

## USER MANUAL OF GALAXY SMART PHONE



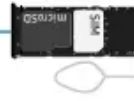
### Charge the battery

Your device uses a nano-SIM card. A SIM card may be preinstalled, or you may be able to use your previous SIM card. Network indicators for 5G service are based on your carrier's specifications and network availability. Contact your carrier for more details.

**NOTE** Use only Samsung-approved chargers and cables. To avoid injury or damage to your device, do not use incompatible, worn or damaged batteries, chargers or cables. Using other charging devices and batteries may void your warranty and may cause damage. For more

information on your device, including charging compatibility, please visit [samsung.com](https://www.samsung.com).

**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.

Your device is powered by a rechargeable battery.


**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.


## Settings

### 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. Getting started

**NOTE** Best 5G performance requires optimal 5G connection and unobstructed antennas (rear of device); see carrier for network availability; 5G performance may be impacted by a case or cover.

### Bring data from an old device

Download 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.

1. From Settings, tap  Accounts and backup > Bring data from old device.
2. Follow the prompts and select the content to transfer.

### 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.



**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.

When you sign in to a Google Account and set a Lock screen, Google Device Protection is activated. This service requires your Google Account information when resetting to factory settings.

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



### *Add a Samsung account*

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

- From Settings, tap 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 > Manage 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 may 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

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**

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.

**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  Wallpapers.

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 to the Home screen, and tap Add.

## Home screen settings

Customize your Home and Apps screens.

1. From a Home screen, touch and hold the screen.
2. Tap  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.
  - Folder grid: Choose a layout to determine how folders are arranged.
  - Show Apps screen button on Home screen: Add a button to the Home screen for easy access to the Apps screen.
  - Lock Home screen layout: Prevent items on the Home screen from being removed or repositioned.
  - Add new apps to Home screen: Automatically add newly-downloaded apps to the Home screen.
  - 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.
  - App icon badges: Enable to show badges on apps with active notifications. You can also choose the badge style.
  - 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.
  - About Home screen: View version information.

