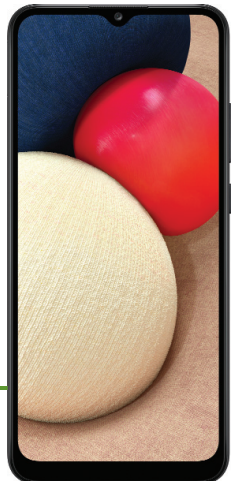




# **SAMSUNG GALAXY A02s**

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## **USER GUIDE**



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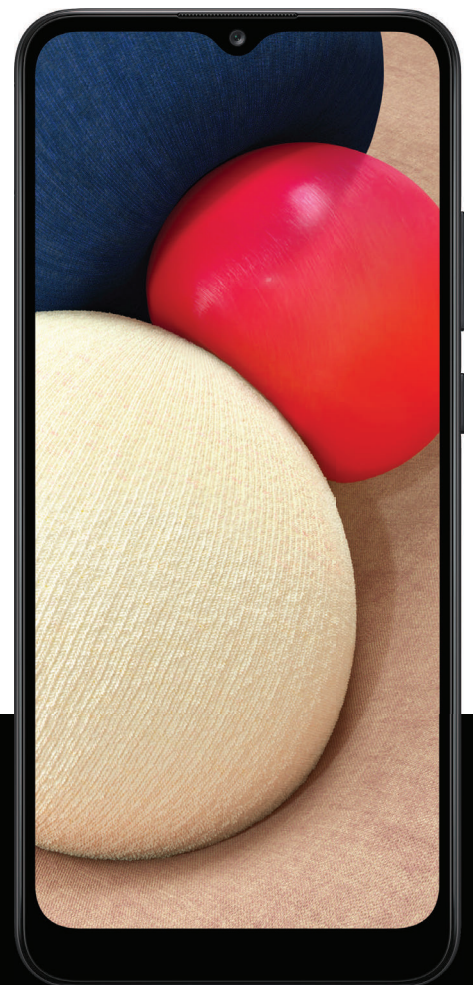
# Getting started

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Galaxy A02s

Set up your device

Start using your device



# Galaxy A02s



Devices and software are constantly evolving — the illustrations you see here are for reference only.

# Set up your device

## Charge the battery

Your device uses a nano-SIM card. A SIM card may be preinstalled, or you may be able to use your previous SIM card. Contact your carrier for more details.

### Install SIM/ microSD card

Place the SIM card and optional microSD™ card (sold separately) into the tray with the gold contacts facing down.



### Charge your device


Before turning on your device, charge it fully.




**NOTE** The use of mobile devices on an aircraft or a ship may be subject to federal and local guidelines and restrictions. Check with appropriate authorities and always follow crew instructions regarding when and how you may use your device.

## Charge the battery

Your device is powered by a rechargeable battery.

 **NOTE** Use only charging devices and batteries (if applicable) that are approved by Samsung. Samsung charging devices and batteries are designed for your device to maximize battery life. Using other charging devices and batteries may void your warranty and may cause damage.



 **TIP** While charging, the device and the charger may become hot and stop charging. This usually does not affect the device's lifespan or performance and is in the device's normal range of operation. Disconnect the charger from the device and wait for the device to cool down. For more information, visit [samsung.com/us/support/answer/ANS00076952](https://samsung.com/us/support/answer/ANS00076952).

## Start using your device

[Turn on your device](#) | [Use the Setup Wizard](#) | [Transfer data from an old device](#) | [Lock or unlock your device](#) | [Accounts](#) | [Set up voicemail](#) | [Navigation](#) | [Navigation bar](#) | [Customize your home screen](#) | [Digital wellbeing and parental controls](#) | [Biometric security](#) | [Multi window](#) | [Enter text](#) | [Emergency mode](#)

## Turn on your device

Use the Side key to turn your device on. Do not use the device if the body is cracked or broken. Use the device only after it has been repaired.

- Press and hold the **Side** key to turn the device on.
  - To turn the device off, press and hold the **Side** key >  **Power off**. Confirm when prompted.
  - To restart your device, press and hold the **Side** key >  **Restart**. Confirm when prompted.

## Use the Setup Wizard


The first time you turn your device on, the Setup Wizard guides you through the basics of setting up your device.

Follow the prompts to choose a default language, connect to a Wi-Fi® network, set up accounts, choose location services, learn about your device's features, and more.

## Transfer data from an old device

Use Smart Switch™ to transfer contacts, photos, music, videos, messages, notes, calendars, and more from your old device. Smart Switch can transfer your data via USB cable, Wi-Fi, or computer.

Visit [samsung.com/us/support/owners/app/smart-switch](https://samsung.com/us/support/owners/app/smart-switch) to learn more.

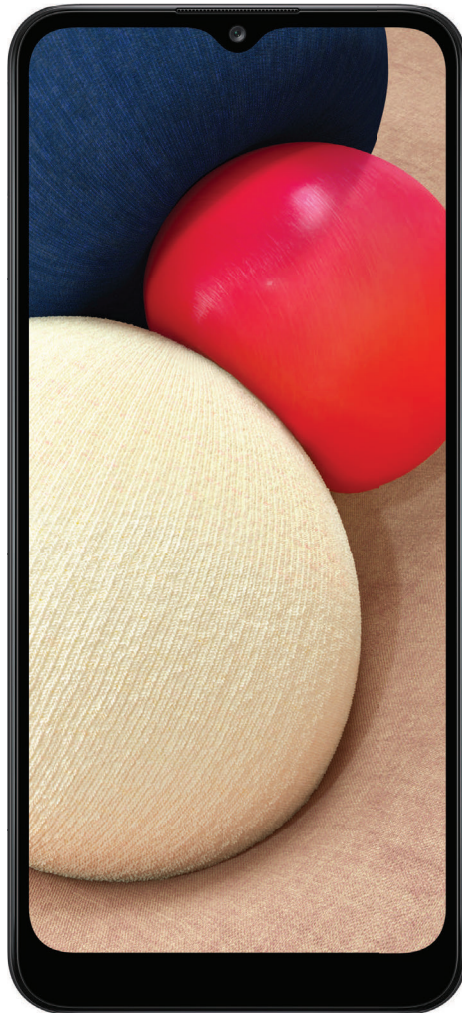
1. From Settings, tap  **Accounts and backup** > **Smart Switch**.
2. Follow the prompts and select the content to transfer.

Visit [samsung.com/smartswitch](https://samsung.com/smartswitch) for more information.



## Lock or unlock your device

Use your device's screen lock features to secure your device. By default, the device locks automatically when the screen times out. For more information about screen locks, see [Lock screen and security](#).



### Side key

Press to lock.

Press to turn on the screen, and then swipe the screen to unlock it.

## Accounts



Set up and manage your accounts.




**TIP** Accounts may support email, calendars, contacts, and other features. Contact your carrier for more information.

## Add a Google Account



Sign in to your Google Account to access your Google Cloud Storage, apps installed from your account, and make full use of your device's Android™ features.

1. From Settings, tap  Accounts and backup > Accounts.
2. Tap  Add account > Google.

 **NOTE** When you sign in to a Google Account, Factory Reset Protection (FRP) is activated. FRP requires your Google Account information when resetting to factory settings. For more information, see [Factory Reset Protection](#).



## Add a Samsung account

Sign in to your Samsung account to access exclusive Samsung content and make full use of Samsung apps.

1. From Settings, tap  Accounts and backup > Accounts.
2. Tap  Add account > Samsung account.




## Add an Outlook account

Sign in to your Outlook® account to view and manage email messages.

1. From Settings, tap  Accounts and backup > Accounts.
2. Tap  Add account > Outlook.

## Set up voicemail

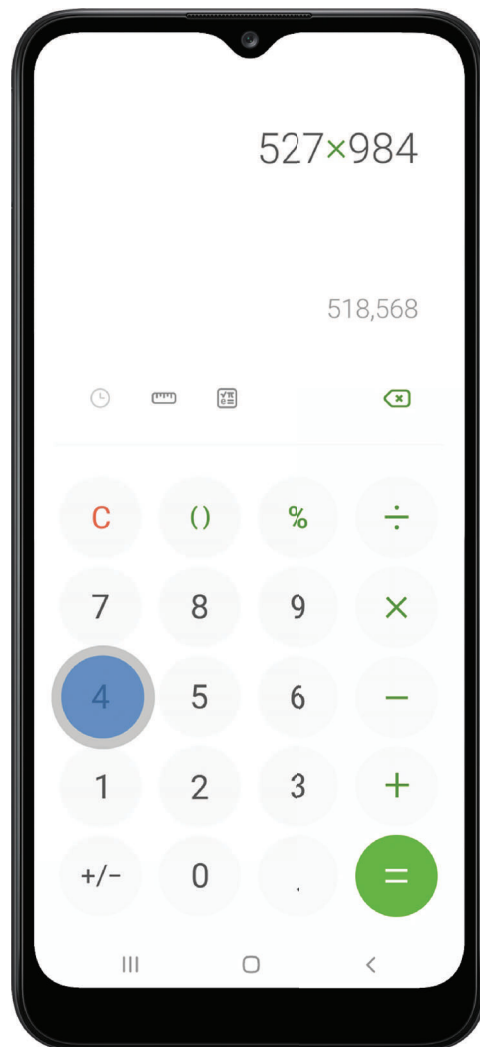
You can set up your voicemail service when you access it for the first time. You can access voicemail through the Phone app. Options vary by carrier.

1. From  Phone, touch and hold the  1 key or tap  Voicemail.
2. Follow the tutorial to create a password, record a greeting, and record your name.

## Navigation

A touch screen responds best to a light touch from the pad of your finger or a capacitive stylus. Using excessive force or a metallic object on the touch screen may damage the surface of the screen and the damage will not be covered by the warranty.

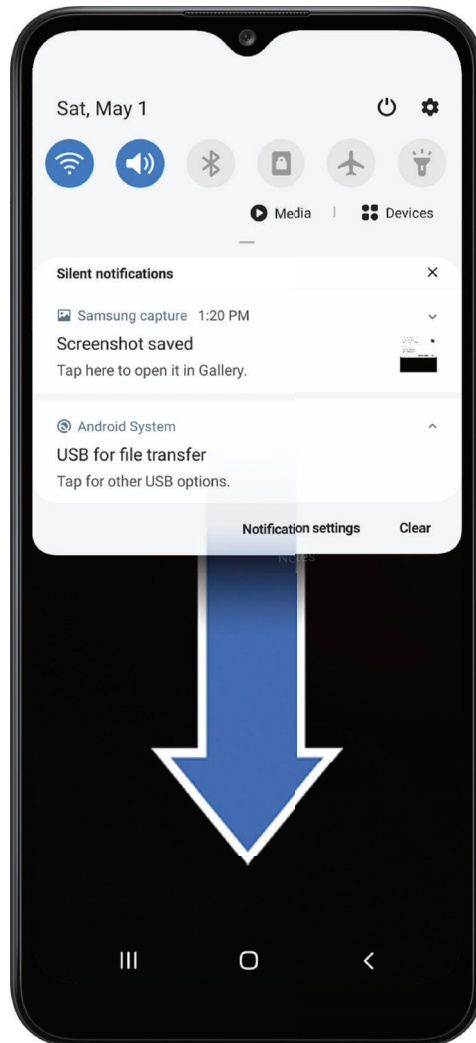
### Tap



Lightly touch items to select or launch them.

- Tap an item to select it.
- Double-tap an image to zoom in or out.

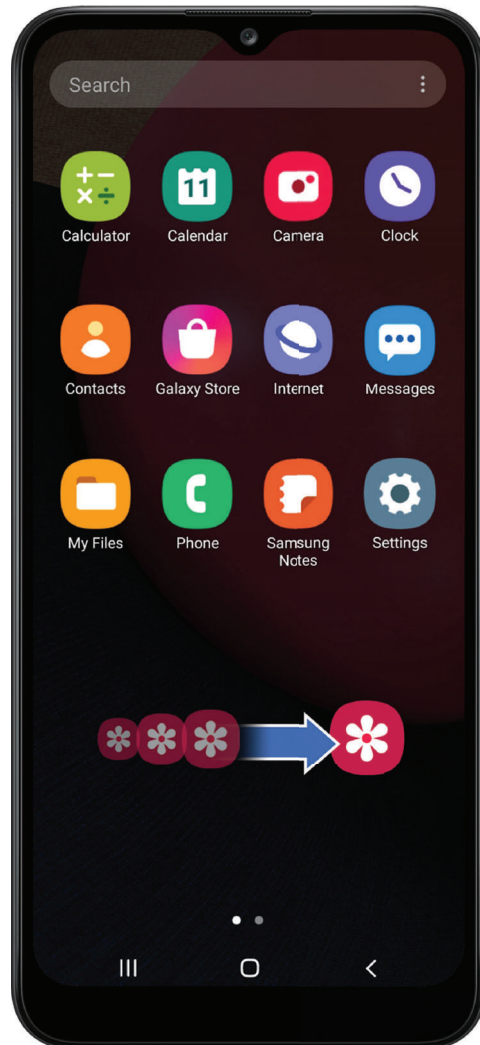
## Swipe



Lightly drag your finger across the screen.

- Swipe the screen to unlock the device.
- Swipe the screen to scroll through the Home screens or menu options.

## Drag and drop



Touch and hold an item, and then move it to a new location.

- Drag an app shortcut to add it to a Home screen.
- Drag a widget to place it in a new location.

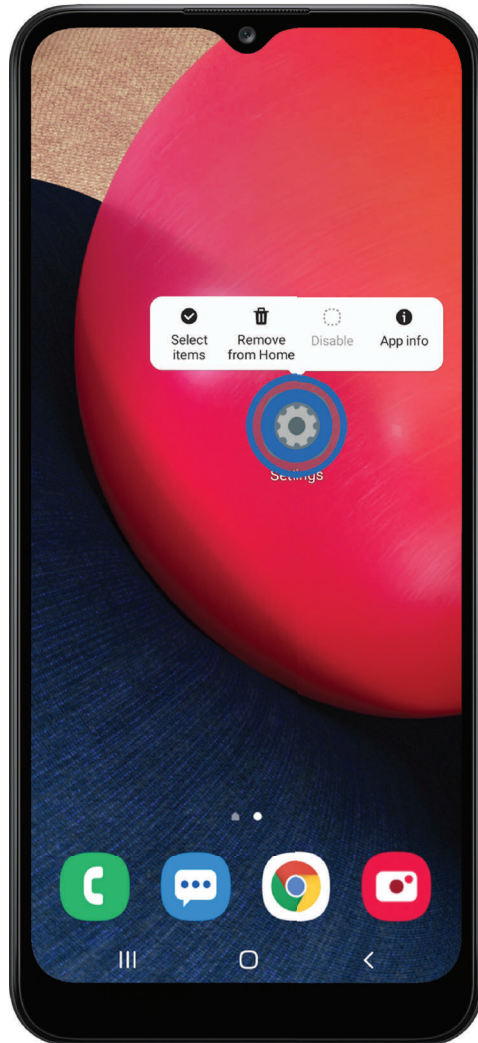
## Zoom in and out



Bring your thumb and forefinger together or apart on the screen to zoom in and out.

- Move your thumb and forefinger together on the screen to zoom out.
- Move your thumb and forefinger apart on the screen to zoom in.

## Touch and hold



Touch and hold items to activate them.

- Touch and hold a field to display a pop-up menu of options.
- Touch and hold a Home screen to customize the Home screen.

## Navigation bar


You may navigate your device by using either the navigation buttons or full screen gestures.






## Navigation buttons

Use buttons along the bottom of the screen for quick navigation.

1. From Settings, tap  **Display** > **Navigation bar** > **Buttons**.
2. Tap an option under **Button order** to choose which side of the screen the Back and Recent apps icons display.

## Navigation gestures

Hide the navigation buttons at the bottom of the screen for an unobstructed screen experience. Instead swipe to navigate your device.

1. From Settings, tap  **Display** > **Navigation bar** > **Swipe gestures** to enable the feature.
2. Tap an option to customize:
  - **More options:** Choose a gesture type and sensitivity.
  - **Gesture hints:** Display lines at the bottom of the screen where each screen gesture is located.
  - **Show button to hide keyboard:** Show an icon on the bottom right corner of the screen to hide the keyboard when the device is in portrait mode.

## Customize your home screen

The Home screen is the starting point for navigating your device. You can place your favorite apps and widgets here, in addition to setting up additional Home screens, removing screens, changing the order of screens, and choosing a main Home screen.


[App icons](#) | [Wallpaper](#) | [Themes](#) | [Icons](#) | [Widgets](#) | [Home screen settings](#) | [Status bar](#) | [Notification panel](#)


### App icons

Use app icons to launch an app from any Home screen.

- From Apps, touch and hold an app icon, and tap  **Add to Home**.


To remove an icon:

- From a Home screen, touch and hold an app icon, and then tap  **Remove from Home**.

 **NOTE** Removing an icon does not delete the app, it just removes the icon from a Home screen.

### Wallpaper



Change the look of the Home and Lock screens by choosing a favorite picture, video, or preloaded wallpaper.

1. From a Home screen, touch and hold the screen, and then tap  **Wallpaper**.
2. Tap one of the following menus for available wallpapers:
  - **My wallpapers:** Choose from featured and downloaded wallpapers.
  - **Gallery:** Choose pictures and videos saved in the Gallery app.
  - **Wallpaper services:** Enable additional features including guide page and Dynamic Lock screen.
  - **Apply Dark mode to Wallpaper:** Enable to apply Dark mode to your wallpaper.
  - **Explore more wallpapers:** Find and download more wallpapers from Galaxy Themes.

3. Tap a picture or video to choose it.
  - If choosing a single picture, choose which screen or screens you want to apply the wallpaper to.
  - Videos and multiple pictures can only be applied to the Lock screen.
  - If choosing videos or pictures from the Gallery, tap on one or more items, and then tap **Done**.
4. Tap **Set on Home screen**, **Set on Lock screen**, or **Set on Lock and Home screens** (depending on which screens are applicable).
  - If applying a picture from the Gallery to both the Home and Lock screens, enable **Sync my edits** if you want any edits made to that wallpaper to be applied to both screens.



## Themes

Set a theme to be applied to your Home and Lock screens, wallpapers, and app icons.

1. From a Home screen, touch and hold the screen.
2. Tap  **Themes**, and tap a theme to preview and download it.
3. Tap  **Navigation drawer** > **My stuff** > **Themes** to see downloaded themes.
4. Tap a theme, and then tap **Apply** to apply the selected theme.


## Icons

Apply different icon sets to replace the default icons.

1. From a Home screen, touch and hold the screen.
2. Tap  **Themes** > **Icons**, and tap an icon set to preview and download it.
3. Tap  **Navigation drawer** > **My stuff** > **Icons** to see downloaded icons.
4. Tap an icon, and then tap **Apply** to apply the selected icon set.




## Widgets

Add widgets to your home screens for quick access to info or apps.

1. From a Home screen, touch and hold the screen.
2. Tap  **Widgets**, and then tap a widget set to open it.
3. Swipe to the widget you want to add, and drag it to the Home screen.


## Customize Widgets

Once you have added a widget, you can customize where it's located and how it functions.

- From a Home screen, touch and hold a widget, and tap an option:
  -  **Remove from Home:** Delete a widget from your screen.
  -  **Widget settings:** Customize the function or appearance of the widget.
  -  **App info:** Review the widget usage, permissions, and more.

## Home screen settings

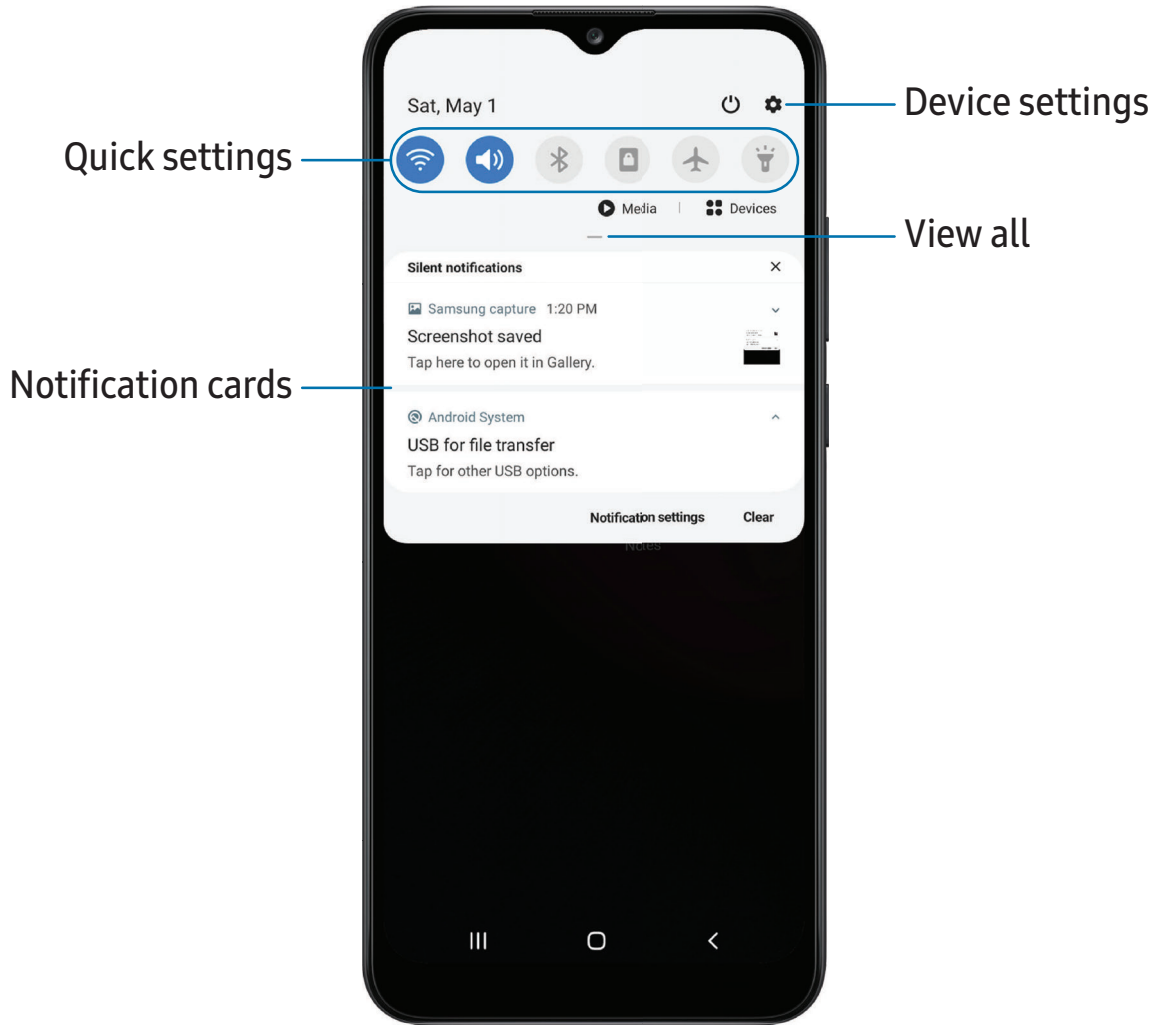
Customize your Home and Apps screens.

