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Features

Meet Bixby
Bixby learns what you like to do and works with your favorite apps and services to help you get more done. See Bixby on page 23.

Camera
The camera on your device has several unique features. See Camera on page 44.

Night mode
Use a darker theme to keep your eyes comfortable at night. See Night mode on page 94.

Expandable storage
Expand storage with a supported microSD™ card. See Memory card on page 97.

Security
Use your face or fingerprint to unlock your device. See Flexible security on page 25.
Getting started

Front view

Back view

Assemble your device

Start using your device
Front view

Front camera
Light sensor
Power key/
Fingerprint scanner
Volume keys
SIM/microSD card tray
Keyboard
dock port
USB charger/
Accessory port

Getting started

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

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 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.
Charge the battery

Your device is powered by a rechargeable battery. A charger (charging head and USB Type-C cable) is included with the device for charging the battery from a power outlet.

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.

💡 TIP Disconnect the charger from the device and wait for the device to cool down. For more information, visit samsung.com/us/support/answer/ANS00076952.

Accessories

Supported accessories (sold separately) can be configured through Settings. This option may only appear after you have connected an accessory to your device.

Visit samsung.com/us/mobile/mobile-accessories to learn more.

◉ From Settings, tap 🛠 Advanced features > Accessories.
Start using your device

Use the Power key to turn your device on or off. 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 Power key.
  - To turn the device off, press and hold the Power key, and tap Power off. Confirm when prompted.
  - To restart your device, press and hold the Power key, and tap Restart.

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.
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 on page 104.

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

Devices and software are constantly evolving — the illustrations you see here are for reference only.
Accounts
Set up and manage your email accounts, your Google™ Account, and Samsung account.

☀️ TIP Accounts may support email, calendars, contacts, and other features. See 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 on page 103.

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.

☀️ TIP To quickly access your Samsung account, from Settings tap ⬆️ Samsung account.

Add an email account
Sign in to one or more of your email accounts to view and manage email messages.

1. From Settings, tap Accounts and backup > Accounts.
2. Tap + Add account > Email.
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 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 for more information.
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 tempered glass surface and void 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.
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.

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

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

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

- Bring 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

The Navigation bar, at the bottom of the screen, displays the navigation keys.

Devices and software are constantly evolving — the illustrations you see here are for reference only.
Navigation gestures
To make more space on the screen, you can hide the navigation keys, and instead use gestures to navigate the device. Simply swipe up from the bottom of the screen to navigate the device.

- From Settings, tap Display > Navigation bar > Full screen gestures.
  - Tap Gesture hints to display lines at the bottom of the screen where gestures must be done for each navigation button.

💡 TIP You can also quickly switch between navigation gestures and navigation buttons using the Quick settings menu.

Button order
Personalize your device by changing where the Recent apps and Back buttons display on the Navigation bar.

- From Settings, tap Display > Navigation bar, and tap an option under Button order.

Customize your home screen
The Home screen is the starting point for navigating your device. You can place your favorite apps and widgets here. You can set up additional Home screens, remove screens, change the order of screens, and choose a main Home screen.

App icons
You can 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:

- Touch and hold an app icon, and tap Remove from Home.

💡 NOTE Removing an icon does not delete the app, it just removes the icon from a Home screen.
**Use folders**
Organize App shortcuts in folders on an Apps screen or Home screen.
For more information, see *Create and use folders* on page 35.

**Wallpapers**
You can change the look of the Home and Lock screens by choosing a favorite picture or preloaded wallpaper.

1. From a Home screen, touch and hold the screen.
2. Tap **Wallpapers**.
3. Tap an image to choose it.
   - Tap the screen or screens to which you want to apply the wallpaper.
4. Tap **Set as wallpaper**, and confirm when prompted.

**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 touch and hold a widget, drag it to a Home screen, and release it.

**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.
   - **Quick-open notification panel**: Enable this feature to open the Notification panel by swiping down anywhere on 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.
   - **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
- Battery low
- Charging
- Mute
- Vibrate
- Airplane mode
- Bluetooth active
- Wi-Fi active
- Location active
- Alarm

Notification icons

- New email
- Download
- Upload
- Wi-Fi available
- 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.
**Notification panel**

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

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

You can access the Notification panel from any screen.

1. Drag the Status bar down to display the Notification panel.
2. Swipe down the list to see notification details.
   • 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.
3. Drag upward from the bottom of the screen or tap Back to close the Notification panel.

Quick settings

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

1. Drag the Status bar down to display the Notification panel.
2. Drag View all downward.
   • Tap a quick setting icon to turn it on or off.
   • Touch and hold a quick setting icon to open the setting.
   • Tap Search to search the device.
   • Tap Settings to quickly access the device's settings menu.
   • Tap More options to reorder Quick settings or to change the button layout.
3. Drag View all upward to close Quick settings.
Bixby

Bixby is a virtual assistant that learns, evolves, and adapts to you. It learns your routines, helps you set up reminders based on time and location, and is built in to your favorite apps. Visit samsung.com/us/support/owners/app/Bixby for more information.

The Bixby Home page displays customized content based on your interactions. Bixby learns from your usage patterns and will suggest content you may like.

- From a Home screen, swipe right.

💡 TIP You can also access Bixby from the Apps list. From Apps, tap Bixby.

Change the Power key into a Bixby shortcut

Press and hold the Power key to activate Bixby. When this feature is enabled, tap on the Notification panel to access Power off, Restart, and Emergency mode.