## 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



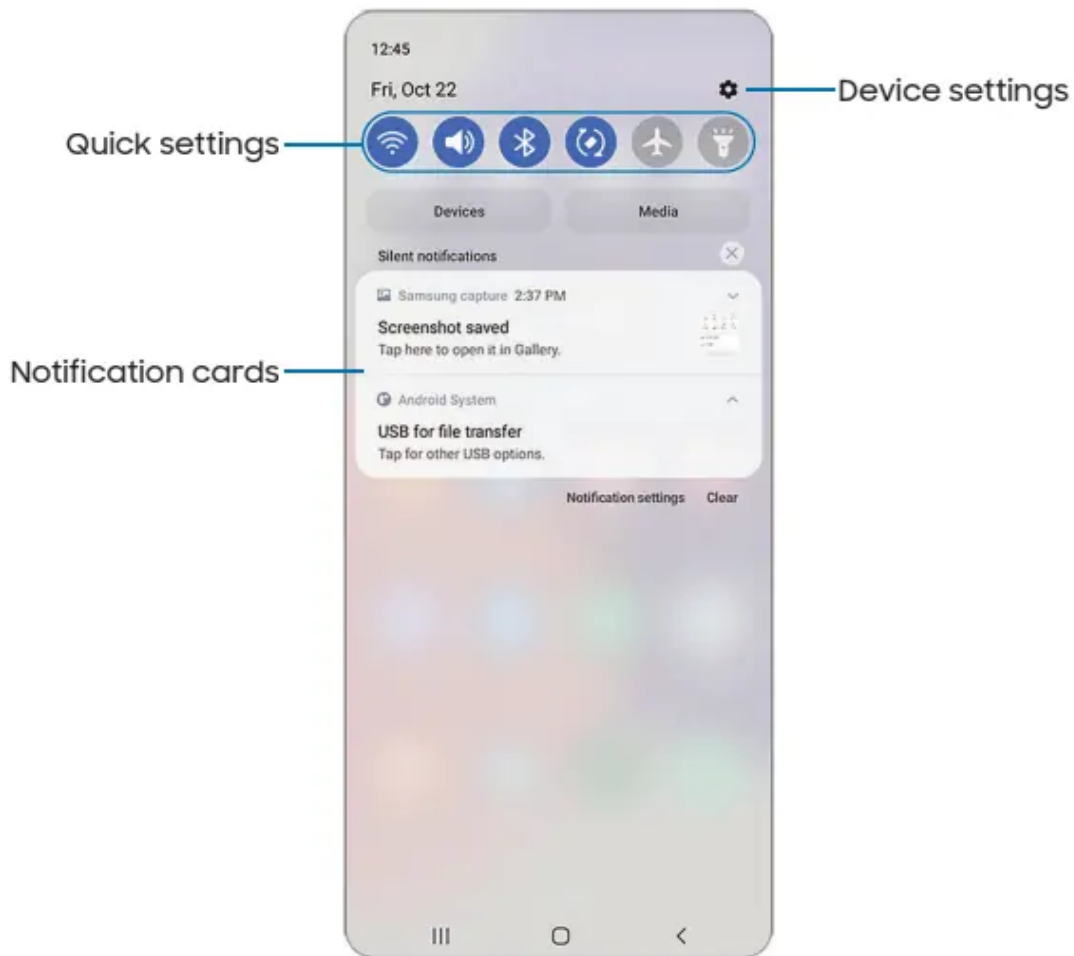
Upload



App update

## 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.

## Finger sensor gestures

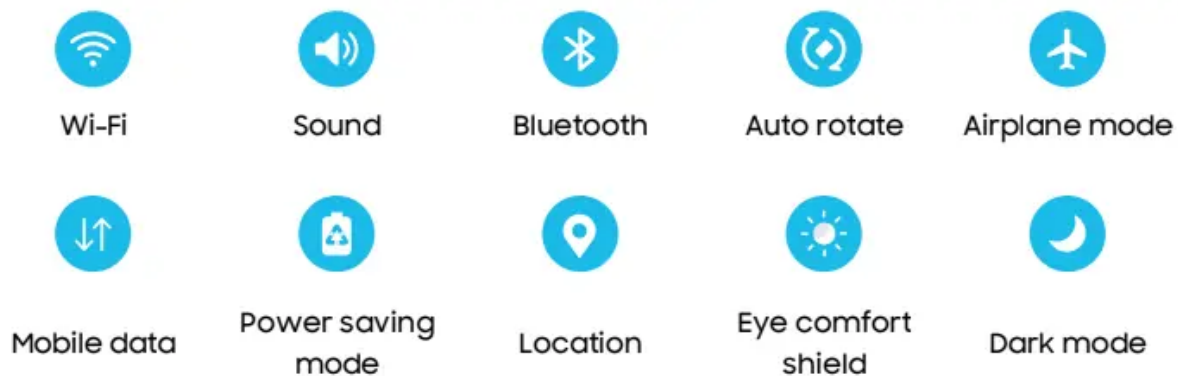
You can also open or close the Notification panel by swiping up or down on the fingerprint sensor.

1. From Settings, tap  Advanced features > Motions and gestures > Finger sensor gestures.
2. Tap  to enable the feature.

## Quick settings





The Notification panel provides quick access to device functions using Quick settings. The icons below show the most common settings available in Quick settings. Icon colors change when enabled and disabled. Other settings may be available on your device.

1. Drag the Status bar down to display the Notification panel.
2. Swipe down again from the top of the screen to display Quick settings.
  - Tap a quick setting icon to turn it on or off.
  - Touch and hold a quick setting icon to open the setting.




## Quick settings options

The following options are available in Quick settings.

-  Finder search: search the device.
-  Power off: Power off, Emergency mode, and Restart options.
-  Open settings: Quickly access the device's settings menu.
-  More options: Reorder Quick settings or change the button layout.
- Devices: Control other devices when supported apps like SmartThings or Google Home are installed.
- Media: Access the Media panel and control playback of connected audio and video devices.
- Brightness slider: Drag to adjust the screen brightness.

## 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.
- 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.
- Bedtime mode: Schedule when to change the screen to grayscale and mute calls, alerts, and other sounds.

### **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.
  - Add alternative look: Enhance face recognition by adding an alternative appearance.
  - Getting started
  - Face unlock: Enable or disable face recognition security.
  - Stay on Lock screen until swipe: When you unlock your device with face recognition, stay on the Lock screen until you swipe the screen.
  - Faster recognition: Turn on for faster face recognition. Turn off to increase security and make it harder to unlock using an image or video of your likeness.
  - Require open eyes: Facial recognition will only recognize your face when your eyes are open.
  - 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.


### Fingerprint scanner

Use fingerprint recognition as an alternative to entering passwords in certain apps. You can also use your fingerprint to verify your identity when logging in to your Samsung account. To use your fingerprint to unlock your device, you must set a pattern, PIN, or password.

1. From Settings, tap  Biometrics and security > Fingerprints.
2. Follow the prompts to register your fingerprint.

### Fingerprint management


*Add, delete, and rename fingerprints.*

- From Settings, tap  Biometrics and security > Fingerprints for the following options:
  - The list of registered fingerprints is at the top of this list. You can tap a fingerprint to remove or rename it.
  - Add fingerprint: Simply follow the prompts to register another fingerprint.
  - Check added fingerprints: Scan your fingerprint to see if it has been registered.

Getting started


### *Fingerprint verification settings*

Use fingerprint recognition to verify your identity in supported apps and actions.

- From Settings, tap  Biometrics and security > Fingerprints.
  - Fingerprint unlock: Use your fingerprint for identification when unlocking your device.
  - Fingerprint always on: Scan your fingerprint even when the screen is off.
  - Use to sign in to websites: Use your fingerprints to sign in to websites.
  - Use with Samsung account: Use your fingerprints to verify your identity instead of your Samsung account password.
  - About unlocking with biometrics: Read details on the requirements each biometric security feature has for using your pattern, PIN, or password as a backup.

### **Biometrics settings**

Configure your preferences for biometric security options.



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

### **Mobile continuity**

Access storage and other functions of your device across compatible mobile devices and computers.