1. From a Home screen, touch and hold the screen.
2. Tap  **Home screen settings** to customize:
  - **Home screen layout:** Set your device to have separate Home and Apps screens, or only a Home screen where all apps are located.
  - **Home screen grid:** Choose a layout to determine how icons are arranged on the Home screen.
  - **Apps screen grid:** Choose a layout to determine how icons are arranged on the Apps screen.
  - **Apps button:** Add a button to the Home screen for easy access to the Apps screen.
  - **App icon badges:** Enable to show badges on apps with active notifications. You can also choose the badge style.
  - **Lock Home screen layout:** Prevent items on the Home screen from being removed or repositioned.

- **Add apps to Home screen:** Automatically add newly-downloaded apps to the Home screen.
- **Swipe down for notification panel:** Enable this feature to open the Notification panel by swiping down anywhere on the Home screen.
- **Rotate to landscape mode:** Rotate the Home screen automatically when your device's orientation is changed from portrait to landscape.
- **Hide apps:** Choose apps to hide from the Home and App screens. Return to this screen to restore hidden apps. Hidden apps are still installed and can appear as results in Finder searches.
- **About Home screen:** View version information.


## Notification panel

For quick access to notifications, settings, and more, simply open the Notification panel.







## View the Notification panel

You can access the Notification panel from any screen.

1. Swipe down on the screen to display the Notification panel.
  - To open an item, tap it.
  - To clear a single notification, drag the notification left or right.
  - To clear all notifications, tap **Clear**.
  - To customize notifications, tap **Notification settings**.
2. Drag upward from the bottom of the screen or tap  **Back** to close the Notification panel.

## Quick settings

The Notification panel provides quick access to device functions using Quick settings.

- Swipe down with two fingers from the top of the screen to display Quick settings.
  - Tap  **Finder search** to search the device.
  - Tap  **Power off** for Power off, Emergency mode, and Restart options.
  - Tap  **Open settings** to quickly access the device's settings menu.
  - Tap  **More options** to reorder Quick settings or to change the button layout.
  - Tap a quick setting icon to turn it on or off.
  - Touch and hold a quick setting icon to open the setting.
  - Drag the **Brightness slider** to adjust the screen brightness.

## Status bar

The Status bar provides device information on the right side and notification alerts on the left.

### Status icons



Battery full



Charging



Mute



Vibrate



Airplane mode



Bluetooth active



Location active



Alarm

### Notification icons



Missed calls



Call in progress



New message



Voicemail



New email



Download



Upload



App update


Configure display options for the Status bar.

- From Quick settings, tap **More options** > **Status bar** for the following options:
  - **Show notification icons:** Choose how to display notification icons on the Status bar.
  - **Show battery percentage:** Display the battery charge percentage next to the battery icon on the Status bar.



## Digital wellbeing and parental controls

You can monitor and manage your digital habits by getting a daily view of how frequently you use apps, how many notifications you receive, and how often you check your device. You can also set your device to help you wind down before going to bed.

- From Settings, tap  **Digital Wellbeing and parental controls** for the following features:
  - Tap the Dashboard to view the following:
    - **Screen time:** View how long an app has been opened and used each day.
    - **Notifications received:** View how many notifications have been received from an app each day.
    - **Unlocks:** View how many times an app has been opened each day.

### Your goals

- **Screen time:** Set a screen time goal and view your daily average.
- **Unlocks:** Set a daily goal for how many times you unlock your device and view your daily average.
- **App timers:** Set a daily limit for how long you use each app.

### Ways to disconnect

- **Focus mode:** Limit app usage for set periods of time to avoid distractions from your device.
- **Wind down:** Enable to turn the screen to grayscale and limit notifications before going to bed.

### Check on your kids

- **Parental controls:** Supervise your children's digital life with Google's Family Link app. You can choose apps, set content filters, keep an eye on screen time, and set screen time limits.


## Biometric security

Use biometrics to securely unlock your device and log in to accounts.

### Face recognition


You can enable Face Recognition to unlock your screen. To use your face to unlock your device, you must set a pattern, PIN, or password.

- Face recognition is less secure than Pattern, PIN, or Password. Your device could be unlocked by someone or something that looks like your image.
- Some conditions may affect face recognition, including wearing glasses, hats, beards, or heavy make-up.
- When registering your face, ensure that you are in a well-lit area and the camera lens is clean.

1. From Settings, tap  **Biometrics and security** > **Face recognition**.
2. Follow the prompts to register your face.


### Face recognition management

Customize how face recognition works.

- From Settings, tap  **Biometrics and security** > **Face recognition**.
  - **Remove face data:** Delete existing faces.
  - **Face unlock:** Enable or disable face recognition security.
  - **Stay on Lock screen:** When you unlock your device with face recognition, stay on the Lock screen until you swipe the screen.
  - **Brighten screen:** Increase the screen brightness temporarily so that your face can be recognized in dark conditions.
  - **About unlocking with biometrics:** Learn additional information about securing your device with biometrics.

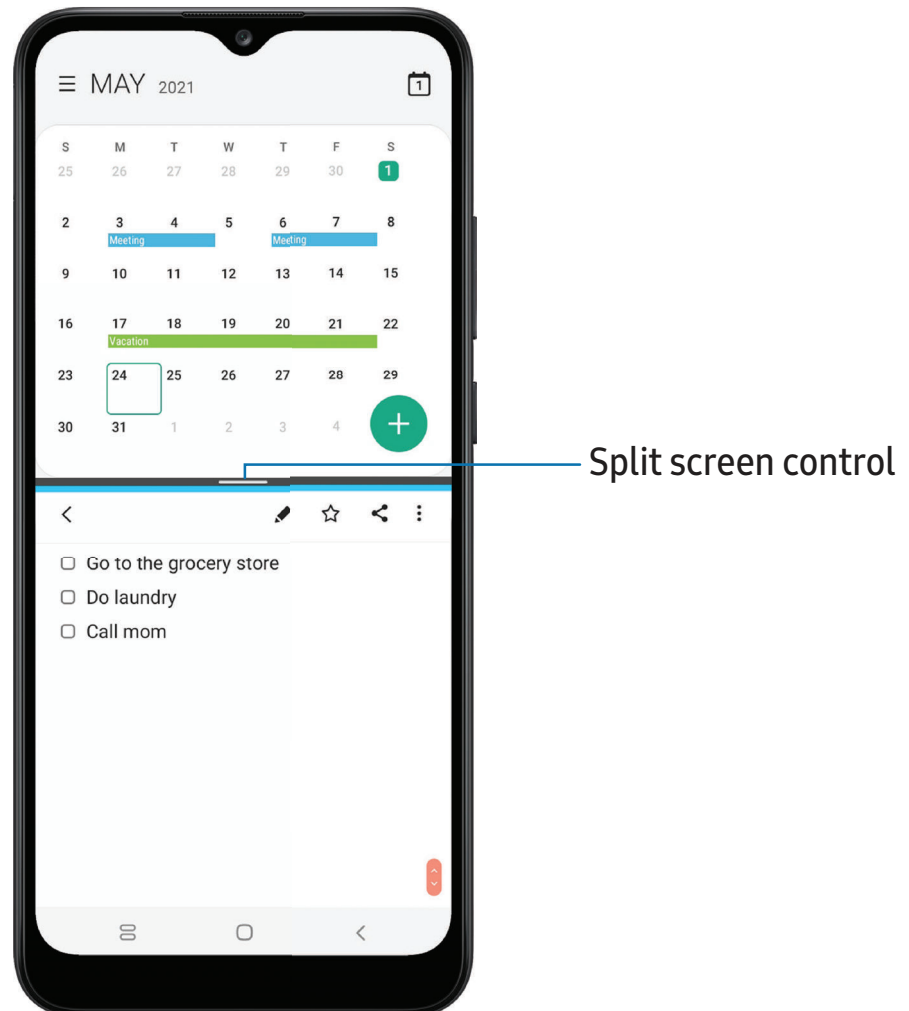
## Biometrics settings

Configure your preferences for biometric security options.

- From Settings, tap  **Biometrics and security** > **Biometrics preferences** for the following:
  - **Screen transition effect:** Show a transition effect when you use biometrics to unlock your device.

## Multi window

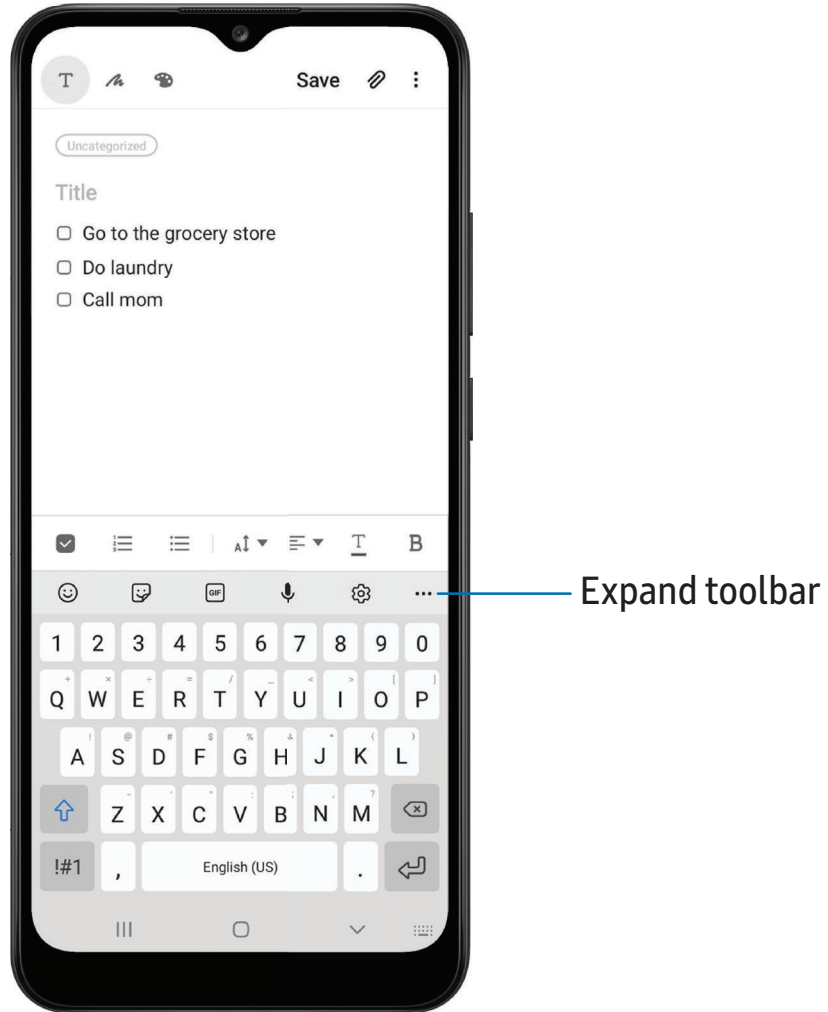
Multitask by using multiple apps at the same time. Apps that support Multi window™ can be displayed together on a split screen. You can switch between the apps and adjust the size of their windows.



1. From any screen, tap **Recent apps**.
2. Tap the app icon, and then tap **Open in split screen view**.
3. Tap an app in the other window to add it to the split screen view.
  - Drag the middle of the window border to adjust the window size.















## Enter text

Text can be entered using a keyboard or your voice.




## Toolbar

The toolbar provides quick access to features of the keyboard. Options may vary by carrier.

- From the Samsung keyboard, tap **••• Expand toolbar** for the following options:
  -  **Emojis:** Insert an emoji.
  -  **Stickers:** Add illustrated stickers.
  -  **GIFs:** Add animated GIFs.
  -  **Voice input:** Use Google Voice™ typing.
  -  **Settings:** Access keyboard settings.
  -  **Search:** Locate specific words or phrases in your conversations.
  -  **Translate:** Type words or sentences in the keyboard to translate them into another language.
  -  **Spotify:** Add music from Spotify™.
  -  **YouTube:** Add videos from YouTube.
  -  **Text editing:** Use an editing panel to help pinpoint text that you want to cut, copy, and paste.
  -  **Modes:** Select a keyboard layout.
  -  **Keyboard size:** Adjust the height and width of the keyboard.
  -  **Bitmoji:** Create your own personal emoji and use it in stickers.
  -  **Mojitok:** Create your own stickers or insert automatically suggested ones.

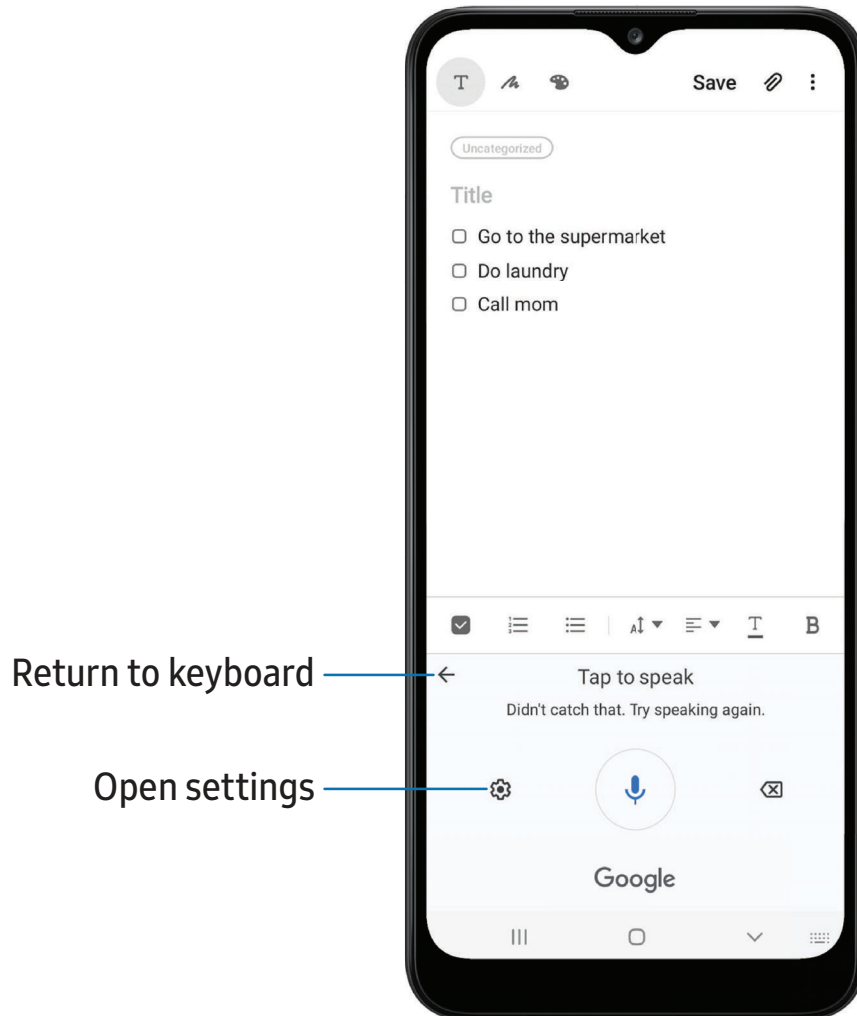
## Configure the Samsung keyboard


Set customized options for the Samsung keyboard.

- From the Samsung keyboard, tap  **Settings** for the following options:
  - **Languages and types:** Set the keyboard type and choose which languages are available on the keyboard.
    - To switch between languages, swipe the Space bar left or right.
  - **Smart typing:** Use predictive text and auto-correction features to prevent common typing mistakes. Type by swiping between letters.
  - **Style and layout:** Customize the appearance and function of the keyboard.
  - **Swipe, touch, and feedback:** Customize gestures and feedback.
  - **Third-party content:** Enable third-party keyboard features.
  - **Reset to default settings:** Return keyboard to original settings and clear personalized data.
  - **About Samsung keyboard:** View version and legal information for the Samsung keyboard.

## Use Google Voice typing

Instead of typing, enter text by speaking.





1. From the Samsung keyboard, tap  Voice input.
2. Tap the screen and speak your text.



## Configure Google Voice typing

Set customized options for Google Voice typing.

1. From the Samsung keyboard, tap  **Voice input**.
2. Tap  **Settings** for options.
  - **Languages:** Choose the language for the keyboard.
  - **Offline speech recognition:** Download languages for offline Google Voice typing.
  - **Hide offensive words:** Hide potentially offensive words with asterisks.

## Emergency mode


Use Emergency mode to access helpful emergency features and conserve your device's power during an emergency situation.

To save battery power, Emergency mode:

- Restricts application usage to only essential applications and those you select.
- Turns off connectivity features and Mobile data when the screen is off.

## Activate Emergency mode

To activate Emergency mode:

1. Press and hold the **Side** key.
2. Tap  **Emergency mode**.
  - When accessing for the first time, read and accept the terms and conditions.
3. Tap **Turn on**.

## Emergency mode features

While in Emergency mode, only the following apps and features are available on the Home screen. Options may vary by carrier.

- **Flashlight:** Use the device's flash as a steady source of light.
- **Emergency alarm:** Sound an audible siren.
- **Share/Message my location:** Send your location information to your emergency contacts.
- **Phone:** Launch the call screen.
- **Internet/Chrome:** Launch the web browser.
- **(+) Add:** Choose additional apps to include on the Emergency mode screen.
- **Estimated battery life:** Displays estimated remaining battery charge time based on current battery charge and usage.
- **Emergency call:** Dial the emergency telephone number (for example, 911). This kind of call can be made even without activated service.
- **More options:**
  - **Turn off Emergency mode:** Disable Emergency mode and return to standard mode.
  - **Remove apps:** Choose apps to remove from the screen.
  - **Emergency contacts:** Manage your medical profile and ICE (In Case of Emergency) group contacts.
  - **Settings:** Configure the available settings. Only a limited number of settings are enabled in Emergency mode.

## Turn off Emergency mode

When emergency mode is turned off, the device returns to standard mode.

- Tap **More options**, and tap **Turn off Emergency mode**.

# Camera and Gallery

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You can capture high-quality pictures and videos using the Camera app. Images and videos are stored in the Gallery, where you can view and edit them.



## Camera


[Navigate the camera screen](#) | [Configure shooting mode](#) | [Live focus](#) | [Record videos](#) | [Camera settings](#)


## Gallery

[View pictures](#) | [Edit pictures](#) | [Play video](#) | [Edit video](#) | [Share pictures and videos](#) | [Delete pictures and videos](#) | [Group similar images](#) | [Take a screenshot](#)

# Camera

You can capture high-quality pictures and videos using the Camera app.

- From Apps, tap  Camera.




 **TIP** Quickly press the Side key twice to open the Camera app.



Devices and software are constantly evolving — the illustrations you see here are for reference only.



## Navigate the camera screen

Take stunning pictures with your device's front and rear cameras.

1. From  **Camera**, set up your shot with the following features:
  - Tap the screen where you want the camera to focus.
    - When you tap the screen, a brightness scale appears. Drag the slider to adjust the brightness.
  - To quickly switch between the front and rear cameras, swipe the screen up or down.
  - To change to a different shooting mode, swipe the screen right or left.
  - To change camera settings, tap  **Settings**.
2. Tap  **Capture**.



## Configure shooting mode

Allow the camera to determine the ideal mode for your pictures or choose from several shooting modes.

- From  **Camera**, swipe the screen right and left to change shooting modes.
  - **Live focus**: Adjust the level of background blur in your photos so the subject stands out.
  - **Photo**: Allow the camera to determine the ideal settings for pictures.
  - **Video**: Allow the camera to determine the ideal settings for videos.
  - **More**: Choose other available shooting modes. Tap  **Add** to drag modes into or out of the shooting modes tray at the bottom of the Camera screen.
    - **Pro**: Manually adjust the ISO sensitivity, exposure value, white balance, and color tone while taking pictures.
    - **Panorama**: Create a linear image by taking pictures in either a horizontal or vertical direction.
    - **Macro**: Capture close-up images of objects from 3-5 cm away.







## Live focus

Add interactive focus effects to your pictures.

1. From  Camera, swipe to Live focus.
2. Tap  Capture.

## Record videos

Record smooth lifelike videos using your device.

1. From  Camera, swipe right or left to change the shooting mode to Video.
2. Tap  Record to begin recording a video.
  - To take a picture while recording, tap  Capture.
  - To temporarily stop recording, tap  Pause. To continue recording, tap  Resume.
3. Tap  Stop when you are finished recording.

## Camera settings

Use the icons on the main camera screen and the settings menu to configure your camera's settings.

- From  Camera, tap  Settings for the following options:

### Intelligent features

- **Smart selfie angle:** Automatically switch to a wide-angle selfie when there are more than two people in the frame.

### Pictures

- **Swipe Shutter button to edge to:** Choose to either take a burst shot or create a GIF when you swipe the shutter to the nearest edge.

### Videos


- **Rear video size:** Choose an aspect ratio and resolution for videos captured with the rear cameras.
- **Front video size:** Choose an aspect ratio and resolution for videos captured with the front camera.

