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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 26.

Camera

Enjoy a full kit of pro lenses and pro-grade video modes and settings. See Camera on page 65.

Mobile continuity

Transition between your mobile devices and personal computers for messaging, phone calls, receiving notifications, screen mirroring, and sharing multimedia files. See Mobile continuity on page 33.

Dark mode

Use a darker theme to keep your eyes comfortable at night. See Dark mode on page 126.

Security

Use biometrics to unlock your device. See Flexible security on page 29.

Expandable storage

Expand storage with a supported microSD™ card. See Memory card on page 131.
Getting started

Galaxy S9

Galaxy S9+

Assemble your device

Start using your device
Galaxy S9

Front camera
Rear camera
Proximity/Light sensors
Flash
Iris scanner
Fingerprint scanner
Volume keys
Power key
Bixby key
Headset jack
USB charger/Accessory port
Galaxy S9+

- Front camera
- Dual cameras
- Volume keys
- Bixby key
- Fingerprint scanner
- USB charger/Accessory port
- Flash
- Iris scanner
- Proximity/Light sensors
- Power key
- Headset jack
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 details.

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

Charge your device
Before turning on your device, charge it fully.

NOTE Use only charging devices and batteries (if applicable) that are approved by Samsung. Samsung charging devices and batteries are designed for your device to maximize battery life. Using other charging devices and batteries may void your warranty and may cause damage.
NOTE  Your device is IP68 rated for dust and water resistance. To maintain the
water-resistant and dust-resistant features of your device, make sure that the
SIM card/Memory card tray openings are maintained free of dust and water, and
the tray is securely inserted prior to any exposure to liquids. For more
information, see Maintaining water and dust resistance on page 160.

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.

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

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**.
    Confirm when prompted.

Use the Setup Wizard

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

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

Use Smart Switch™ to transfer contacts, photos, music, videos, messages, notes, calendars, and more from your old device. Smart Switch can transfer your data via USB cable, Wi-Fi, or computer. You can also use the included On-the-Go adapter to transfer content quickly and easily from your old device without installing the Smart Switch app.

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.

NOTE Transferring content with a USB cable may increase battery consumption. Make sure your battery is fully charged.

Visit samsung.com/smartswitch for more information and to learn how to use the On-the-Go adapter to transfer content faster.
**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 140.
Accounts

Set up and manage your accounts.

💡 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 139.

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 profile.

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.
Set up voicemail

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

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

A touch screen responds best to a light touch from the pad of your finger or a capacitive stylus. Using excessive force or a metallic object on the touch screen may damage the 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.
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.
Getting started

Zoom in and out

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

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

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

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

Change how the navigation icons appear along the bottom of the screen.

○ From Settings, tap Display > Navigation bar. The following options are available:
  - Hard press Home button: Adjust the amount of pressure needed to hard press the Home button.
  - Unlock with Home button: Hard press the Home button while the screen is off to unlock your device.
  - Navigation buttons: Show the three navigation icons along the bottom of the screen.
    - Button order: Swap the order of the Back and Recent apps icons.
  - Full screen gestures: Hide the navigation icons for an unobstructed screen experience, and use screen gestures to navigate. The following options are available:
    - More options: Configure additional options for Full screen gestures.
    - Gesture hints: Display lines at the bottom of the screen where each screen gesture is located.
    - Show button to hide keyboard: Show an icon on the bottom right corner of the screen to hide the keyboard when the phone is in portrait mode.

Full screen gestures options

Customize your Full screen gestures even further by adjusting the sensitivity and enabling different types of gestures.

○ From Settings, tap Display > Navigation bar > Full screen gestures > More options for the following:
  - Swipe from bottom: Swipe up from three different areas at the bottom of the screen to go back, go to the Home screen, or view recent apps. You can also swipe up and hold the screen to use your device assistance app.
  - Swipe from sides and bottom: Swipe inward from either side of the screen to go back, swipe up from the bottom of the screen to go to the Home screen, and swipe up and hold the screen to view your recent apps.
– **Allow back gesture on keyboard**: Allow back gestures from the sides of the screen while a keyboard is open.
– **Back gesture sensitivity**: Drag the slider to adjust your device’s sensitivity to detecting back gestures.

### Customize your home screen

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

### App icons

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

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

To remove an icon:

- From a Home screen, touch and hold an app icon, and then tap **Remove 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 51.
Wallpaper

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

1. From a Home screen, touch and hold the screen, and then tap \(\text{Wallpaper}\).

2. Tap one of the following menus for available wallpapers:
   - **My wallpapers**: Choose from featured and downloaded wallpapers.
   - **Gallery**: Choose pictures and videos saved in the Gallery app.
   - **Wallpaper services**: Enable additional features including guide page and Dynamic Lock screen.
   - **Explore more wallpapers**: Find and download more wallpapers from Galaxy Themes.

3. Tap a picture or video to choose it.
   - If choosing a single picture, choose which screen or screens you want to apply the wallpaper to.
   - Videos and multiple pictures can only be applied to the Lock screen.

4. Tap **Set on Home screen**, **Set on Lock screen**, or **Set on Home and Lock screens** (depending on which screens are applicable).
   - If applying a wallpaper to both the Home and Lock screens, enable **Sync my edits** if you want any edits made to that wallpaper to be applied to both screens.

Themes

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

1. From a Home screen, touch and hold the screen.
2. Tap \(\text{Themes}\) to customize.
3. Tap a theme to preview and download it to My themes.
4. Tap \(\text{My page} \gg \text{Themes}\) to see downloaded themes.
5. Tap a theme, and then tap **Apply** to apply the selected theme.
Icons
Apply different icon sets to replace the default icons.

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

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

1. From a Home screen, touch and hold the screen.
2. Tap Widgets, and then 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.

• **Swipe down for notification panel**: Enable this feature to open the Notification panel by swiping down anywhere on the Home screen.

• **Rotate to landscape mode**: Rotate the Home screen automatically when your device’s orientation is changed from portrait to landscape.

• **Hide apps**: Choose apps to hide from the Home and App screens. Return to this screen to restore hidden apps. Hidden apps are still installed and can appear as results in Finder searches.

• **About Home screen**: View version information.
Easy mode

The Easy mode layout has larger text and icons, making for a more straightforward visual experience. Switch between the default screen layout and a simpler layout.

1. From Settings, tap ☀ Display > Easy mode.
2. Tap ☐ to enable this feature. The following options appear:
   • Touch and hold delay: Set how long it takes for a continuous touch to be recognized as a touch and hold.
   • High contrast keyboard: Choose a keyboard with high contrast colors.
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

Missed calls  Call in progress  Call on hold  New message  Voicemail
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.
**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.

**Finger sensor gestures**

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

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

**Quick settings**

The Notification panel 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 **Finder search** to search the device.
   - Tap **Open 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.

💡 TIP  You can customize how the Bixby key functions. From Settings, tap Advanced features > Bixby key.

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 or press the Bixby key.

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 More > 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 and parental controls

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

From Settings, tap **Digital wellbeing and parental controls** for the following features:

- **Screen time**: Tap the time value in the dashboard for details on how long each app has been opened and used today.
- **Notifications**: Tap to see how many notifications have been received from each app today.
- **Unlocks**: Tap to see how many times each app has been opened today.
- **App timers**: Set a daily limit for how long you use each app.
- **Focus mode**: Configure times and activities to avoid distractions from your phone.
- **Wind down**: Enable to turn the screen to grayscale and limit notifications before going to bed.
- **Parental controls**: Supervise your children’s digital life with Google’s Family Link app. You can choose apps, set content filters, keep an eye on screen time, and set screen time limits.
Always On Display

View missed calls and message alerts, check the time and date, and view other customized information without unlocking your device using Always On Display (AOD).