### **Continue apps on other devices**

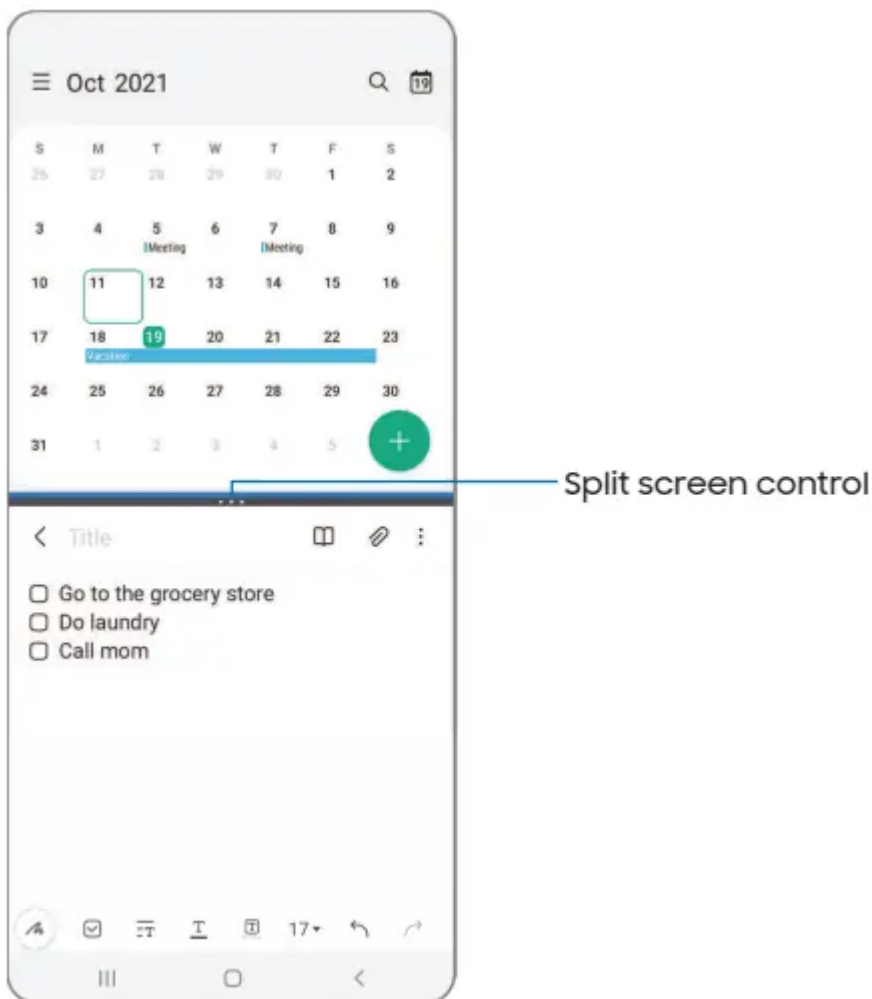
This feature allows you to pick up where you left off on your Galaxy devices that are signed in to your Samsung account. The Samsung Internet and Samsung Notes apps are supported.

1. From Settings, tap  Advanced features > Continue apps on other devices.
2. Tap  to turn on the feature. Connection occurs automatically.
3. Sign in to your Samsung account on your Galaxy devices.

## 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.

## 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

- Predictive text: As you type see suggested words and phrases.
- Suggest emojis: Include emojis when using predictive text.
- Auto replace: Automatically replace what you type with predictive text recommendations.
- Auto spell check: Underline misspelled words in red and suggest corrections.
- More typing options: Customize additional typing options.

## Style and layout


- Keyboard toolbar: View or hide the keyboard toolbar.
- High contrast keyboard: Adjust the size of the Samsung keyboard and change its colors to increase the contrast between the keys and the background.
- Theme: Choose a theme for your keyboard.
- Mode: Choose between portrait and landscape mode.
- Size and transparency: Adjust the size and transparency of the keyboard.
- Layout: Display numbers and special characters on the keyboard.
- Font size: Drag the slider to adjust the font size.
- Custom symbols: Change the symbol shortcuts on the keyboard.