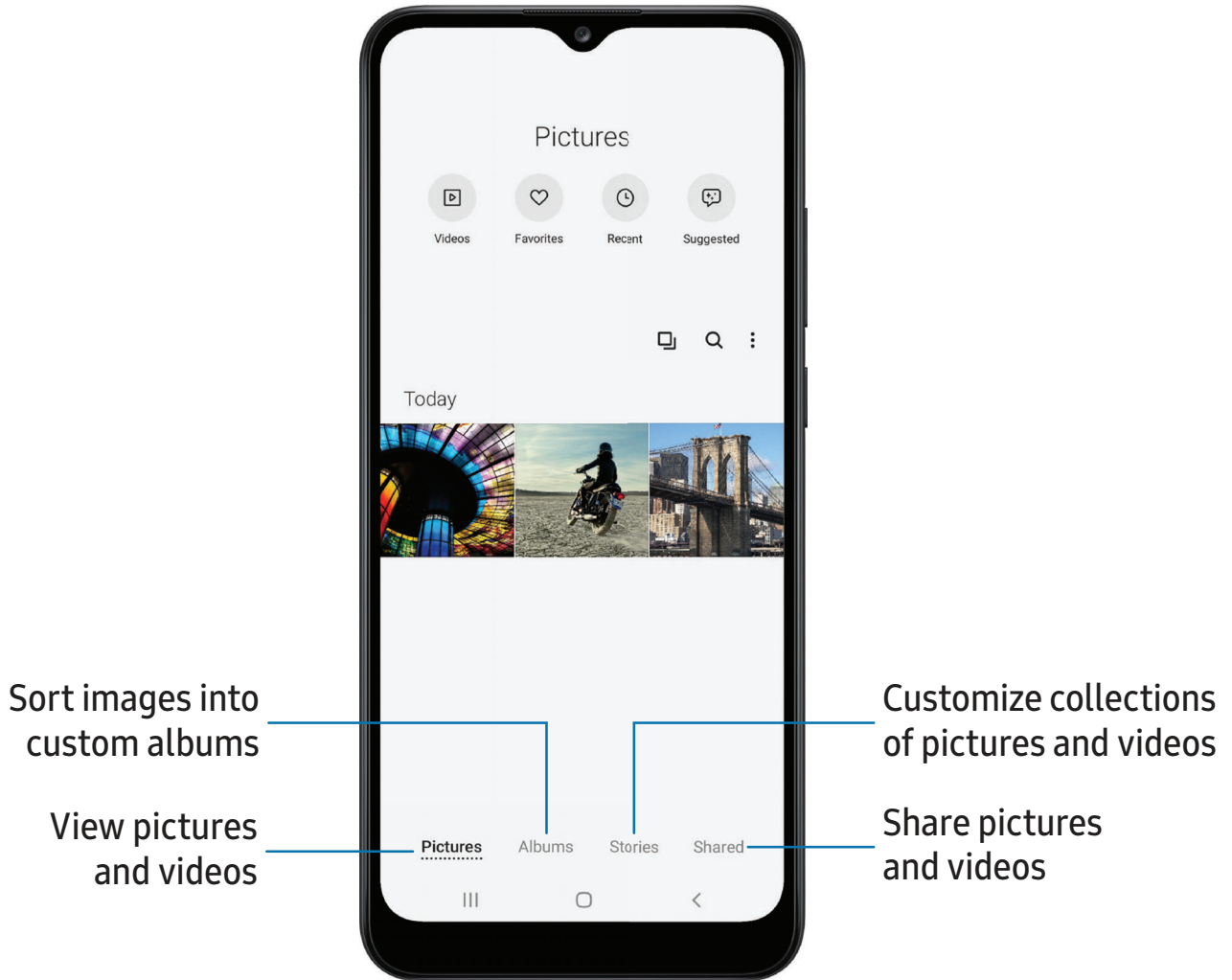
## Useful features

- **Auto HDR:** Capture more detail in the bright and dark areas of your shots.
- **Pictures as previewed:** Save selfies as they appear in the preview without flipping them.
- **Grid lines:** Display viewfinder grid lines to help compose a picture or video.
- **Location tags:** Attach a GPS location tag to your pictures and videos.
- **Shooting methods:**
  - **Press Volume key to:** Use the Volume keys to take pictures, record video, zoom, or control system volume.
  - **Floating shutter button:** Add an extra shutter button that you can move anywhere on the screen.
  - **Show palm:** Hold your hand out with your palm facing the camera to have your picture taken in a few seconds.
- **Settings to keep:** Choose whether to launch Camera with the same shooting mode, selfie angle, and filters as the last time.
- **Storage location:** Select a memory location.
  - A memory card (not included) must be installed to view Storage location.
- **Shutter sound:** Play a tone when taking a picture.
- **Touch vibrations:** Enable vibrations when tapping the screen in the Camera app.
- **Reset settings:** Reset the Camera settings.
- **About Camera:** View app and software information.

# Gallery

Go to the Gallery to look at the all the visual media stored on your device. You can view, edit, and manage pictures and videos.




- From Apps, tap  Gallery.













## View pictures

Pictures stored on your device are viewable in the Gallery app.

1. From  **Gallery**, tap **Pictures**.
2. Tap a picture to view it. Swipe left or right to view other pictures or videos.
  - To mark the picture as a favorite, tap  **Add to Favorites**.
  - To access the following features, tap  **More options**:
    - **Details**: View and edit information about the picture.
    - **Set as wallpaper**: Set the picture as wallpaper.
    - **Print**: Send the picture to a connected printer.





## Edit pictures

Enhance your pictures using the Gallery's editing tools.

1. From  **Gallery**, tap **Pictures**.
2. Tap a picture to view it, and then tap  **Edit** for the following options:
  -  **Transform**: Rotate, flip, crop, or make other changes to the overall appearance of the picture.
  -  **Filters**: Add color effects.
  -  **Tone**: Adjust the brightness, exposure, contrast, and more.
  -  **Stickers**: Overlay illustrated or animated stickers.
  -  **Draw**: Add handwritten text or hand drawn content.
  -  **Text**: Add text to the picture.
3. Tap **Save** when finished.



## Play video

View the videos stored on your device. You can save videos as favorites, and view video details.

1. From  **Gallery**, tap **Pictures**.
2. Tap a video to view it. Swipe left or right to view other pictures or videos.
  - To mark the video as a favorite, tap  **Add to Favorites**. The video is added to Favorites under the Albums tab.
  - To access the following features, tap  **More options**:
    - **Details**: View and edit information about the video.
    - **Set as wallpaper**: Set the video as wallpaper on the Lock screen.
3. Tap  **Play video** to play the video.




## Edit video

Edit videos stored on your device.

1. From  **Gallery**, tap **Pictures**.
2. Tap a video to view it.
3. Tap  **Edit** to cut segments of the video.
4. Tap **Save**, and then confirm when prompted.




## Share pictures and videos

Share pictures and videos from the Gallery app.

1. From  **Gallery**, tap **Pictures**.
2. Tap  **More options** > **Edit** and select the pictures or videos you want to share.
3. Tap  **Share**, and then choose an app or connection to use for sharing your selection. Follow the prompts.




## Delete pictures and videos

Delete pictures and videos stored on your device.

1. From  Gallery, tap  **More options** > **Edit**.
2. Tap pictures and videos to select them.
3. Tap  **Delete**, and confirm when prompted.

## Group similar images

Organize pictures and videos in the Gallery by similarity.

1. From  Gallery, tap  **Group similar images**.
2. Tap  **Ungroup similar images** to return to the default Gallery view.

## Take a screenshot

Capture an image of your screen. Your device will automatically create a Screenshots album in the Gallery app.

- From any screen, press and release the **Side** and **Volume down** keys.

# Apps

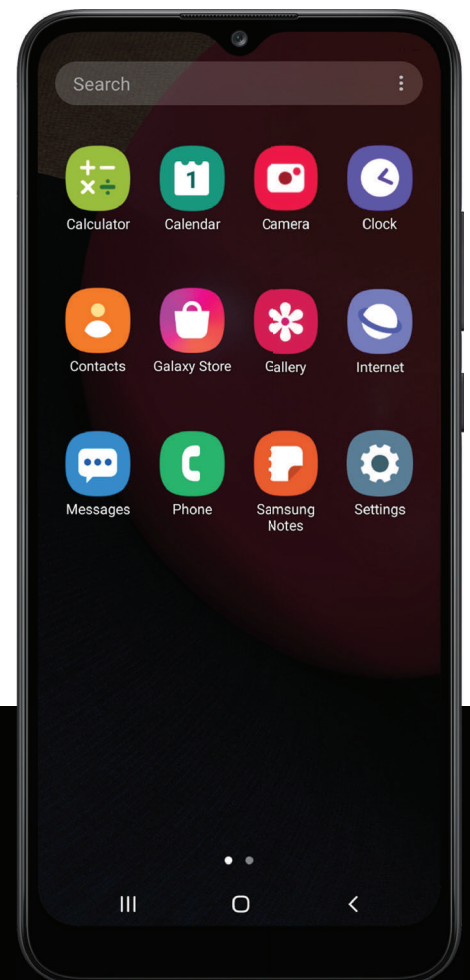
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Using apps

Samsung apps

Google apps

Microsoft apps



# Using apps

[Uninstall or disable apps](#) | [Search for apps](#) | [Sort apps](#) | [Create and use folders](#) | [App settings](#)

The Apps list displays all preloaded and downloaded apps. Apps can be downloaded from Galaxy Store and the Google Play™ store.

- From a Home screen, swipe the screen upward to access the Apps list.

## Uninstall or disable apps


Installed apps can be removed from your device. Some apps that are preloaded (available on your device by default) can only be disabled. Disabled apps are turned off and hidden from the Apps list.

- From Apps, touch and hold an app, and tap **Uninstall/Disable**.

## Search for apps

If you are not sure where to find an app or a setting, you can use the Search feature.

1. From Apps, tap **Search**, and enter a word or words. As you type, matching apps and settings appear as results on the screen.
2. Tap a result to go to that app.

 **TIP** You can customize the search settings by tapping **More options** > **Finder settings**.




## Sort apps

App shortcuts can be listed alphabetically or in your own custom order.

- From Apps, tap **More options** > **Sort** for the following sorting options:
  - **Custom order:** Arrange apps manually.
  - **Alphabetical order:** Sort apps alphabetically.


## Create and use folders

You can make folders to organize App shortcuts on the Apps list.

1. From Apps, touch and hold an app shortcut, and then drag it on top of another app shortcut until it is highlighted.
2. Release the app shortcut to create the folder.
  - **Folder name:** Name the folder.
  -  **Palette:** Change the folder color.
  -  **Add apps:** Place more apps in the folder. Tap apps to select them, and then tap **Done**.
3. Tap  **Back** to close the folder.


## Copy a folder to a Home screen

You can copy a folder to a Home screen.

- From Apps, touch and hold a folder, and tap  **Add to Home**.



## Delete a folder

When you delete a folder, the app shortcuts return to the Apps list.

1. From Apps, touch and hold a folder to delete.
2. Tap  **Delete folder**, and confirm when prompted.

## App settings

Manage your downloaded and preloaded apps.

1. From Settings, tap  **Apps**.
2. Tap  **More options** for the following options:
  - **Sort by:** Sort the apps by size, name, last used, or last updated.
  - **Default apps:** Choose or change apps that are used by default for certain features, like email or browsing the Internet.
  - **Permission manager:** Control which apps have permissions to use certain features of your device.
  - **Show/Hide system apps:** Show or hide system (background) apps.
  - **Special access:** Select which apps can have special access permissions to features on your device.
  - **Reset app preferences:** Reset options that have been changed. Existing app data is not deleted.
3. Tap an app to view and update information about the app. The following options may be displayed:

### Usage

- **Mobile data:** View mobile data usage.
- **Battery:** View battery usage since the last full charge.
- **Storage:** Manage the app's storage usage.
- **Memory:** View memory usage.

### App settings

- **Notifications:** Configure notifications from the app.
- **Permissions:** View permissions granted to the app for access to your device's information.
- **Set as default:** Set the app as a default for a certain category of apps.

### Advanced

- Options vary by app.

## App info options

- **Open:** Launch the app. Not all apps have this option.
- **Uninstall/Disable:** Uninstall or disable the app. Some preloaded apps can only be disabled, not uninstalled.
- **Force stop:** Stop an app that is not working correctly.



# Samsung apps

The following apps may be preloaded or downloaded over-the-air to your device during setup. Apps can be downloaded from Galaxy Store and the Google Play™ store. Options may vary by carrier.

[Galaxy Store](#) | [Samsung Global Goals](#) | [Samsung Members](#) | [Samsung TV Plus](#) | [Calculator](#) | [Calendar](#) | [Clock](#) | [Contacts](#) | [Internet](#) | [Messages](#) | [My Files](#) | [Phone](#) | [Samsung Notes](#)

## Galaxy Store

Find and download premium apps that are exclusive to Galaxy devices. A Samsung account is required to download from Galaxy Store.

## Samsung Global Goals

Learn more about the Global Goals initiative and contribute towards donations that support these causes with ads from this app.

## Samsung Members

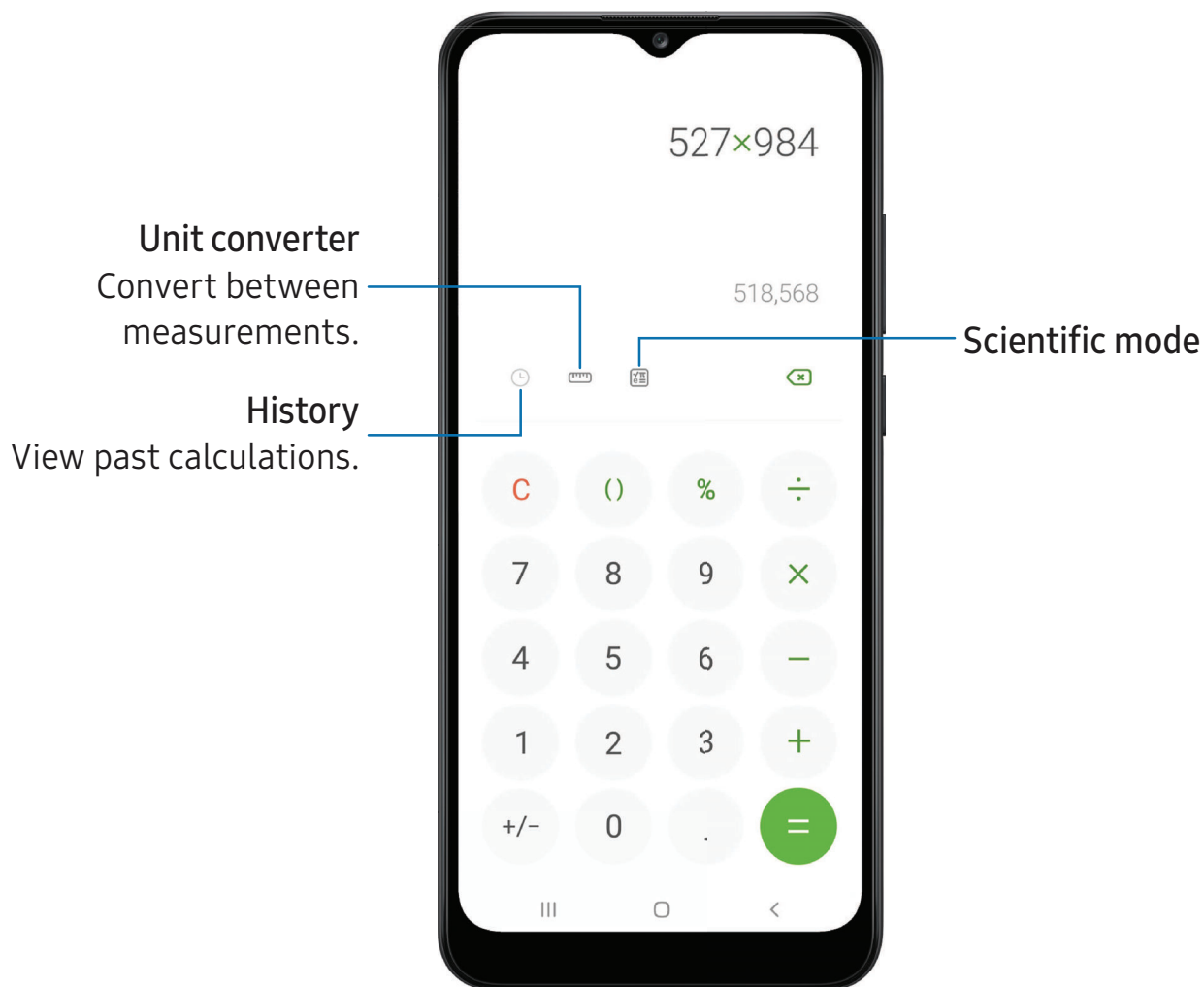
Get more and do more from your Galaxy device. Enjoy DIY support tools and exclusive experiences and content — for Samsung members only. Samsung Members may be preloaded on your device, or you can download and install it from Galaxy Store or the Google Play store.

## Samsung TV Plus

Enjoy free news, entertainment, and more on your Samsung TV and mobile devices.

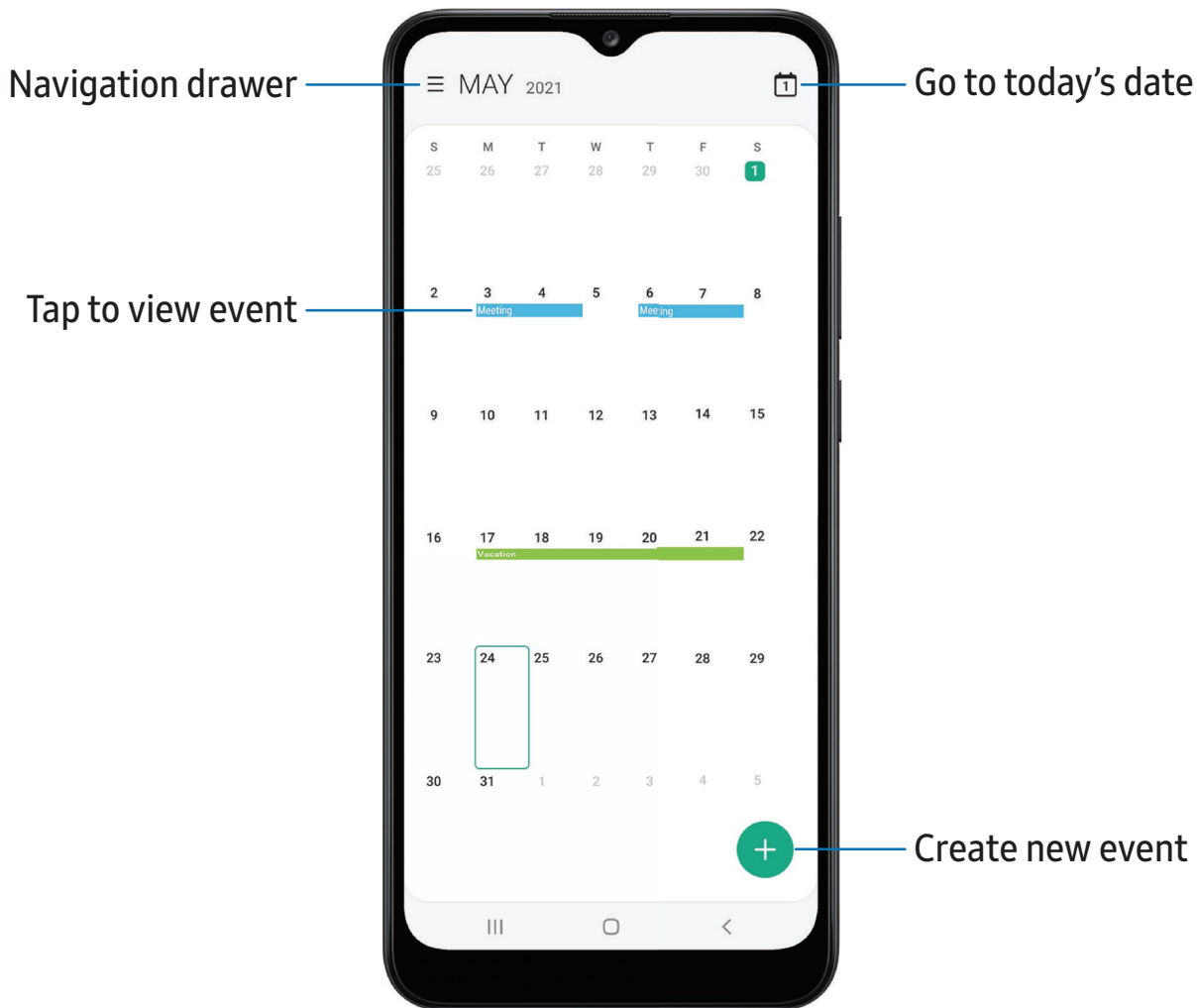
## Calculator

The Calculator app features both basic and scientific math functions, as well as a unit converter.






# Calendar


The Calendar app can be connected to your various online accounts to consolidate all your calendars in one place.



## Add calendars




Add your accounts to the Calendar app.

1. From  **Calendar**, tap  **Navigation drawer**.
2. Tap  **Calendar settings** > **Add new account** and select an account type.
3. Enter your account information and follow the prompts.

 **TIP** Accounts may also support email, contacts, and other features.



## Calendar alert style

Alerts from the Calendar app can be set to different styles.

1. From  **Calendar**, tap  **Navigation drawer** >  **Calendar settings** > **Alert style**. The following options are available:
  - **Light**: Receive a notification and hear a short sound.
  - **Medium**: Get a full screen alert and hear a short sound.
  - **Strong**: Get a full-screen alert and ring sound that persist until dismissed.
2. Depending on the alert style selected above, the following sound options are available:
  - **Ring once sound**: Choose the alert sound for Light or Medium alert styles.
  - **Keep ringing sound**: Choose the alert sound for the Strong alert style.



## Create an event

Use your Calendar to create events.