- From Settings, tap Advanced features > Wake Bixby with Power key, and tap to enable this feature.

💡 TIP When this feature is enabled you can still press the Power key to lock or wake up your device.

Bixby Vision

Bixby is integrated with your Camera, Gallery, and Internet apps to give you a deeper understanding of what you see. It provides contextual icons for translation, QR code detection, landmark recognition, or shopping.

Camera

Bixby Vision is available on the Camera viewfinder to help understand what you see.

- From Camera, tap Bixby Vision and follow the prompts.
Gallery

Bixby Vision can be used on pictures and images saved in the Gallery app.

1. From 🌟 Gallery, tap a picture to view it.
2. Tap 👀 Bixby Vision and follow the prompts.

Internet

Bixby Vision can help you find out more about an image you find in the Internet app.

1. From 🌐 Internet, touch and hold an image until a pop-up menu is displayed.
2. Tap Bixby Vision and follow the prompts.

Digital wellbeing

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 for the following features:

- **Screen time**: Tap the time value in the dashboard circle for details on how long each app has been opened and used today.
- **Times opened**: Tap the Unlocks number to see how many times each app has been opened today.
- **Notifications received**: Tap the Notifications number to see how many notifications have been received from each app today.
- **Dashboard**: View all dashboard information shown above. Each app can have a timer set to limit usage throughout the day.
- **Wind down**: Enable to turn the screen to grayscale and limit notifications before going to bed.
- **Notifications**: Configure notification settings for each app.
Flexible security

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

Face recognition

You can enable Face Recognition to unlock your screen.

- 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.

💡 TIP To use your face to unlock your device, you must set a pattern, PIN, or password.

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.
  - 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.
  - Brighten screen: Increase the screen brightness temporarily so that your face can be recognized in dark conditions.
  - Samsung Pass: Access your online accounts using face recognition.
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.

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

💡 TIP To use your fingerprint to unlock your device, you must set a pattern, PIN, or password.

Fingerprint management

Add, delete, and rename fingerprints.

- From Settings, tap Biometrics and security > Fingertips for the following options:
  - The list of registered fingerprints is at the top of this list. You can touch and hold 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.

Fingerprint verification settings

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

- From Settings, tap Biometrics and security > Fingertips.
  - **Fingerprint unlock**: Use your fingerprint for identification when unlocking your device.
  - **Fingerprint always on**: Wake and unlock your device by just touching the Power key.
  - **Samsung Pass**: Use your fingerprint for identification when using supported apps.
Biometrics Preferences

Configure your preferences for biometric security options.

- From Settings, tap Biometrics and security > Biometrics preferences for the following options:
  - Preferred biometric: Choose your preferred biometric. Only biometrics that have already been set up are listed.
  - 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.

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

Text can be entered using a keyboard or your voice.

- Tap a field to display the Samsung keyboard.
  - Tap (Τ) Show predictive text to view suggested words while you type.
  - Tap (😊) Show toolbar functions to view all keyboard options.

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

The toolbar provides additional helpful functions.

- From the Samsung keyboard, tap ⌁ Expand toolbar for the following options:
  - 📋 Clipboard: Access the clipboard.
  - 😊 Emojis: Insert an emoji.
  - 🎥 GIF keyboard: Add animated GIFs.
  - ✍️ Handwriting: Use your handwriting to enter text.
  - 📇 Modes: Select a keyboard layout.
  - 🔄 Settings: Access keyboard settings.
  - 🧱 Stickers: Add illustrated stickers.
  - ✉️ Text editing: Use an editing panel to help pinpoint text that you want to cut, copy, and paste.
  - 🎤 Voice input: Use Google Voice™ typing.

**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, slide the Space bar sideways.
  - Smart typing: Use predictive text and auto-correction features to prevent common typing mistakes. Type by swiping between letters.
  - Keyboard layout and feedback: Customize the appearance and function of the keyboard.
  - 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.
Apps

Using apps

Samsung apps

Google apps

Carrier apps

Additional apps
Using apps

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 Finder 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.

💡 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

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.
   - Enter 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 Add.
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 Menu to set which apps to view, and then choose All, Enabled, or Disabled.
3. Tap More options for the following options:
   - Sort by name/size: Sort the apps alphabetically by first letter or file size.
   - Default apps: Choose or change apps that are used by default for certain features, like email or browsing the Internet.
• **App permissions**: 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.

4. Tap an app to view and update information about the app. The following options may be displayed:

• **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.

• **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.

• **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.

💡 **NOTE**  Options vary by app.
Samsung apps

The following apps are either preloaded or downloaded over-the-air to your device during setup.

Galaxy Essentials

Galaxy Essentials is a collection of specially chosen applications available through Samsung apps. You can access and download a collection of premium content.

○ From Apps, tap More options > Galaxy Essentials.

Bixby

Bixby displays customized content based on your interactions. Bixby learns from your usage patterns and suggests content you may like.

For more information see Bixby on page 23.

○ From Apps, tap Bixby.

Galaxy Store

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

○ From Apps, tap Samsung folder > Galaxy Store.

Samsung Flow

Connect your phone and tablet with Samsung Flow. You can then view notifications and reply to messages from your phone on your connected tablet. You can also use Mobile hotspot to access the Internet on your tablet through your phone’s network connection when other networks are not available.

