Table of contents

<table>
<thead>
<tr>
<th>Features</th>
<th>Page</th>
</tr>
</thead>
<tbody>
<tr>
<td>Meet Bixby</td>
<td>1</td>
</tr>
<tr>
<td>Camera</td>
<td>1</td>
</tr>
<tr>
<td>Expandable storage</td>
<td>1</td>
</tr>
<tr>
<td>Night mode</td>
<td>1</td>
</tr>
<tr>
<td>Multi window</td>
<td>1</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Getting started</th>
<th>Page</th>
</tr>
</thead>
<tbody>
<tr>
<td>Front view</td>
<td>3</td>
</tr>
<tr>
<td>Back view</td>
<td>4</td>
</tr>
<tr>
<td>Assemble your device</td>
<td>5</td>
</tr>
<tr>
<td>Install cards and the battery</td>
<td>6</td>
</tr>
<tr>
<td>Charge the battery</td>
<td>8</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Start using your device</th>
<th>Page</th>
</tr>
</thead>
<tbody>
<tr>
<td>Use the Setup Wizard</td>
<td>9</td>
</tr>
<tr>
<td>Transfer data from an old device</td>
<td>9</td>
</tr>
<tr>
<td>Lock or unlock your device</td>
<td>10</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Accounts</th>
<th>Page</th>
</tr>
</thead>
<tbody>
<tr>
<td>Set up voicemail</td>
<td>12</td>
</tr>
<tr>
<td>Table of contents</td>
<td></td>
</tr>
<tr>
<td>------------------</td>
<td></td>
</tr>
<tr>
<td>Navigation</td>
<td>13</td>
</tr>
<tr>
<td>Customize your home screen</td>
<td>18</td>
</tr>
<tr>
<td>Bixby</td>
<td>24</td>
</tr>
<tr>
<td>Digital wellbeing</td>
<td>25</td>
</tr>
<tr>
<td>Multi window</td>
<td>26</td>
</tr>
<tr>
<td>Enter text</td>
<td>27</td>
</tr>
<tr>
<td>Emergency mode</td>
<td>30</td>
</tr>
</tbody>
</table>

**Apps** 32

| Using apps       | 33    |
| Uninstall or disable apps | 33    |
| Search for apps  | 33    |
| Sort apps        | 33    |
| Create and use folders | 34    |
| App settings     | 34    |

<p>| Samsung apps     | 36    |
| Galaxy Essentials| 36    |
| Galaxy Store     | 36    |
| Galaxy Wearable  | 36    |
| Samsung Notes    | 37    |</p>
<table>
<thead>
<tr>
<th>Table of contents</th>
</tr>
</thead>
<tbody>
<tr>
<td>Calculator 39</td>
</tr>
<tr>
<td>Calendar 40</td>
</tr>
<tr>
<td>Camera 42</td>
</tr>
<tr>
<td>Contacts 46</td>
</tr>
<tr>
<td>Clock 51</td>
</tr>
<tr>
<td>Email 56</td>
</tr>
<tr>
<td>Gallery 59</td>
</tr>
<tr>
<td>Internet 63</td>
</tr>
<tr>
<td>Messages 66</td>
</tr>
<tr>
<td>My Files 68</td>
</tr>
<tr>
<td>Phone 70</td>
</tr>
<tr>
<td>Google apps 78</td>
</tr>
<tr>
<td>Chrome 78</td>
</tr>
<tr>
<td>Drive 78</td>
</tr>
<tr>
<td>Duo 78</td>
</tr>
<tr>
<td>Gmail 78</td>
</tr>
<tr>
<td>Google 78</td>
</tr>
<tr>
<td>Maps 79</td>
</tr>
<tr>
<td>Photos 79</td>
</tr>
</tbody>
</table>
Table of contents

- Play Movies & TV 79
- Play Music 79
- Play Store 79
- YouTube 79

- Carrier apps 80
- Call Protect 80
- Device Help 80
- Mobile Security 80
- myAT&T 80