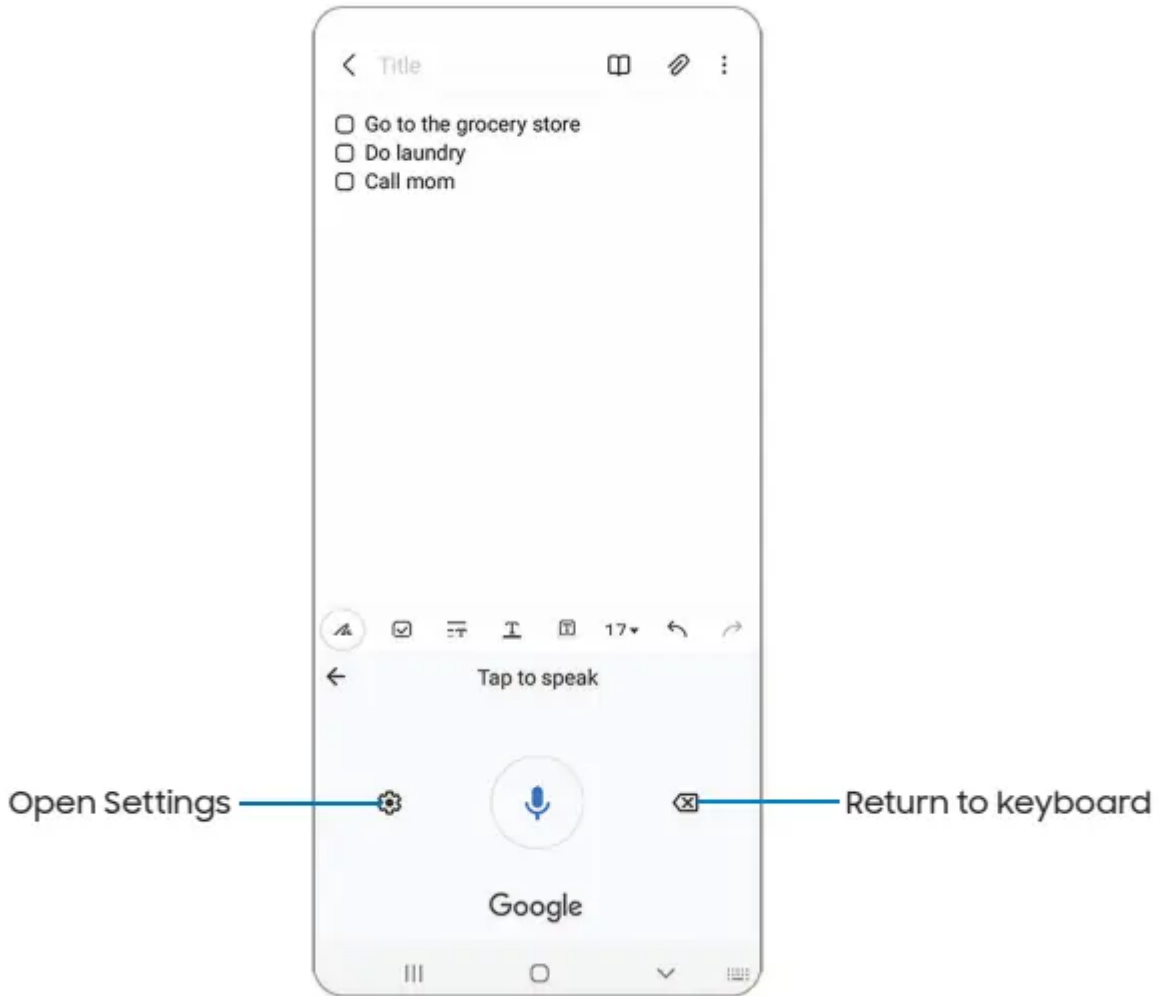
## Other settings

- Swipe, touch, and feedback: Customize gestures and feedback.
- Select third-party content to use: 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.

- From the Samsung keyboard, tap  Voice input 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.
  - Block offensive words: Hide potentially offensive words with asterisks.
  - Languages: Choose the language for the keyboard.
  - Primary language: Choose a primary language if more than one language is selected.


# 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.

## To activate Emergency mode:

1. Press and hold the Side key.
2. Tap  Emergency mode.
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.

- Estimated battery life: Displays estimated remaining battery charge time based on current battery charge and usage.
- Flashlight: Use the device's flash as a steady source of light.
- Emergency alarm: Sound an audible siren.
- Phone: Launch the call screen.
- Share/Message my location: Send your location information to your emergency contacts.
- Internet/Chrome: Launch the web browser.
- 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.
  - Edit: Add or remove apps 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.