For more information, visit samsung.com/us/support/owners/app/samsung-flow.

○ From Apps, tap Samsung folder > Samsung Flow.
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](samsung.com/us/support/owners/app/samsung-notes) to learn more.

- From Apps, tap Samsung Notes > Create.
**Edit notes**

Make edits to notes you create.

1. From Samsung Notes, tap a note to view it.
2. Tap Edit, and make changes. When you are finished, tap Save.

**Notes options**

You can edit, share, or manage notes.

- From Samsung Notes, tap More options for the following options:
  - Edit: Select notes to share, delete, 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 Menu for the following options:
  - 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.
  - Categories: View notes by category.
  - Settings: View settings for the Samsung Notes app.
SmartThings allows you to control, automate, and monitor your home environment through a mobile device to fit your specific needs. You can use the app to connect multiple devices at once or one device at a time. Check the status of your devices by looking at the dashboard.

- From Apps, tap Samsung folder > SmartThings, and sign in with your Samsung account.

💡 NOTE Non-Samsung connected device errors or defects are not covered by the Samsung warranty; contact the non-Samsung device manufacturer for support.
The Calculator app features both basic and scientific math functions, as well as a unit converter.

- From Apps, tap Calculator.
The Calendar app can be connected to your various online accounts to consolidate all your calendars in one place.

- From Apps, tap **Calendar**.

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

Add your accounts to the Calendar app.

1. From Calendar, tap Menu.
2. Tap 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.

Create an event

Use your Calendar to create events.

1. From Calendar, tap Add 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.
You can capture high-quality pictures and videos using the Camera app.

- From Apps, tap 📷 Camera.
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 light bulb 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.

Record videos
Record high-quality videos using your device.

1. From Camera, swipe right or left to change the shooting mode to Video.
2. Tap Capture 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.

Change shooting modes
The Camera is equipped with a variety of shooting modes to capture pictures and videos in specific scenarios.

- From Camera, the shooting modes are located in a row near the bottom of the screen.
  - To change the shooting mode, swipe the screen right or left.
  - To view the entire list of shooting modes and each mode’s description, touch and hold a shooting mode.
Configure shooting mode

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

- From 📷 Camera, touch and hold a shooting mode.
  - **Panorama**: Create a linear image by taking pictures in either a horizontal or vertical direction.
  - **Pro**: Manually adjust the ISO sensitivity, exposure value, white balance, and color tone while taking pictures.
  - **Live focus**: Take artistic pictures by adjusting the depth of field.
  - **Photo**: Allow the camera to determine the ideal mode for the picture.
  - **Video**: Allow the camera to determine the ideal mode for the video.
  - **Hyperlapse**: Create a time lapse video by recording at various frame rates. The frame rate is adjusted depending on the scene being recorded and the movement of the device.

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**
  
  - **Scene optimizer**: Automatically adjust the color settings of your pictures to match the subject matter.
  
  **Pictures**
  
  - **Hold shutter button to**: Choose whether to take a picture, take a burst shot, or create a GIF when holding the shutter button down.
  - **Save options**: Choose picture format and whether to flip your selfies.
Videos

- **Rear video size**: Select a resolution. Selecting a higher resolution for higher quality requires more memory.
- **Front video size**: Select a resolution. Selecting a higher resolution for higher quality requires more memory.
- **High efficiency video**: Record videos in HEVC format to save space.

Useful features

- **HDR (rich tone)**: Enables the light sensitivity and color depth features of the device to produce a brighter and richer picture.
- **Grid lines**: Display viewfinder grid lines to help compose a picture or video.
- **Location tags**: Attach a GPS location tag to the picture.
- **Camera modes**: Set the default camera mode. You can also reorder or hide your shooting modes.
- **Shooting methods**:
  - **Press Volume key to**: Use the Volume key 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.
- **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.
- **Reset settings**: Reset the camera settings.
- **About Camera**: View app and software information.
The Clock app offers features for keeping track of time and setting alarms.

- From Apps, tap Clock, and tap a tab to use a feature.
**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 day 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.
**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 ➤ Search for city, and enter the name of the city.
3. Tap the city name in the list, and then tap Add.
   - To remove a city, touch and hold it, and tap 🔴 Delete.

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Devices and software are constantly evolving — the illustrations you see here are for reference only.
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.
3. Tap to enable.
4. 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.

Timer options

You can customize the Timer options.

○ From Clock, tap Timer and choose an option:
  • Add preset timer: Save a preset timer with a custom name.
  • More options > Set timer sound: Choose the timer sound or create your own.
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.

- From Apps, tap Contacts > Create contact.

Add profile picture
Add, delete, and expand fields
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.

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.

Favorites
When you mark contacts as favorites, they are easily accessible from other apps.

1. From Contacts, tap a contact.
2. Tap Add to Favorites to mark the contact as a favorite.
   • To remove the contact from Favorites, tap Favorite.

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 vCard file (VCF) 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.
Groups

You can use groups to organize your contacts.

Create a group

Create your own contact groups.

1. From ✉ Contacts, tap ☰️ Menu > Groups.
2. Tap Create group, and then tap fields to enter information about the group:
   • Group name: Enter a name for the new 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 ☰️ Menu > Groups, and then tap a group.
   • To remove a contact, touch and hold a contact to select it, and then tap Delete.
   • To add a contact, tap ☰️ More options > Edit group > Add member, and then tap the contacts you want to add. When finished, tap Done > Save.