1. From Settings, tap Lock screen > Always On Display.
2. Tap to enable the feature, and then set the following options:
   • Choose to show one of the following on the screen when your device isn't in use: Home button and clock, Clock, or Home button.
   • Choose when to show a clock and notifications on the screen when your device is not in use: Tap to show, Show always, or Show as scheduled.
   • Clock style: Change the style and color options for the clock on the Lock screen and Always on Display.
   • Show music information: Show music details when the FaceWidgets music controller is in use.
   • Auto brightness: Automatically adjust the brightness of Always On Display.
   • About Always On Display: View the current software version and license information.

💡 NOTE  Some display settings can appear on both the Lock screen and Always On Display. For more information, see Clock and information on page 141.

AOD themes

Apply custom themes for Always On Display.

1. From a Home screen, touch and hold the screen, and tap Themes > AODs.
   • Tap an AOD to preview and download it to My Always On Displays.
2. Tap My page > AODs to see downloaded AODs.
3. Tap an AOD, and then tap Apply.
Flexible security

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

Intelligent scan

Use Intelligent scan to improve accuracy and security by combining iris and face recognition.

To register a face for identity verification, see Face recognition on the next page.

To register your irises, see Iris scanner on page 31.

Intelligent scan verification

Customize how Intelligent scan works.

- From Settings, tap Biometrics and security > Intelligent scan for the following options:
  - Remove face and iris data: Delete stored iris and face information.
  - Intelligent scan unlock: Unlock your device using both iris and face scanning.
  - Screen-on Intelligent scan: Unlock your device with Intelligent scan as soon as the screen turns on.
  - Stay on Lock screen: When you unlock your device with Intelligent scan, stay on the Lock screen until you swipe the screen.
  - Samsung Pass: Access your online accounts using Intelligent scan verification.
Face recognition
You can enable Face Recognition to unlock your screen. To use your face to unlock your device, you must set a pattern, PIN, or password.

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

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

Face recognition management
Customize how face recognition works.

- From Settings, tap Biometrics and security > Face recognition.
  - Remove face data: Delete existing faces.
  - Add alternative look: Enhance face recognition by adding an alternative appearance.
  - 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.
  - Require open eyes: Facial recognition will only recognize your face when your eyes are open.
  - Brighten screen: Increase the screen brightness temporarily so that your face can be recognized in dark conditions.
  - Samsung Pass: Access your online accounts using face recognition.
Iris scanner

Use iris recognition as an alternative to entering passwords in certain apps. You can also use your irises to verify your identity when logging in to your Samsung account.

For support, visit samsung.com/us/irisscanner.

💡 **NOTE** The Iris scanner is not intended to be used as a medical device and the biometric data collected and stored locally by the mechanism is not intended to be used for any diagnostic, therapeutic, or preventative purposes. Please follow all instructions for use of this feature.

1. From Settings, tap 🔄 Biometrics and security > Irises.
2. Follow the prompts to register your irises.

💡 **NOTE** To register just one of your eyes, tap the option on the setup screen to register one iris.

Iris verification

Iris verification can be used for other accounts accessed from your device.

🔹 From Settings, tap 🔄 Biometrics and security > Irises.

- **Remove iris data**: Delete existing irises.
- **Preview screen mask**: Choose a mask to display when using the iris scanner.
- **Iris unlock**: Enable to unlock the device using your irises.
- **Screen-on iris recognition**: Unlock your device with your irises as soon as the screen turns on.
- **Stay on Lock screen**: When you unlock your device with iris recognition, stay on the Lock screen until you swipe the screen.
- **Samsung Pass**: Use your irises for identification when using supported apps.
- **Samsung Pay**: Use your irises to make payments quickly and securely.
- **Tips for using iris recognition**: View a tutorial on how to use the iris scanner.
**Fingerprint scanner**

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

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

**Fingerprint management**

Add, delete, and rename fingerprints.

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

**Fingerprint verification settings**

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

- From Settings, tap **Biometrics and security > Fingerprints**.
  - **Fingerprint unlock**: Use your fingerprint for identification when unlocking your device.
  - **Samsung Pass**: Use your fingerprint for identification when using supported apps.
  - **Samsung Pay**: Use your fingerprints to make payments quickly and securely.
Biometrics preferences
Configure your preferences for biometric security options.

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

Mobile continuity
Phone calls, messages, photo and video storage, and other functions of your device can be accessed and integrated across compatible mobile devices and computers.

Link to Windows
Achieve mobile continuity between your Samsung device and Windows-based PCs. Get instant access to your device’s photos, messages, and more on a PC by linking your devices.

Pictures
- Drag and drop pictures to Windows.
- Open and edit pictures in the Your Photos app.
- Share images with your contacts through Windows.

Messages (SMS/MMS)
- MMS group messaging support.
- Integration with Windows Emoji Picker.
- Get a Windows pop-up when receiving a new message.

Notifications
- See and manage phone notifications from your PC.
- Exclude notifications from individual phone apps.
- Get a Windows pop-up when receiving a new notification.
App mirroring

- Live stream your phone screen on your PC.
- Interact with your phone using the keyboard and mouse.
- Use Windows Accessibility.

Link your device to your computer

1. From Settings, tap Advanced features > Link to Windows.
2. Tap to enable this feature.
3. Follow the prompts to connect your device to your PC.

🌞 TIP You can also enable this feature from the Quick settings menu.

Samsung DeX for PC

Connect your device to a PC for an enhanced, multitasking experience.

- Use your device and PC apps side-by-side.
- Share the keyboard, mouse, and screen between the two devices.
- Make phone calls or send texts while using DeX.

Visit samsung.com/us/explore/dex for more information.

Set up DeX on your PC

1. Connect your mobile device to a PC with a standard USB-C cable.
2. Follow the instructions on your device for downloading and installing the DeX for PC software on your computer.
**Call & text on other devices**

This feature allows you to make and answer calls and text messages from your Galaxy devices that are signed in to your Samsung account.

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

💡 TIP  Move your contacts from your phone to your Samsung account so you can access them on all registered devices.
Multi window

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

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

The Edge screen is made up of several customizable edge panels. Edge panels can be used to access apps, tasks, and contacts, as well as view news, sports, and other information.
**Apps panel**

You can add up to ten apps in two columns to the Apps panel.

1. From any screen, drag the Edge handle to the center of the screen. Swipe until the Apps panel is displayed.
2. Tap an app or app pair to open it.

To configure the Apps panel:

1. From any screen, drag the Edge handle to the center of the screen. Swipe until the Apps panel is displayed.
2. Tap **Add apps to folder** to add other apps to the Apps panel.
   - To add an app to the Apps panel, find it on the left side of the screen and tap it to add it to an available space on the right column.
   - To create a shortcut for two apps to open in Multi window, tap **Create app pair**.
   - To create a folder shortcut, drag an app from the left side of the screen on top of an app in the columns on the right.
   - To change the order of the apps on the panel, drag each app to the desired location.
   - To remove an app, tap **Remove**.
3. Tap **Back** to save changes.

**Smart Select**

The Smart select feature captures an area of the screen as an image or animation that you can share or pin to the screen.

1. From any screen, drag the Edge handle to the center of the screen. Swipe until the Smart select panel is displayed.
2. Tap a Smart select tool to use:
   - **Rectangle**: Capture a rectangular area of the screen.
   - **Oval**: Capture an oval area of the screen.
   - **Animation**: Record activity on the screen as an animated GIF.
   - **Pin to screen**: Capture an area and pin it to the screen.
Tools

The Tools panel provides handy instruments for quick access.

1. From any screen, drag the Edge handle to the center of the screen. Swipe until the Tools panel is displayed.

2. Tap a tool to use:
   - **Compass**: Identify compass directions.
     - Tap Calibrate to calibrate the compass.
   - **Tally counter**: Use the plus and minus icons to add or subtract while counting.
     - Tap Vibration to enable or disable vibrations with each addition or subtraction.
     - Tap Target to set a total target number between 1 and 9999.
     - Tap Reset to reset the counter.
   - **Flashlight**: Tap Flashlight to turn the flashlight on and off. Use the plus and minus icons to increase or decrease the brightness of the light.
     - Tap SOS to make the flashlight signal the phrase “SOS” in Morse code.
   - **Surface level**: Use the device to determine if a surface is level by placing the device on the surface. The surface is level when the x and y values are close to or equal to zero degrees.
     - Tap Calibrate to calibrate the level.
   - **Ruler**: Use the edge of the device as a ruler to measure a straight line in either inches or centimeters. Tap the unit name to change the units.