1. From  **Calendar**, tap  **Add event** to add an event.
2. Enter details for the event, and then tap **Save**.

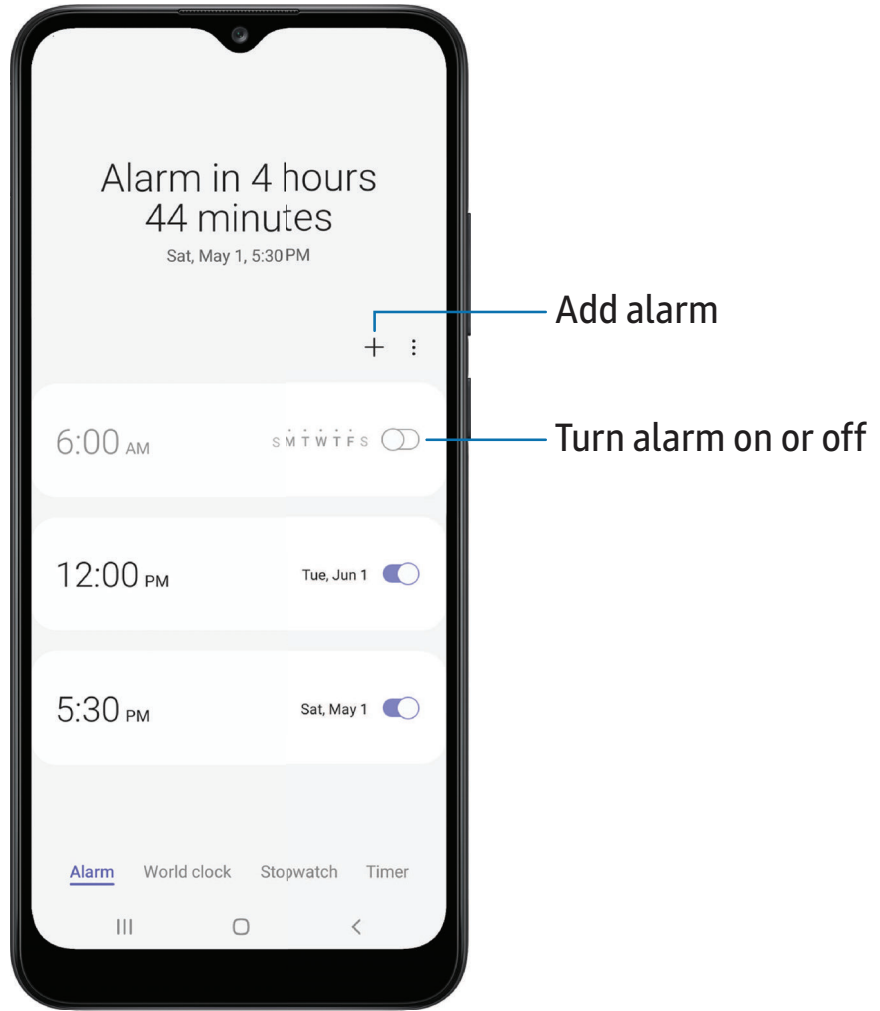
## Delete an event

Delete events from your Calendar.

1. From  **Calendar**, tap an event, and tap again to edit it.
2. Tap  **Delete**, and confirm when prompted.



# Clock

The Clock app offers features for keeping track of time and setting alarms.





## Alarm

Use the Alarm tab to set one-time or recurring alarms and choose options for how to be notified.

1. From  **Clock**, tap  **Add alarm**.
2. Tap the following items to configure an alarm:
  - **Time**: Set a time for the alarm.
  - **Day**: Choose the days for this alarm.
  - **Alarm name**: Enter a name for the alarm.
  - **Alarm sound**: Choose a sound to play for the alarm and drag the slider to set the volume of the alarm.
  - **Vibration**: Choose whether the alarm uses vibration alert.
  - **Snooze**: Allow snoozing. Set interval and repeat values for the alarm while snoozing.
3. Tap **Save** to save the alarm.



## Delete an alarm

You can delete an alarm that you created.

1. From  **Clock**, touch and hold an alarm.
2. Tap  **Delete**.

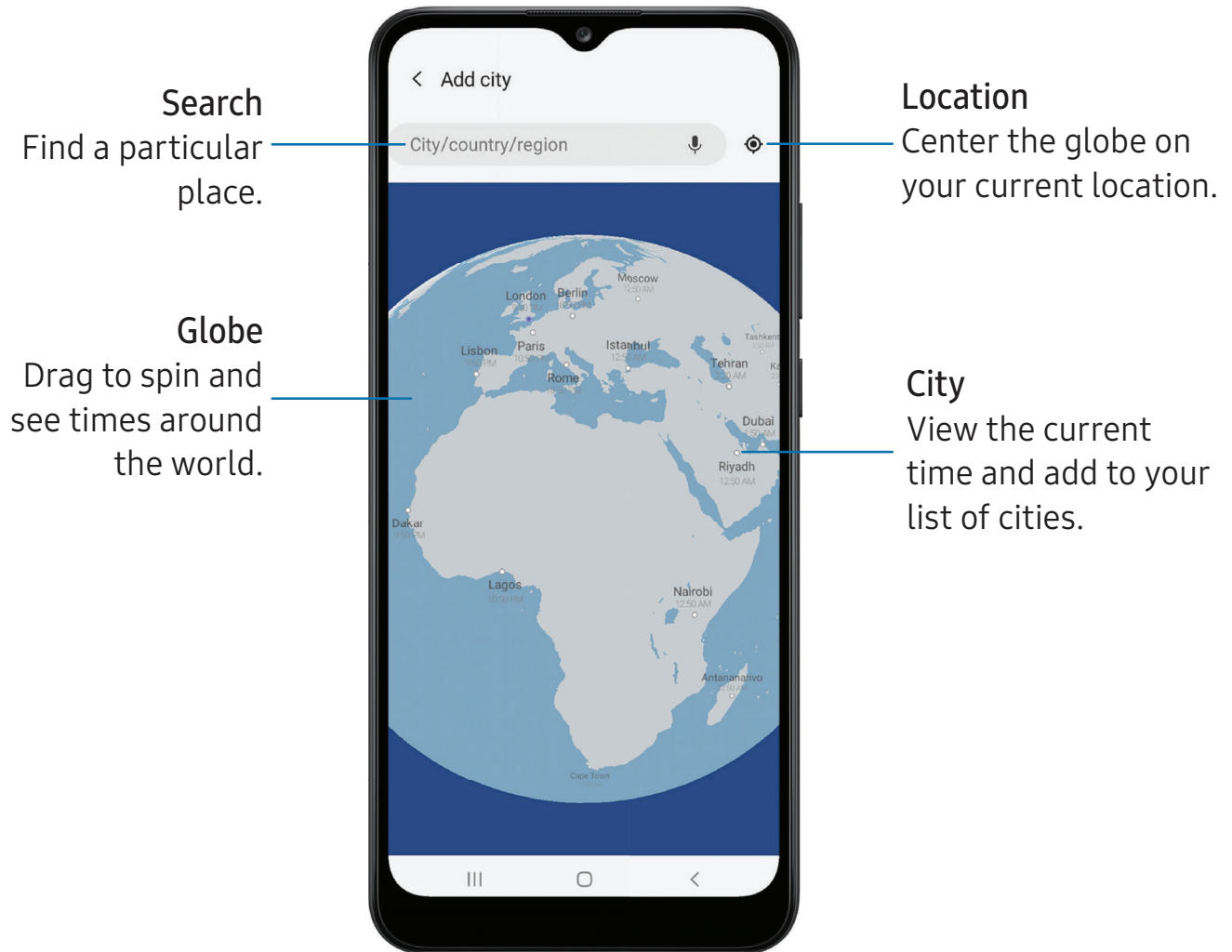
## Alert settings




You can set the device to vibrate for alarms and timers whether the Sound mode is set to Mute or Vibrate.

1. From  **Clock**, tap  **More options** > **Settings**.
2. Tap **Vibrate for alarms and timers** to enable the feature.

## World clock





The World clock lets you keep track of the current time in multiple cities around the globe.



1. From  Clock, tap World clock.
2. Tap  Add city.
3. Tap the city you want, and then tap **Add**.
  - To remove a city, touch and hold it, and tap  **Delete**.



## Time zone converter

Set a time in a city on your World clock list to see what the local times would be in the other listed cities.

1. From  **Clock**, tap **World clock**.
2. Tap  **More options** > **Time zone converter**.
3. Tap  **Menu** to choose a different city.
  - To add a city to the list, tap  **Add city**.
4. Swipe the hours, minutes, and period (**AM** or **PM**) on the clock to set a time. Local times for the other cities listed are automatically updated.
  - To return the clock to the current time, tap **Reset**.


## Weather settings

Show weather information on your World clock.

1. From  **Clock**, tap **World clock**.
2. Tap  **More options** > **Settings** > **Show weather information** to enable or disable weather information.
3. Tap **Unit** to change from Fahrenheit to Celsius.

## Stopwatch


The Stopwatch lets you time events down to a hundredth of a second.

1. From  **Clock**, tap **Stopwatch**.
2. Tap **Start** to begin timing.
  - To keep track of lap times, tap **Lap**.
3. Tap **Stop** to end timing.
  - To continue timing after stopping the clock, tap **Resume**.
  - To reset the Stopwatch to zero, tap **Reset**.






## Timer

Set a countdown timer for up to 99 hours, 59 minutes, and 59 seconds.

1. From  **Clock**, tap **Timer**.
2. Use the keypad and tap **Hours**, **Minutes**, and **Seconds** to set the Timer.
3. Tap **Start** to begin the Timer.
  - To temporarily stop the Timer, tap **Pause**. To continue, tap **Resume**.
  - To stop and reset the Timer, tap **Cancel**.



## Preset timer

Name and save preset timers.

1. From  **Clock**, tap **Timer** >  **Add preset timer**.
2. Configure the countdown time and timer name.
3. Tap **Add** to save the timer.
  - To edit a saved preset timer, tap  **More options** > **Edit preset timers**.



## Timer options

You can customize the Timer options.

1. From  **Clock**, tap **Timer**.
2. Tap  **More options** > **Settings**.
  - **Sound**: Choose a preloaded timer sound or add your own.
  - **Vibration**: Enable to disable vibration for the timer.

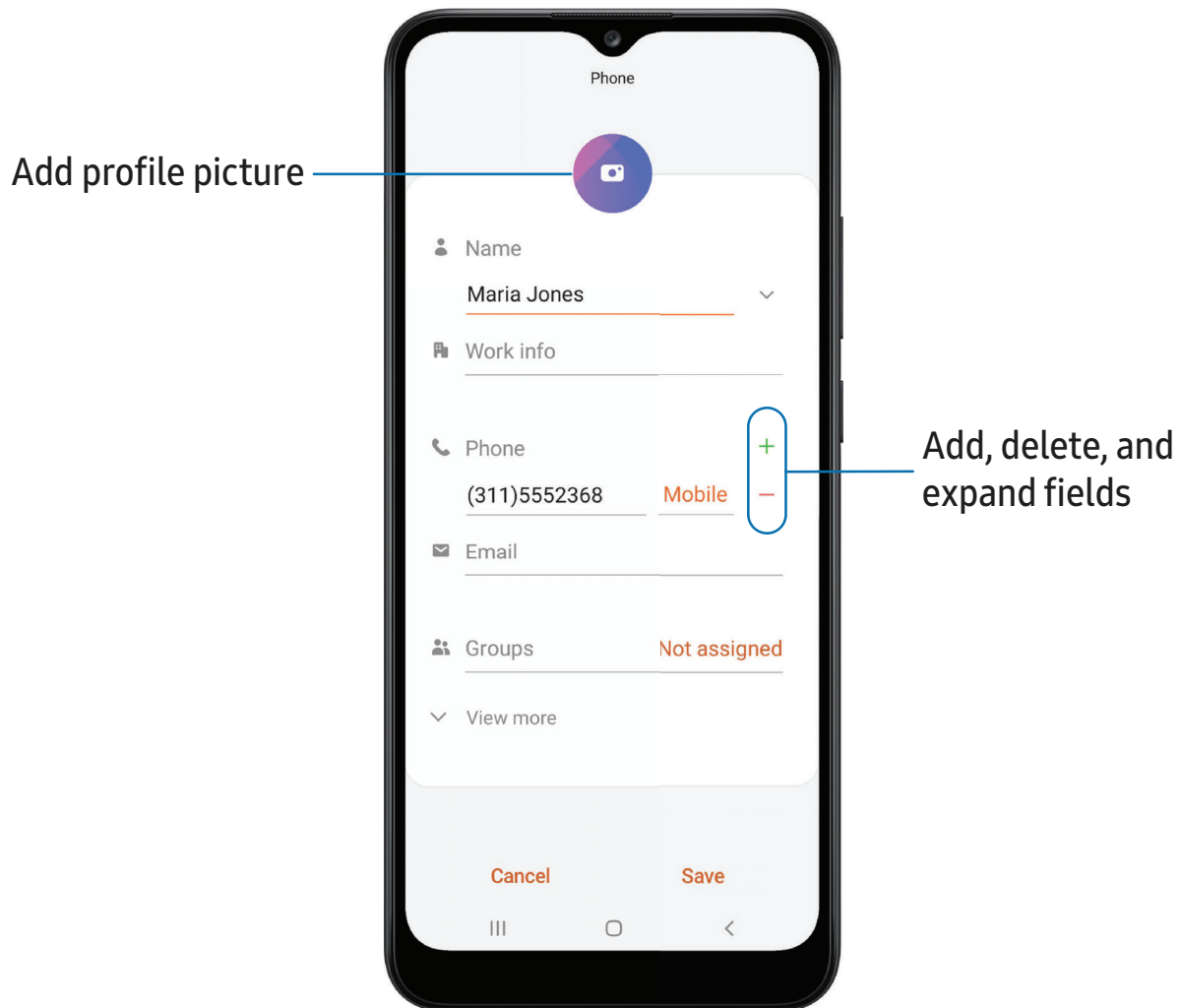
## General settings

View and configure settings for all Clock tools.

- From  **Clock**, tap  **More options** > **Settings**.
  - **Vibrate for alarms and timers**: Enable to always vibrate for alarms and timers if the Sound mode is set to either Mute or Vibrate.
  - **Customization Service**: Sign in to your Samsung account to customize personal content in supported apps.
  - **About Clock**: View the current software version and check for updates.

## Contacts

Store and manage your contacts. You can synchronize with personal accounts added to your device. Accounts may also support email, calendars, and other features.





## Create a contact

1. From  **Contacts**, tap  **Create contact**.
2. Enter details for the contact, and then tap **Save**.




## Edit a contact

When editing a contact, you can tap a field and change or delete information, or you can add more fields to the contact's list of information.

1. From  **Contacts**, tap a contact.
2. Tap  **Edit**.
3. Tap any of the fields to add, change, or delete information.
4. Tap **Save**.



## Favorites



When you mark contacts as favorites, they are grouped at the top of your contact list and easily accessible from other apps.

1. From  **Contacts**, tap a contact.
2. Tap  **Favorites** to mark the contact as a favorite.
  - To remove the contact from Favorites, tap  **Favorites**.

## Share a contact

Share a contact with others by using various sharing methods and services.

1. From  **Contacts**, tap a contact.
2. Tap  **Share**.
3. Tap either **File** or **Text**.
4. Choose a sharing method and follow the prompts.

 **TIP** When viewing a contact, tap  **QR code** to quickly share the information with friends or family. The QR code automatically updates when you change the contact information fields.

## Direct share

Share content directly with your contacts from within any app. Once enabled, your frequent contacts are displayed in the Share window.



- From Settings, tap  **Advanced features** > **Direct share** and tap  to enable the feature.

## Groups

You can use groups to organize your contacts.





### Create a group

Create your own contact groups.

1. From  **Contacts**, tap  **Open drawer** > **Groups**.
2. Tap **Create group**, and then tap fields to enter information about the group:
  - **Group name:** Enter a name for the new group.
  - **Group ringtone:** Customize the sounds for the group.
  - **Add member:** Select contacts to add to the new group, and then tap **Done**.
3. Tap **Save**.




### Add or remove group contacts

Add more contacts to a group, or remove contacts.

- From  **Contacts**, tap  **Open drawer** > **Groups**, and then tap a group.
  - To remove a contact, touch and hold a contact to select it, and then tap  **Remove**.
  - To add a contact, tap  **Edit** > **Add member**, and then tap the contacts you want to add. When finished, tap **Done** > **Save**.




### Send a message to a group

Send a text message to members of a group.

1. From  **Contacts**, tap  **Open drawer** > **Groups**, and then tap a group.
2. Tap  **More options** > **Send message**.




## Send an email to a group

Send an email to members of a group.

1. From  **Contacts**, tap  **Open drawer** > **Groups**, and then tap a group.
2. Tap  **More options** > **Send email**.
3. Tap contacts to select them, or tap the **All** checkbox at the top of the screen to select all, and then tap **Done**.
  - Only group members that have an email address in their records are displayed.
4. Choose an email account and follow the prompts.

## Delete a group

Delete a group you have created.



1. From  **Contacts**, tap  **Open drawer** > **Groups**, and then tap a group.
2. Tap  **More options** > **Delete**.
  - To only delete the group, tap **Group only**.
  - To delete the group and the contacts in the group, tap **Group and members**.

## Manage contacts

You can import or export contacts, as well as link multiple contacts into one contact entry.



### Import contacts

Import contacts to your device as vCard files (VCF).

1. From  **Contacts**, tap  **Open drawer** > **Manage contacts**.
2. Tap **Import or export contacts**.
3. Tap **Import** and follow the prompts.



## Export contacts

Export contacts from your device as vCard files (VCF).

1. From  **Contacts** tap  **Open drawer** > **Manage contacts**.
2. Tap **Import or export contacts**.
3. Tap **Export** and follow the prompts.



## Merge contacts

Consolidate contact information from multiple sources into one contact by linking entries into a single contact.

1. From  **Contacts**, tap  **Open drawer** > **Manage contacts**.
2. Tap **Merge contacts**. Contacts with duplicate phone numbers, email addresses, and names will be listed together.
3. Tap the contacts to select them, and tap **Merge**.

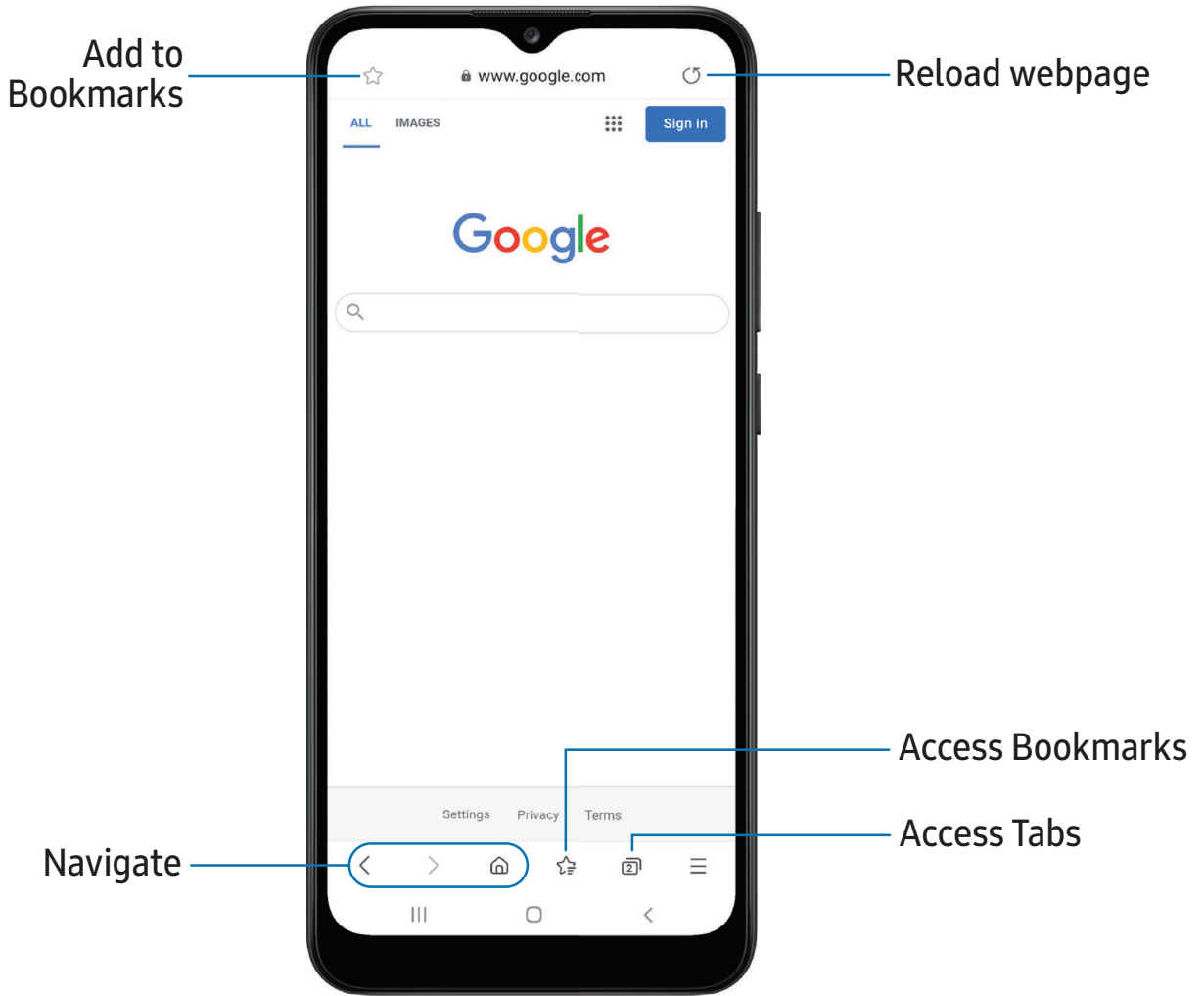
## Delete contacts

Delete a single contact or multiple contacts.

1. From  **Contacts**, touch and hold a contact to select it.
  - You can also tap other contacts to select them for deletion.
2. Tap  **Delete**, and confirm when prompted.

# Internet




Samsung Internet is a simple, fast, and reliable web browser for your device. Experience more secure Web browsing features with Secret Mode, Biometric Web Login, and Contents Blocker.



 **TIP** Visit [samsung.com/us/support/owners/app/samsung-internet](https://samsung.com/us/support/owners/app/samsung-internet) for more information.

## Browser tabs

Use tabs to view multiple web pages at the same time.

- From  Internet, tap  Tabs > New tab.
  - To close a tab, tap  Tabs >  Close tab.



## Create a Bookmark

Bookmark your favorite webpages to quickly access them.

- From  Internet, tap  Add to Bookmark to save the open webpage.



## Open a Bookmark

Quickly launch a web page from the Bookmarks page.

1. From  Internet, tap  Bookmarks.
2. Tap a bookmark entry.



## Save a web page

There are several options to save a webpage in the Samsung Internet app.