Send an email to a group

Send an email to members of a group.

1. From ✉ Contacts, tap ☰️ Menu > 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 Menu > Groups, and then tap a group.
2. Tap More options > Delete group.
   • 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 Menu > Manage contacts.
2. Tap Import/export contacts.
3. Tap Import and follow the prompts.

Export contacts

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

1. From Contacts tap Menu > Manage contacts.
2. Tap Import/export contacts.
3. Tap Export and follow the prompts.

Link contacts

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

1. From Contacts, tap the contact to select it.
2. Tap More options > Link to another contact.
3. Tap contacts to choose them.
4. Tap Link.
To unlink contacts:

1. From 📞 Contacts, tap the contact to select it.
2. Tap ☰ More options › Add/remove linked contacts.
3. Tap Unlink beside contacts to unlink them from the main contact.

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.
View and manage multiple email accounts in one app. To add an email account, see Add an email account on page 9.

- From Apps, tap Email.
Create and send an email

Compose and send email messages from your device.

1. From Email, tap Compose new email.
   • Different email account may have additional steps and options.
2. Tap the To field to add an email address or tap Add from Contacts to select a recipient from your contacts.
   • When adding multiple recipients, separate them with a semicolon (;). More recipients can be added at any time before the message is sent.
   • If adding a recipient from your Contacts, tap the contact to place a checkmark, and then tap Done. The contact is displayed in the recipients field.
   • Tap Show additional fields to add Cc and Bcc fields.
3. Tap the Subject and Message fields to enter text.
   • Tap Attach to add files, images, audio, and more to your email.
   • Tap More options for additional email options.
4. Review your message and tap Send.

Manage the inbox

Organize and search your inbox.

○ From Email:
   • Tap a message to read and reply or forward it.
   • Tap to search for key words in your email inbox.
   • Tap More options > Edit for additional message options.
   • Tap More options > Sort to customize how messages display.
View multiple email accounts
You can view email you receive for multiple accounts, or you can view email accounts individually.

- From Email, tap for the following options:
  - [Account name]: View email for only one email account.
  - All accounts: View all email in a combined inbox.

💡 TIP Accounts may also support calendars, contacts, and other features.

Email settings
Modify settings associated with using the Email app.

- From Email, tap > Settings.
  - Under General, tap an option, and then follow the prompts.
  - Tap an account to configure specific settings for only that account.

Remove email accounts
Should you need to remove an email account from your device, you can do so through the Settings menu.

1. From Email, tap > Settings.
2. Tap the account you want to remove.
3. Tap Remove, and confirm when prompted.
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 ⚡ Favorite.
   • To use Bixby Vision on the current picture, tap 🕵️ Bixby Vision. For more information, see Bixby on page 23.
   • To access the following features, tap 📗 More options:
     – Details: View and edit information about the picture.
     – Set as wallpaper: Set the picture as wallpaper.
     – 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.
   • 🎨 Effects: Add color effects.
   • 🧩 Stickers: Overlay illustrated or animated stickers.
   • 📜 Text: Add text to the picture.
   • 📝 Draw: Add handwritten text or hand drawn content.
   • ☀️ Brightness: Adjust brightness image controls.
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 ❤️ Favorite. 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.
     – Move to Secure Folder: Add this video to your Secure Folder.
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 > Share, and then tap pictures and videos to select them.
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, or tap the All checkbox at the top of the screen to select all pictures and videos.
3. Tap 🗑️ Delete, and confirm when prompted.

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 hold the Power and Volume down keys.

Enable Smart capture
When taking a screen shot, capture an image of any scrollable areas of the screen that are currently hidden, as well as the area that is visible, and crop and share the screenshot immediately.

1. From Settings, tap 💡 Advanced features > Smart capture.
2. Tap ☑️ to enable this feature.

Palm swipe to capture a screenshot
Capture an image of the screen by swiping the edge of your hand across it, from side to side, keeping in contact with the screen.

1. From Settings, tap 💡 Advanced features > Motions and gestures > Palm swipe to capture.
2. Tap ☑️ to enable this feature.
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.

- From Apps, tap Samsung folder > 🌐 Internet.


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

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

- From 🌐 Internet, tap ✚ New tab.
  - To close a tab, tap ✗ Close tab.

**Bookmarks**

The Bookmarks page stores Bookmarks, Saved pages, and your browsing History.

**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**

Saving a web page stores its content on your device so that you can access it offline.

- From 🌐 Internet, tap 🔃 > Add page to > Saved pages.

💡 NOTE To view saved web pages, tap 🔃 > Saved pages.

**View history**

To view a list of recently visited web pages:

- From 🌐 Internet, tap 🔃 > 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 🔃 > 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 ☐️ > Turn on Secret mode.
2. Tap Set password to protect your Secret mode data with a password.

To turn off Secret mode:

- From 🌐 Internet, tap ☐️ > Turn off Secret mode.

Internet settings

Modify settings associated with using the Internet app.

- From 🌐 Internet, tap ☐️ > Settings.
My Files

View and manage files stored on your device, including images, videos, music, and sound clips.

- From Apps, tap Samsung folder > My Files.

Devices and software are constantly evolving — the illustrations you see here are for reference only.
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 drives vary depending on the services you sign in to.
- **Storage analysis**: 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**:
    - **Storage analysis**: See what’s taking up space in your storage.
    - **Settings**: View settings for the app.
Google apps

Enjoy these apps from Google.