- Setup & Transfer 80
- Visual Voicemail 80

- Additional apps 81
- Amazon Shopping 81
- Facebook 81

- Settings 82
- Access Settings 83
- Search for Settings 83

- Connections 83
- Wi-Fi 83
<table>
<thead>
<tr>
<th>Topic</th>
<th>Page</th>
</tr>
</thead>
<tbody>
<tr>
<td>Bluetooth</td>
<td>85</td>
</tr>
<tr>
<td>Airplane mode</td>
<td>86</td>
</tr>
<tr>
<td>Mobile networks</td>
<td>87</td>
</tr>
<tr>
<td>Data usage</td>
<td>87</td>
</tr>
<tr>
<td>Mobile hotspot</td>
<td>88</td>
</tr>
<tr>
<td>Tethering</td>
<td>90</td>
</tr>
<tr>
<td>Nearby device scanning</td>
<td>90</td>
</tr>
<tr>
<td>Connect to a printer</td>
<td>90</td>
</tr>
<tr>
<td>Virtual Private Networks</td>
<td>91</td>
</tr>
<tr>
<td>Private DNS</td>
<td>91</td>
</tr>
<tr>
<td>Sounds and vibration</td>
<td>92</td>
</tr>
<tr>
<td>Sound mode</td>
<td>92</td>
</tr>
<tr>
<td>Vibrations</td>
<td>92</td>
</tr>
<tr>
<td>Volume</td>
<td>93</td>
</tr>
<tr>
<td>Ringtone</td>
<td>94</td>
</tr>
<tr>
<td>Notification sounds</td>
<td>94</td>
</tr>
<tr>
<td>System sounds</td>
<td>94</td>
</tr>
<tr>
<td>Dolby Atmos</td>
<td>95</td>
</tr>
<tr>
<td>Equalizer</td>
<td>95</td>
</tr>
<tr>
<td>Section</td>
<td>Page</td>
</tr>
<tr>
<td>-------------------------------</td>
<td>------</td>
</tr>
<tr>
<td>Headset audio options</td>
<td>95</td>
</tr>
<tr>
<td>Adapt sound</td>
<td>95</td>
</tr>
<tr>
<td>Notifications</td>
<td>96</td>
</tr>
<tr>
<td>Manage notifications</td>
<td>96</td>
</tr>
<tr>
<td>Customize app notifications</td>
<td>96</td>
</tr>
<tr>
<td>Smart alert</td>
<td>96</td>
</tr>
<tr>
<td>Display</td>
<td>97</td>
</tr>
<tr>
<td>Screen brightness</td>
<td>97</td>
</tr>
<tr>
<td>Night mode</td>
<td>97</td>
</tr>
<tr>
<td>Screen mode</td>
<td>97</td>
</tr>
<tr>
<td>Font size and style</td>
<td>98</td>
</tr>
<tr>
<td>Screen zoom</td>
<td>98</td>
</tr>
<tr>
<td>Screen timeout</td>
<td>98</td>
</tr>
<tr>
<td>Screen saver</td>
<td>98</td>
</tr>
<tr>
<td>Reduce animations</td>
<td>99</td>
</tr>
<tr>
<td>One-handed mode</td>
<td>99</td>
</tr>
<tr>
<td>Device maintenance</td>
<td>99</td>
</tr>
<tr>
<td>Quick optimization</td>
<td>99</td>
</tr>
<tr>
<td>Battery</td>
<td>100</td>
</tr>
<tr>
<td>Section</td>
<td>Page</td>
</tr>
<tr>
<td>----------------------------------------------</td>
<td>------</td>
</tr>
<tr>
<td>Storage</td>
<td>100</td>
</tr>
<tr>
<td>Memory</td>
<td>101</td>
</tr>
<tr>
<td>Language and input</td>
<td>102</td>
</tr>
<tr>
<td>Date and time</td>
<td>104</td>
</tr>
<tr>
<td>Troubleshooting</td>
<td>105</td>
</tr>
<tr>
<td>Lock screen and security</td>
<td>108</td>
</tr>
<tr>
<td>Screen lock types</td>
<td>108</td>
</tr>
<tr>
<td>Clock and information</td>
<td>109</td>
</tr>
<tr>
<td>Google Play Protect</td>
<td>109</td>
</tr>
<tr>
<td>Find My Mobile</td>
<td>109</td>
</tr>
<tr>
<td>Security update</td>
<td>110</td>
</tr>
<tr>
<td>Install unknown apps</td>
<td>110</td>
</tr>
<tr>
<td>Secure Folder</td>
<td>111</td>
</tr>
<tr>
<td>Secure startup</td>
<td>111</td>
</tr>
<tr>
<td>Encrypt SD card</td>
<td>111</td>
</tr>
<tr>
<td>Factory data reset password</td>
<td>112</td>
</tr>
<tr>
<td>Set up SIM card lock</td>
<td>112</td>
</tr>
<tr>
<td>View passwords</td>
<td>112</td>
</tr>
<tr>
<td>Security update service</td>
<td>112</td>
</tr>
</tbody>
</table>
Table of contents

Device administration 113
Credential storage 113
Advanced security settings 113
Location 114
App permissions 115
Permission usage monitor 115
Send diagnostic data 115
Accounts 116
Samsung Cloud 116
Add an account 116
Account settings 116
Remove an account 117
Backup and restore 117
Google settings 118
Accessibility 118
Screen Reader 118
Visibility enhancements 119
Hearing enhancements 120
Interaction and dexterity 121
Table of contents

Advanced settings 123
Installed services 123
Other settings 124
Help 124
Dual Messenger 124
About phone 124

Learn more 125
Videos 125
Smart Simulator 125
Tips 125
Samsung Care 125
Talk to an agent 125

Legal information 126
Intellectual property 127
Open source software 127
Disclaimer of warranties; exclusion of liability 128
Modification of software 128
Notice from AT&T 129
Samsung Knox 130

ix
<table>
<thead>
<tr>
<th>Topic</th>
<th>Page</th>
</tr>
</thead>
<tbody>
<tr>
<td>Restricting children’s access to your mobile device</td>
<td>130</td>
</tr>
<tr>
<td>Samsung Electronics America, Inc.</td>
<td>130</td>
</tr>
</tbody>
</table>
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 24.

Camera

The camera on your device has several unique features. See Camera on page 42.

Expandable storage

Expand storage with a supported microSD™ card. See Memory card on page 100.

Night mode

Use a darker theme to keep your eyes comfortable at night. See Night mode on page 97.

Multi window

Multitask by using two applications at the same time. See Multi window on page 26.
Getting started

Front view

Back view

Assemble your device

Start using your device
Front view

- Front camera
- Volume keys
- Power key
- USB charger/Accessory port

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

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

Charge your device

Before turning on your device, charge it fully.
Install cards and the battery

The SIM card, optional microSD card, and battery are installed in the back of the device.

1. Lift the cover up and to the left of the device.

2. Carefully slide the SIM card into the SIM card slot. Make sure that the card’s gold contacts face down into the device.
3. Slide the microSD card into the slot with the gold contacts facing down.

4. Insert the battery into the opening on the back of the device, making sure the connectors align.
5. Gently press down to secure the battery.
6. Place the back cover onto the back of the device and press down.

7. Press along the edge of the back cover until you have a secure seal.

Charge the battery

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

While charging, the device and the charger may become hot and stop charging. This usually does not affect the device’s lifespan or performance and is in the device’s normal range of operation.

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

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

- Press and hold the Power key.
  - To turn the device off, press and hold the Power key, and tap ✅ Power off. Confirm when prompted.
  - To restart your device, press and hold the Power key, and tap ✅ Restart.