Configure Edge panels

You can customize the Edge panels.

1. From the Edge screen, tap ☰ Settings.

2. Tap ☑ to enable the feature. The following options are available:
   - **Checkbox**: Enable or disable each panel.
   - **Edit** (if available): Configure individual panels.
   - **Search**: Find panels that are either installed or available to install.
Getting started

• More options:
  – Reorder: Change the order of the panels by dragging them to the left or right.
  – Uninstall: Remove an Edge panel from your device.
  – Handle settings: Customize the position and style of the Edge handle.

• Galaxy Store: Search for and download more Edge panels from Galaxy Store.

3. Tap Back to save changes.

Edge panel position
You can change the position of the Edge handle.

1. From the Edge screen, tap Settings.
2. Tap More options > Handle settings for the following options:
   • Edge handle: Drag to change the position of the Edge handle along the edge of the screen.
   • Position: Choose either Right or Left to set which side the Edge screen displays on.
   • Lock handle position: Enable to prevent the handle position from being moved when touched and held.

Edge panel style
Change the style of the Edge handle.

1. From the Edge screen, tap Settings.
2. Tap More options > Handle settings for the following options:
   • Colors: Choose a color for the Edge handle.
   • Transparency: Drag the slider to adjust the transparency of the Edge handle.
   • Size: Drag the slider to adjust the size of the Edge handle.
**Edge lighting**

Set the Edge screen to light up when you receive calls or notifications, which makes alerts visible even when the screen is face-down.

1. From Settings, tap ☀ Display > Edge screen > Edge lighting.
2. Tap ⬗ to enable the feature.
Lighting style

Customize the color, width, and transparency of the Edge lighting feature.

1. From Settings, tap ☀️Display > Edge screen > Edge lighting.
2. Tap Lighting style to customize:
   - **Effect**: Choose an edge effect.
   - **Color**: Choose a preset or custom color, and enable app colors.
     - Tap **Add keyword** to configure a custom lighting effect for specific text that appears in notification titles.
   - **Advanced**: Adjust other Edge lighting qualities.
     - **Transparency**: Drag the slider to adjust the transparency of the Edge lighting.
     - **Width**: Drag the slider to adjust the width of the Edge lighting.
     - **Duration**: Drag the slider to adjust how short or long the Edge lighting displays.
3. Tap **Done** when finished.

Choose apps

Choose which apps activate Edge lighting.

1. From Settings, tap ☀️Display > Edge screen > Edge lighting.
2. Tap **Choose apps** to choose the apps that can activate Edge lighting when a notification is received.
Show Edge lighting
Choose when Edge lighting will replace notifications.

1. From Settings, tap Display > Edge screen > Edge lighting.
2. Tap Show Edge lighting to choose:
   - While screen is on: Edge lighting will replace regular notification pop-ups.
   - While screen is off: Edge lighting will replace notifications that turn the screen on.
   - Always: Display edge lighting for all notifications regardless of if the screen is on or off.

About Edge screen
You can view the current software version and license information for the Edge screen feature.

○ From Settings, tap Display > Edge screen > About Edge screen.
Enter text

Text can be entered using a keyboard or your voice.

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

The toolbar provides additional helpful functions.

- From the Samsung keyboard, tap \( \text{Expand toolbar} \) for the following options:
  - [Clipboard]: Access the clipboard.
  - [Emojis]: Insert an emoji.
  - [GIF keyboard]: Add animated GIFs.
  - [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 Samsung voice input.

Configure the Samsung keyboard

Set customized options for the Samsung keyboard.

- From the Samsung keyboard, tap \( \text{Settings} \) for the following options:
  - **Languages and types**: Set the keyboard type and choose which languages are available on the keyboard.
    - To switch between languages, swipe the Space bar left or right.
  - **Smart typing**: Use predictive text and auto-correction features to prevent common typing mistakes. Type by swiping between letters.
  - **Style and layout**: Customize the appearance and function of the keyboard.
  - **Swipe, touch, and feedback**: Customize gestures and feedback.
  - **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 Samsung voice input
Instead of typing, enter text by speaking.

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

Set customized options for Samsung voice input.

1. From the Samsung keyboard, tap Voice input.
2. Tap Settings for options.
   a. **Keyboard language**: Choose the language for the keyboard.
   b. **Voice input language**: Select the language for Samsung voice input.
   c. **Hide offensive words**: Hide potentially offensive words with asterisks.
   d. **About Samsung voice input**: View version and legal information for Samsung voice input.

Emergency mode

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

To save battery power, Emergency mode:

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

Activate Emergency mode

To activate Emergency mode:

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

Emergency mode features

While in Emergency mode, only the following apps and features are available on the Home screen:

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

**Turn off Emergency mode**

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

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

**NOTE** When Emergency mode is activated, Locating method is set to Battery saving. After Emergency mode is turned off, you may need to adjust your location settings. For more information, see **Location** on page 146.
Apps

Using apps

Samsung apps

Google 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 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.
   - **Folder name**: Name the folder.
   - **Palette**: Change the folder color.
   - **Add apps**: Place more apps in the folder. Tap apps to select them, and then tap **Done**.
3. Tap 
   ![Back] to close the folder.

Copy a folder to a Home screen

You can copy a folder to a Home screen.

- From Apps, touch and hold a folder, and tap 
  ![Add to Home].

Delete a folder

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

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

Game Booster

Get optimized performance while playing games based on usage. Block calls or other notifications, and enable features such as Bixby or Dolby Atmos.

- While playing a game, swipe up from the bottom of the screen to view the navigation bar. The following options are seen on the far right and left sides:
  - **Screen touch lock**: Lock the screen to prevent accidental taps. This is the default option.
  - **Game Booster**: Configure other options, including performance monitoring and blocking the navigation bar, screen touches, and screenshots.
App settings

Manage your downloaded and preloaded apps. Options vary by app.

1. From Settings, tap ☰ Apps.

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

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

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

   **App settings**
   - **Notifications**: Configure notifications from the app.
   - **Permissions**: View permissions granted to the app for access to your device’s information.

   **Set as default**: Set the app as a default for a certain category of apps.

   **Advanced**
   - Options vary by app.
App info options

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

The following apps 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.

**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.

**Galaxy Wearable**

Connect your device to your Samsung Watch using this application.

For more information, visit samsung.com/us/support/owners/app/galaxy-wearable-watch.

○ From Apps, tap Samsung folder > Galaxy Wearable.

**Game Launcher**

Automatically arrange all your games in one place. For more information on Game Launcher, visit samsung.com/us/support/owners/app/game-launcher.

○ From Apps, tap Game Launcher.

💡 TIP  If Game Launcher is not seen in the Apps list, then from Settings, tap Advanced features > Game Launcher, and then tap 🔄.
Use Samsung Health™ to plan, track various aspects of daily life contributing to well-being such as physical activity, diet, and sleep. For more information, visit samsung.com/us/support/owners/app/samsung-health.

From Apps, tap Samsung folder > Samsung Health.

NOTE The information gathered from this device, Samsung Health, or related software is not intended for use in the diagnosis of disease or other conditions, or in the cure, mitigation, treatment or prevention of disease.

The accuracy of the information and data provided by this device and its related software, including heart rate readings, may be affected by factors such as environmental conditions, skin condition, specific activity performed while using/wearing the device, settings of the device, user configuration/user-provided information, placement of the sensor on the body, and other end-user interactions. For more information on proper wear and use, visit samsung.com/us/heartratesensor.