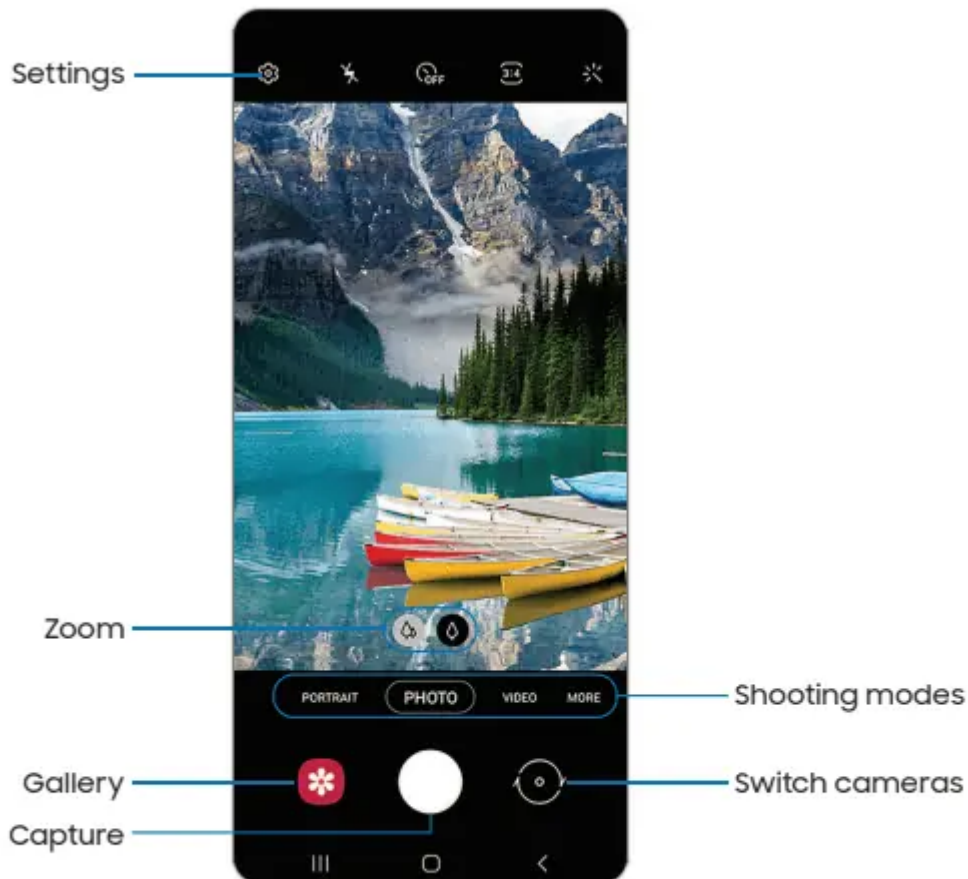
## Turn off Emergency mode

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

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

## Camera and Gallery


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.




### Take a picture

#### 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.
- Portrait: Adjust the background of your shots for portrait photos.
- 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.
  - Deco Pic: Decorate photos or videos in real time with the camera.
  - 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.
  - Food: Take pictures that emphasize the vivid colors of food.
  - Macro: Capture close-up images of objects from 3-5 cm away.


### 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

### Pictures

- Swipe Shutter button to: Choose to either take a burst shot or create a GIF when you swipe the shutter to the nearest edge.
- HEIF pictures: Save pictures as high efficiency images to save space. Some sharing sites may not support this format.

### Selfies

- Save selfies as previewed: Save selfies as they appear in the preview without flipping them.

### Videos

- High efficiency videos: Record videos in HEVC format to save space. Other devices or sharing sites may not support playback of this format.

### Useful features

- Auto HDR: Capture more detail in the bright and dark areas of your shots.
- 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 keys 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.

**Watermark:** Add a watermark to the bottom left corner of your pictures.

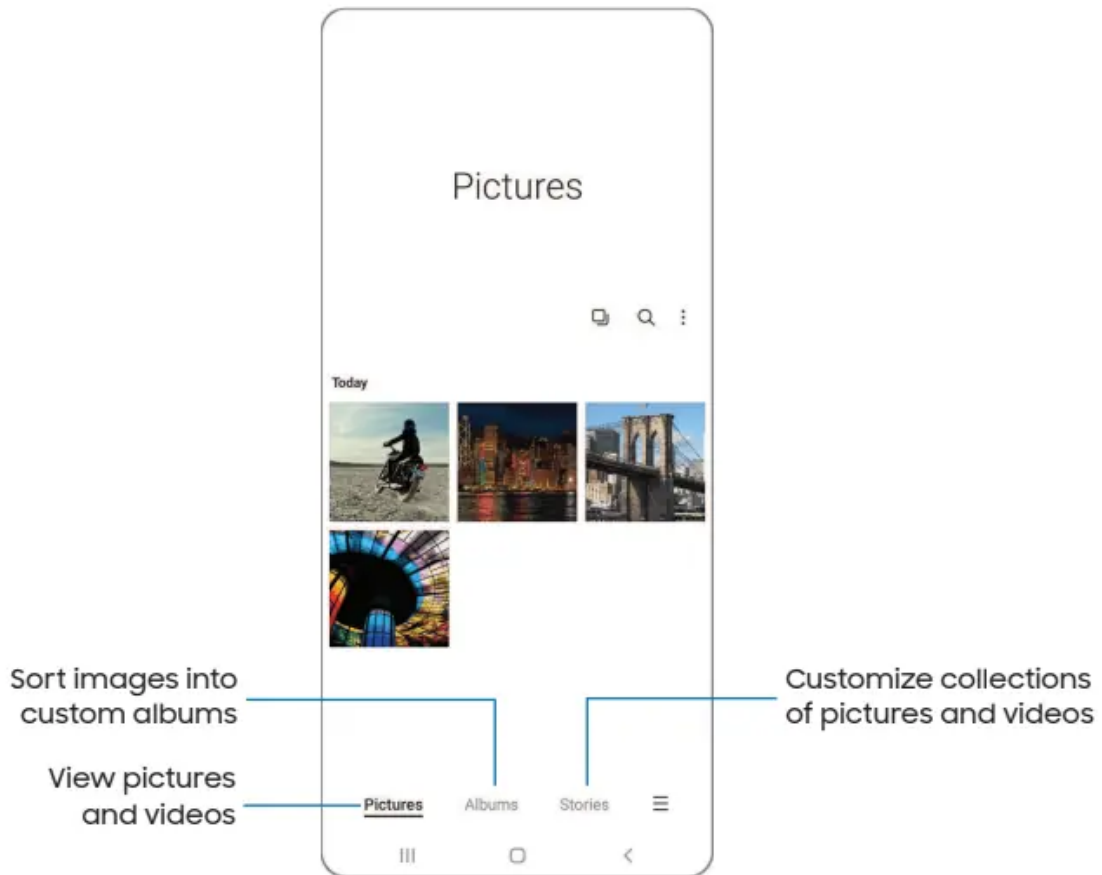
**Shutter sound:** Play a tone when taking a picture.