Use the Setup Wizard

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

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

Transfer data from an old device

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

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

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

Visit samsung.com/smartsswitch for more information.
Lock or unlock your device

Use your device’s screen lock features to secure your device. By default, the device locks automatically when the screen times out. For more information about screen locks, see Lock screen and security on page 108.

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

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

Set up and manage your email accounts, your Google™ Account, and Samsung account.

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

Add a Google Account

Sign in to your Google Account to access your Google cloud storage, apps installed from your account, and make full use of your device’s Android™ features.

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

💡 NOTE When you sign in to a Google Account, Factory Reset Protection (FRP) is activated. FRP requires your Google Account information when resetting to factory settings. For more information, see Factory reset protection on page 107.

Add a Samsung account

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

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

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

Add an email account

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

1. From Settings, tap Accounts and backup > Accounts.
2. Tap Add account > Email.
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, tap 📬 Voicemail.
2. Follow the tutorial to create a password, record a greeting, and record your name.
Navigation

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

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

Touch and hold items to activate them.

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

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

App icons

You can use app icons to launch an app from any Home screen.

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

To remove an icon:

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

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

Use folders

Organize App shortcuts in folders on an Apps screen or Home screen.

For more information, see Create and use folders on page 34.

Wallpapers

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

1. From a Home screen, touch and hold the screen.
2. Tap Wallpapers.
3. Tap View all to see all available wallpapers.
4. Tap an image to choose it.
   - Tap the screen or screens to which you want to apply the wallpaper.
5. Tap Set as wallpaper, and confirm when prompted.
Icons
Apply different icon sets to replace the default icons.

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

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

1. From a Home screen, touch and hold the screen.
2. Tap Themes to customize.
3. Tap View all to see downloaded themes.
4. Tap a theme to preview and download it to My themes.
5. Tap a theme, and then tap Apply to apply the selected theme.

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

1. From a Home screen, touch and hold the screen.
2. Tap Widgets, and then touch and hold a widget, drag it to a Home screen, and release it.

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

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

Customize your Home and Apps screens.

1. From a Home screen, touch and hold the screen.

2. Tap 🌎 Home screen settings to customize:

   - **Home screen layout**: Set your device to have separate Home and Apps screens, or only a Home screen where all apps are located.
   - **Home screen grid**: Choose a layout to determine how icons are arranged on the Home screen.
   - **Apps screen grid**: Choose a layout to determine how icons are arranged on the Apps screen.
   - **Apps button**: Add a button to the Home screen for easy access to the Apps screen.
   - **App icon badges**: Enable to show badges on apps with active notifications. You can also choose the badge style.
   - **Lock Home screen layout**: Prevent items on the Home screen from being removed or repositioned.
   - **Add apps to Home screen**: Automatically add newly-downloaded apps to the Home screen.
   - **Quick-open notification panel**: Enable this feature to open the Notification panel by swiping down anywhere on the Home screen.
   - **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 Easy mode to enable this feature.
3. Tap Apply to confirm.

To disable Easy mode:
1. From Settings, tap ☀ Display > Easy mode > Standard mode.
2. Tap Apply to exit Easy mode.
**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.

- Quick settings
- View all
- Device settings
- Notification cards

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

You can access the Notification panel from any screen.

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

Quick settings

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

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

Bixby

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

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

○ From a Home screen, swipe right.
Digital wellbeing

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

○ From Settings, tap Digital wellbeing for the following features:
  • Screen time: Tap the time value in the dashboard circle for details on how long each app has been opened and used today.
  • Times opened: Tap the Unlocks number to see how many times each app has been opened today.
  • Notifications received: Tap the Notifications number to see how many notifications have been received from each app today.
  • Dashboard: View all dashboard information shown above. Each app can have a timer set to limit usage throughout the day.
  • Wind down: Enable to turn the screen to grayscale and limit notifications before going to bed.
  • Notifications: Configure notification settings for each app.
Multi window

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

1. From any screen, tap Recent apps.
2. Tap the app icon, and then tap Open in split screen view.
3. Tap an app in the other window to add it to the split screen view.
   • Drag the middle of the window border to adjust the window size.
Enter text
Text can be entered using a keyboard or your voice.

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

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

The toolbar provides additional helpful functions.

- From the Samsung keyboard, tap **Expand toolbar** for the following options:
  - **Clipboard**: Access the clipboard.
  - **Emojis**: Insert an emoji.
  - **GIF keyboard**: Add animated GIFs.
  - **Modes**: Select a keyboard layout.
  - **Settings**: Access keyboard settings.
  - **Stickers**: Add illustrated stickers.
  - **Text editing**: Use an editing panel to help pinpoint text that you want to cut, copy, and paste.
  - **Voice input**: Use Google Voice™ typing.

**Configure the Samsung keyboard**

Set customized options for the Samsung keyboard.

- From the Samsung keyboard, tap **Settings** for the following options:
  - **Languages and types**: Set the keyboard type and choose which languages are available on the keyboard.
    - To switch between languages, slide the Space bar sideways.
  - **Smart typing**: Use predictive text and auto-correction features to prevent common typing mistakes. Type by swiping between letters.
  - **Keyboard layout and feedback**: Customize the appearance and function of the keyboard.
  - **Reset to default settings**: Return keyboard to original settings and clear personalized data.
  - **About Samsung keyboard**: View version and legal information for the Samsung keyboard.
Use Google Voice typing

Instead of typing, enter text by speaking.

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

Set customized options for Google Voice typing.

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

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
  – **Email**: Launch the Email app.
  – **Maps**: Launch Google Maps™.
• 🌋 **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.
  – **Manage 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.