Before you start exercising

Although the Samsung Health application is a great companion to your exercise routine, it is always best to make sure you consult with your physician before beginning any exercise regimen. While moderate physical activity, such as brisk walking, is safe for most people, health experts suggest that you talk with your doctor before you start an exercise program, particularly if you have any of the following conditions:

- Heart disease; Asthma or lung disease; Diabetes, or liver or kidney disease; and Arthritis.

Before beginning your exercise regimen check with your doctor if you have symptoms suggestive of heart, lung, or other serious disease, such as:

- Pain or discomfort in your chest, neck, jaw, or arms during physical activity;
- Dizziness or loss of consciousness;
- Shortness of breath with mild exertion or at rest, or when lying down or going to bed;
• Ankle swelling, especially at night;
• A heart murmur or a rapid or pronounced heartbeat;
• Muscle pain when walking upstairs or up a hill that goes away when you rest.

It is recommended that before engaging in an exercise routine, you consult with your doctor or medical practitioner. If you are unsure of your health status, have several health problems, or are pregnant, you should speak with your doctor before starting a new exercise program.

Samsung Members

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

○ From Apps, tap Samsung folder > Samsung Members.
Samsung Notes

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

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

- From Apps, tap Samsung folder > 📋 Samsung Notes > + Create note.
Create notes
Add text, images, voice recordings and more.

1. From Samsung Notes, tap Create note.
2. When you are finished, tap Save.

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, sort, 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 Navigation drawer 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 for up to 15 days.
  - Categories: View notes by category.
  - Settings: View settings for the Samsung Notes app.
Samsung Pay™ lets you make payments with your device. It is accepted almost anywhere you can swipe or tap your credit card. A Samsung account is required.

For support, visit samsung.com/us/support/owners/app/samsung-pay.

- From Apps, tap Samsung Pay, and tap Get started and follow the prompts.

💡 NOTE For added security, your credit and debit card information is not stored on a cloud service. If you are using the Samsung Pay app on multiple devices, you must sign in to the app and confirm all payment cards on each device. Some card issuers may limit the number of devices.

Use Samsung Pay

Use Samsung Pay by opening the app and holding your device over the store’s card reader.

1. From Apps, tap Samsung Pay, select a card to pay with and authorize payments by scanning your finger or iris, or by entering your Samsung Pay PIN.
2. Hold your phone over the store’s card reader.
   - When your payment is complete, a receipt is sent to your registered email.

💡 NOTE Make sure the NFC feature is enabled on your device. For more information, see NFC and payment on page 113.

Simple Pay

Use Simply Pay to access Samsung Pay from the Lock Screen, Home screen, or Always On Display.

1. From Apps, tap Samsung Pay, tap Menu > Settings > Use Favorite Cards.
2. Tap to enable Simple Pay on each screen.
To use Simple Pay:

1. From any screen, swipe up from the bottom of the screen.
   - Your payment card and Simple Pay are displayed.
2. Drag the card down to close Simple Pay.

Use gift cards with Samsung Pay

Purchase, send, and redeem gift cards from an expanding selection of your favorite retailers.

To view the list of supported banks and gift card merchants, visit samsung.com/us/samsung-pay/compatible-cards/#bank.

Secure your information

Samsung Pay is designed with the latest security technology and works on most recent Samsung Galaxy devices. Payments are authorized with your fingerprint, iris, or PIN, and each transaction uses a unique token each time, so your device only allows payments with your consent.

If your device is ever lost, you can use the Find My Mobile function to remotely wipe your data for even more protection. For more information, see Find My Mobile on page 141.

Smart Switch

Use Smart Switch to transfer contacts, photos, and other content from your old device. For more information, see Transfer data from an old device on page 7.

- From Apps, tap Samsung folder > 📱 Smart Switch.
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.

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**Unit converter**
Convert between measurements.

**History**
View past calculations.

**Scientific mode**
If the icon is not visible, turn your device to landscape.

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Devices and software are constantly evolving—the illustrations you see here are for reference only.
The Calendar app can be connected to your various online accounts to consolidate all your calendars in one place.

- From Apps, tap **Calendar**.
Add calendars
Add your accounts to the Calendar app.

1. From 📅 Calendar, tap ⬇️ Navigation drawer.
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.

Calendar alert priority
Alerts from the Calendar app can be set to different priority levels.

1. From 📅 Calendar, tap ⬇️ Navigation drawer > ⚙️ Settings > Alert priority.
   The following options are available:
   • Low: Receive a notification and hear a short sound.
   • Medium: Get a full screen alert and hear a short sound.
   • High: Get a full-screen alert and ring sound that persist until dismissed.
2. Depending on the alert priority selected above, the following sound options are available:
   • Ring once sound: Choose the alert sound for Low or Medium alert priorities.
   • Keep ringing sound: Choose the alert sound for High alert priority.

Create an event
Use your Calendar to create events.

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

Delete an event
Delete events from your Calendar.

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

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

- From Apps, tap Camera.

💡 TIP If Quick launch is enabled, quickly press the Power key twice.
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 circle 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.

Camera Features
Your device features several camera modes and settings that are designed to take your photography to the next level. See below for some useful tips about your camera.

Super Slow-mo
Record videos at a high frame rate for viewing in slow motion.

1. From Camera, swipe to More, and then tap Super slow-mo.
2. Tap Super Slow-mo to record.

💡 TIP  Hold your device steady for best results.

AR Emoji
Turn yourself into an emoji that you can add to text messages.

1. From Camera, swipe to More.
2. Tap AR Emoji.
3. Tap Capture, and follow the prompts to create your emoji.
Live focus
Add interactive focus effects to your pictures.

1. From Camera, tap Live focus.
2. Drag the slider to fine-tune the effect.

Scene optimizer
Your camera can automatically detect what is in frame and adjusts accordingly to help you get beautiful photos by changing the exposure, contrast, white balance, and more. The Scene optimizer is only available when using the rear camera.

- From Camera, swipe to Photo.
  - The Scene optimizer icon changes automatically based on what the camera detects, such as 🌿 when taking nature photos or 🌒 when taking photos in a dark setting.

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.

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

- From Camera, swipe the screen right and left to change shooting modes.
  - Live focus: Take artistic pictures by adjusting the depth of field.
  - Photo: Allow the camera to determine the ideal settings for pictures.
  - Video: Allow the camera to determine the ideal settings for videos.
• **More**: Choose other available shooting modes. Tap **Edit** to drag modes into or out of the Modes tray at the bottom of the Camera screen.
  – **Pro**: Manually adjust the ISO sensitivity, exposure value, white balance, and color tone while taking pictures.
  – **Panorama**: Create a linear image by taking pictures in either a horizontal or vertical direction.
  – **Food**: Take pictures that emphasize the vivid colors of food.
  – **Night**: Use this to take photos in low-light conditions, without using the flash.
  – **Wide selfie**: Take wide-angle selfie shots to fit more people into your pictures.
  – **Sports**: Take clearer pictures of fast moving subjects.
  – **Super slow-mo**: Record videos at an extremely high frame rate for viewing in high quality slow motion. You can play a specific section of each video in slow motion after recording it.
  – **Slow motion**: Record videos at a high frame rate for viewing in slow motion.
  – **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.
   
   • **Scan QR codes**: Automatically detect QR codes when using the camera.
Pictures

- **Rear picture size**: Choose resolution and aspect ratio for pictures captured with the rear camera.
- **Front picture size**: Choose resolution and aspect ratio for pictures captured with the front camera.
- **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 RAW copies**: Save JPEG and RAW copies of pictures taken in Pro mode.

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.
- **Advanced recording options**: Enhance your videos with advanced recording formats.
  - **High efficiency video**: Record videos in HEVC format to save space. Other devices or sharing sites may not support playback of this format.
- **Super slow-mo**: Select how you want to record super slow motion videos.
- **Video stabilization**: Activate anti-shake to keep the focus steady when the camera is moving.