- From  Internet, tap  Tools > Add page to for the following options:
  - **Bookmarks:** Add the webpage to your Bookmark list.
  - **Quick access:** View a list of commonly accessed or saved webpages.
  - **Home screen:** Create a shortcut to the webpage on your Home screen.
  - **Saved pages:** Save the webpage content on your device so that you can access it offline.

## View history

To view a list of recently visited web pages:



- From  Internet, tap  Tools > History.

 **TIP** To clear your browsing history, tap  More options > Clear history.



## Share pages


Web pages can be shared with your contacts.

- From  **Internet**, tap  **Tools** > **Share**, and follow the prompts.

## Secret mode




Pages viewed in secret mode are not listed in your browser history or search history, and leave no traces (such as cookies) on your device. Secret tabs are a darker shade than the normal tab windows.

Any downloaded files remain on your device after you close the secret tab.

1. From  **Internet**, tap  **1** **Tabs** > **Turn on secret mode**.
2. Tap **Start** to begin browsing in secret mode.

## Secret mode settings

Require a password or biometric lock to use secret mode.

1. From  **Internet**, tap  **1** **Tabs**.
2. Tap  **More options** > **Secret mode settings** for the following options:
  - **Use password**: Create a password to enable secret mode.
  - **Face**: Use Face recognition to keep Secret mode private.
  - **Reset Secret mode**: Erase your secret mode data and restore defaults.

## Turn off secret mode

Disable secret mode and return to normal browsing.

- From  **Internet**, tap  **1** **Tabs** > **Turn off secret mode**.

## Internet settings

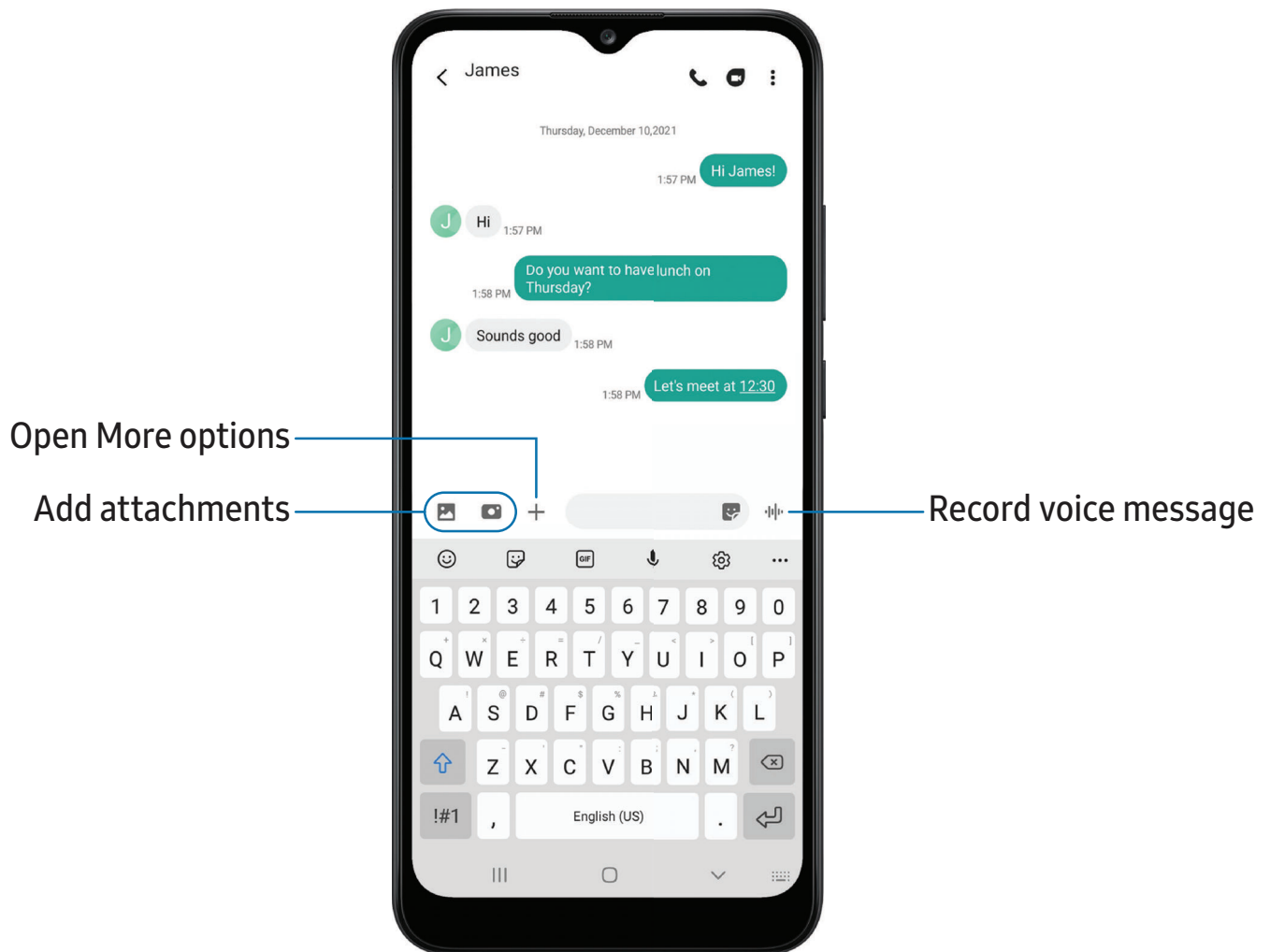
Modify settings associated with using the Internet app.

- From  **Internet**, tap  **Tools** > **Settings**.

## Messages




Keep in touch with your contacts by using the Messages app to share photos, send emojis, or just say a quick hello.

- From  Messages, tap  Compose new message.






## Message search

To quickly locate a message, use the search feature.

1. From  Messages, tap  Search.
2. Enter keywords in the Search field, and then tap  Search on the keyboard.


## Delete conversations

You can remove your conversation history by deleting conversations.

1. From  **Messages**, tap  **More options** > **Delete**.
2. Tap each conversation you want to delete.
3. Tap  **Delete**, and confirm when prompted.



## Emergency alerts

Emergency alerts notify you of imminent threats and other situations. There is no charge for receiving an Emergency alert message.

1. From Settings, tap  **Connections** > **More connection settings**.
2. Tap **Wireless Emergency Alerts** to customize notifications for emergency alerts.

## Send SOS messages

Send a message with your location to designated contacts when you are in an emergency situation.

1. From Settings, tap  **Advanced features** > **Send SOS messages**, and then tap  to enable this feature.
  - To choose the number of times to press the **Side** key to send an SOS message, tap either **3 times** or **4 times**.
  - To choose a contact to automatically call after you send an SOS message, tap **Auto call someone**.
  - To include a picture from your front and rear cameras, tap **Attach pictures**.
  - To include a five-second audio recording in your SOS message, tap **Attach audio recording**.
  - To add recipients by creating new contacts or selecting from Contacts, tap **Send messages to**.
2. Press the **Side** key quickly three or four times to send an SOS message.

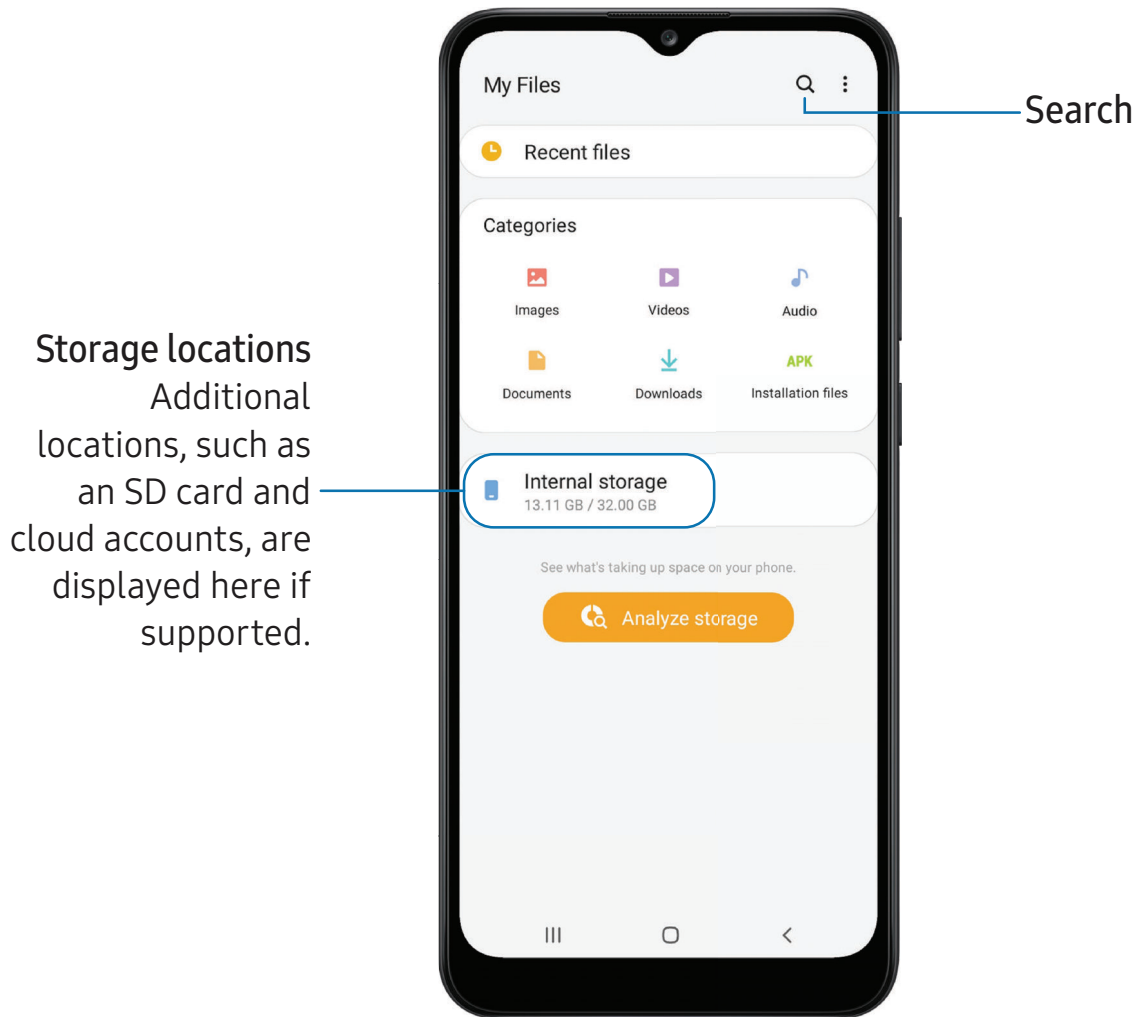
## Message settings

Configure the settings for text and multimedia messages.

- From  Messages, tap  More options > Settings.

## My Files

View and manage files stored on your device, including images, videos, music, and sound clips. You can also access and manage files saved to your cloud accounts and SD card, if supported.






## File groups

Files stored in the device are organized into the following groups:

- **Recent files:** View recently accessed files.
- **Categories:** View your files based on the file type.
- **Storage:** View files saved on your device, optional SD card, and cloud accounts.
  - Cloud accounts vary depending on the services you sign in to.
- **Analyze storage:** See what's taking up space in your storage.

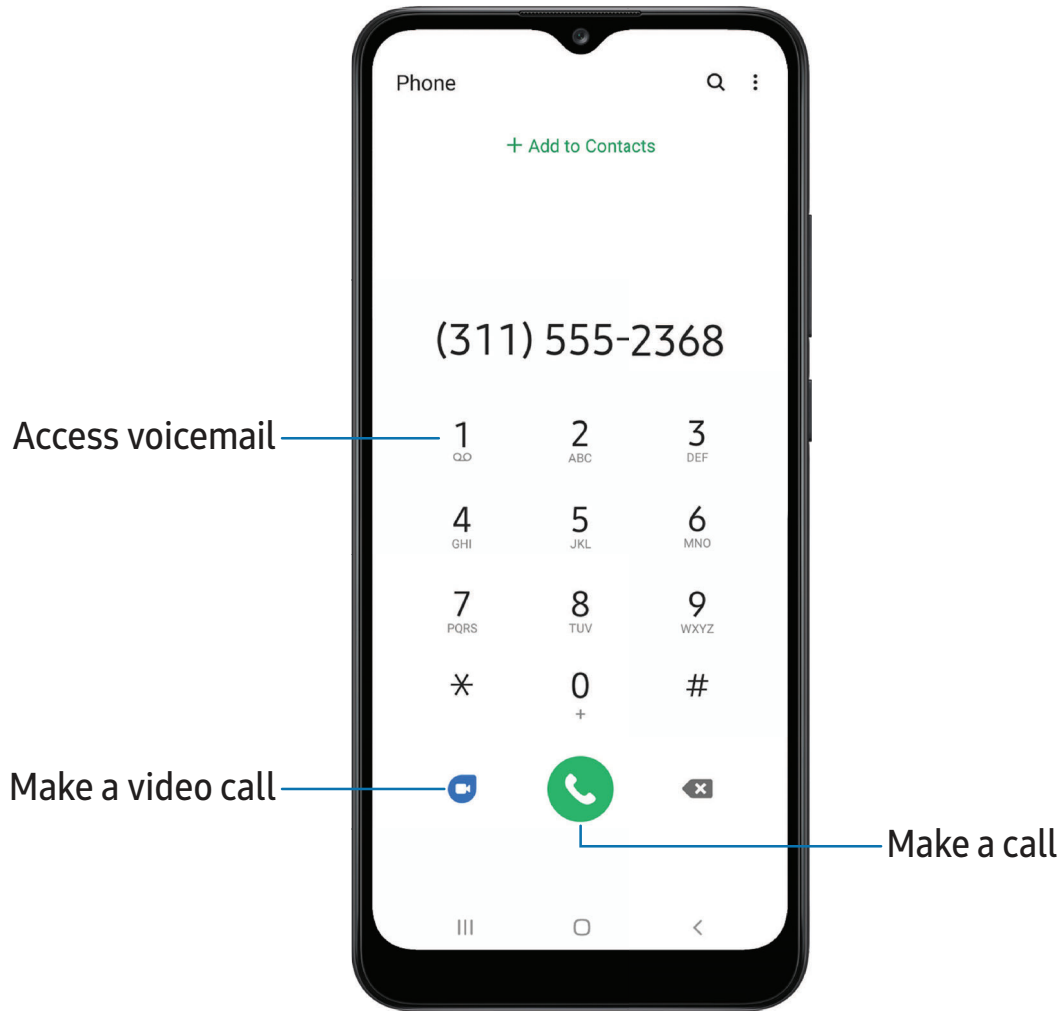
## My Files options

Use My Files options to search, edit, clear file history, and more.

- From  **My Files**, the following options are available:
  -  **Search:** Search for a file or folder.
  -  **More options:**
    - **Cloud service:** Connect to a carrier cloud service if available.
    - **Analyze storage:** See what's taking up space in your storage.
    - **Settings:** View settings for the app.

# Phone

The Phone app does more than just make telephone calls. Explore the advanced calling features. Contact your carrier for more information. The actual appearance of the Phone app screen varies by carrier.





## Calls

The Phone app allows you to make and answer calls from the Home screen, Recents tab, Contacts and more.



### Make a call

Use your phone to make and answer calls from a Home screen.

- From  **Phone**, enter a number on the keypad and tap  **Call**.
  - Tap **Keypad** if the keypad is not displayed.



Enable swipe to call

Swipe a contact or number to the right to make a call.

1. From Settings, tap  **Advanced features** > **Motions and gestures** > **Swipe to call or send messages**.
2. Tap  to enable this feature.


Make a call from Recents

All incoming, outgoing, and missed calls are recorded in the Call log.

1. From  **Phone**, tap **Recents** to display a list of recent calls.
2. Tap a contact, and then tap  **Call**.

Make a call from Contacts



Call a contact from the Contacts app.

- From  **Contacts**, swipe your finger across a contact to the right to call the contact.

### Answer a call

When a call is received, the phone rings and the caller's phone number or name is displayed. If you are using an app, a pop-up screen is displayed for the incoming call.

- On the incoming call screen, drag  **Answer** to the right to answer the call.



 **TIP** On the incoming call pop-up screen, tap  **Answer** to answer the call.



## Decline a call

You can choose to decline an incoming call. If you are using an app, a pop-up screen is displayed for the incoming call.


- On the incoming call screen, drag  **Decline** to the left to reject the call and send it to your voicemail.

 **TIP** On the incoming pop-up screen, tap  **Decline** to reject the call and send it to your voicemail.


## Decline with a message

You can choose to decline an incoming call with a text message response.

- On the incoming call screen, drag **Send message** upward and select a message.

 **TIP** On the incoming call pop-up screen, tap **Send message** and select a message.

## End a call

- Tap  **End call** when you are ready to end your call.



## Actions while on a call

You can adjust call volume, switch to a headset or speaker, and even multitask while on a call.

- Press the **Volume** keys to increase or decrease the volume.

## Switch to headset or speaker

Listen to the call using the speaker or through a Bluetooth® headset (not included).

- Tap  **Speaker** to hear the caller using the speaker or tap  **Bluetooth** to hear the caller using a Bluetooth headset.


## Multitask

If you exit the call screen to use another app, your active call is indicated in the Status bar.

To return to the call screen:



- Drag the Status bar down to display the Notification panel and tap the call.

To end a call while multitasking:

- Drag the Status bar down to display the Notification panel, and then tap  End call.

## Call pop-up settings

When calls are received while using other apps, they can be displayed as pop-ups.


- From  Phone, tap  **More options** > **Settings** > **Call display while using apps**. The following options are available:
  - **Full screen**: Display an incoming call in the full screen Phone app.
  - **Pop-up**: Display an incoming call as a pop-up at the top of the screen.
  - **Mini pop-up**: Display an incoming call as a smaller pop-up.
  - **Keep calls in pop-up**: Enable this option to keep calls in the pop-up after they are answered.

## Manage calls

Your calls are recorded in a call log. You can set up speed dials, block numbers, and use voicemail.


### Call log

The numbers of the calls you have dialed, received, or missed are stored in the Call log.

- From  Phone, tap **Recents**. A list of recent calls is displayed. If the caller is in your Contacts list, the caller's name is displayed.



## Save a contact from a recent call

Use recent call information to create a contact or update your Contacts list.

1. From  Phone, tap **Recents**.
2. Tap the call that contains the information that you want to save to your Contacts list, and tap **Add to contacts**.
3. Tap **Create new contact** or **Update existing contact**.




## Delete call records




To delete Call log entries:

1. From  Phone, tap **Recents**.
2. Touch and hold the call you want to delete from the Call log.
3. Tap  **Delete**.

## Block a number





By adding a caller to your Block list, future calls from this number are sent directly to your voicemail, and messages are not received.

1. From  Phone, tap **Recents**.
2. Tap the caller you want to add to the Block list.
3. Tap  **Details** >  **Block**, and confirm when prompted.

 **TIP** You can also modify your Block list in Settings. From  Phone, tap  **More options** > **Settings** > **Block numbers**.


## Speed dial

You can assign a shortcut number to a contact for speed dialing their default number.

1. From  **Phone**, tap **Keypad** >  **More options** > **Speed dial numbers**. The Speed dial numbers screen displays the reserved speed dial numbers.
2. Tap an unassigned number.
  - Tap  **Menu** to select a different Speed dial number than the next one in sequence.
  - Number 1 is reserved for Voicemail.
3. Type in a name or number, or tap  **Add from Contacts** to assign a contact to the number.
  - The selected contact is displayed in the Speed dial number box.




### Make a call with Speed dial

You can make a call using Speed dial.

- From  **Phone**, touch and hold the Speed dial number.
  - If the Speed dial number is more than one digit long, enter the first digits, and then hold the last digit.



### Remove a Speed dial number


You can remove an assigned Speed dial number.

1. From  **Phone**, tap  **More options** > **Speed dial numbers**.
2. Tap  **Delete** by the contact you want to remove from Speed dial.

## Emergency calls

You can dial the emergency telephone number in your region regardless of the phone's service status. If your phone is not activated, you can only make an emergency call.

1. From  **Phone**, enter the emergency telephone number (911 in North America) and tap  **Call**.
2. Complete your call. During this type of call, you have access to most in-call features.

 **TIP** The emergency telephone number can be dialed even if the phone is locked, allowing anyone to use your phone to call for help in an emergency. When accessed from a locked screen, only the emergency calling feature is accessible to the caller. The rest of the phone remains secured.

## Phone settings

These settings allow you to modify settings associated with the Phone app.




- From  Phone, tap  **More options** > **Settings**.

## Optional calling services

Your wireless carrier and service plan may support the following calling services.





### Place a multi-party call


Make another call while a call is in progress. Options may vary by carrier.

1. From the active call, tap  **Add call** to dial the second call.
2. Dial the new number and tap  **Call**. When the call is answered:
  - Tap the **On hold** number to switch between the two calls.
  - Tap  **Merge** to hear both callers at once (multi-conferencing).

### Video calls




To make Video calls:

- Tap  Phone, enter a number, and then tap  **Video call** or  **Video call** or  **Video call**.

 **NOTE** Not all devices support video calling. The receiver has the option to accept the video call or answer the call as a regular voice call.

## Wi-Fi calling



Make calls over Wi-Fi when you are connected to a Wi-Fi network.

1. From  Phone, tap  **More options** > **Settings** > **Wi-Fi calling**.
2. Tap  to enable this feature.
3. Follow the prompts to set up and configure Wi-Fi calling.

## Real Time Text (RTT)

Type back and forth in real time with the other person while on a call.