1. Press and hold the **Power** key.
2. Tap 🗳 **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 114.
Apps

Using apps

Samsung apps

Google apps

Carrier apps

Additional apps
Using apps

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

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

Uninstall or disable apps

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

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

Search for apps

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

1. From Apps, tap Finder search, and enter a word or words. As you type, matching apps and settings appear as results on the screen.

2. Tap a result to go to that app.

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

Sort apps

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

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

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

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

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

Copy a folder to a Home screen

You can copy a folder to a Home screen.

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

Delete a folder

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

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

App settings

Manage your downloaded and preloaded apps.

1. From Settings, tap **Apps**.
2. Tap **Menu** to set which apps to view, and then choose **All**, **Enabled**, or **Disabled**.
3. Tap **More options** for the following options:
   - **Sort by name/size**: Sort the apps alphabetically by first letter or file size.
   - **Default apps**: Choose or change apps that are used by default for certain features, like email or browsing the Internet.
• **App permissions**: Control which apps have permissions to use certain features of your device.

• **Show/Hide system apps**: Show or hide system (background) apps.

• **Special access**: Select which apps can have special access permissions to features on your device.

• **Reset app preferences**: Reset options that have been changed. Existing app data is not deleted.

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

• **Uninstall/Disable**: Uninstall or disable the app. Some preloaded apps can only be disabled, not uninstalled.

• **Force stop**: Stop an app that is not working correctly.

• **Mobile data**: View mobile data usage.

• **Battery**: View battery usage since the last full charge.

• **Storage**: Manage the app’s storage usage.

• **Memory**: View memory usage.

• **Notifications**: Configure notifications from the app.

• **Permissions**: View permissions granted to the app for access to your device’s information.

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

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

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

Galaxy Essentials

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

○ From Apps, tap More options > Galaxy Essentials.

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.
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.
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 by: Change the way notes are organized.
  • View by: Switch between Grid, List, or Simple list.

Notes menu

You can view your notes by category.

○ From Samsung Notes, tap Menu for the following options:
  • All notes: View all notes.
  • Frequently used: Quick access to commonly used notes.
  • Trash: View deleted notes.
  • Categories: View notes by category.
  • Settings: View settings for the Samsung Notes app.
The Calculator app features both basic and scientific math functions, as well as a unit converter.

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

- From Apps, tap **Calendar**.
Add calendars

Add your accounts to the Calendar app.

1. From Calendar, tap Menu.
2. Tap Settings > Add new account and select an account type.
3. Enter your account information and follow the prompts.

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

Create an event

Use your Calendar to create events.

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

Delete an event

Delete events from your Calendar.

1. From Calendar, tap an event, and tap again to edit it.
2. Tap Delete, and confirm when prompted.
You can capture high-quality pictures and videos using the Camera app.

- From Apps, tap Camera.

💡 TIP If Quick launch is enabled, quickly press the Home 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 light bulb to adjust the brightness.
   • To quickly switch between the front and rear cameras, swipe the screen up or down.
   • To change to a different shooting mode, swipe the screen right or left.
   • To change camera settings, tap 🗝 Settings.
2. Tap 📷 Capture.

Record videos
Record high-quality videos using your device.

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

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

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

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

- From Apps, tap Camera, and swipe to the right or left to see shooting modes. To reorganize and view all shooting modes, touch and hold a shooting mode.
  - **Photo**: Allow the camera to determine the ideal mode for the picture.
  - **Video**: Allow the camera to determine the ideal mode for the video.
  - **Night**: Use this to take photos in low-light conditions, without using the flash.
  - **HDR**: Enables the light sensitivity and color depth features of the device to produce a brighter and richer picture.
  - **Sports**: Take clearer pictures of fast-moving subjects.
  - **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.
  - **Continuous shot**: Touch and hold the Camera button to take pictures continuously.
  - **Wide selfie**: Take wide-angle selfie shots to fit more people into your pictures.

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:
  - **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.
Videos

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

Useful features

- **Grid lines**: Display viewfinder grid lines to help compose a picture or video.
- **Location tags**: Attach a GPS location tag to the picture.
- **Camera modes**: Set the default camera mode. You can also reorder or hide your shooting modes.
- **Shooting methods**:
  - **Press Volume key to**: Use the Volume key to take pictures, record video, zoom, or control system volume.
  - **Floating shutter button**: Add an extra shutter button that you can move anywhere on the screen.
  - **Tap screen**: Tap the screen to take selfies.
  - **Show palm**: Hold your hand out with your palm facing the camera to have your picture taken in a few seconds.
- **Storage location**: Select a memory location.
  - A memory card (not included) must be installed to view Storage location.
- **Quick launch**: Press the Home key twice in quick succession to open the camera.
- **Quick review**: Review pictures after taking them.
- **Shutter sound**: Play a tone when taking a picture.
- **Pictures as previewed (Selfie)**: Save self-portraits or self-recordings as viewed on the camera screen, not as flipped images.
- **Reset settings**: Reset the camera settings.
- **About Camera**: View app and software information.
Contacts

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

- From Apps, tap Contacts > + Create contact.

Add profile picture
Add, delete, and expand fields

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

Direct share

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

○ From Settings, tap 🕵 Advanced features > Direct share, and tap 🔔 to enable the feature.

Favorites

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

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

Share a contact

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

1. From 🔄 Contacts, tap a contact.
2. Tap ✉ Share.
3. Tap either **vCard file (VCF)** or **Text**.
4. Choose a sharing method and follow the prompts.

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

**Groups**

You can use groups to organize your contacts.

**Create a group**

Create your own contact groups.

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

**Send a message to a group**

Send a text message to members of a group.

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

Delete a group

Delete a group you have created.

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

Manage contacts

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

Import contacts

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

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

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

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

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

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

Delete contacts
Delete a single contact or multiple contacts.