Useful features

- **HDR (rich tone)**: Enables the light sensitivity and color depth features of the device to produce a brighter and richer picture.
- **Tracking auto-focus**: Keep a moving subject in focus.
- **Pictures as previewed**: Save selfies as they appear in the preview without flipping them.
- **Grid lines**: Display viewfinder grid lines to help compose a picture or video.
- **Location tags**: Attach a GPS location tag to the picture.
• Shooting methods:
  – **Press Volume key to**: Use the Volume key to take pictures, record video, zoom, or control system volume.
  – **Voice control**: Take pictures speaking key words.
  – **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.
  – **Tap heart rate sensor**: Tap the heart rate sensor to take a selfie.

• **Storage location**: Select a memory location.
  – A memory card (not included) must be installed to view Storage location.

• **Quick launch**: Press the Power key twice in quick succession to open the camera.

• **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 days for this alarm.
   - **Alarm name**: Enter a name for the alarm.
   - **Alarm sound**: Choose a sound to play for the alarm and drag the slider to set the volume of the alarm.
   - **Vibration**: Choose whether the alarm uses vibration alert.
   - **Snooze**: Allow snoozing. Set interval and repeat values for the alarm while snoozing.
3. Tap Save to save the alarm.

Delete an alarm

You can delete an alarm that you created.

1. From Clock, touch and hold an alarm.
2. Tap Delete.
**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 a 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.
Time zone converter
Set a time in a city on your World clock list to see what the local times would be in the other listed cities.

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

Weather settings
Show weather information on your World clock.

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

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

1. From Clock, tap Stopwatch.
2. Tap Start to begin timing.
   • To keep track of lap times, tap Lap.
3. Tap Stop to end timing.
   • To continue timing after stopping the clock, tap Resume.
   • To reset the Stopwatch to zero, tap Reset.
Timer
Set a countdown timer for up to 99 hours, 59 minutes, and 59 seconds.

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

Preset timer
Name and save preset timers.

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

Timer options
You can customize the Timer options.

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

General settings
View and configure settings for all Clock tools.

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

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

- From Apps, tap 📞 Contacts > + Create contact.
**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.

**Call or message a contact**

You can quickly call or message a contact using their default phone number.

1. From ❱ Contacts, tap a contact.
2. Tap ☎ Call or ✉ Message.

**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 File or Text.
4. Choose a sharing method and follow the prompts.

💡 **TIP**  When viewing a contact, tap ☛ QR code to quickly share the information with friends or family. The QR code automatically updates when you change the contact information fields.
Direct share
Share content directly with your contacts from within any app. Once enabled, your frequent contacts are displayed in the Share window.

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

Groups
You can use groups to organize your contacts.

Create a group
Create your own contact groups.

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

Add or remove group contacts
Add more contacts to a group, or remove contacts.

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

Send a message to a group
Send a text message to members of a group.

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

Send an email to members of a group.

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

Delete a group

Delete a group you have created.

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

Manage contacts

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

Import contacts

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

1. From Contacts, tap Open drawer > Manage contacts.
2. Tap Import or export contacts.
3. Tap Import and follow the prompts.
Export contacts
Export contacts from your device as vCard files (VCF).

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

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.
Email

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.

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

Compose and send email messages from your device.

1. From Email, tap Compose.
   • 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 by 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 ⬇️ Navigation drawer 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 ⬇️ Navigation drawer > ⚙️ 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 ⬇️ Navigation drawer > ⚙️ 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.

Devices and software are constantly evolving — the illustrations you see here are for reference only.
**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 use Bixby Vision on the current picture, tap 🕵️ Bixby Vision. For more information, see Bixby on page 26.
   - To mark the picture as a favorite, tap ❤️ Favorite.
   - To access the following features, tap ▼ More options:
     - **Details**: View and edit information about the picture.
     - **Set as wallpaper**: Set the picture as wallpaper.
     - **Set as Always On Display image**: Set the picture as the background image for the Always On Display.
     - **Move to Secure Folder**: Move the picture to a Secure Folder.
     - **Print**: Send the picture to a connected printer.

**Edit pictures**

Enhance your pictures using the Gallery's editing tools.

1. From 🌟 Gallery, tap Pictures.

2. Tap a picture to view it, and then tap ☞ Edit for the following options:
   - **Transform**: Rotate, flip, crop, or make other changes to the overall appearance of the picture.
   - **Filters**: Add color effects.
   - **Sticker**: Overlay illustrated or animated stickers.
   - **Text**: Add text to the picture.
   - **Draw**: Add handwritten text or hand drawn content.
   - **Tone**: Adjust brightness image controls.

3. Tap Save when finished.
**Play video**

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

1. From 🌟 Gallery, tap Pictures.
2. Tap a video to view it. Swipe left or right to view other pictures or videos.
   - To mark the video as a favorite, tap 🎧 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.
     - **Set as wallpaper**: Set the video as wallpaper on the Lock screen.
     - **Move to Secure Folder**: Add this video to your Secure Folder.
3. Tap ► Play video to play the video.

**Video enhancer**

Enhance the image quality of your videos to enjoy brighter and more vivid colors.

1. From Settings, tap 🌟 Advanced features > Video enhancer.
2. Tap ☑️ to enable this feature.

**Edit video**

Edit videos stored on your device.

1. From 🌟 Gallery, tap Pictures.
2. Tap a video to view it.
3. Tap ✎ Edit to use the following tools:
   - ☛ Rotate: Rotate the video clockwise.
   - ✂️ Trim: Cut segments of the video.
   - 🎥 Filters: Add visual effects to the video.
   - 🌸 Beauty: Enhance faces.
   - CC Caption: Add text to your videos.
   - 😄 Sticker: Overlay illustrated or animated stickers.
• **Draw**: Draw on your video.
• **Speed**: Adjust the play speed.
• **Audio**: Adjust the volume levels and add background music to 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.

### Create movie

Share pictures and videos from the Gallery app by creating a slideshow of your content with video effects and music.

1. From 📷 Gallery, tap 📜 Create movie.
2. Tap pictures and videos to add them to the movie.
3. Tap 📜 Create movie and then choose either Highlight reel (automatic slideshow) or Edit yourself (custom slideshow). The following options are available:
   - **Duration**: Adjust the run time of the entire movie (Highlight reel only).
   - **Transition effect**: Add visual interest to your movie by customizing the transitions between each clip (Edit yourself only).
Title: Add a title and a description to your movie.
Audio: Adjust the volume of your movie, add sounds effects, or add music.
Clips: View and edit each video or picture in your movie.
Add: Incorporate additional clips from the gallery.
Share: Send your movie to friends and family.

4. Tap Save.

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

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

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.

Screen recorder
Record activities on your device, write notes, and use the camera to record a video overlay of yourself to share with friends or family.

1. From Quick Settings, tap Screen recorder to begin recording.
   - Tap Draw to draw on the screen.
   - Tap Selfie video to include a recording from your front camera.
2. Tap Stop to finish recording. These are automatically saved to the Screen recording album in the Gallery.
Screen recorder settings
Control the sound and quality settings for the screen recorder.

- From Settings, tap 🌟 Advanced features > Screenshots and screen recorder > Screen recorder settings.
  - **Sound**: Choose what sounds to record while using the screen recorder.
  - **Video quality**: Select a resolution. Selecting a higher resolution for higher quality requires more memory.
  - **Selfie video size**: Drag the slider to set the size of the video overlay.
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.

Browser tabs

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

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

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 Tools > Add page to > Saved pages.

NOTE To view saved web pages, tap Tools > Saved pages.

View history

To view a list of recently visited web pages:

- From Internet, tap Tools > History.

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

Share pages

Web pages can be shared with your contacts.

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

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

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

1. From 🌐 Internet, tap 🀄 Tabs > Turn on Secret mode. Tap any of the following features for additional protection:
   - Smart anti-tracking
   - Ask sites not to track me
   - Lock Secret mode

2. Tap Start to begin browsing in Secret mode.

To turn off Secret mode:

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

**Internet settings**

Modify settings associated with using the Internet app.