**Reset settings:** Reset the Camera settings.

## Gallery




Go to the Gallery to look at 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:
    - Details: View and edit information about the picture.
    - Set as wallpaper: Set the picture as wallpaper.
    - Copy to clipboard: Copy the image to paste in another app.
    - Move to Secure Folder: Move the picture to a Secure Folder.
    - 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.
  - Revert: Undo the changes applied to restore the original 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:
    - Details: View and edit information about the video.
    - Set as wallpaper: Set the video as wallpaper on the Lock screen.
    - Move to Secure Folder: Add this video to your Secure Folder.
3. Tap  Play video to play the video.

## Edit video

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

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.

## Screenshot

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

## Apps

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 > 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.


**TIP** When apps are arranged manually (Custom order), empty icon spaces can be removed by tapping  More options > Clean up pages.

### Create and use folders

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

- 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.

- From Settings, tap  Apps. Tap an option to customize:
  - Choose default apps: Choose which apps to use for making calls, sending messages, going to websites, and more.
  - Samsung app settings: View a list of Samsung apps and customize their settings.



- Your apps: Tap an app to view and update information about its privacy and usage settings. Options vary by app.

**TIP** To reset app options that have been changed, tap More options > Reset app preferences.

## Connections



### 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.

**TIP** Tap  **QR scanner** to connect to a Wi-Fi network by using your device's camera to scan a QR code.

### 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.
- 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.

## 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

- 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.

## 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:
  - Sync with Samsung Cloud: Sync files transferred through Bluetooth with your Samsung account.
  - Music Share: Let friends play music on your Bluetooth speaker or headphones.
  - 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.
  - Block pairing requests: Add devices to block pairing requests.

## Settings



### NFC and payment

Near Field Communication (NFC) allows you to communicate with another device without connecting to a network. This technology is used by Android Beam and certain payment apps. The device that you are transferring to needs to support NFC, and it needs to be within four centimeters of your device.

- From Settings, tap  Connections > NFC and contactless payments, and then tap  to turn on this feature.



### Tap and pay

Use an NFC payment app to make payments by touching your device to a compatible credit card reader.

1. From Settings, tap  Connections > NFC and contactless payments, and then tap  to turn on NFC.
2. Tap Contactless payments to see the default payment app.
  - To use another payment app, tap an available app to choose it.
  - To use a payment app that is open, tap Pay with currently open app.
  - To set another payment service as the default, tap Others, and then tap the service you prefer.

## 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.

**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.

## 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.
  - Mobile data: Enable mobile data usage.
  - International data roaming: Change voice, text and data roaming settings for international roaming.
  - Allow 2G service: Permit the use of 2G service in areas with limited cellular coverage.
  - 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.

**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.
  - International data roaming: Enable mobile data services while roaming internationally.
  - Mobile data only apps: Set apps to always use mobile data, even when your device is connected to Wi-Fi.
  - 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.

### 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.

**TIP** Tap **QR code**  to connect another device to your Mobile hotspot by scanning a QR code instead of entering a password.



### 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 Configure for the following settings:
  - Network name: View and change the name of your Mobile hotspot.
  - 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.
  - Band: Select one of the available bandwidth options.
  - Advanced: Configure additional Mobile hotspot settings.



### Auto hotspot

Share your hotspot connection automatically with other devices signed in to your Samsung account.

1. From Settings, tap  Connections > Mobile hotspot and tethering > Mobile hotspot.
2. Tap Auto hotspot, and tap  to enable the feature.



### 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:
  - Connect the computer to the device using a USB cable, and then tap USB tethering.
  - Connect the computer to the device using an Ethernet adapter, and then tap Ethernet 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

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.

### Vibrations

You can control how and when your device vibrates.


1. From Settings, tap  Sounds and vibration.

2. Tap options to customize:

- Call vibration pattern: Choose from preset vibration patterns for calls.
- Notification vibration pattern: Choose from preset vibration patterns for notifications.
- Vibration intensity: Set vibration intensity levels for calls, notifications, and touch interactions by dragging the sliders.

## 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. Options may vary by carrier.

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.

## 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.

- From Settings, tap Sounds and vibration > Sound quality and effects for the following options:
  - Dolby Atmos: Experience breakthrough audio that flows above and around you.
  - Dolby Atmos for gaming: Apply Dolby Atmos optimized for gaming.

Settings



## Equalizer

Choose an audio preset that is customized to different genres of music, or manually change your audio settings.

1. From Settings, tap  Sounds and vibration > Sound quality and effects.
2. Tap Equalizer to choose a music genre.

## Adapt sound


Customize the sound for each ear and enhance your listening experience.

1. From Settings, tap  Sounds and vibration > Sound quality and effects > Adapt sound.
2. Tap Adapt sound for to select when to change the sound settings.
3. Tap the sound profile that fits you best, and tap  Settings to customize.

**TIP** Tap Test my hearing to let your device identify the best sound for 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.

### Notification pop-up style

- From Settings, tap  Notifications, and then choose a pop-up style:
  - Brief: Enable customization of your notification colors, lighting style, and included apps.
    - Included apps: View brief notifications for your apps.
    - Brief pop-up settings: Customize the Edge lighting style, colors, and enable notifications to show even while the screen is off.
  - Detailed: Enable the default Samsung Notification settings.