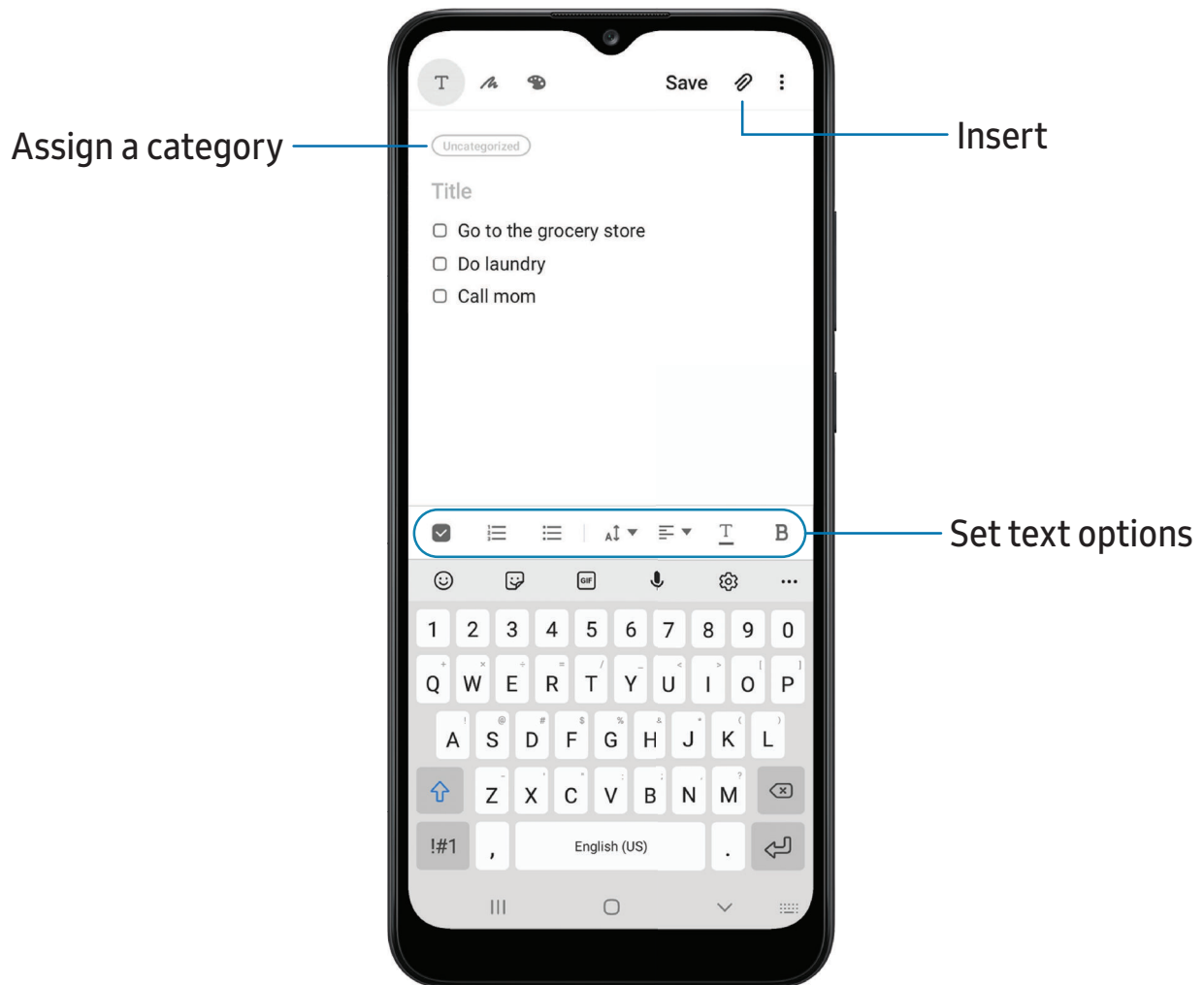
You can use RTT whenever you are calling someone whose phone also supports RTT or is connected to a teletypewriter (TTY) device. The RTT icon appears on all incoming RTT calls.

1. From  Phone, tap  **More options** > **Settings**.
2. Tap **Real time text** for the following options:
  - **RTT call button:** Choose a visibility option for the RTT call button.
  - **Always visible:** Show the RTT call button on the keypad and during calls.
  - **Use external TTY keyboard:** Hide the RTT keyboard when an external TTY keyboard is connected.
  - **TTY mode:** Choose the preferred TTY mode for the keyboard in use.

## Samsung Notes



Use Samsung Notes to create notes containing text, images with footnotes, voice recordings, and music. You can share your notes easily using social networking services.

Visit [samsung.com/us/support/owners/app/samsung-notes](https://samsung.com/us/support/owners/app/samsung-notes) to learn more.






## Create notes

Add text, images, voice recordings and more.

1. From  **Samsung Notes**, tap  **Add**.
2. Use the text options to create content.
3. When you are finished, tap **Save**.




## Voice recordings

Create annotated voice recordings perfect for lectures or meetings. Take notes while recording audio. Playback is synced to scroll to the corresponding text.

1. From  **Samsung Notes**, tap  **Add**.
2. Tap  **Insert** > **Voice recordings**.
3. Use the text options to create content while audio is being recorded.

## Notes options




You can edit, sort, or manage notes.

- From  **Samsung Notes**, the following options are available:
  -  **Search**: Search for a keyword.
  -  **More options**:
    - **Edit**: Select notes to share, delete, save as file, lock, or move.
    - **Sort**: Change the way notes are organized.
    - **View**: Switch between Grid, List, or Simple list.



## Notes menu

You can view your notes by category.

- From  **Samsung Notes**, tap  **Navigation drawer** for the following options:
  -  **Samsung Notes settings**: View settings for the Samsung Notes app.
  - **All notes**: View all notes.
  - **Frequently used**: Quick access to commonly used notes.
  - **Shared notebooks**: View notebooks shared with your contacts through your Samsung account.
  - **Trash**: View deleted notes for up to 15 days.
  - **Categories**: View notes by groups.
  - **Manage categories**: Add, remove, and organize groups.

# Google apps

The following Google apps may be preloaded on your device. Apps can be downloaded from the Google Play™ store.

[Chrome](#) | [Drive](#) | [Duo](#) | [Gmail](#) | [Google](#) | [Maps](#) | [Photos](#) | [Play Movies & TV](#) | [Play Store](#) | [YouTube](#) | [YT Music](#)



Browse the Internet with Chrome™ and bring your open tabs, bookmarks, and address bar data from your computer to your mobile device.

Visit [support.google.com/chrome](https://support.google.com/chrome) to learn more.



Open, view, rename, and share files saved to your Google Drive™ cloud account.

Visit [support.google.com/drive](https://support.google.com/drive) to learn more.



Make video calls.

Visit [support.google.com/duo](https://support.google.com/duo) to learn more.



Send and receive email with Google's web-based email service.

Visit [support.google.com/mail](https://support.google.com/mail) to learn more.



Find online content with tools that learn what interests you. Turn on your personalized feed to receive customized content.

Visit [support.google.com/websearch](https://support.google.com/websearch) to learn more.



Get directions and other location-based information. You must enable location services to use Google Maps. For more information, see [Location](#).

Visit [support.google.com/maps](https://support.google.com/maps) to learn more.



Store and back up your photos and videos automatically to your Google Account with Google Photos™.

Visit [support.google.com/photos](https://support.google.com/photos) to learn more.



Watch movies and TV shows purchased from Google Play. You can also view videos saved on your device.

Visit [play.google.com/store/movies](https://play.google.com/store/movies) to learn more.



Find new apps, movies and TV shows, music, books, magazines, and games in the Google Play store.

Visit [support.google.com/play](https://support.google.com/play) to learn more.



Watch and upload YouTube™ videos right from your device.

Visit [support.google.com/youtube](https://support.google.com/youtube) to learn more.



Stream and browse playlists, albums, and artists from YouTube Music.

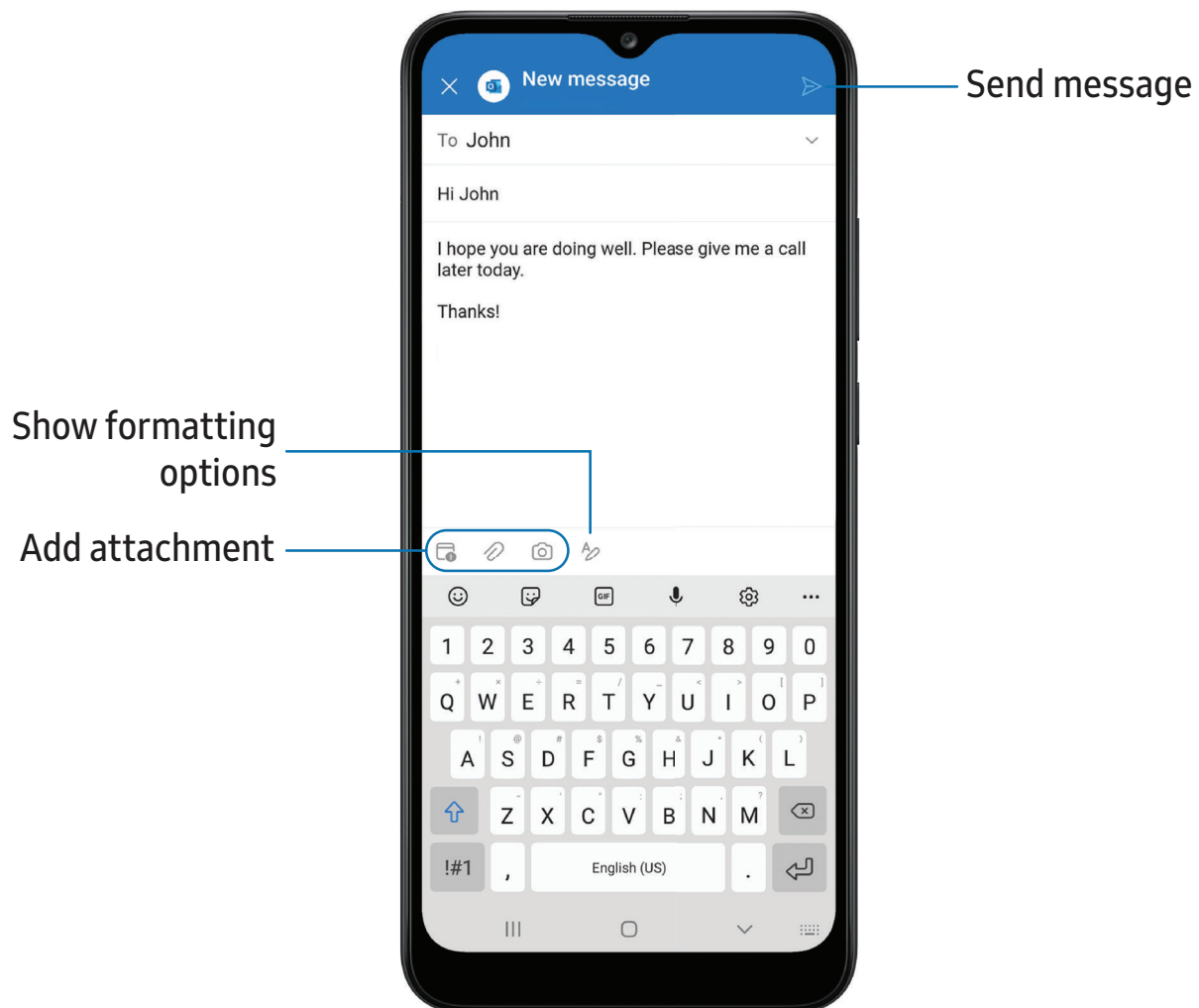
# Microsoft apps

The following Microsoft apps may be preloaded on your device. Apps can be downloaded from Galaxy Store and the Google Play store.

[Outlook](#) | [Office](#) | [OneDrive](#)



Access email, calendar, contacts, tasks, and more in Outlook. See [Add an Outlook account](#). Visit [support.office.com/en-us/article/outlook-for-ios-and-android-help-cd84214e-a5ac-4e95-9ea3-e07f78d0cde6](https://support.office.com/en-us/article/outlook-for-ios-and-android-help-cd84214e-a5ac-4e95-9ea3-e07f78d0cde6) to learn more.





Enjoy the Word, Excel, and PowerPoint apps on your mobile device with the Microsoft Office mobile app.



Store and share photos, videos, documents, and more in your free online OneDrive® account—accessible from your personal computer, tablet, or phone.

# Settings

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Access Settings

Connections

Sounds and vibration

Notifications

Display

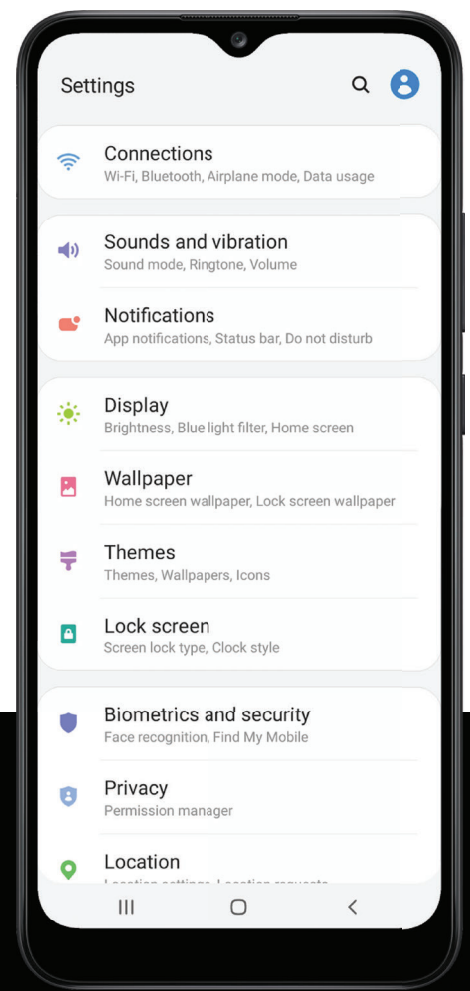
Lock screen and security

Accounts

Device maintenance



Accessibility

Other settings




# Access Settings

There are a couple of ways to access your device settings.

- From a Home screen, swipe down and tap  **Settings**.
- From Apps, tap  **Settings**.

## Search for Settings

If you are not sure exactly where to find a certain setting, you can search for it.

1. From Settings, tap  **Search**, and enter keywords.
2. Tap an entry to go to that setting.



# Connections

Manage connections between your device and a variety of networks and other devices.

[Wi-Fi](#) | [Bluetooth](#) | [Airplane mode](#) | [Mobile networks](#) | [Data usage](#) | [Mobile hotspot](#) | [Tethering](#) | [Nearby device scanning](#) | [Connect to a printer](#) | [Virtual Private Networks](#) | [Private DNS](#) | [Ethernet](#)

## Wi-Fi




You can connect your device to a Wi-Fi network to access the Internet without using your mobile data.

1. From Settings, tap  **Connections** > **Wi-Fi**, and then tap  to turn on Wi-Fi and scan for available networks.
2. Tap a network, and enter a password if required.






## Connect to a hidden Wi-Fi network

If the Wi-Fi network you want is not listed after a scan, you can still connect to it by entering the information manually. Ask the Wi-Fi network administrator for the name and password before you begin.

1. From Settings, tap  **Connections** > **Wi-Fi**, and then tap  to turn on Wi-Fi.
2. Tap  **Add network** at the bottom of the list.
3. Enter information about the Wi-Fi network:
  - **Network name:** Type the exact name of the network.
  - **Security:** Select a security option from the list, and enter the password if required.
  - **Advanced:** Define other advanced options, such as IP and Proxy settings.
4. Tap **Save**.

## Advanced Wi-Fi settings




You can configure connections to various types of Wi-Fi networks and hotspots, manage saved networks and look up your device's network addresses. Options may vary by carrier.

1. From Settings, tap  **Connections** > **Wi-Fi**, and then tap  to turn on Wi-Fi.
2. Tap  **More options** > **Advanced**.
  - **Switch to mobile data:** When enabled, your device will switch to mobile data whenever the Wi-Fi connection is unstable. When the Wi-Fi signal is strong, it switches back to Wi-Fi.
  - **Turn on Wi-Fi automatically:** Turn on Wi-Fi in frequently-used locations.
  - **Network notification/Wi-Fi notifications:** Receive notifications when open networks in range are detected.
  - **Show Wi-Fi pop-up:** Alert me that Wi-Fi is available when opening apps.
  - **Manage networks:** View saved Wi-Fi networks and configure whether to auto reconnect to or forget individual networks.
  - **Wi-Fi control history:** View apps that have recently turned your Wi-Fi on or off.

- **Hotspot 2.0:** Connect automatically to Wi-Fi networks that support Hotspot 2.0.
- **Install network certificates:** Install authentication certificates.
- **MAC address:** View your device's MAC address, which is required when connecting to some secured networks (not configurable).
- **IP address:** View your device's IP address (not configurable).



## Wi-Fi Direct

Wi-Fi Direct uses Wi-Fi to share data between devices.

1. From Settings, tap  **Connections** > **Wi-Fi**, and then tap  to turn on Wi-Fi.
2. Tap  **More options** > **Wi-Fi Direct**.
3. Tap a device, and then follow the prompts to connect.



## Disconnect from Wi-Fi Direct


Disconnect your device from a Wi-Fi Direct device.

- From Settings, tap  **Connections** > **Wi-Fi** >  **More options** > **Wi-Fi Direct**. Tap a device to disconnect it.

## Bluetooth




You can pair your device to other Bluetooth-enabled devices, like Bluetooth headphones or a Bluetooth-enabled vehicle infotainment system. Once a pairing is created, the devices remember each other and can exchange information without having to enter the passkey again.

1. From Settings, tap  **Connections** > **Bluetooth**, and then tap  to turn on Bluetooth.
2. Tap a device and follow the prompts to connect.

 **TIP** When sharing a file, tap  **Bluetooth** to use this feature.




## Rename a paired device

You can rename a paired device to make it easier to recognize.

1. From Settings, tap  **Connections** > **Bluetooth**, and then tap  to turn on Bluetooth.
2. Tap  **Settings** next to the device name, and then tap **Rename**.
3. Enter a new name, and tap **Rename**.



## Unpair from a Bluetooth device

When you unpair from a Bluetooth device, the two devices no longer recognize each other and you will need to pair with the device again in order to connect to it.

1. From Settings, tap  **Connections** > **Bluetooth**, and then tap  to turn on Bluetooth.
2. Tap  **Settings** next to the device, and then tap **Unpair**.


## Advanced options

Additional Bluetooth features are available in the Advanced menu. Options may vary by carrier.

1. From Settings, tap  **Connections** > **Bluetooth**.
2. Tap **Advanced** or  **More options** > **Advanced** for the following options:
  - **Phone name:** Change the name of your device for Bluetooth connections.
  - **Received files:** View a list of files received using Bluetooth.
  - **Ringtone sync:** Use the ringtone set on your device when you receive calls through a connected Bluetooth device.
  - **Bluetooth control history:** View apps that have used Bluetooth recently.



## Dual audio

You can play audio from your device to two connected Bluetooth audio devices.

1. Connect Bluetooth audio devices to your device.
2. From the Notification panel, tap **Media**.
3. Under Audio output, tap  next to each audio device to play audio to them (up to two devices).


## Airplane mode


Airplane mode turns off all network connections including calling, texting, mobile data, Wi-Fi, and Bluetooth. While Airplane mode is enabled, you can turn on Wi-Fi and Bluetooth in Settings or from the Quick settings panel.

- From Settings, tap  **Connections** > **Airplane mode**, and then tap  to enable this feature.

## Mobile networks

Use Mobile networks to configure your device's ability to connect to mobile networks and use mobile data. Options may vary by carrier.

- From Settings, tap  **Connections** > **Mobile networks**.
  - **Data roaming:** Choose whether to allow your device to connect to mobile data while traveling outside your carrier's network area.
  - **Data roaming access:** Configure access to mobile networks while roaming.
  - **Roaming/Roaming state:** Enable or disable data while roaming on other mobile networks.
  - **Signal strength:** View mobile signal strength.
  - **Network mode:** You can select which network modes your mobile device can use.
  - **System select:** Change the roaming mode.
  - **Access Point Names:** Choose or add APNs, which have the network settings your device needs to connect to your provider.
  - **Network operators:** Choose available and preferred networks.
  - **Network extenders:** Scan for cells that can extend your network connection.

 **TIP** Use these features to help manage connection settings that may affect your monthly bill.




## Data usage

Check your current mobile and Wi-Fi data usage. You can also customize warnings and limits.

- From Settings, tap  **Connections** > **Data usage**.


### Turn on Data saver

Use Data saver to reduce your data consumption by preventing selected apps from sending or receiving data in the background.

1. From Settings, tap  **Connections** > **Data usage** > **Data saver**.
2. Tap  to turn on Data saver.
  - To allow some apps to have unrestricted data usage, tap **Allowed to use data while Data saver is on**, and tap  next to each app to specify restrictions.

### Monitor mobile data


You can customize your mobile data access by setting limits and restrictions. Options may vary by carrier.

- From Settings, tap  **Connections** > **Data usage**. The following options are available:
  - **Mobile data**: Use mobile data from your plan.
  - **Mobile data only apps**: Set apps to always use mobile data, even when your device is connected to Wi-Fi.
  - **Alert me about data usage**: Enable alerts for when your mobile data usage reaches the amount you chose.
  - **Mobile data usage**: View data usage over mobile connections over a period of time. You can view total usage as well as usage by app.
  - **Billing cycle and data warning**: Change the monthly date to align with your carrier's billing date.

 **TIP** Use these features to keep an eye on your estimated data usage.


## Monitor Wi-Fi data

You can restrict Wi-Fi data access by customizing usage limits and networks.

1. From Settings, tap  **Connections** > **Data usage**.
2. Tap **Wi-Fi data usage** to view data usage over Wi-Fi connections over a period of time. You can view total usage as well as usage by app.


## Roaming data usage

You can monitor data usage when roaming off outside of your carrier's network.

1. From Settings, tap  **Connections** > **Data usage**.
2. Tap **Roaming data usage** to see data usage if and when your device is roaming.


## Mobile hotspot

Mobile hotspot uses your data plan to create a Wi-Fi network that can be used by multiple devices.

1. From Settings, tap  **Connections** > **Mobile hotspot and tethering** > **Mobile hotspot**.
2. Tap  to turn on Mobile hotspot.
3. On the devices you want to connect, activate Wi-Fi and select your device's Mobile hotspot. Enter the Mobile hotspot password to connect.
  - Connected devices are listed under the heading **Connected devices**.



## Band

Select one of the available band options.

1. From Settings, tap  **Connections** > **Mobile hotspot and tethering** > **Mobile hotspot**.
2. Tap **Band**, and tap an option.



## Configure mobile hotspot settings


You can customize your mobile hotspot's security and connection settings.