Chrome
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 to learn more.

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

Visit support.google.com/drive to learn more.

Duo
Make one-to-one video calls.

Visit support.google.com/duo to learn more.

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

Visit support.google.com/mail to learn more.

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

Visit support.google.com/websearch to learn more.
Maps

Get directions and other location-based information. You must enable location services to use Google Maps. For more information, see Location on page 110.

Visit support.google.com/maps to learn more.

Photos

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

Visit support.google.com/photos to learn more.

Play Movies & TV

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

Visit play.google.com/store/movies to learn more.

Play Music

Play music and audio files on your device.

Visit support.google.com/music to learn more.

Play Store

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

Visit support.google.com/play to learn more.

YouTube

Watch and upload YouTube™ videos right from your device.

Visit support.google.com/youtube to learn more.
Carrier apps

Some apps require a data plan or paid subscription. Contact your carrier for additional information.

Cloud

Back up and access your data. You can also use Verizon Cloud to transfer content between other devices.

My Verizon

View details and manage your Verizon Wireless™ account. No airtime or minute charges apply when accessing My Verizon.

Security & Privacy

Protect your device from digital threats, including viruses and malware, risky web sites, and from people accessing the information on your device if it is ever lost or misplaced.
You can sync your text conversations across all compatible devices using the Verizon Messages app.
Create and send messages

Use the Verizon Messages app to send and receive messages with your friends and family.

1. From Apps, tap 📩 Message+.
2. Tap 📩 New message.
3. Tap the To: field and then enter a contact name, a mobile phone number, or an email address using the keyboard. As you enter letters, possible matches from your accounts and contacts display on the screen. Touch a match to add it to the message.
4. Tap Type a message and enter your message.
5. Tap ➤ Send.

Reply to messages

Messages you exchange with another person are displayed as conversations in the Messages app, so you can see all the messages in one place.

1. From Apps, tap 📩 Message+.
2. Tap a conversation to display it.
3. Tap the Type a message field and then type your reply message.
4. When the message is complete, tap ➤ Send.

Delete messages

1. From Apps, tap 📩 Message+.
2. Tap a conversation to display it.
3. Touch and hold the message you want to delete, and then tap Delete messages on the pop-up menu. Follow the prompts to confirm the deletion.
Protect a message from deletion

You can lock a message so that it will not be deleted even if you delete the other messages in the conversation.

1. From Apps, tap Message+.
2. Tap a conversation to display it.
3. Touch and hold the message that you want to lock, and then tap Lock message on the pop-up menu. A lock icon displays on the message.

Delete conversations

You can delete all messages that you’ve exchanged with another person.

1. From Apps, tap Message+.
2. Touch and hold a conversation you want to delete and tap Delete conversation. Follow the prompts to confirm the deletion.

💡 NOTE  Locked messages will not be deleted unless you select Also delete locked messages before confirming the deletion.
Additional apps

The following apps are preloaded or downloaded over-the-air to your device.

Netflix

Stream movies and TV shows on your device using your Netflix.com account.

Spotify

With Spotify, you have access to a world of music and podcasts. You can listen to artists and albums, or create your own playlist of your favorite songs. Want to discover new music? Choose a ready-made playlist that suits your mood or get personalized recommendations.

Yahoo Mail

Set up and access your Yahoo email account.
Settings

Access Settings

Connections

Sounds and vibration

Notifications

Display

Device maintenance

Lock screen and security

Accounts

Accessibility

Other settings
### Access Settings

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

- Drag down the Status bar, and then 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

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.

#### Manually connect to a 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.
- **Auto reconnect**: Choose this option if you want to automatically reconnect to this network whenever you are in range.
- **Advanced**: Add any 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.

1. From Settings, tap **Connections > Wi-Fi**, and then tap **on** to turn on Wi-Fi.

2. Tap **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.
- **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 Wi-Fi Direct.
3. Tap a device, and then follow the prompts to connect.

💡 TIP When sharing a file, tap Wi-Fi Direct to use this feature.

**Disconnect from Wi-Fi Direct**

Disconnect your device from a Wi-Fi Direct device.

○ From Settings, tap Connections > Wi-Fi > 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.

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

💡 TIP You will need to pair with the device again in order to connect to it.

Advanced options

Additional Bluetooth features are available in the Advanced menu.

1. From Settings, tap Connections > Bluetooth.
2. Tap Advanced for the following options:
   • Tablet name: Change the name of your device for Bluetooth connections.
   • Received files: View a list of files received using Bluetooth.
   • Media volume sync: Sync the volume level set on the connected Bluetooth devices to your device.
   • Bluetooth control history: View apps that have used Bluetooth recently.

Tablet visibility

Turn on visibility to allow other Bluetooth devices to find your device.

○ From Settings, tap Connections > Tablet visibility, and then tap to make your device visible.

Airplane mode

Airplane mode disconnects your device from all networks and turns off connectivity features.

1. From Settings, tap Connections > Airplane mode.
2. 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.

- From Settings, tap Connections > Mobile networks.
  - **Data roaming access**: Configure access to mobile networks while roaming.
  - **Network mode**: You can select which network modes your mobile device can use.
  - **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 Allow app while Data saver 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.

- 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.

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.