- From 🌐 Internet, tap 🍄 Tools > Settings.
Keep in touch with your contacts by using the Messages app to share photos, send emojis, or just say a quick hello.

- From Apps, tap Messages > Compose new message.

**Message search**

To quickly locate a message, use the search feature.

1. From Messages, tap Search.
2. Enter keywords in the Search field, and then tap Search on the keyboard.
Delete conversations
You can remove your conversation history by deleting conversations.

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

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

1. From 📬 Messages, tap ☰ More options > Settings.
2. Tap Emergency alert settings to customize notifications for emergency alerts.

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

1. From Settings, tap 📣 Advanced features > Send SOS messages, and then tap ☑️ to enable this feature.
2. Tap Send messages to and add recipients by creating new contacts or selecting from Contacts.
   • To include a picture from your front and rear camera, tap Attach pictures.
   • To include a five-second audio recording in your SOS message, tap Attach audio recording.
3. Press the Power key quickly three times to send an SOS message.

Message settings
Configure the settings for text and multimedia messages.

☐ From 📬 Messages, tap ☰ More options > Settings.
My Files

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

- From Apps, tap Samsung folder > My Files.
**File groups**

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

- **Recent files**: View recently accessed files.
  - This option is displayed if one or more files have been accessed recently.
- **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.
- **Analyze storage**: See what’s taking up space in your storage.

**My Files options**

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

- From **My Files**, the following options are available:
  - **Search**: Search for a file or folder.
  - **More options**:
    - **Clear Recent files list**: Remove the list of recently accessed files. This option is only available after a file has been opened through My Files.
    - **Analyze storage**: See what’s taking up space in your storage.
    - **Trash**: Choose to restore or permanently remove files that you delete.
    - **Settings**: View settings for the app.
The Phone app does more than just make telephone calls. Explore the advanced calling features. See your carrier for more information.

- From a Home screen, tap **Phone**.
Calls
The Phone app allows you to make and answer calls from the Home screen, Recents tab, Contacts and more.

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

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

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

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

Make a call from Recents
All incoming, outgoing, and missed calls are recorded in the Call log.

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

Make a call from Contacts
Call a contact from the Contacts app.

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

Direct calls
Call the contact whose call log, message, or contact details are currently on the screen by bringing the device close to your ear.

- From Settings, tap Advanced features > Motions and gestures > Direct call, and tap to enable.
Answer a call
When a call is received, the phone rings and the caller’s phone number or name is displayed. If you are using an app, a pop-up screen is displayed for the incoming call.

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

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

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

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

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

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

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

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

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

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

- Press the Volume keys to increase or decrease the volume.
Switch to headset or speaker

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

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

Multitask

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

To return to the call screen:

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

To end a call while multitasking:

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

Call pop-up settings

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

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

Places

Explore nearby business and venues to get contact information and directions.

1. From 📞 Phone, tap Places.
2. Tap a category to search nearby.
3. Tap a location to view contact information and directions.

💡 NOTE  Location services must be enabled to use this feature.
Manage calls
Your calls are recorded in a call log. You can set up speed dials, block numbers, and use voicemail.

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

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

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

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

Delete call records
To delete Call log entries:

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

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

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

💡 TIP You can also modify your Block list in Settings. From Phone, tap More options > Settings > Block numbers.
Speed dial
You can assign a shortcut number to a contact for speed dialing their default number.

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

Make a call with Speed dial
You can make a call using Speed dial.

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

Remove a Speed dial number
You can remove an assigned Speed dial number.

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

Voicemail
Use your phone’s voicemail feature.

For information on setting up voicemail, see Set up voicemail on page 10.

1. From Phone, touch and hold the 1 key.
2. Follow the voice prompts from the voicemail center.
Emergency calls

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

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

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

Phone settings

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

○ From Phone, tap More options > Settings.

Optional calling services

If available with your service plan, the following calling services are supported.

Place a multi-party call

If your service plan supports this feature, you can make another call while a call is in progress.

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

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

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

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

💡 **NOTE** To use RTT, you must be connected to a mobile or Wi-Fi network.
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 146.
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.
Additional apps

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

Facebook

Keep up with friends and family with the Facebook™ app. Share updates, photos, and videos, as well as text, chat, and play games.
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.
   - **MAC address type**: Choose which type of MAC address to use for this connection.
   - **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 ![Wi-Fi on/off icon] to turn on Wi-Fi.
2. Tap ![More options icon] > **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.
   - **Detect suspicious networks**: Get notified when suspicious activity is detected on the current Wi-Fi network.
   - **Wi-Fi power saving mode**: Enable Wi-Fi traffic analysis to reduce battery usage.
   - **Network notification**: Receive notifications when open networks in range are detected.
   - **Manage networks**: View saved Wi-Fi networks and configure whether to auto reconnect to or forget individual networks.
   - **Wi-Fi control history**: View apps that have recently turned your Wi-Fi on or off.
   - **Hotspot 2.0**: Connect automatically to Wi-Fi networks that support Hotspot 2.0.
• **Install network certificates**: Install authentication certificates.
• **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:
   - **Ringtone sync**: Use the ringtone set on your phone when you receive calls through a connected Bluetooth device.
   - **Bluetooth control history**: View apps that have used Bluetooth recently.

**Dual audio**

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

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

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

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

NFC and payment

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

○ From Settings, tap Connections > NFC and payment, and then tap ○ to turn on this feature.

Android Beam

Use Android Beam to share photos, contacts, or other data between NFC-enabled devices.

1. From Settings, tap Connections > NFC and payment, and then tap ○ to turn on NFC.
2. Tap Android Beam, and then tap ○ to turn on this feature.

TIP When sharing a file, tap Android Beam to use this feature.

Tap and pay

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

1. From Settings, tap Connections > NFC and payment, and then tap ○ to turn on NFC.
2. Tap Tap and pay > Payment to see the default payment app.
   • To use another payment app when it is open instead of the default app, tap Tap and pay with open apps.
   • To set another payment app as the default, tap Others, and then tap the app you prefer.
**TIP**  NFC technology is used with Samsung Pay. Turn on this feature to see how easy and secure it is to use your device to make payments.

### 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.

### Data usage

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

- From Settings, tap \[Connections \> Data usage.\]

### 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.
   - To view a list of devices that are connected to your Mobile hotspot, tap \[Connected devices.\]
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.

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.
   • Power saving mode: Reduce battery usage by analyzing hotspot traffic.
   • Protected management frames: Enable this feature for additional privacy protections.

Timeout settings

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

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

Band

Select one of the available bandwidth options.

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

Auto hotspot

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

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

Tethering

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

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.

💡 NOTE Not all apps support printing.

MirrorLink

If your car is compatible with MirrorLink™ you can mirror your device’s display on your car’s entertainment and information screen using a USB connection.

Visit mirrorlink.com to learn more.

1. Connect your device to your car’s system using the USB cable.
2. From Settings, tap Connections > More connection settings > MirrorLink.
3. Tap Connect to car via USB, and follow the prompts.
Download booster

Download booster improves download speed by using both Wi-Fi and LTE networks at the same time when downloading files over 30 MB in size.

- From Settings, tap Connections > More connection settings > Download booster, and tap to enable.

💡 NOTE  Download booster uses mobile data services.

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.

Sounds and vibration

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

Sound mode

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

From Settings, tap Sounds and vibration, and then choose a mode:

- **Sound**: Use the sounds, vibrations, and volume levels you have chosen in Sound settings for notifications and alerts.
  - **Vibrate while ringing**: Set your device to vibrate in addition to ringing when you receive a call.
- **Vibrate**: Use vibration only for notifications and alerts.
- **Mute**: Set your device to make no sounds.
  - **Temporary mute**: Set a time limit for muting the device.
**TIP**  Use the sound mode setting instead of the volume keys to change the sound mode without losing your customized sound levels.

