## Problems with Facebook, WhatsApp, other apps

If you're having problems with messaging apps that you installed:

1. Check for [updates](#) to the app.
  2. If you can open the app, touch  or  > **Help** and look for troubleshooting information.
  3. Turn your phone off and then on again.
  4. [Clear the app's cache.](#)
- 

## Gmail problems

For help with Gmail, read [Google's troubleshooting information](#).

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## Play Store problems

For help with Play Store, read [Google's troubleshooting information](#).

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## Update Android software

For best performance, keep your phone updated with the latest available Android software.

### Check Android version number

To check what version of Android your phone is running:

1. Go to **Settings** > **About phone** > **Android version**.
2. The number displayed is your phone's Android version.

### Install Android software updates

Your phone notifies you if an Android software update is available.

To manually check for updates, go to **Settings** > **System** > **Advanced** > **System updates**.

If an upgrade is available, follow the onscreen instructions to install it.

#### Tips:

- To save data charges, use a [Wi-Fi connection](#) to download software updates.
- For safety reasons, your phone may download security updates (not OS upgrades) automatically over your mobile network if Wi-Fi is not available within a few days after you receive a notification that a security update is available. In this case, data charges may apply depending on the carrier.

You can't downgrade to a previous software version after installing an update.

### Check if and when updates are available

Types of updates:

- **Security updates** contain fixes and improvements from Google for your current version of the Android operating system. Motorola provides these updates to most phones on a regular basis.
- **Android OS updates** are new versions of the Android operating system. Motorola provides OS updates from Google to eligible phones as soon as possible.

To see if an OS update will be available for your phone, or if your phone is still eligible for security updates, see the website for your country. Our support agents get their Android update information from here too. If the website doesn't have a update release date for your phone, then we don't know the release date yet.

For Android OS updates, with several phone models, regions, and distribution channels we may have hundreds of software versions to test before releasing an update to your phone. Because dependencies on carriers and other key partners for certifications, independent testing, and requests for changes take more time, all phone owners don't receive updates at the same time, even in the same region.

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## Reset Wi-Fi, cellular data, and Bluetooth

If you're having problems with connections, review this information first:

- [Wi-Fi](#)



- [Bluetooth](#)
- [Cellular data](#)
- [Hotspot](#) (internet sharing)

Then, if you're still experiencing problems, try resetting all network settings:

1. Go to **Settings** > **System** > **Advanced** > **Reset**.
  2. Touch **Reset Wi-Fi, mobile & Bluetooth** > **RESET SETTINGS**.
  3. If you're using dual SIMs, select the SIM to reset for mobile data settings.
  4. Touch **RESET SETTINGS**.
  5. Try to reconnect to Wi-Fi, cellular data, and Bluetooth, or try to share your internet connection again.
- 

## Reset phone

### What a reset does

Resetting your phone erases all data and brings it back to out-of-the-box condition. This data will be erased from the phone:

- [Google account](#)
- Media (music, photos, videos)
- System settings and data
- App settings and data (including text messages)
- Downloaded apps

### Before you reset

1. Back up your data.

If your phone works and you can unlock it:

- If you aren't automatically saving your photos and videos to your Google Photos library, [back them up now](#) or copy them [to a computer](#).
- Make sure that any changes you made to contacts or calendar are [synced](#) to an account.

2. Make sure you have your security information:

- The username for a Google account on your phone. (**Settings** > **Accounts**)
- The password for that Google account. If you've forgotten the password, you can [reset](#) it. Wait 24 hours before resetting the phone if you reset your password.
- If you set a screen lock, make sure you know the PIN, pattern, or password.

To restore your data after resetting, you'll need to enter security information. This shows that you or someone you trust did the reset and helps prevent others from using your phone without permission.

## Reset phone from Settings

To erase all data and reset your phone:

1. Go to [Settings](#) > **System**.
2. Touch **Advanced** > **Reset** > **Factory data reset**.

## Reset phone if you can't open Settings

If you can't open [Settings](#), do an external reset.

1. Charge your battery 30% or more.
2. Turn off the phone.
3. Press and hold the Volume Down button and the Power button at the same time until the phone turns on.
4. Press the Volume Down button until you see Recovery mode.
5. Press the Power button to restart in Recovery mode.
6. If you see an Android robot with a red exclamation mark, press & hold the Power button and, while holding it down, press & release the Volume up button.
7. Use the Volume buttons to scroll to **Wipe data/factory reset**, then press the Power button to select it.
8. Use Volume buttons to scroll to **Factory data reset**, then press the Power button to select it.

Allow several seconds for the reset to complete.

9. Use Volume buttons to scroll to **Reboot system now**, then press the Power button to select it.



Allow several minutes for the reboot to complete. If the phone doesn't finish rebooting, press & hold the Power button until the screen turns dark, then release it to power up normally.

10. If you reset your phone because you suspect a third-party app is causing problems, when you set up the phone again, be sure you don't copy all apps. [Restore](#) one app at a time and use the phone for a while. If the phone has no issues, install the next app and retest.

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## Get more help

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Issue	Where to get help
Billing or cellular network issues	Contact your carrier.
Learn to use an app	Open the app and touch  or  > <b>Help</b> .
Phone issue	Visit <a href="https://mobilesupport.lenovo.com">mobilesupport.lenovo.com</a> for solutions, user forums, live contact options.

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