💡 TIP Check with your carrier about service fees.
Change the mobile hotspot password

You can customize your Mobile hotspot password to make it easier to remember.

1. From Settings, tap Connections > Mobile hotspot and tethering > Mobile hotspot.
2. Tap the password, enter a new password, and then tap Save.

Allowed devices list

Create a custom list of devices that are allowed to connect to your Mobile hotspot.

1. From Settings, tap Connections > Mobile hotspot and tethering > Mobile hotspot.
2. Tap More options > Allowed devices, and then tap Add to enter the other device’s Device name and MAC address.
3. Tap Add to add the device.
   • To restrict connections to your Allowed devices list, tap Allowed devices only.

💡 TIP You need the device name and MAC address of devices that you want to add to the Allowed devices list.

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.
   • Hide my device: Prevent your Mobile hotspot from being discoverable by other devices.
   • 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.
   • Show advanced options: Configure additional Mobile hotspot settings.
**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 select an interval.

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

**Wi-Fi sharing**
Turn on Wi-Fi sharing to quickly share your Wi-Fi network with other devices.

1. From Settings, tap Connections > Mobile hotspot and tethering > Mobile hotspot.
2. Tap Wi-Fi sharing to turn on this feature.

🌟 TIP Use this feature to share your Wi-Fi network without giving out your Wi-Fi password.

**Tethering**
You can use tethering to share your device’s Internet connection with another device.

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 Download plugin and follow the prompts to add a print service.
3. Tap the print service, and then tap More options > Add printer.

💡 TIP Make sure the app you want to print from supports 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.

💡 TIP A secured screen lock is required to set up a VPN.
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.
View Verizon account

Access your Verizon account.

- From Settings, tap Connections > More connection settings > View Verizon account.

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 > Sound mode, and then choose a mode:
  - Sound: Use the sounds, vibrations, and volume levels you have chosen in Sound settings for notifications and alerts.
  - 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.

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

Easy mute

Quickly mute sounds by covering the screen or turning the device over.

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

Customize notification sounds for certain apps or choose a default for all notifications.

- From Settings, tap Sounds and vibration > Notification sounds and tap a sound to choose it.

**Volume**

Set the volume level for notifications and other audio.

- From Settings, tap Sounds and vibration > Volume, and drag the sliders.

**Tip** You can also use the Volume key to adjust the volume. Slide the volume controls to customize all volume options.

**Use Volume keys for media**

Set the default of the Volume key to control the media volume.

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

**Media volume limiter**

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

1. From Settings, tap Sounds and vibration > Volume.
2. Tap More options > Media volume limiter.
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.
System sounds

Customize your device's sounds and vibrations for actions like tapping the screen and charging the device.

- From Settings, tap Sounds and vibration > System sounds for the following options:
  - Touch sound: Play tones when you touch or tap the screen to make selections.
  - Screen lock sound: Play a sound when you unlock the screen.
  - Charging sound: Play a sound when a charger is connected.
  - Keyboard sound: 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 > Advanced sound settings > Sound quality and effects.
2. Tap Dolby Atmos to experience breakthrough audio that flows above and around you.

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 > Advanced sound settings > Sound quality and effects.
2. Tap Equalizer to choose a music genre.
**Headset audio options**

Enhance the sound resolution of music and videos for a clearer listening experience. These features are only available with a headset connected.

- From Settings, tap 🎧 **Sounds and vibration** > **Advanced sound settings** > **Sound quality and effects**, and tap an option to turn it on:
  - UHQ upscaler: Sharpens audio resolution for crisp sound.

**NOTE** To connect 3.5mm headphones, use the USB Type-C adapter provided with the device.

**Adapt sound**

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

1. From Settings, tap 🎧 **Sounds and vibration** > **Advanced sound settings** > **Sound quality and effects** > **Adapt sound**.
2. Tap the sound profile that fits you best, and tap 🛠 **Settings** to customize.

**TIP** Tap ➕ **Add personalized sound profile** to take a hearing test and let your device identify the best sound for you.

**Separate app sound**

You can play media sound on a speaker or headphones separate from the rest of the sounds on your device.

1. From Settings, tap 🎧 **Sounds and vibration** > **Advanced sound settings** > **Separate app sound**.
2. Tap 🎧 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.

**TIP** You need to connect to a Bluetooth device to make this option available in the Audio device menu.
Notifications

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

Manage notifications

You can configure notifications from apps and services.

- From Settings, tap Notifications.
  - **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.
  - **Do not disturb:** Block sounds and notifications while this mode is turned on. Specify exceptions for people, apps, and alarms.
  - **Status bar:** Modify how many notifications appear on the Status bar.
  - To block notifications from an app, tap next to the app. Tap See all to open the complete list of apps.

Customize app notifications

You can change notification settings for each app.

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

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.

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.
     – Reset usage patterns: Clear your brightness adjustment history. Your device begins learning your preferences again after the reset.

Blue light filter

The Blue light filter can help you sleep better if you use your device at night. 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.
Night mode

Night mode allows you to switch to a darker theme to keep your eyes more comfortable at night.

- From Settings, tap ☀ Display > Night mode for the following options:
  - Turn on now: Put your device in Night mode.
  - Turn on as scheduled: Configure Night mode for either Sunset to sunrise or Custom schedule.

Screen mode

Your device has several screen mode options which adjust the screen quality for different situations. You can select the mode according to your preference.