## Do not disturb


Do not disturb allows you to block sounds and notifications while this mode is turned on. You can also specify exceptions for people, apps, and alarms. You can also set a schedule for recurring events like sleep or meetings.

From Settings, tap  Notifications > Do not disturb and configure the following:

- Do not disturb: Enable Do not disturb to block sounds and notifications.
- For how long?: Choose a default duration for Do not disturb mode when you enable it manually.
- Schedule
  - Sleeping: Customize a schedule for Do not disturb mode while you are sleeping.

- Add schedule: Create a new schedule to configure the days and times to regularly put your device in Do not disturb mode.
- Exceptions
  - Calls, messages, and conversations: Tap to allow Do not disturb exceptions.
  - Alarms and sounds: Enable sounds and vibrations for alarms, events, and reminders while Do not disturb mode is active.
  - Apps: Add apps that you would like to receive notifications from in Do not disturb mode. Call, message, and conversation notifications will still reach you even if you don't allow the associated apps.
  - Hide notifications: View customization options to hide notifications.

## Advanced settings

From Settings, tap  Notifications > Advanced settings.


- Show notification icons: Modify how many notifications appear on the Status bar.
- Show battery percentage: Display the current battery life of your device on the Status bar.
- Notification history: Display recent and snoozed notifications.
- Conversations: View conversation notifications. Touch and hold a conversation notification to mark it as priority, set it as alerting, or silent.
- Floating notifications: Enable floating notifications in either Bubbles or Smart pop-up view.
- Suggest actions and replies for notifications: Get applicable suggestions for actions to notifications and replies to messages.
- Notification reminders: Enable and customize periodic reminders about notifications from selected apps and services. Clear notifications to stop the reminders.
- 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.
- Wireless Emergency Alerts: Customize notifications for emergency alerts.

## Display

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

## 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 for the following options:

- Light: Apply a light color theme to your device (default).
- Dark: Apply a dark color theme to your device.
- Dark mode settings: Customize when and where Dark mode is applied.
  - Turn on as scheduled: Configure Dark mode for either Sunset to sunrise or Custom schedule.
  - 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.


## Motion smoothness

Get smoother scrolling and more realistic animations by increasing the screen's refresh rate.

1. From Settings, tap Display > Motion smoothness.
2. Tap an option, and then tap Apply.

## Eye comfort shield


This 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 > Eye comfort shield, and then choose one of the following options:

- Tap Set schedule and choose Always on, Sunset to sunrise, or Custom.
- Drag the Color temperature slider to set the opacity of the filter.

## 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, excluding Always On Display, may result in permanent ghost-like afterimages or degraded image quality. Turn off the display screen when not in use.

## 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.

Tap Preview for a demonstration of the selected Screen saver.

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


## Lift to wake

Turn on the screen by lifting the device.

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


## Double tap to turn on screen

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

From Settings, tap  Advanced features > Motions and gestures > Double tap to turn on screen to enable this feature.


## Double tap to turn off screen

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

From Settings, tap  Advanced features > Motions and gestures > Double tap to turn off screen to enable this feature.




## Keep screen on while viewing

Use the front camera to detect when you're looking at the screen to keep it turned on.

From Settings, tap  Advanced features > Motions and gestures > Keep screen on while viewing, and tap to enable the 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



### 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:
  - Icons only: Show only notification icons with no details on the lock screen.
  - Details: Display notification details on the lock screen.
  - 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.

## Clock and information


You can configure features that appear on the Lock screen, like the clock and other useful information.

From Settings, tap  Lock screen for the following options:

- Wallpaper services: Enable additional features such as guide page and
- Dynamic Lock Screen.
- Clock style: Set the type and color of the clock on the Lock screen.
- Roaming clock: Show the time both where you are and at home while you are roaming.
- Widgets: Enable widgets on the Lock screen to get quick access to useful information.
- Contact information: Show your contact information, such as your phone number or email address.
- Notifications: Select which notifications to display on the Lock screen.
- Shortcuts: Select which app shortcuts to add to the Lock screen.
- About Lock screen: Update the Lock screen's software.

## 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: View the current software version and 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.

## Secure Folder

You can create a secure folder on your device to protect private content and apps from anyone who may be using your device. You must sign in to your Samsung account to set up and use Secure folder.

From Settings, tap  Biometrics and security > Secure Folder and follow the prompts to secure content on your device.

## Private Share


Share files privately, prevent recipients from resharing, and set expiration dates.

Keep your data safe with blockchain technology.

From Settings, tap Biometrics and security > Private share, and follow the prompts to add files.


## Password for factory data reset

You can require a password to reset your device to factory default settings. Options may vary by carrier.

From Settings, tap  Biometrics and security > Other security settings > Set up/change password and enter a password.

## 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. Options may vary by carrier.
  - 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/phone 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.

## 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

### 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.


1. From Settings, tap  Accounts and backup > Manage accounts.
2. Tap an account to customize its settings.

### Backup and restore

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


### *Google Account*

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

1. From Settings, tap  Accounts and backup.
2. Under Google Drive, tap Back up data.

### *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 Bring data from an old device.

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


## **Device maintenance**

### **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  Battery and device care > Optimize now.

### **Battery**


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

From Settings, tap  Battery and device care > Battery for the following options:

- Usage since last full charge: View your recent battery usage by time, app, and service.
- Power saving mode: Save battery life by limiting background network usage, syncing, and location checking. Choose from additional power saving options to save more power when this mode is enabled.
- Background usage limits: View apps that you don't use often and limit their battery usage. To disable this feature, tap Put unused apps to sleep.
- More battery settings: Configure additional battery settings and notifications.