### 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.

### Vibrations

You can control how and when your device vibrates

1. From Settings, tap 🎧 Sounds and vibration.
2. Tap options to customize:
   - **Vibration pattern**: Choose from preset vibration patterns.
   - **Vibration intensity**: Set vibration intensity levels for calls, notifications, and touch interactions by dragging the sliders.

### Volume

Set the volume level for call ringtones, notifications, 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 > Volume.
2. Tap Use Volume keys for media to enable this feature.
Media volume limit

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

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

Ringtone

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

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

Notification sound

Choose a preset sound for all notification alerts.

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

💡 TIP You can also customize notifications sounds to be unique for each app using the App settings menu.
System sounds and vibration

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

○ From Settings, tap <b>Sounds and vibration</b> > <b>System sound/vibration control</b> for the following options:

System sounds

• **Touch interactions**: Play tones when you touch or tap the screen to make selections.
• **Screen lock/unlock**: Play a sound when you lock or unlock the screen.
• **Charging**: Play a sound when a charger is connected.
• **Dialing keypad**: Play a tone when dialing numbers on the Phone keypad.
• **Samsung keyboard**: Play a sound when typing with the Samsung keyboard.

System vibration

• **Touch interactions**: Vibrate when you tap navigation buttons or touch and hold items on the screen.
• **Samsung keyboard**: Vibrate 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 <b>Sounds and vibration</b> > <b>Sound quality and effects</b>.
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 <b>Sounds and vibration</b> > <b>Sound quality and effects</b>.
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 > Sound quality and effects, and tap an option to turn it on:
  - UHQ upscaler: Sharpens audio resolution for crisp sound.
  - Tube Amp Pro: Simulates the soft timbre of a tube amplifier.
  - Concert hall: Simulates the reverb of a concert hall.

Adapt sound

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

1. From Settings, tap Sounds and vibration > Sound quality and effects > Adapt sound.
2. Tap 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. Connect to a Bluetooth device to make this option available in the Audio device menu.

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

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

Manage notifications

You can configure notifications from apps and services.

- From Settings, tap 📲 Notifications.
  - Suggest actions and replies: Get applicable suggestions for actions to notifications and replies to messages.
  - Show snooze option: Get an option to snooze a notification for a later time.
  - App icon badges: Identify which apps have active notifications with badges that appear on their icons. Tap to choose whether or not badges indicate the number of unread notifications.
  - Status bar: Modify how many notifications appear on the Status bar.
  - LED indicator: Use the LED indicator for status notifications, like sound recording, unread notifications, and battery charging.
  - Do not disturb: Block sounds and notifications while this mode is turned on. Specify exceptions for people, apps, and alarms.
  - 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.
   - Categories: Configure notification options that are specific to this app.
   - App icon badges: Show a badge on the icon when there are notifications.
Smart alert

You can set the device to notify you about missed calls and messages by vibrating when you pick it up.

○ From Settings, tap Advanced features > Motions and gestures > Smart alert, and tap to enable.

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.
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.

Dark mode

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

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

Screen 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:
  • Tap Font style to choose a different font.
    – Tap a font to select it, or tap + Download fonts to add fonts from Galaxy Store.
  • Tap Bold font to make all fonts appear with bold weight.
  • Drag the Font size slider to adjust the size of text.

Screen zoom

Adjust the zoom level to 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 resolution

You can lower the screen resolution to save battery power, or increase it to sharpen the image quality.

1. From Settings, tap ☀ Display > Screen resolution.
2. Tap your preferred resolution, and then tap Apply.

⚠️ NOTE  Some apps may not support higher or lower screen resolution settings and may close when you change the resolution.

Full screen apps

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

○ From Settings, tap ☀ Display > Full screen apps and tap apps to enable this feature.
Screen timeout

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

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

💡 NOTE Prolonged display of non-moving images, excluding Always On Display, may result in permanent ghost-like afterimages or degraded image quality. Turn off the display screen when not in use.

Accidental touch protection

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

○ From Settings, tap Display > Accidental touch protection to enable or disable the feature.

Touch sensitivity

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

○ From Settings, tap Display > Touch sensitivity to enable.

Screen saver

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

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

💡 TIP Tap Settings next to a feature for additional options.
Reduce animations
Decrease certain motion effects, such as when opening apps.

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

Lift to wake
Turn on the screen by lifting the device.

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

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.

One-handed mode
You can change the screen layout to accommodate operating your device with one hand.

1. From Settings, tap Advanced features > One-handed mode.
2. Tap Use One-handed mode to enable the feature and select one of the following options:
   - Gesture: Swipe down in the center of the bottom edge of the screen.
   - Button: Tap Home two times in quick succession to reduce the display size.
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.
  - App power management: Configure battery usage for apps that are used infrequently.
  - Fast cable charging: Enable or disable fast cable charging when connected to a supported charger.
  - Fast wireless charging: Enable or disable fast wireless charging when using a supported charger.
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 > Advanced.
2. 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 > Advanced.
2. Under Portable storage, tap your SD card, and then tap Unmount.
3. Remove your memory card from the device.
Format a memory card

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

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

Memory

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

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

Device security

Enable and configure security services for your device.

- From Settings, tap Device care > Security for the following options:
  - Tap Scan phone to scan for security threats.
Advanced options

Other Device care features are available in the Advanced menu.

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

Language and input

Configure your device’s language and input settings.

Change the device language

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

1. From Settings, tap General management > Language and input > Language.
2. Tap Add language, and select a language from the list.
3. Tap Set as default to change the device language.

- To switch to another language on the list, tap the desired language, and then tap Apply.
Default keyboard
You can select a default keyboard for your device’s menus and keyboards. Additional keyboards can be downloaded from the Google Play store.

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

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

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

Manage on-screen keyboards
Enable or disable on-screen keyboards.

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

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

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

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

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

Autofill service

Save time entering information using autofill services.

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

Text-to-speech

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

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

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

Software update

Check for and install available software updates for your device.

○ From Settings, tap Software update for the following options:

  • Download and install: Check for software updates and install if any are available.
  • Auto download over Wi-Fi: Automatically download software updates when the device is connected to a Wi-Fi network.
  • Last update: View information about the installation of the current software.

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:
   - Days: Select the day of the week to automatically restart your device.
   - Time: Set the time of day to restart your device.

Factory Data Reset

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

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

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

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

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

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

To reset your device:

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

Factory Reset Protection

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

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

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

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 29.

Set a secure screen lock

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

1. From Settings, tap Lock screen > Screen lock type and tap a secure screen lock (Pattern, PIN, or Password).

2. Tap to enable showing notifications on the lock screen. The following options are available:
   - View style: Display notification details or hide them and show only an icon.
   - Hide content: Do not show notifications in the Notification panel.
   - Notifications to show: Choose which notifications to show on the Lock screen.

3. Tap Done 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.
   - Always On Display: Enable the Always On Display screen. For more information, see Always On Display on page 28.
Clock and information

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

- From Settings, tap 🔄 Lock screen for the following options:
  - **Wallpaper services**: Enable additional features such as guide page and Dynamic Lock Screen.
  - **Clock style**: Set the type and color of the clock on the Lock screen and Always On Display screen.
  - **Roaming clock**: Change to digital clocks showing both local and home time zones when roaming.
  - **FaceWidgets**: Enable widgets on the Lock screen and Always On Display 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 and Always On Display screen.
  - **Shortcuts**: Select which app shortcuts to add to the Lock screen.
  - **About Lock screen**: Update the Lock screen’s software.

Google Play Protect

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

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

Find My Mobile

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

Before you can use the Find My Mobile feature, you must turn it on and customize the options. To access your device remotely, visit findmymobile.samsung.com.

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

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. You must sign in to your Samsung account to set up and use Secure folder.

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

Secure Wi-Fi
Get extra privacy protection while using unsecured Wi-Fi networks. You must sign in to your Samsung account to set up and use Secure Wi-Fi.

- From Settings, tap Biometrics and security > Secure Wi-Fi and follow the prompts to configure privacy protection.

Secure startup
You can protect your device by requiring a PIN, pattern, or password when your device is turned on.