1. From Settings, tap ☀ Display > Screen mode.
2. Tap an option to set a different screen mode.

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:
  - Drag the Font size slider to adjust the size of text.
  - 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.

Screen zoom

Adjust the zoom level to increase or decrease the size of content on the screen.

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

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

1. From Settings, tap ☀ Display > Screen saver.
2. Tap ☐ to enable the feature and configure the following options:
   • 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, and tap ☐ to enable the feature.

Double tap to wake
Turn on the screen by double-tapping instead of using the Power button.

○ From Settings, tap ☀ Advanced features > Motions and gestures > Double tap to wake, and tap ☐ to enable.
Smart stay
Smart stay uses the front camera to detect your face so that the screen stays on while you are looking at it.

○ From Settings, tap Advanced features > Motions and gestures > Smart stay, and tap to enable the feature.

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
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 options:
  • Battery usage: View power usage by app and service.
  • Power mode: Select a power mode to extend battery life.
  • Usage by apps: View power usage by app today or over the past week.
  • More options > Settings: Configure advanced battery settings and notifications.
Storage

View the device storage and usage. You can also mount, unmount, or format an optional memory card (not included).

Device storage

Quickly optimize your device’s storage, increasing available memory.

○ From Settings, tap Device care > Storage > Clean now.

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 Assemble your device on page 5.

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.
2. Tap More options > Storage settings.
3. Under Portable storage, 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.
2. Tap More options > Storage settings.
3. Under Portable storage, tap your SD card, and then tap Unmount.
4. 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.
2. Tap More options > Storage settings.
3. 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.

1. From Settings, tap Device care > Memory.
   • The used and available memory are shown.
2. To free up as much memory as possible, tap Clean now and follow the prompts.
   • The selected apps and services in the list will be closed.

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, drag Move next to the desired language to the top of the list, 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 **Default keyboard**, and select 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.

**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.
Show keyboard button

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

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

Autofill service

Save time entering information using autofill services.

1. From Settings, tap General Management > Language and input.
2. Tap Autofill service and select your preferred 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.

Pointer speed

Configure pointer speed for an optional mouse or trackpad (not included).

1. From Settings, tap General management > Language and input.
2. Under Pointer speed, drag the slider to the right to go faster or to the left to go slower.
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 also check for software updates, and if necessary, reset services on your device.

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 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**

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:
   - **Day**: 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.

💡 **NOTE** When you sign in to a Google Account on your device, Factory Reset Protection 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 Factory Reset Protection (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 is activated. Factory Reset Protection (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.

### Lock screen and security

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

#### 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 Flexible security on page 25.

#### Set a secure screen lock

It is recommended that you secure your device using a secure screen lock (Pattern, PIN, or Password).

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.
3. Tap **Done** when finished.
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:
  - **Clock style**: Set the type and color of the clock on the Lock screen.
  - **Roaming clock**: Change to digital clocks showing both local and home time zones when roaming.
  - **FaceWidgets**: 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.
  - **App shortcuts**: Select which apps to open from the Lock screen.
  - **About Lock screen**: Update the Lock screen’s software.
Google Play Protect
You can configure Google Play Protect to regularly check your apps and device for security risks and threats.

1. From Settings, tap Biometrics and security > Google Play Protect.
2. Tap options to customize security features.

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.

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.

💡 TIP  A Google Account is required, and Google location service must be turned on.

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.
Samsung Pass

Use Samsung Pass to access your favorite services with biometric data. You must sign in to your Samsung account to use Samsung Pass.

Visit samsung.com/us/support/owners/app/samsung-pass to learn more.

1. From Settings, tap Biometrics and security > Samsung Pass.
2. Sign in to your Samsung account and add your biometric data.

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.

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.

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

💡 TIP You must sign in to your Samsung account, and use secured lock on your device to set up and use Secure Folder.

Encrypt 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 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 > 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 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.

 Security update service

You can set your device to automatically check for security updates.

- From Settings, tap Biometrics and security > Other security settings, and then tap Security policy updates to check for security updates.
Device administration

You can authorize security features and apps (like Find My Device) 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.

Strong Protection

Better protect your device by encrypting it using a secure lock type.

- From Settings, tap Biometrics and security > Other security settings > Strong protection, and then tap to enable this feature.
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 on page 104.
  - **Pin windows**: Pin an app on your device screen, which prevents access to other features of your device.

Location

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

1. From Settings, tap Biometrics and security > Location.
2. Tap to turn on Location services.
3. Tap Improve accuracy to use other connections for determining your location:
   - **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.

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

Recent location requests

View a list of apps that have requested your location.

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

**App permissions**

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 Biometrics and security > App permissions.
2. Tap a category, and tap next to the apps you want to be notified about.
   - Tap an app to select which permissions you want to be notified about.

**Send diagnostic data**

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

1. From Settings, tap Biometrics and security > Send diagnostic data.
2. Read and accept the consent information to enable this feature.
Accounts
You can connect to and manage your accounts, including your Google Account, Samsung account, email, and social networking accounts.

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.

1. From Settings, tap 🔄 Accounts and backup > Accounts > [Account type].
2. Tap an account to configure that account’s sync settings.
3. Tap other available options for the account type.

Remove an account
You can remove accounts from your device.

1. From Settings, tap 🔄 Accounts and backup > Accounts > [Account type].
2. Tap the account and then tap Remove account.
Users

Share this tablet with multiple people by creating User accounts.