## 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).

1. From Settings, tap  Battery and device care > Storage.
2. 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  Battery and device care > Storage > More options > 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  Battery and device care > Storage > More options > Advanced.
2. 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  Battery and device care > Storage >  More options > Advanced.
2. 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  Battery and 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 Excluded apps to view a list of apps that have been excluded.

Tap  Add apps to choose apps to exclude from memory usage checks.

## Advanced device care options

Other Device care features are available in the Advanced menu.

From Settings, tap  Battery and device care. The following options are available:



-  Search: Find panels that are either installed or available to install.
-  Care report: View information about the restart history and charging and temperature tips.
-  More options:
  - Add to Apps screen: Display the icon for Device care on the Apps screen.
  - Automation: Optimize your device automatically at set times based on your usage patterns.
  - Contact us: Contact Samsung support through Samsung members.
  - About Device care: View version and license information about the Device care feature.

## 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.
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.

## 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 > 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.

## Keyboard list and default

Change your default keyboard, modify built-in keyboards, and change keyboard settings.

From Settings, tap  General management > Keyboard list and default for the following options:

- Default keyboard: Choose a default keyboard for your device's menus and keyboards.
- Samsung keyboard: Modify settings for the Samsung keyboard.
- Google voice typing: Modify settings for Google Voice input.
- Keyboard button on navigation bar: Enable a button on the Navigation bar to quickly switch between keyboards.

## Physical keyboards

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


1. From Settings, tap General management.

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.

## Mouse and trackpad



Configure pointer speed and button assignments for an optional mouse or trackpad not included).

From Settings, tap  General management > Mouse and trackpad.

- Pointer speed: Drag the slider to the right to go faster or to the left to go slower.
- Wheel scrolling speed: Drag the slider to the right to scroll faster or to the left to scroll slower.
- Enhance pointer precision: Enable to make the mouse cursor move faster or slower depending on how fast you move your mouse.
- Primary mouse button: Choose either the Left or Right mouse button to be your primary button.
- Secondary button: Choose the action of your secondary mouse button.
- Middle button: Choose the action of your middle mouse button.
- Additional button 1: Choose an action for another available mouse button.
- Additional button 2: Choose an action for another available mouse button.

## Autofill service

Save time entering information using autofill services.

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

## Troubleshooting

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

## Software update/System updates

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

From Settings, tap Software update/System updates for the following options:

- Check for updates: Manually check for software updates.
- Continue update: Resume an update that was interrupted.

## 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 all 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 at set times.
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.

If you sign in to a Google Account on your device and set a Lock screen, Google Device Protection is automatically enabled.

**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.

## Google Device Protection

When you sign in to a Google Account on your device and set a Lock screen, Google

Device Protection is enabled. This service protects your phone from unauthorized factory data resets by requiring your Google account information to verify your identity. For more information, visit [samsung.com/us/support/answer/ANS00083965](https://samsung.com/us/support/answer/ANS00083965).

### Enable Google Device Protection

Adding a Google Account to your device and setting a Lock screen automatically activates Google Device Protection.

### Disable Google Device Protection

To disable Google Device Protection, you can either remove all Google Accounts from the device or remove the Lock screen.

*To remove Google accounts:*

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

*To remove a secure Lock screen:*

1. From Settings, tap Lock screen > Screen lock type.

2. Tap either Swipe or None.

## **Accessibility**

### **TalkBack**

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

1. From Settings, tap Accessibility > TalkBack.
2. Tap to enable the feature, and tap an option to customize:
  - TalkBack shortcut: Choose a shortcut to quickly turn on TalkBack.
  - 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.
- Highlight buttons: 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.
- Color correction: Adjust the color of the screen if you find it difficult to see some colors.
- Remove animations: Remove certain screen effects if you are sensitive to motion.

### **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 audial 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.
- Adapt sound: Customize the sound for each ear and enhance your listening experience. See Adapt sound.
- Left/right sound balance: Use the slider to adjust the left and right balance when listening to audio in stereo.
- Mono audio: Switch audio from stereo to mono when using one earphone.
- Mute all sounds: Turn off all notifications and audio for privacy.

### ***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.
- Google subtitles (CC): Configure closed caption and subtitle services.
- Sound notifications: Receive alerts when the device detects a baby crying or a doorbell.

## **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 calls: 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.

## 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:

- Accessibility button: Choose an accessibility shortcut for the Accessibility button.
- 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.
- Time to take action: Choose how long to show messages that ask you to take action, but are visible only temporarily (like notifications).
- Speak keyboard input aloud: The device will read aloud what you type on the keyboard.
- Voice Label: Write voice recordings to NFC tags (not included) to provide you with information about objects or locations as you near them.

### Warning

This content is compiled from multiple sources and is provided for reference purposes only. It may not be complete or fully applicable to all situations. If you are unable to resolve your issue, please contact the product manufacturer or an authorized service provider for official support.

---

Document generated by [ManualsFile](#)