1. From Contacts, touch and hold a contact to select it.
   • You can also tap other contacts to select them for deletion.
2. Tap Delete, and confirm when prompted.
The Clock app offers features for keeping track of time and setting alarms.

- From Apps, tap Clock, and tap a tab to use a feature.
**Alarm**

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

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

**Delete an alarm**

You can delete an alarm that you created.

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

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

1. From 🕒 Clock, tap **World clock**.
2. Tap ➔ **Add city** > **Search for city**, and enter the name of the city.
3. Tap the city name in the list, and then tap **Add**.
   - To remove a city, touch and hold it, and tap 🗑 **Delete**.
Time zone converter
Set a time in a city on your World clock list to see what the local times would be in the other listed cities.

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

Weather settings
Show weather information on your World clock.

1. From Clock, tap World clock.
3. Tap to enable.
4. Tap Unit to change from Fahrenheit to Celsius.

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

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

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

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

**Timer options**

You can customize the Timer options.

○ From 🕒 Clock, tap Timer and choose an option:
  - ✬ Add preset timer: Save a preset timer with a custom name.
  - ☀ More options > Set timer sound: Choose the timer sound or create your own.
View and manage multiple email accounts in one app. To add an email account, see Add an email account on page 11.

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

Compose and send email messages from your device.

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

Manage the inbox

Organize and search your inbox.

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

You can view email you receive for multiple accounts, or you can view email accounts individually.

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

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

Email settings

Modify settings associated with using the Email app.

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

Remove email accounts

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

1. From Email, tap > Settings.
2. Tap the account you want to remove.
3. Tap Remove, and confirm when prompted.
Go to the Gallery to look at all the visual media stored on your device. You can view, edit, and manage pictures and videos.

- From Apps, tap 📷 Gallery.
View pictures
Pictures stored on your device are viewable in the Gallery app.

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

Edit pictures
Enhance your pictures using the Gallery's editing tools.

1. From 🌟 Gallery, tap Pictures.
2. Tap a picture to view it, and then tap ✏️ Edit for the following options:
   • Transform: Rotate, flip, crop, or make other changes to the overall appearance of the picture.
   • Effects: Add color effects.
   • Stickers: Overlay illustrated or animated stickers.
   • Text: Add text to the picture.
   • Draw: Add handwritten text or hand drawn content.
   • Brightness: Adjust brightness image controls.
Play video

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

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

Edit video

Edit videos stored on your device.

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

Share pictures and videos

Share pictures and videos from the Gallery app.

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

Delete pictures and videos stored on your device.

1. From 📸 Gallery, tap ☰ More options > Edit.
2. Tap pictures and videos to select them, or tap the All checkbox at the top of the screen to select all pictures and videos.
3. Tap_delete_delete, and confirm when prompted.

Take a screenshot

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

○ From any screen, press and hold the Power and Volume down keys.
Samsung Internet is a simple, fast, and reliable web browser for your device. Experience more secure Web browsing features with Secret Mode and Contents Blocker.

- From Apps, tap Internet.


Devices and software are constantly evolving — the illustrations you see here are for reference only.
Browser tabs
Use tabs to view multiple web pages at the same time.

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

💡 NOTE To view saved web pages, tap 📕 Saved pages.

View history
To view a list of recently visited web pages:

- From 🌐 Internet, tap 📚 History.

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

Share pages
Web pages can be shared with your contacts.

- From 🌐 Internet, tap ✉️ Share, and follow the prompts.
Secret mode

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

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

1. From ☰ Internet, tap Tabs > Turn on Secret mode.
2. Tap Set password to protect your Secret mode data with a password.

To turn off Secret mode:

○ From ☰ Internet, tap Tabs > Turn off Secret mode.

Internet settings

Modify settings associated with using the Internet app.

○ From ☰ Internet, tap ☰ > 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**.

**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 conversion history by deleting conversations.

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

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

1. From Settings, tap Connections > More connection settings.
2. Tap Wireless emergency alerts > 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.
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.
- **Categories**: View your files based on the file type.
- **Storage**: View files saved on your device, optional SD card, and cloud accounts.
  - Cloud drives vary depending on the services you sign in to.
- **Storage analysis**: See what’s taking up space in your storage.

**My Files options**

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

- From **My Files**, the following options are available:
  - **Search**: Search for a file or folder.
  - **More options**:
    - **Storage analysis**: See what’s taking up space in your storage.
    - **Settings**: View settings for the app.
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.

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 \( \text{Decline} \) to the left to reject the call and send it to your voicemail.

💡 TIP On the incoming pop-up screen, tap \( \text{Decline} \) 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 \( \text{Send message} \) upward and select a message.

💡 TIP On the incoming call pop-up screen, tap \( \text{Send message} \) and select a message.

End a call
- Tap \( \text{End} \) 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 \( \text{Speaker} \) to hear the caller using the speaker or tap \( \text{Bluetooth} \) 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.

Manage calls

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

Call log

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

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

Save a contact from a recent call

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

1. From 📞 Phone, tap Recents.
2. Tap the call that contains the information that you want to save to your Contacts list, and tap ✚ Add to contacts.
3. Tap Create contact or Update existing.
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 ➡️ Remove 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 12.

1. From 📞 Phone, tap ☎️ Voicemail.
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).

Video calls
To make Video calls:

○ Tap Phone, enter a number, and then tap Video call.

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

Wi-Fi calling
Make calls over Wi-Fi when you are connected to a Wi-Fi network. Contact your carrier for details.

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

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

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

1. From 📞 Phone, tap ☰ More options ☰ Settings.
2. Tap Real time text for the following options:
   - **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 4G LTE 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](http://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](http://support.google.com/drive) to learn more.

**Duo**
Make one-to-one video calls.

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

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

Visit [support.google.com/mail](http://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](http://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 114.