Users have their own space, which they can customize with their own apps, wallpaper, and settings. Users can also adjust tablet settings that affect everyone, such as Wi-Fi.

1. From Settings, tap Accounts and backup > Users.
2. Tap Add user or profile and follow the prompts to set up a new user or profile.

💡 TIP: Restricted profiles allow only limited access to apps and content.

Switch User Profiles

To access the device with a different user profile:

🔹 From a Lock screen, tap Manage users and tap a user or profile from the list.

Delete a User or Profile

1. From Settings, tap Accounts and backup > Users.
   • For a restricted account, tap Settings next to the user profile.
2. Tap Delete, and then confirm when prompted.

💡 NOTE: Only the device owner can delete other users or profiles. Deleting a user’s profile removes the user account from the device entirely. This includes the user’s Google Account, Samsung account, and any other local accounts associated with the user.
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.

○ From Settings, tap Accounts and backup > Backup and restore for options:
  • 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 on page 10.

○ 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.
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.

Screen Reader

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

- From Settings, tap Accessibility > Screen reader and tap an option:
  - 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 Voice assistant 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 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.
  - Negative colors: Reverse the display of colors from white text on a black background to black text on a white background.
• **Color adjustment**: Adjust the color of the screen if you find it difficult to see some colors.

• **Color lens**: Adjust the screen colors if you have difficulty reading the text.

• **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.

**Sounds**

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

○ From Settings, tap ✨**Accessibility** > **Hearing enhancements** and tap an option:
  
  • **Sound detectors**: Receive alerts when the device detects a baby crying or a doorbell.
  
  • **Mute all sounds**: Turn off all notifications and audio for privacy.
  
  • **Left and 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.
Text display
You can watch closed captions when viewing multimedia.

- From Settings, tap Accessibility > Hearing enhancements and tap an option:
  - Samsung subtitles (CC): Use Samsung subtitles with multimedia files when available.
  - Google subtitles (CC): Use Google subtitles with multimedia files when available.

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.
  - Click after pointer stops: Automatically click on an item after the pointer stops over it.

Interactions
You can simplify the motions needed to respond to notifications and alarms.

- From Settings, tap Accessibility > Interaction and dexterity and tap an option:
  - 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.

**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.

**Direct access**

- From Settings, tap 🤝 Accessibility > Advanced settings and tap an option:
  - **Power and Volume up keys**: Configure selected Accessibility settings to open by quickly pressing the Power 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.
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.

Other settings

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

Help

View the user manual on your device.

- From Settings, tap Help.

Samsung DeX

Use a full desktop interface on your tablet. You can use larger screens with an HDMI cable. The tablet automatically enters DeX mode when a POGO keyboard is attached (sold separately).

1. From Settings, tap Advanced features > Samsung DeX.
2. Tap to enable the feature and follow the prompts.

Daily Board

View a slideshow of your photos when your tablet is charging.

1. From Settings, tap Advanced features > Daily Board.
2. Tap to enable Daily Board.
3. Choose one of the following options:
   - Slideshow: Enable a button that launches a slideshow of images from Gallery.
   - Time, weather, and calendar: Display the current time, current weather, and a calendar.
   - Night theme: Use a darker theme for easier viewing at night.
• **Auto start**: Start the slideshow automatically when the device is put into charging mode.

• **Turn off as scheduled**: Set a schedule time to turn the device off.
  – **Set time**: Select a turn off time.

• **About Daily Board**: View the app version and other information.

### Manage game features

Automatically arrange all your games in one place.

○ From Settings, tap **Advanced features > Game Launcher**.

### About tablet

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

1. From Settings, tap **About tablet**, and then view your 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 tablet > Status**.
Learn more

Videos
samsung.com/us/support/videos

Smart Simulator
samsungsimulator.com

Tips
samsung.com/us/support/tips

Samsung Care
samsung.com/us/support

Talk to an agent
Contact us on Facebook Messenger
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Find legal information online

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

Arbitration Agreement, Standard Limited Warranty, and Health & Safety Information:

Phone:
• English: samsung.com/us/Legal/Phone-HSGuide
• Spanish: samsung.com/us/Legal/Phone-HSGuide-SP

Tablet:
• English: samsung.com/us/Legal/Tablet-HSGuide
• Spanish: samsung.com/us/Legal/Tablet-HSGuide-SP

End User License Agreement:
• English: samsung.com/us/Legal/SamsungLegal-EULA4
• Spanish: samsung.com/us/Legal/SamsungLegal-EULA4/#SPANISH
Find legal information on the mobile device

The full Arbitration Agreement, Standard Limited Warranty, End User License Agreement (EULA) and Health & Safety Information are also available on the device, in the Samsung legal section of Settings. The location depends on the device, and is usually in the “About device” or “About phone” section, for example:

- Settings > About phone or About device or About tablet > Legal information > Samsung legal
- Or, use the Search feature to search for “Legal”.

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Using custom OS software may cause your device and applications to work improperly. Your carrier may not permit users to download certain software, such as custom OS.

**Samsung Knox**

Samsung Knox is Samsung’s security platform and is a mark for a Samsung device tested for security with enterprise use in mind. Additional licensing fee may be required. For more information about Knox, please refer to: samsung.com/us/knox.

**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, or damage the device. Keep the device and all its parts and accessories out of the reach of small children.

**Samsung Electronics America, Inc.**

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Internet: 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.