1. From Settings, tap  **Connections** > **Mobile hotspot and tethering** > **Mobile hotspot**.
2. Tap  **More options** > **Configure mobile hotspot** for the following settings:
  - **Network name:** View and change the name of your Mobile hotspot.
  - **Broadcast network name (SSID):** Make your device visible to others.
  - **Security:** Choose the security level for your Mobile hotspot.
  - **Password:** If you choose a security level that uses a password, you can view or change it.
  - **Broadcast channel:** Select a broadcast channel or set it to Auto.
  - **Protected management frames:** Enable this feature for additional privacy protections.

## Timeout settings


You can set the Mobile hotspot to automatically turn off when there are no connected devices.

1. From Settings, tap  **Connections** > **Mobile hotspot and tethering** > **Mobile hotspot**.
2. Tap  **More options** > **Timeout settings**, and then choose an interval.

 **TIP** This feature can help you manage your data usage.



## Tethering

You can use tethering to share your device's Internet connection with another device. Options may vary by carrier.

1. From Settings, tap  **Connections** > **Mobile hotspot and tethering**.
2. Tap an option:
  - Tap **Bluetooth tethering** to share your device's Internet connection using Bluetooth.
  - Connect the computer to the device using a USB cable, and then tap **USB tethering**.




## Nearby device scanning


Easily set up connections to other available devices by turning on Nearby device scanning. This feature sends you a notification when there are available devices to connect to.

1. From Settings, tap  **Connections** > **More connection settings** > **Nearby device scanning**.
2. Tap  to turn on the feature.

## Connect to a printer

Connect your device to a printer on the same Wi-Fi network to easily print documents and images from your device.



1. From Settings, tap  **Connections** > **More connection settings** > **Printing**.
2. Tap **Default print service**, and then tap  **More options** > **Add printer**.
  - If your printer requires a plugin, tap  **Download plugin** and follow the prompts to add a print service.

 **NOTE** Not all apps support printing.





## Virtual Private Networks

A Virtual Private Network (VPN) allows you to connect to a private secured network from your device. You will need the connection information from your VPN administrator.

1. From Settings, tap  **Connections** > **More connection settings** > **VPN**.
2. Tap  **More options** > **Add VPN profile**.
3. Enter the VPN network information provided by your network administrator, and tap **Save**.


### Manage a VPN

Use the VPN settings menu to edit or delete a VPN connection.

1. From Settings, tap  **Connections** > **More connection settings** > **VPN**.
2. Tap  **Settings** next to a VPN.
3. Edit the VPN and tap **Save**, or tap **Delete** to remove the VPN.


### Connect to a VPN

Once you have set up a VPN, connecting to and disconnecting from a VPN is easy.

1. From Settings, tap  **Connections** > **More connection settings** > **VPN**.
2. Tap a **VPN**, enter your log in information, and tap **Connect**.
  - To disconnect, tap the **VPN**, and then tap **Disconnect**.


## Private DNS

You can configure your device to connect to a private DNS host.

1. From Settings, tap  **Connections** > **More connection settings** > **Private DNS**.
2. Tap one of the available options to configure a private DNS connection.
3. Tap **Save**.

## Ethernet

If wireless network connection is not available, you can use an Ethernet cable to connect your device to a local network.

1. Connect an Ethernet cable to your device.
2. From Settings, tap  **Connections** > **More connection settings** > **Ethernet**, and follow the prompts.



**TIP** You need an adapter (not included) to connect an Ethernet cable to your device.


## Sounds and vibration

You can control the sounds and vibrations used to indicate notifications, screen touches, and other interactions.

[Sound mode](#) | [Vibrations](#) | [Volume](#) | [Ringtone](#) | [Notification sound](#) | [System sound](#) | [System sounds and vibration](#) | [Dolby Atmos](#) | [Separate app sound](#)

### Sound mode

You can change the sound mode on your device without using the volume keys.


- From Settings, tap  **Sounds and vibration**, and then choose a mode:
  - **Sound**: Use the sounds, vibrations, and volume levels you have chosen in Sound settings for notifications and alerts.
    - **Vibrate while ringing**: Set your device to vibrate in addition to ringing when you receive a call.
  - **Vibrate**: Use vibration only for notifications and alerts.
  - **Mute**: Set your device to make no sounds.
    - **Temporary mute**: Set a time limit for muting the device.



**TIP** Use the sound mode setting instead of the volume keys to change the sound mode without losing your customized sound levels.


## Easy mute

Mute incoming calls and alarms by turning your phone face down.

- From Settings, tap  **Advanced features** > **Motions and gestures** > **Easy mute**, and tap  to enable.


## Vibrations


You can control how and when your device vibrates.

1. From Settings, tap  **Sounds and vibration**.
2. Tap options to customize:
  - **Vibration pattern**: Choose from preset vibration patterns for notifications.

## Volume


Set the volume level for call ringtones, notifications, media, and system sounds.

- From Settings, tap  **Sounds and vibration** > **Volume**, and drag the sliders for each sound type.

 **TIP** You can also use the **Volume** keys to adjust the volume. When pressed, a pop-up menu shows the volume level and current sound type. You can tap the menu to expand it, and then adjust the volume of the other sound types by dragging their sliders.




## Use Volume keys for media

Set the default action of the Volume keys to control the media sound volume rather than whichever sound type is in use.

1. From Settings, tap  **Sounds and vibration** > **Volume**.
2. Tap **Use Volume keys for media** to enable this feature.



## Media volume limit

Limit the maximum output of the device's volume while using Bluetooth speakers or headphones (not included).

1. From Settings, tap  **Sounds and vibration** > **Volume**.
2. Tap  **More options** > **Media volume limit**.
3. Tap  to enable this feature.
  - To set the maximum output volume, drag the **Custom volume limit** slider.
  - To require a PIN to make changes to the volume setting, tap **Set volume limit PIN**.


## Ringtone


Customize your call ringtone by choosing from preset sounds or adding your own.

1. From Settings, tap  **Sounds and vibration** > **Ringtone**.
2. Tap a ringtone to hear a preview and select it, or tap  **Add** to use an audio file as a ringtone.

## Notification sound


Choose a preset sound for all notification alerts.

1. From Settings, tap  **Sounds and vibration** > **Notification sound**.
2. Tap a sound to hear a preview and select it.

 **TIP** You can also customize notifications sounds to be unique for each app using the App settings menu.


## System sound

Choose a sound theme to use for touch interactions, charging, changing the sound mode, and Samsung Keyboard, and more.

- From Settings, tap  **Sounds and vibration** > **System sound** and choose an available option.


## System sounds and vibration

Customize your device's sounds and vibrations for actions like tapping the screen and charging the device. Options may vary by carrier.

- From Settings, tap  **Sounds and vibration** > **System sound** for the following options:
  - **Touch interactions:** Play tones when you touch or tap the screen to make selections.
  - **Screen lock/unlock:** Play a sound when you lock or unlock the screen.
  - **Charging:** Play a sound when a charger is connected.
  - **Dialing keypad:** Play a tone when dialing numbers on the Phone keypad.
  - **Samsung keyboard:** Play a sound when typing with the Samsung keyboard.


## Dolby Atmos

Enjoy Dolby Atmos quality when playing content that was specifically mixed for Atmos. This feature may only be available with a headset connected.

1. From Settings, tap  **Sounds and vibration** > **Sound quality and effects**.
2. Tap **Dolby Atmos** to experience breakthrough audio that flows above and around you.

## Separate app sound

You can choose to have an app play only media sound on a Bluetooth speaker or headset separate from the other sounds (like notifications). Connect to a Bluetooth device to make this option available in the Audio device menu.

1. From Settings, tap  **Sounds and vibration** > **Separate app sound**.
2. Tap **Turn on now** to enable Separate app sound, and then set the following options:
  - **App:** Choose an app to play its sound on a separate audio device.
  - **Audio device:** Choose the audio device that you want the app's sound to be played on.


# Notifications

You can prioritize and streamline app alerts by changing which apps send notifications and how notifications alert you.

[Manage notifications](#) | [Block app notifications](#) | [Smart pop-up view](#)


## Manage notifications

You can configure notifications from apps and services.

- From Settings, tap  **Notifications**.
  - **Suggest actions and replies:** Get applicable suggestions for actions to notifications and replies to messages.
  - **Swipe left or right for snooze:** Get an option to snooze a notification for a later time.
  - **App icon badges:** Identify which apps have active notifications with badges that appear on their icons. Tap to choose whether or not badges indicate the number of unread notifications.
  - **Status bar:** Modify how many notifications appear on the Status bar.
  - **Do not disturb:** Block sounds and notifications while this mode is turned on. Specify exceptions for people, apps, and alarms.

## Block app notifications

You can change or block notifications for each app. Options vary by app.

1. From Settings, tap  **Notifications** > **See all**.
2. Tap an app for the following options:
  - **Show notifications:** Disable to block notifications from this app.
  - **Categories:** Configure notification options that are specific to this app.
  - **App icon badges:** Show a badge on the icon when there are notifications.

## Smart pop-up view

Receive notifications as icons that can be tapped and expanded in pop-up view.

- From Settings, tap  **Advanced features** > **Smart pop-up view**, and tap  to enable.


## Display

You can configure the screen brightness, timeout delay, font size, and many other display settings.

[Dark mode](#) | [Screen brightness](#) | [Blue light filter](#) | [Font size and style](#) | [Screen zoom](#) | [Full screen apps](#) | [Screen timeout](#) | [Accidental touch protection](#) | [Touch sensitivity](#) | [Screen saver](#) | [Reduce animations](#) | [Double tap to wake](#) | [One-handed mode](#)


## Dark mode

Dark mode allows you to switch to a darker theme to keep your eyes more comfortable at night, darkening white or bright screens and notifications.

- From Settings, tap  **Display** > **Dark mode settings** for the following options:
  - **Turn on as scheduled:** Configure Dark mode for either **Sunset to sunrise** or **Custom schedule**.
  - **Apply to wallpaper:** Have Dark mode settings applied to the wallpaper when it is active.
  - **Adaptive color filter:** Turn on Blue light filter automatically between sunset and sunrise to reduce eye strain.

## Screen brightness

Adjust the screen brightness according to lighting conditions or personal preference.


1. From Settings, tap  **Display**.
2. Customize options under **Brightness**:
  - Drag the **Brightness** slider to set a custom brightness level.
  - Tap **Adaptive brightness** to automatically adjust the screen brightness based on the lighting conditions.



**TIP** You can also adjust screen brightness from the Quick settings panel.



## Blue light filter

The Blue light filter feature may help you sleep better and reduce eye strain. You can set a schedule to automatically turn this feature on and off.

- From Settings, tap  **Display** > **Blue light filter**, and then choose one of the following options:
  - Drag the **Opacity** slider to set the opacity of the filter.
  - Tap **Turn on now** to enable this feature.
  - Tap **Turn on as scheduled** to set a schedule for when Blue light filter should be enabled. You can choose **Sunset to sunrise** or **Custom schedule**.

## Font size and style


You can change the font size and style to customize your device.

- From Settings, tap  **Display** > **Font size and style** for the following options:
  - Tap **Font style** to choose a different font.
    - Tap a font to select it, or tap  **Download fonts** to add fonts from Galaxy Store.
  - Tap **Bold font** to make all fonts appear with bold weight.
  - Drag the **Font size** slider to adjust the size of text.




## Screen zoom

Adjust the zoom level to make content easier to see.

1. From Settings, tap  **Display** > **Screen zoom**.
2. Drag the **Screen zoom** slider to adjust the zoom level.

## Full screen apps


You can choose which apps you want to use in the full screen aspect ratio.

- From Settings, tap  **Display** > **Full screen apps** and tap apps to enable this feature.

## Screen timeout

You can set the screen to turn off after a set amount of time.

- From Settings, tap  **Display** > **Screen timeout**, and tap a time limit to set it.

 **NOTE** Prolonged display of non-moving images may result in permanent ghost-like afterimages or degraded image quality. Turn off the display screen when not in use.

## Accidental touch protection

Prevent the screen from detecting touch input while the device is in a dark place, such as a pocket or a bag.

- From Settings, tap  **Display** > **Accidental touch protection** to enable the feature.


## Touch sensitivity



Increase the touch sensitivity of the screen for use with screen protectors.

- From Settings, tap  **Display** > **Touch sensitivity** to enable.

## Screen saver


You can display colors or photos when the screen turns off or while charging.

1. From Settings, tap  **Display** > **Screen saver**.
2. Choose one of the following options:
  - **None:** Do not display a screen saver.
  - **Colors:** Tap the selector to display a changing screen of colors.
  - **Photo table:** Display pictures in a photo table.
  - **Photo frame:** Display pictures in a photo frame.
  - **Photos:** Display pictures from your Google Photos account.
3. Tap **Preview** for a demonstration of the selected Screen saver.

 **TIP** Tap  **Settings** next to a feature for additional options.


## Reduce animations

Decrease certain motion effects, such as when opening apps.

- From Settings, tap  **Advanced features** > **Reduce animations** to enable the feature.




## Double tap to wake

Turn on the screen by double-tapping instead of using the Side key.

- From Settings, tap  **Advanced features** > **Motions and gestures** > **Double tap to wake** to enable this feature.

## One-handed mode

You can change the screen layout to accommodate operating your device with one hand.

1. From Settings, tap  **Advanced features** > **One-handed mode**.
2. Tap  to enable the feature and select one of the following options:
  - **Gesture:** Swipe down in the center of the bottom edge of the screen.
  - **Button:** Tap  **Home** two times in quick succession to reduce the display size.

# Lock screen and security

You can secure your device and protect your data by setting a screen lock.

[Screen lock types](#) | [Google Play Protect](#) | [Find My Mobile](#) | [Find My Device](#) | [Security update](#) | [Install unknown apps](#) | [Encrypt or decrypt SD card](#) | [Set up SIM card lock](#) | [View passwords](#) | [Device administration](#) | [Credential storage](#) | [Advanced security settings](#) | [Permission manager](#) | [Send diagnostic data](#) | [Samsung Privacy](#) | [Location](#)

## Screen lock types



You can choose from the following screen lock types that offer high, medium, or no security: Swipe, Pattern, PIN, Password, and None.



**NOTE** Biometric locks are also available to protect access to your device and sensitive data on your device. For more information, see [Biometric security](#).

## Set a secure screen lock


It is recommended that you secure your device using a secure screen lock (Pattern, PIN, or Password). This is necessary to set up and enable biometric locks.

1. From Settings, tap  **Lock screen** > **Screen lock type** and tap a secure screen lock (**Pattern**, **PIN**, or **Password**).
2. Tap  to enable showing notifications on the lock screen. The following options are available:
  - **View style**: Display notification details or hide them and show only an icon.
  - **Hide content**: Do not show notifications in the Notification panel.
  - **Notifications to show**: Choose which notifications to show on the Lock screen.
3. Tap **Done** to exit the menu.
4. Configure the following screen lock options:
  - **Smart Lock**: Unlock your device automatically when trusted locations or other devices have been detected. A secure screen lock is required for this feature.

- **Secure lock settings:** Customize your secure lock settings. A secure screen lock is required for this feature.

## Google Play Protect

You can configure Google Play to regularly check your apps and device for security risks and threats.



- From Settings, tap  **Biometrics and security** > **Google Play Protect**.
  - Updates are checked for automatically.

## Find My Mobile

You can protect your device from loss or theft by allowing your device to be locked, tracked online, and for your data to be deleted remotely. A Samsung account is required, and Google location service must be turned on in order to use Find My Mobile. For more information, visit [samsung.com/us/support/owners/app/find-my-mobile](https://samsung.com/us/support/owners/app/find-my-mobile).


### Turn on Find My Mobile

Before you can use the Find My Mobile feature, you must turn it on and customize the options. To access your device remotely, visit [findmymobile.samsung.com](https://findmymobile.samsung.com).

1. From Settings, tap  **Biometrics and security** > **Find My Mobile**.
2. Tap  to enable Find My Mobile and log in to your Samsung account. The following options are available:
  - **Remote unlock:** Allow Samsung to store your PIN, pattern, or password, allowing you to unlock and control your device remotely.
  - **Send last location:** Allow your device to send its last location to the Find My Mobile server when the remaining battery charge falls below a certain level.
  - **Find my Mobile update:** Check for updates.


## Find My Device

You can protect your device from loss or theft by allowing your device to be locked, tracked online, and for your data to be deleted remotely. A Google Account is required, and Google location service must be turned on.

1. From Settings, tap  **Biometrics and security** > **Find My Device**.
  - If you are not logged in to a Google Account, tap **Find My Device won't work** and follow the prompts to sign in.
2. The following options are available:
  - **Find My Device**: Download the app from Google Play.
  - **Web**: Access Find My Device on the Internet.
  - **Google**: Search for “find my device” topics online.


## Security update


You can easily check the date of the last installed security software update and find out if newer updates are available.

- From Settings, tap  **Biometrics and security** > **Security update** to see the latest security update installed and check if a newer update is available.

## Install unknown apps


You can allow installation of unknown third-party apps from selected apps or sources.


1. From Settings, tap  **Biometrics and security** > **Install unknown apps**.
2. Tap an app or source, and then tap **Allow from this source**.

 **TIP** Installing unknown third-party apps could make your device and personal data more vulnerable to security risks.

## Encrypt or decrypt SD card


You can encrypt your optional memory card (not included) to protect its data). This only allows the SD card information to be accessed from your device with a password.

1. From Settings, tap  **Biometrics and security** > **Encrypt or decrypt SD card**.
2. Tap **Encrypt SD card** and follow the prompts to encrypt all data on your memory card.

 **NOTE** Performing a Factory data reset on your device prevents it from accessing an encrypted SD card. Before initiating a Factory data reset, make sure to decrypt the installed SD card first.


## Decrypt SD card

You can decrypt an optional memory card (not included) if it was encrypted by this device. You may want to decrypt the memory card if you plan to use it with another device or before performing a Factory data reset.

1. From Settings, tap  **Biometrics and security** > **Encrypt or decrypt SD card**.
2. Tap **Decrypt SD card** and follow the prompts to decrypt all data on your memory card.


## Set up SIM card lock

You can set up a PIN to lock your SIM card, which prevents unauthorized use of your SIM card if someone attempts to use it in another device.

- From Settings, tap  **Biometrics and security** > **Other security settings** > **Set up SIM card lock** and follow the prompts.
  - Tap **Lock SIM card** to turn on the feature.
  - Tap **Change SIM card PIN** to create a new PIN.


## View passwords

You can have characters displayed briefly in password fields as you type them.

- From Settings, tap  **Biometrics and security** > **Other security settings** > **Make passwords visible** to turn on the feature.


## Device administration

You can authorize security features and apps to have administrative access to your device.

1. From Settings, tap  **Biometrics and security** > **Other security settings** > **Device admin apps**.
2. Tap an option to turn it on as a device administrator.


## Credential storage

You can manage the trusted security certificates installed on your device, which verify the identity of servers for secure connections.

- From Settings, tap  **Biometrics and security** > **Other security settings** for the following options:
  - **Storage type:** Select a storage location for credential contents.
  - **View security certificates:** Display certificates in your device's ROM and other certificates you have installed.
  - **User certificates:** View user certificates that identify your device.
  - **Install from device storage:** Install a new certificate from storage.
  - **Clear credentials:** Erase credential contents from the device and reset the password.

## Advanced security settings


You can use these options to configure advanced security settings to better protect your device.

- From Settings, tap  **Biometrics and security** > **Other security settings** for the following options:
  - **Trust agents:** Allow trusted devices to perform selected actions when connected.
    - This option is only displayed when a lock screen is turned on. For more information, see [Set a secure screen lock](#).

- **Pin windows:** Pin an app on your device screen, which prevents access to other features of your device.
- **Security policy updates:** Keep your device secure by checking for security updates.

## Permission manager

Apps might access features of your device that you permit them to (like the camera, microphone, or location) when they are running in the background, not just when you are using the app. You can set your device to notify you when this happens.


1. From Settings, tap  **Privacy** > **Permission manager**.
2. Tap a category, then tap an app to select which permissions you want to be notified about.



**NOTE** When using an app or service for the first time that wants to access certain features of your device, a dialog box asks if you want to permit such access.


## Send diagnostic data

Send diagnostic information about your device to Samsung when you are having technical problems.

1. From Settings, tap  **Privacy** > **Send diagnostic data**.
2. Read and accept the consent information to enable this feature.

## Samsung Privacy



Send diagnostic information about your device to Samsung when you are having technical problems.

1. From Settings, tap  **Privacy**.
2. Under **Samsung account privacy** tap the following options to customize:
  - **Samsung Privacy:** View Samsung's privacy information.
  - **Customization Service:** Allow Samsung to provide customized content and recommendations.



## Location


Location services use a combination of GPS, mobile network and Wi-Fi to determine the location of your device.

1. From Settings, tap  **Location**.
2. Tap  to turn on Location services.

 **TIP** Some apps require location services be turned on for full functionality.


## App permissions

Configure permissions for apps that want to access your location information.

1. From Settings, tap  **Location** > **App permissions**.
2. Tap an app and chose which location permissions to grant it. Options vary by app.



## Improve accuracy

Enable other location scanning tools.

1. From Settings, tap  **Location** > **Improve accuracy**.
2. Tap connection method to add or remove from location services:
  - **Wi-Fi scanning**: Allow apps and services to scan for Wi-Fi networks automatically, even when Wi-Fi is turned off.
  - **Bluetooth scanning**: Allow apps to scan for and connect to nearby devices automatically through Bluetooth, even when Bluetooth is turned off.


## Recent location requests

View a list of apps that have requested your location.

1. From Settings, tap  **Location**.
2. Tap  to turn on Location services.
3. Tap an entry under **Recent location requests** to view the app's settings.

## Location services

Location services store and use your device's most recent location data. Certain apps can use this data to improve your search results based on places that you have visited.

1. From Settings, tap  **Location**.
2. Tap an entry under **Location services** to see how your location information is used.


## Accounts

You can connect to and manage your accounts, including your Google Account, Samsung account, email, and social networking accounts.

[Samsung Cloud](#) | [Add an account](#) | [Account settings](#) | [Remove an account](#) | [Backup and restore](#) | [Google settings](#)



## Samsung Cloud

You can keep your data safe by backing up and restoring your device. You can also sync your data from multiple devices. For more information, visit [samsung.com/us/support/owners/app/samsung-cloud](https://samsung.com/us/support/owners/app/samsung-cloud).