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

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

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

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

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

Play Music
Play music and audio files on your device.

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

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

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

YouTube
Watch and upload YouTube™ videos right from your device.

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

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

Call Protect
Take control over nuisance calls.

Device Help
Access online information to help with your device questions.

Mobile Security
Configure and manage key security options, such as anti-virus and anti-malware technology.

myAT&T
Manage your AT&T account. You can review and pay your bill, check minutes and data usage, upgrade to a new device, or change your plan.

Setup & Transfer
Transfer your contacts, call logs, messages and media when switching phones.

Visual Voicemail
View and play voicemail messages, easily save important numbers to your Favorites list, and respond by calling or texting.
Additional apps

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

**Amazon Shopping**
Shop at amazon.com™ from 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.
   • **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 ☑️ to turn on Wi-Fi.
2. Tap **Advanced**.
   • **Switch to mobile data**: When enabled, your device will switch to mobile data whenever the Wi-Fi connection is unstable. When the Wi-Fi signal is strong, it switches back to Wi-Fi.
   • **Turn on Wi-Fi automatically**: Turn on Wi-Fi in frequently-used locations.
   • **Auto connect to AT&T Wi-Fi**: Automatically connect to an AT&T Wi-Fi hotspot when detected.
   • **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.

3. Tap **View more** to see additional network settings.
   • **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 ![Wi-Fi](#) 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 ![Bluetooth](#) 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:
   - **Media volume sync**: Sync the volume level set on the connected Bluetooth devices to your device.
   - **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.

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

1. From Settings, tap Connections > Airplane mode.
2. Tap ☐ to enable this feature.
Mobile networks

Use Mobile networks to configure your device's ability to connect to mobile networks and use mobile data.

- From Settings, tap Connections > Mobile networks.
  - Mobile data: Enable mobile data usage.
  - International data roaming: Change voice, text and data roaming settings for international roaming.
  - Allow 2G service: Permit the use of 2G service in areas with limited cellular coverage.
  - Access Point Names: Choose or add APNs, which have the network settings your device needs to connect to your provider.
  - Network operators: Choose available and preferred networks.
  - AT&T mobile network diagnostics: Collect diagnostic and usage data for troubleshooting.

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

Data usage

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

- From Settings, tap Connections > Data usage.

Turn on Data saver

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

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

You can customize your mobile data access by setting limits and restrictions.

- From Settings, tap 👉 Connections > Data usage. The following options are available:
  - Mobile data: Use mobile data from your plan.
  - International data roaming: Enable mobile data services while roaming internationally.
  - Mobile data usage: View data usage over mobile connections over a period of time. You can view total usage as well as usage by app.
  - Billing cycle and data warning: Change the monthly date to align with your carrier’s billing date.

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

Monitor Wi-Fi data

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

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

Mobile hotspot

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

1. From Settings, tap 👉 Connections > Mobile hotspot and tethering > Mobile hotspot.
2. Tap to turn on Mobile hotspot.
3. On the devices you want to connect, activate Wi-Fi and select your device’s Mobile hotspot. Enter the Mobile hotspot password to connect.

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

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

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

Allowed devices list

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

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

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

Configure mobile hotspot settings

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

1. From Settings, tap Connections > Mobile hotspot and tethering > Mobile hotspot.
2. Tap More options > Configure mobile hotspot for the following settings:
   • Network name: View and change the name of your Mobile hotspot.
   • Hide my device: Prevent your Mobile hotspot from being discoverable by other devices.
   • Security: Choose the security level for your Mobile hotspot.
   • Password: If you choose a security level that uses a password, you can view or change it.
   • Show advanced options: Configure additional Mobile hotspot settings.
**Timeout settings**

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

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

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

**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. Connect the computer to the device using a USB cable, and then tap USB tethering.

**Nearby device scanning**

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

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

**Connect to a printer**

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

1. From Settings, tap ☰ Connections > More connection settings > Printing.
2. Tap [+ Download plugin] and follow the prompts to add a print service.
3. Tap the print service, and then tap ☰ More options > Add printer.

💡 TIP  Make sure the app you want to print from supports printing.
Virtual Private Networks

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

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

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

Manage a VPN

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

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

Connect to a VPN

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

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

Private DNS

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

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

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

Sound mode

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

○ From Settings, tap Sounds and vibration > Sound mode, and then choose a mode:
  • Sound: Use the sounds, vibrations, and volume levels you have chosen in Sound settings for notifications and alerts.
  • Vibrate: Use vibration only for notifications and alerts.
  • Mute: Set your device to make no sounds.
    – Temporary mute: Set a time limit for muting the device.

💡 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:
   • Vibrate while ringing: Set your device to vibrate in addition to ringing when you receive a call.
   • Vibration pattern: Choose from preset vibration patterns.
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.
2. Tap Use Volume keys for media to enable this feature.

Media volume limiter

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

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

Choose a preset sound for all notification alerts.

1. From Settings, tap 🎨 Sounds and vibration ➤ Notification sounds.

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**

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

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

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

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

Equalizer

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

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

Headset audio options

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

- From Settings, tap Sounds and vibration > Advanced sound settings > Sound quality and effects, and tap an option to turn it on:
  - 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 > Advanced sound settings > Sound quality and effects > Adapt sound.
2. Tap the sound profile that fits you best, and tap Settings to customize.

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

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

Manage notifications

You can configure notifications from apps and services.

- From Settings, tap Notifications.
  - **App icon badges**: Identify which apps have active notifications with badges that appear on their icons. Tap to choose whether or not badges indicate the number of unread notifications.
  - **Do not disturb**: Block sounds and notifications while this mode is turned on. Specify exceptions for people, apps, and alarms.
  - **Status bar**: Modify how many notifications appear on the Status bar.
  - To block notifications from an app, tap next to the app. Tap See all to open the complete list of apps.