💡 TIP A secure screen lock (Pattern, PIN, or Password) is required to use Secure startup.

- From Settings, tap Biometrics and security > Secure startup and select an option.

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

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

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

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

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

View passwords

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

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

Device administration

You can authorize security features and apps (like Find My Mobile) to have administrative access to your device.

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

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

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

**Advanced security settings**

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

- From Settings, tap 📲 Biometrics and security > Other security settings for the following options:
  - **Trust agents**: Allow trusted devices to perform selected actions when connected.
    - This option is only displayed when a lock screen is turned on. For more information, see Set a secure screen lock on page 140.
  - **Pin windows**: Pin an app on your device screen, which prevents access to other features of your device.
  - **Security policy updates**: Keep your device secure by checking for security updates.
Permission manager

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

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

NOTE When using an app or service for the first time that wants to access certain features of your device, a dialog box asks if you want to permit such access. You can choose from Allow all the time, Allow only while using the app, or Deny for each type of access requested.

Send diagnostic data

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

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

Location

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

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

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

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

1. From Settings, tap 📍**Location** > **App permissions**.
2. Tap an app and select which of the following location permissions to grant it:
   - Allow all the time
   - Allow only while using the app
   - Deny

**Improve accuracy**

Enable other location scanning tools.

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

**Recent location requests**

View a list of apps that have requested your location.

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

**Location services**

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

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

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

Samsung Cloud

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

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

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.
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.
2. Tap the account and then tap Remove account.
Backup and restore

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

Samsung account

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

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

Google Account

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

- From Settings, tap Accounts and backup > Backup and restore for 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 7.

- 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: Lean 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 theme: Adjust colors and screen fonts to increase the contrast for easier viewing.
  - High contrast fonts: Adjust the color and outline of fonts to increase the contrast with the background.
  - High contrast keyboard: Adjust the size of the Samsung keyboard and change its colors to increase the contrast between the keys and the background.
  - Show button shapes: Show buttons with shaded backgrounds to make them stand out better against the wallpaper.
• **Color inversion**: Reverse the display of colors from white text on a black background to black text on a white background.

• **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:
  - Real time text: Activate real-time text (RTT) calling.
  - Hearing aid support: Improve the sound quality to work better with hearing aids.
  - Amplify ambient sound: Enable this feature and connect headphones to your device to amplify the sounds of conversations.
  - Adapt sound: Customize the sound for each ear and enhance your listening experience. See Adapt sound on page 123.
  - Left/right sound balance: Use the slider to adjust the left and right balance when listening to audio in stereo.
  - Mono audio: Switch audio from stereo to mono when using one earphone.
  - Mute all sounds: Turn off all notifications and audio for privacy.

Text display

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

- From Settings, tap Accessibility > Hearing enhancements and tap an option:
  - Live transcribe: Use the microphone to record speech and convert it to text.
  - Subtitle settings: Configure closed caption and subtitle services.
  - Sound detectors: Receive alerts when the device detects a baby crying or a doorbell.
Interaction and dexterity

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

Alternate input

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

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

Interactions

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

- From Settings, tap Accessibility > Interaction and dexterity and tap an option:
  - Answering and ending calls:
    - Read caller names aloud: Hear callers’ names read aloud when using Bluetooth or headsets (not included).
    - Press Volume up to answer: Use the Volume keys to answer calls.
    - Answer automatically: Answer calls after a set duration when using Bluetooth or headsets (not included).
    - Press Power key to end: End calls by pressing the Power key.
  - Easy screen turn on: Turn on the screen by laying it flat and moving your hand over the screen instead of using the Power button.
  - Interaction control: Customize areas of screen interactions, hardkeys, and the keyboard.
Touch settings
You can adjust your screen to be less sensitive to taps and touches.

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

Mouse and physical keyboard
Configure settings for a connected mouse and physical keyboard.

- From Settings, tap Accessibility > Interaction and dexterity and tap an option:
  - Click after pointer stops: Automatically click on an item after the pointer stops over it.
  - Sticky keys: When you press a modifier key like Shift, Ctrl, or Alt, the key stays pressed down, which allows you to enter keyboard shortcuts by pressing one key at a time.
  - Slow keys: Set how long a key must be held before it is recognized as a press, which helps avoid accidental key presses.
  - Bounce keys: Set how long to wait before accepting a second press from the same key, which helps avoid accidentally pressing the same key multiple times.
Advanced settings

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

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

Direct access

- From Settings, tap 🃝 Accessibility > Advanced settings and tap an option:
  - Power and Volume up keys: Configure selected Accessibility features to open by quickly pressing the Power and Volume up keys at the same time. Tap 🔄 to enable the feature, and then tap any of the listed Accessibility features to either enable or open the feature’s menu.
  - 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.
    - Selected service: Choose a service to launch with this key combination.
    - Allow on Lock screen: Allow this key combination to activate even when the screen is locked.

Notifications

- From Settings, tap 🃝 Accessibility > Advanced settings and tap an option:
  - Flash notification: Flash either the camera light or the screen when you receive notifications or when alarms sound.
  - Notification reminders: Set periodic reminders for any unread notifications.
  - Time to take action: Choose how long to show messages that ask you to take action, but are visible only temporarily (like notifications).
  - Direction lock: Unlock the screen by swiping in a series of directions.
  - Voice Label: Write voice recordings to NFC tags (not included) to provide you with information about objects or locations as you near them.
Installed services

You can install additional assistance services for your device.

- From Settings, tap Accessibility > Installed services.

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

About Accessibility

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

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

Other settings

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

Help

View the user manual on your device.

- From Settings, tap Tips and help.

Dual Messenger

Use two separate accounts for the same app.

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

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

1. From Settings, tap **About phone**, and then view your phone number, model number, serial number, and IMEI information.

2. Tap additional items to view more information about your device.

💡 TIP  You can view your device’s FCC ID from **About phone > Status**.
Learn more

Videos
samsung.com/us/support/videos

Smart Simulator
samsungsimulator.com

Samsung Care
samsung.com/us/support

Talk to an agent
Contact us on Facebook Messenger
Find us on Facebook
Follow us on Twitter

Tips
samsung.com/us/support/tips
READ THIS INFORMATION BEFORE USING YOUR MOBILE DEVICE.

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

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

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

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

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

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

**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.
Maintaining water and dust resistance

⚠️ CAUTION To avoid electric shock and damage to your device, do not charge device while it is wet or in an area where it could get wet. Do not handle device, charger or cords with wet hands while charging.

The device is not impervious to dust and water damage in any situation. It is important that all compartments are closed tightly.

Follow these tips carefully to prevent damage to the device and maintain dust and water resistance performance:

- Water resistant based on IP68 rating, which tests submersion in fresh water deeper than 1.5 meters or keep it submerged for more than 30 minutes. If device is exposed to fresh water, dry it thoroughly with a clean, soft cloth; if exposed to liquid other than fresh water, rinse with fresh water and dry as directed.
- Any device which uses accessible compartments or ports that can be opened should have these sealed or closed tightly to prevent liquid from entering the system.
- If the device has been immersed in water or the microphone or speaker is wet, sound may not be heard clearly during a call. After wiping the device with a dry cloth, dry it thoroughly before using it.
- Do not expose the device to water at high pressure.
- If the device is dropped or receives an impact, the water and dust resistant features of the device may be damaged.

💡 NOTE Liquid other than fresh water may enter the device faster. Failure to rinse the device in fresh water and dry it as instructed may cause the device to suffer from operability or cosmetic issues.
Restricting children’s access to your mobile device

Your mobile device is not a toy. Do not allow children under the age of 3 to play with it because they could hurt themselves or others or damage the device. If parents choose to allow children 3 or older to use the device, they should make sure that there is adequate supervision to guard against injury or damage and use of services that may increase data costs or other charges.

Parental control settings should be enabled to ensure that children do not have access to services or content not approved by the parent. Routinely check this device to ensure it is working properly and is safe for children to use.

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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.