1. From Settings, tap  **Accounts and backup** > **Samsung Cloud**.
  - If a Samsung account has not been added, the screens explain how to create or sign in to your account.
2. Once a Samsung account is configured, you can view and manage items stored in the Samsung Cloud.

## Add an account

You can add and sync all your email, social networking, and picture and video sharing accounts.

1. From Settings, tap  **Accounts and backup** > **Accounts** >  **Add account**.
2. Tap one of the account types.
3. Follow the prompts to enter your credentials and set up the account.
  - Tap **Auto sync data** to enable automatic updates to your accounts.


## Account settings

Each account has its own custom settings. You can configure common settings for all accounts of the same type. Account settings and available features vary between account types.

- From Settings, tap  **Accounts and backup** > **Accounts**.

## Remove an account

You can remove accounts from your device.


1. From Settings, tap  **Accounts and backup** > **Accounts**.
2. Tap the account and then tap **Remove account**.

## Backup and restore

You can configure your device to back up data to your personal accounts.


### Samsung account

You can enable backup of your information to your Samsung account.

- From Settings, tap  **Accounts and backup** > **Backup and restore** for the options under **Samsung account**:
  - **Back up data**: Configure your Samsung account to back up your data.
  - **Restore data**: Use your Samsung account to restore your backup data.


### Google Account

You can enable backup of your information to your Google Account.

- From Settings, tap  **Accounts and backup** > **Backup and restore** for the options under **Google account**:
  - **Back up my data**: Enable back up of application data, Wi-Fi passwords, and other settings to Google servers.
  - **Backup account**: Select a Google Account to be used as your backup account.
  - **Automatic restore**: Enable automatic restoration of settings from Google servers.


## External storage transfer

You can back up your data to an SD card or a USB storage device, or restore backup data using Smart Switch. For more information, see [Transfer data from an old device](#).

- From Settings, tap  Accounts and backup > Backup and restore > External storage transfer.

## Google settings

You can configure your device's Google settings. Available options depend on your Google Account.

- From Settings, tap  Google, and select an option to customize.

## Device maintenance

View the status of your device's battery, storage, and memory. You can also automatically optimize your device's system resources.

[Quick optimization](#) | [Battery](#) | [Storage](#) | [Memory](#) | [Advanced options](#) | [Language and input](#) | [Date and time](#) | [Troubleshooting](#)

## Quick optimization

The quick optimization feature improves device performance through the following actions:


- Identifying apps that use excessive battery power and clearing unneeded items from memory.
- Deleting unnecessary files and closing apps running in the background.
- Scanning for malware.

To use the quick optimization feature:

- From Settings, tap  Device care > Optimize now.


## Battery

View how battery power is used for your various device activities.

- From Settings, tap  **Device care** > **Battery** for the following options:
  - **Battery usage:** View power usage by app and service.
  - **Power mode:** Select a power mode to extend battery life.
  - **App power management:** Configure battery usage for apps that are used infrequently.
  - **Charging:** Enable the following options to support fast charging capabilities:
    - **Fast charging**

## Storage

View your storage capacity and detailed usage by category and file type. You can also mount, unmount, or format an optional memory card (not included).

- From Settings, tap  **Device care** > **Storage**.
  - Tap a category to view and manage files.


## Memory card

Once an optional microSD memory card (not included) has been installed in your device, the card memory is displayed in the Storage setting.

For more information, see [Set up your device](#).


## Mount a memory card

When you install an optional memory card, it is automatically mounted (connected to the device) and prepared for use. However, should you unmount the card without removing it from the device, you need to mount it before it can be accessed.

1. From Settings, tap  **Device care** > **Storage** > **Advanced**.
2. Tap your SD card, and then tap **Mount**.


## Remove a memory card

To prevent damage to information stored on the memory card, unmount the card before removing it from the device.

1. From Settings, tap  **Device care** > **Storage** > **Advanced**.
2. Under **Portable storage**, tap your SD card, and then tap **Unmount**.
3. Remove your memory card from the device.





## Format a memory card

When formatting an SD card, you should back up your music and photo files that are stored on the card because formatting the SD card deletes **ALL** stored files.

1. From Settings, tap  **Device care** > **Storage** > **Advanced**.
2. Under **Portable storage**, tap your SD card, tap **Format**, and then follow the prompts.



## Memory

Check the amount of available memory. You can close background apps and reduce the amount of memory you are using to speed up your device.

- From Settings, tap  **Device care** > **Memory**. The used and available memory are shown.
  - Tap **Clean now** to free up as much memory as possible.
  - Tap **View more** to view the full list of apps and services using memory. Tap  to include or exclude these apps and services.
  - Tap **Apps not used recently** to view apps and services that are included in this group. Tap  to include or exclude these apps and services.
  - Tap **Apps to exclude from cleaning** to view a list of apps that have been excluded. Tap  **Add apps** to choose apps to exclude from memory usage checks.

## Advanced options

Other Device care features are available in the Advanced menu.



- From Settings, tap  **Device care** >  **More options** > **Advanced**. The following options are available:
  - **Notifications:** Enable or disable notifications from Device care.
  - **Auto optimization:** Automatically optimize the device daily.
    - **Time:** Choose a time of day to optimize the device.
    - **Close apps to free up memory:** Enable to free up memory by closing apps that are running in the background.
  - **Auto restart:** Automatically restart the device on a custom schedule.
    - **Days:** Choose one or more days to restart the device.
    - **Time:** Choose a time of day to restart the device.
  - **Optimize settings:** Save battery power by optimizing settings when the device is not in use.
    - **Reduce brightness:** Change brightness settings.
    - **Screen timeout:** Turn off the screen after 30 seconds of inactivity.
    - **Media volume:** Limit playback volume to 46%.

## Language and input

Configure your device's language and input settings.


### Change the device language

You can add languages to your list and organize them according to preference. If an app does not support your default language, then it will move to the next supported language in your list.

1. From Settings, tap  **General management** > **Language and input** > **Language**.
2. Tap  **Add language**, and select a language from the list.
3. Tap **Set as default** to change the device language.
  - To switch to another language on the list, tap the desired language, and then tap **Apply**.


## Default keyboard

You can select a default keyboard for your device's menus and keyboards. Additional keyboards can be downloaded from the Google Play store.

1. From Settings, tap  **General management** > **Language and input**.
2. Tap **On-screen keyboard** > **Default keyboard** and choose a keyboard.


## Google Voice typing

Speak rather than type your text entries using Google Voice™ typing.

1. From Settings, tap  **General management** > **Language and input**.
2. Tap **On-screen keyboard** > **Google Voice typing** to customize settings.


## Manage on-screen keyboards

Enable or disable on-screen keyboards.

1. From Settings, tap  **General management** > **Language and input**.
2. Tap **On-screen keyboard** > **Manage keyboards**.
3. Tap each keyboard to enable or disable.

## Show keyboard button


Show a button on the Navigation bar to quickly switch between keyboards.

1. From Settings, tap  **General management** > **Language and input** > **On-screen keyboard**.
2. Tap **Show keyboard button** to enable this feature.





## Physical keyboards

Customize options when you have a physical keyboard connected to your device (sold separately).

1. From Settings, tap  **General management** > **Language and input**.
2. Tap **Physical keyboard**, and then choose an option:
  - **Show on-screen keyboard**: Show the on-screen keyboard while a physical keyboard is also being used.
  - **Keyboard shortcuts**: Show explanations of the keyboard shortcuts on the screen.
  - **Change language shortcut**: Enable or disable language key shortcuts for your physical keyboard.



## Autofill service

Save time entering information using autofill services.

1. From Settings, tap  **General Management** > **Language and input**.
2. Tap **Autofill service** to view your selected service.
  - Tap  **Settings** to customize your service.
  - Tap **Autofill service** to change your default service.

## Text-to-speech


Configure your Text-to-Speech (TTS) options. TTS is used for various accessibility features, such as Voice Assistant.

- From Settings, tap  **General management** > **Language and input** > **Text-to-speech** for options:
  - **Preferred engine**: Choose either the Samsung or Google Text-to-speech engine. Tap  **Settings** for options.
  - **Language**: Set the default speech language.
  - **Speech rate**: Set the speed at which the text is spoken.
  - **Pitch**: Set the pitch of the speech.

- **Play:** Tap to play a short demonstration of speech synthesis.
- **Reset:** Reset the speech rate and pitch.


## Primary mouse button

You can define which mouse button that you favor as primary.

1. From Settings, tap  **General management** > **Language and input**.
2. Tap **Primary mouse button**, and choose either **Left** or **Right**.

## Date and time

By default, your device receives date and time information from the wireless network. Outside of network coverage, you can set the date and time manually.


- From Settings, tap  **General management** > **Date and time**. The following options are available:
  - **Automatic date and time:** Receive date and time updates from your wireless network. When Automatic date and time is disabled, the following options are available:
    - **Select time zone:** Choose a new time zone.
    - **Set date:** Enter the current date.
    - **Set time:** Enter the current time.
  - **Use 24-hour format:** Set the format for displaying time.

## Troubleshooting

You can check for software updates and, if necessary, reset services on your device.


### Software update

Check for and install available software updates for your device. Options may vary by carrier.

- From Settings, tap  **Software update** for the following options:
  - **Check for software updates:** Manually check for software updates.
  - **Continue update:** Resume an update that was interrupted.
  - **Show software update history:** View a list of all software updates on your device.
  - **Smart updates:** Install security updates automatically.
  - **Use software update assistant:** Connect your device to a computer to use the software update assistant tool.
  - **Download and install:** Check for software updates and install if any are available.
  - **Last update:** View information about the installation of the current software.

### System updates

Check for and install available software updates for your device.


- From Settings, tap  **System updates** for the following options:
  - **Check for system updates:** Manually check for available software updates.
  - **Show system update history:** View previous software updates.
  - **Automatic security updates:** Install security updates automatically.
  - **Use Software Upgrade Assistant:** Install a tool to install system updates.

## Reset

Reset device and network settings. You can also reset your device to its factory defaults.


### Reset all settings

You can reset your device to its factory default settings, which resets everything except the security, language, and account settings. Personal data is not affected.

1. From Settings, tap  **General management** > **Reset** > **Reset settings**.
2. Tap **Reset settings**, and confirm when prompted.


### Reset network settings

You can reset Wi-Fi, mobile data, and Bluetooth settings with Reset network settings.

1. From Settings, tap  **General management** > **Reset** > **Reset network settings**.
2. Tap **Reset settings**, and confirm when prompted.


### Reset accessibility settings

You can reset device accessibility settings. Accessibility settings in downloaded apps and your personal data are not affected.

1. From Settings, tap  **General management** > **Reset** > **Reset accessibility settings**.
2. Tap **Reset settings**, and confirm when prompted.

### Auto restart at set times

Optimize your device by restarting it automatically at set times. Any unsaved data will be lost when the device restarts.

1. From Settings, tap  **General management** > **Reset** > **Auto restart**.
2. Tap  to activate Auto restart, and then set the following parameters:
  - **Days:** Select the day of the week to automatically restart your device.
  - **Time:** Set the time of day to restart your device.

## Factory Data Reset

You can reset your device to factory defaults, erasing all data from your device.

This action permanently erases ALL data from the device, including Google or other account settings, system and application data and settings, downloaded applications, as well as your music, photos, videos, and other files. Any data stored on an external SD card is not affected.

When you sign in to a Google Account on your device, Factory Reset Protection (FRP) is activated. This protects your device in the event it is lost or stolen.

If you reset your device to factory default settings with the FRP feature activated, you must enter the user name and password for a registered Google Account to regain access to the device. You will not be able to access the device without the correct credentials.




**NOTE** If you reset your Google Account password, it can take 24 hours for the password reset to sync with all devices registered to the account.

Before resetting your device:

1. Verify that the information you want to keep has transferred to your storage area.
2. Log in to your Google Account and confirm your user name and password.

To reset your device:

1. From Settings, tap  **General management** > **Reset** > **Factory data reset**.
2. Tap **Reset** and follow the prompts to perform the reset.
3. When the device restarts, follow the prompts to set up your device.

## Factory Reset Protection

When you sign in to a Google Account on your device, Factory Reset Protection (FRP) is activated. FRP prevents other people from using your device if it is reset to factory settings without your permission. For example, if your device is lost or stolen and a factory data reset is performed, only someone with your Google Account username and password can use the device.

You will not be able to access the device after a factory data reset if you do not have your Google Account username and password.




**CAUTION** Before sending your device to Samsung or taking it to a Samsung-authorized service center, remove your Google Account and then perform a factory data reset. For more information, visit [samsung.com/us/support/frp](https://samsung.com/us/support/frp).

## Enable Factory Reset Protection

Adding a Google Account to your device automatically activates the FRP security feature.

## Disable Factory Reset Protection

To disable FRP, remove all Google Accounts from the device.

1. From Settings, tap  **Accounts and backup** > **Accounts** > [Google Account].
2. Tap **Remove account**.


# Accessibility

There are accessibility settings for people who need help seeing, hearing, or otherwise operating their device. Accessibility services are special features that make using the device easier for everyone. For more information about Accessibility for Samsung products, please contact us at [accessibility@sea.samsung.com](mailto:accessibility@sea.samsung.com).

[Screen reader](#) | [Visibility enhancements](#) | [Hearing enhancements](#) | [Interaction and dexterity](#) | [Advanced settings](#) | [Installed services](#) | [About Accessibility](#)

## Screen reader

Use special controls and settings that let you navigate without needing to see the screen.


1. From Settings, tap  **Accessibility** > **Screen reader**.
2. Tap  to enable the feature, and tap an option to customize:
  - **Voice assistant:** Receive spoken feedback when using your device, such as what you touch, select, or activate.
  - **Tutorial:** Learn how to use Voice assistant.
  - **Settings:** Configure TalkBack settings to better assist you.

## Visibility enhancements

You can configure Accessibility features to assist with visual aspects of your device.

### Colors and clarity


You can adjust the colors and contrast of text and other screen elements for easier viewing.

- From Settings, tap  **Accessibility** > **Visibility enhancements** and tap an option:
  - **High contrast theme:** Adjust colors and screen fonts to increase the contrast for easier viewing.
  - **High contrast fonts:** Adjust the color and outline of fonts to increase the contrast with the background.

- **High contrast keyboard:** Adjust the size of the Samsung keyboard and change its colors to increase the contrast between the keys and the background.
- **Show button shapes:** Show buttons with shaded backgrounds to make them stand out better against the wallpaper.
- **Color inversion:** Reverse the display of colors from white text on a black background to black text on a white background.
- **Remove animations:** Remove certain screen effects if you are sensitive to motion.
- **Color correction:** Adjust the color of the screen if you find it difficult to see some colors.

### Size and zoom

You can increase the size of supported screen elements and create shortcuts for accessibility features on your device.

- From Settings, tap  **Accessibility** > **Visibility enhancements** and tap an option:
  - **Magnifier window:** Magnify content shown on the screen.
  - **Magnification:** Use exaggerated gestures such as triple-tapping, double pinching, and dragging two fingers across the screen.
  - **Large mouse/touchpad pointer:** Use a large pointer for a connected mouse or touchpad (accessories not included).
  - **Font size and style:** Configure screen fonts.
  - **Screen zoom:** Configure the screen zoom level.




## Hearing enhancements

You can configure Accessibility features to assist with aural aspects of the device. Options may vary by carrier.


### Sounds

You can adjust audio quality when using hearing aids or earphones.

- From Settings, tap  **Accessibility** > **Hearing enhancements** and tap an option:
  - **Real time text:** Activate real-time text (RTT) calling.
  - **Hearing aid support:** Improve the sound quality to work better with hearing aids.

### Text display

You can convert speech to text and watch closed captions when viewing multimedia.


- From Settings, tap  **Accessibility** > **Hearing enhancements** and tap an option:
  - **Live Transcribe:** Use the microphone to record speech and convert it to text.
  - **Subtitle settings:** Configure closed caption and subtitle services.

## Interaction and dexterity

You can configure Accessibility features to assist with limited dexterity when interacting with your device.


### Alternate input

You can control your device using different kinds of inputs and controls.

- From Settings, tap  **Accessibility** > **Interaction and dexterity** and tap an option:
  - **Universal switch:** Control your device with your customized switches.
  - **Assistant menu:** Improve device accessibility for users with reduced dexterity.


## Interactions

You can simplify the motions needed to answer phone calls or respond to notifications and alarms.

- From Settings, tap  **Accessibility** > **Interaction and dexterity** and tap an option:
  - **Answering and ending calls:**
    - **Read caller names aloud:** Hear callers' names read aloud when using Bluetooth or headsets (sold separately).
    - **Answer automatically:** Answer calls after a set duration when using Bluetooth or headsets (sold separately).
    - **Press Volume up to answer:** Use the Volume keys to answer calls.
    - **Press Side key to end calls:** End calls by pressing the Side key.
  - **Interaction control:** Customize areas of screen interactions, hardkeys, and the keyboard.


## Touch settings

You can adjust your screen to be less sensitive to taps and touches.

- From Settings, tap  **Accessibility** > **Interaction and dexterity** and tap an option:
  - **Touch and hold delay:** Select a time interval for this action.
  - **Tap duration:** Set how long an interaction must be held to be recognized as a tap.
  - **Ignore repeated touches:** Set a time duration in which to ignore repeated touches.

## Mouse and physical keyboard


Configure settings for a connected mouse and physical keyboard.

- From Settings, tap  **Accessibility** > **Interaction and dexterity** and tap an option:
  - **Click after pointer stops:** Automatically click on an item after the pointer stops over it.
  - **Sticky keys:** When you press a modifier key like Shift, Ctrl, or Alt, the key stays pressed down, which allows you to enter keyboard shortcuts by pressing one key at a time.


- **Slow keys:** Set how long a key must be held before it is recognized as a press, which helps avoid accidental key presses.
- **Bounce keys:** Set how long to wait before accepting a second press from the same key, which helps avoid accidentally pressing the same key multiple times.

## Advanced settings


You can customize additional accessibility features and services for your device.

 **TIP** Additional accessibility apps may be downloaded from the Google Play store.

## Accessibility shortcuts

- From Settings, tap  **Accessibility** > **Advanced settings** and tap an option:
  - **Side and Volume up keys:** Configure selected Accessibility features to open by quickly pressing the Side and Volume up keys at the same time.
  - **Volume up and down keys:** Configure selected services to turn on when you press and hold the Volume up and Volume down keys for three seconds.


## Notifications

- From Settings, tap  **Accessibility** > **Advanced settings** and tap an option:
  - **Flash notification:** Flash either the camera light or the screen when you receive notifications or when alarms sound.
  - **Notification reminders:** Set periodic reminders for any unread notifications.
  - **Time to take action:** Choose how long to show messages that ask you to take action, but are visible only temporarily (like notifications).

## Installed services


You can install additional assistance services for your device.

- From Settings, tap  **Accessibility** > **Installed services**.

 **NOTE** Additional accessibility services are listed and configured here after they are installed.

## About Accessibility

Legal and license information about the current Accessibility software is available in Settings.

- From Settings, tap  **Accessibility** > **About Accessibility**. The following information is available:
  - **Version:** View the current Accessibility software version.
  - **Open source licenses:** View information for the open source licenses used for Accessibility.

## Other settings

Configure features on your device that make it easier to use.

[Tips and help](#) | [Dual Messenger](#) | [About phone](#)



## Tips and help

View the user manual for your device.

- From Settings, tap  **Help**.


## Dual Messenger

Use two separate accounts for the same app.

1. From Settings, tap  **Advanced features** > **Dual Messenger**.
2. Tap  next to supported apps to enable the feature for each app.
  - To select which contacts have access to the secondary messenger app, tap **Use separate contacts list**.

## About phone

View information about your device, including current status, legal information, hardware and software versions, and more.

1. From Settings, tap  **About phone** to view your phone number, model number, serial number, and IMEI information.
2. Tap additional items to view more information about your device.

 **TIP** You can view your device's FCC ID from **About phone > Status**.

# Learn more

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## Videos

[youtube.com/samsungcare](https://youtube.com/samsungcare)

## Samsung Care+

[samsung.com/us/support](https://samsung.com/us/support)

## Talk to an agent

Contact us on Facebook Messenger

Find us on Facebook

Follow us on Twitter

## Tips

[samsung.com/us/support/tips](https://samsung.com/us/support/tips)

# Legal information

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READ THIS INFORMATION BEFORE USING YOUR MOBILE DEVICE.

Arbitration Agreement - This Product is subject to a binding arbitration agreement between you and SAMSUNG ELECTRONICS AMERICA, INC. ("Samsung"). You can opt out of the agreement within 30 calendar days of the first consumer purchase by emailing [optout@sea.samsung.com](mailto:optout@sea.samsung.com) or calling 1-800-SAMSUNG (726-7864) and providing the applicable information.

The full Arbitration Agreement, Standard One-year Limited Warranty, End User License Agreement (EULA), and Health & Safety Information for your device are available online:

Phone:

- English: [samsung.com/us/Legal/Phone-HSGuide](https://samsung.com/us/Legal/Phone-HSGuide)
- Spanish: [samsung.com/us/Legal/Phone-HSGuide-SP](https://samsung.com/us/Legal/Phone-HSGuide-SP)

This information can also be found on the device in the "About device" or "About phone" or "About tablet" section, for example:

- Settings > About phone or About device or About tablet > Legal information > Samsung legal
- Or, search "Legal"

If your device required Federal Communications Commission (FCC) approval, you can view the FCC certification by opening Settings > About phone or About device or About tablet > Status information.

## Restricting children's access to your mobile device

Your device is not a toy. Do not allow children to play with it because they could hurt themselves and others, damage the device, or make calls that increase your device bill. Keep the device and all its parts and accessories out of the reach of small children.

# Samsung Electronics America, Inc.

Address:

85 Challenger Road  
Ridgefield Park  
New Jersey 07660

Phone: 1-800-SAMSUNG (726-7864)

Internet: [samsung.com](http://samsung.com)

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Some multimedia (audio/video) files contain Digital Rights Management (DRM) technology to verify you have the right to use the files. Preloaded apps on your device may not be compatible with DRM-protected files.

Screen images are simulated. Appearance of device may vary.

The actual available capacity of the internal memory is less than the specified capacity because the operating system and default applications occupy part of the memory. The available capacity may change when you upgrade the device.

Please check with your service provider to verify qualifying services/features.



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