Customize app notifications

You can change notification settings for each app.

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

Smart 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.
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 Outdoor mode to increase the screen brightness for 15 minutes for greater visibility when outdoors.

Night mode

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

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

Screen mode

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

1. From Settings, tap 🌋 Display > Screen mode.
2. Tap an option to set a different screen mode.
Font size and style
You can change the font size and style to customize your device.

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

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

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

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

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

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

1. From Settings, tap ☀️ Display > Screen saver.
2. Tap ☑️ to enable the feature and configure the following options:
   - Colors: Tap the selector to display a changing screen of colors.
   - Photo table: Display pictures in a photo table.
   - Photo frame: Display pictures in a photo frame.
   - Photos: Display pictures from your Google Photos account.
3. Tap Preview for a demonstration of the selected Screen saver.

💡 TIP  Tap ☀️ Settings next to a feature for additional options.
**Reduce animations**

Decrease certain motion effects, such as when opening apps.

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

**One-handed mode**

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

1. From Settings, tap Advanced features > Motions and gestures > One-handed mode.
2. Tap to enable the following:
   - **Gesture**: Swipe up diagonally from either bottom corner to reduce the display size.
   - **Button**: Tap Home three 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.
  - Usage by apps: View power usage by app today or over the past week.
  - More options > Settings: Configure advanced battery settings and notifications.

Storage

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

Device storage

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

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

Memory card

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

For more information, see Assemble your device on page 5.

Mount a memory card

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

1. From Settings, tap Device care > Storage.
2. Tap More options > Storage settings.
3. Under Portable storage, tap your SD card, and then tap Mount.
Remove a memory card

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

1. From Settings, tap 
Device care > Storage.
2. Tap 
More options > Storage settings.
3. Under Portable storage, tap your SD card, and then tap Unmount.
4. Remove your memory card from the device.

Format a memory card

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

1. From Settings, tap 
Device care > Storage.
2. Tap 
More options > Storage settings.
3. Under Portable storage, tap your SD card, tap Format, and then follow the prompts.

Memory

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

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

Configure your device’s language and input settings.

Change the device language

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

1. From Settings, tap General management > Language and input > Language.
2. Tap + Add language, and select a language from the list.
3. Tap Set as default to change the device language.
   • To switch to another language on the list, drag Move next to the desired language to the top of the list, and then tap Apply.

Default keyboard

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

1. From Settings, tap General management > Language and input.
2. Tap Default keyboard, and select a keyboard.

Google Voice typing

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

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

Manage on-screen keyboards

Enable or disable on-screen keyboards.

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

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

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

**Autofill service**

Save time entering information using autofill services.

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

**Text-to-speech**

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

- From Settings, tap **General management > Language and input > Text-to-speech** for options:
  - **Preferred engine**: Choose either the Samsung or Google Text-to-speech engine. Tap **Settings** for options.
  - **Language**: Set the default speech language.
  - **Speech rate**: Set the speed at which the text is spoken.
  - **Pitch**: Set the pitch of the speech.
  - **Play**: Tap to play a short demonstration of speech synthesis.
  - **Reset**: Reset the speech rate and pitch.
**Pointer speed**
Configure pointer speed for an optional mouse or trackpad (not included).

1. From Settings, tap **General management > Language and input**.
2. Under **Pointer speed**, drag the slider to the right to go faster or to the left to go slower.

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

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

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

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

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

Software update

Check for and install available software updates for your device.

- From Settings, tap Software update for the following options:
  - Check for updates: Manually check for software updates.
  - Continue update: Resume an update that was interrupted.

Reset

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

Reset settings

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

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

Reset network settings

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

1. From Settings, tap General management > Reset > Reset network settings.
2. Tap Reset settings, and confirm when prompted.
Reset accessibility settings
You can reset device accessibility settings. Accessibility settings in downloaded apps and your personal data are not affected.

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

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

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

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

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

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

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

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

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

To reset your device:

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

Factory reset protection

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

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

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

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.

Set a secure screen lock

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

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

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

3. Tap Done when finished.

4. Configure the following screen lock options:
   - Smart Lock: Unlock your device automatically when trusted locations or other devices have been detected. A secure screen lock is required for this feature.
   - Secure lock settings: Customize your secure lock settings. A secure screen lock is required for this feature.
Clock and information

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

- From Settings, tap Lock screen for the following options:
  - **Clock style**: Set the type and color of the clock on the Lock screen.
  - **Roaming clock**: Change to digital clocks showing both local and home time zones when roaming.
  - **FaceWidgets**: Enable widgets on the Lock screen to get quick access to useful information.
  - **Contact information**: Show your contact information, such as your phone number or email address.
  - **Notifications**: Select which notifications to display on the Lock screen.
  - **App shortcuts**: Select which apps to open from the Lock screen.
  - **About Lock screen**: Update the Lock screen's software.

Google Play Protect

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

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

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. For more information, visit samsung.com/us/support/owners/app/find-my-mobile.

💡 TIP A Samsung account is required, and Google location service must be turned on in order to use 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 Security > Find My Mobile.
2. Tap Add Samsung account and follow the prompts. The following options are available:
   • Remote controls: Turn on to access your device remotely.
   • Google location service: Turn on to enable Google location service to find your device.
   • 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 Security > Security update to see the latest security update installed and check if a newer update is available.

Install unknown apps

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

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

💡 TIP  Installing unknown third-party apps could make your device and personal data more vulnerable to security risks.
Secure Folder
You can create a secure folder on your device to protect private content and apps from anyone who may be using your device.

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

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

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 Security > Secure startup and select an option.

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

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

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

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

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

Factory data reset password

You can require a password to reset your device to factory default settings.

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

Set up SIM card lock

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

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

View passwords

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

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

Security update service

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

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

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

1. From Settings, tap 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 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 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 108.
  - Pin windows: Pin an app on your device screen, which prevents access to other features of your device.
Location

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

1. From Settings, tap Security > Location.
2. Tap to turn on Location services.
3. Tap Improve accuracy to use other connections for determining your location:
   - Wi-Fi scanning: Allow apps and services to scan for Wi-Fi networks automatically, even when Wi-Fi is turned off.
   - Bluetooth scanning: Allow apps to scan for and connect to nearby devices automatically through Bluetooth, even when Bluetooth is turned off.

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

Recent location requests

View a list of apps that have requested your location.

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

Location services

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

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

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

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

Permission usage monitor

Apps might use permissions of your device 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 Security > Permission usage monitor.
2. Tap next to the apps you want to be notified about.

Send diagnostic data

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

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

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

**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.

**Add an account**

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

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

**Account settings**

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

1. From Settings, tap Accounts and backup > Accounts.
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 9.

- 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.
  • Remove animations: Remove certain screen effects if you are sensitive to motion.
  • Color inversion: Reverse the display of colors from white text on a black background to black text on a white background.
  • Color correction: Adjust the color of the screen if you find it difficult to see some colors.
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.
  - Mute all sounds: Turn off all notifications and audio for privacy.
  - Hearing aid support: Improve the sound quality to work better with hearing aids.
  - 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.
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:
  - Samsung subtitles (CC): Use Samsung subtitles with multimedia files when available.
  - Google subtitles (CC): Use Google subtitles with multimedia files when available.

Interaction and dexterity

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

Alternate input

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

- From Settings, tap Accessibility > Interaction and dexterity and tap an option:
  - Universal switch: Control your device with your customized switches.
  - Assistant menu: Improve device accessibility for users with reduced dexterity.
  - Click after pointer stops: Automatically click on an item after the pointer stops over it.
Interactions
You can simplify the motions needed to 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 Home key to answer calls: Use the Home key 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.
  - Interaction control: Customize areas of screen interactions, hardkeys, and the keyboard.

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

- From Settings, tap 🔄 Accessibility > Interaction and dexterity and tap an option:
  - Touch and hold delay: Select a time interval for this action.
  - Tap duration: Set how long an interaction must be held to be recognized as a tap.
  - Ignore repeated touches: Set a time duration in which to ignore repeated touches.
Advanced settings
You can customize additional accessibility features and services for your device.

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

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

Notifications
◆ From Settings, tap Accessibility > Advanced settings and tap an option:
  • Flash notification: Flash either the camera light or the screen when you receive notifications or when alarms sound.
  • Notification reminders: Set periodic reminders for any unread notifications.
  • Direction lock: Unlock the screen by swiping in a series of directions.

Installed services
You can install additional assistance services for your device.

◆ From Settings, tap Accessibility > Installed services.

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

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

**Help**

View the user manual on your device.

- From Settings, tap  

**Dual Messenger**

Use two separate accounts for the same app.

1. From Settings, tap  
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  

**About phone**

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

1. From Settings, tap  
2. Tap additional items to view more information about your device.

💡 TIP  You can view your device's FCC ID from About phone  

**Settings**
Learn more

Videos
samsung.com/us/support/videos

Smart Simulator
samsungsimulator.com

Tips
samsung.com/us/support/tips

Samsung Care
samsung.com/us/support

Talk to an agent
Contact us on Facebook Messenger
Find us on Facebook
Follow us on Twitter
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. For complete terms and conditions that bind you and Samsung, refer to the “Arbitration Agreement” section of the Terms & Conditions, included with the Product.

Find legal information online

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

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

Phone:

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

Tablet:

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

End User License Agreement:

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

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

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

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- merchantability of the Product or its fitness for any particular purpose or use;
- design, condition or quality of the Product;
- performance of the Product;
- workmanship of the Product or the components contained therein; or
- compliance of the Product with the requirements of any law, rule, specification or contract pertaining thereto.

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Modification of software

Samsung is not liable for performance issues or incompatibilities caused by your editing of registry settings, or your modification of Operating System (OS) software.
Using custom OS software may cause your device and applications to work improperly. Your carrier may not permit users to download certain software, such as custom OS.

Diagnostic Software

This device is equipped with diagnostic software reporting usage and performance information used solely to deliver improved network quality and overall device experience to AT&T customers. Please refer to your AT&T Wireless Customer Agreement and/or the AT&T Privacy Policy (att.com/privacy) for more information.

Notice from AT&T

This device is intended for use exclusively on AT&T’s system. You agree that you won’t make any modifications to the Equipment or programming to enable the Equipment to operate on any other system. A voice plan is required on all voice-capable devices, unless specifically noted otherwise in the terms governing your agreement. Some devices or plans may require you to subscribe to a data plan.

Your device is designed to make it easy for you to access a wide variety of content. For your protection, AT&T wants you to be aware that some applications that you enable may involve the location of your device being shared. For applications available through AT&T, AT&T offers privacy controls that let you decide how an application may use the location of your device and other devices on your account. However, AT&T’s privacy tools do not apply to applications available outside of AT&T. Please review the terms and conditions and the associated privacy policy for each location-based service to learn how location information will be used and protected.

Your device may be used to access the Internet and to download, and/or purchase goods, applications, and services from AT&T or elsewhere from third parties. AT&T provides tools for you to control access to the Internet and certain Internet content. These controls may not be available for certain devices which bypass AT&T controls.

AT&T may collect certain types of information from your device when you use AT&T services to provide customer support and to improve its services.

For more information on AT&T’s Privacy Policy, visit: att.com/privacy.
Samsung Knox

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

Restricting children’s access to your mobile device

⚠️ CAUTION 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.

Use parental control settings to ensure that children do not access services or content not approved by the parent. Routinely check this device works 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.