# SAMSUNG

# USER MANUAL

SM-N960F SM-N960F/DS

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# **Basics**

# Read me first

Please read this manual before using the device to ensure safe and proper use.

- Descriptions are based on the device's default settings.
- Some content may differ from your device depending on the region, service provider, model specifications, or device's software.
- Content (high quality content) that requires high CPU and RAM usage will affect the overall performance of the device. Apps related to the content may not work properly depending on the device's specifications and the environment that it is used in.
- Samsung is not liable for performance issues caused by apps supplied by providers other than Samsung.
- Samsung is not liable for performance issues or incompatibilities caused by edited registry settings or modified operating system software. Attempting to customise the operating system may cause the device or apps to work improperly.
- Software, sound sources, wallpapers, images, and other media provided with this device are licensed for limited use. Extracting and using these materials for commercial or other purposes is an infringement of copyright laws. Users are entirely responsible for illegal use of media.
- You may incur additional charges for data services, such as messaging, uploading and downloading, auto-syncing, or using location services depending on your data plan. For large data transfers, it is recommended to use the Wi-Fi feature.
- Default apps that come with the device are subject to updates and may no longer be supported without prior notice. If you have questions about an app provided with the device, contact a Samsung Service Centre. For user-installed apps, contact service providers.

- Modifying the device's operating system or installing softwares from unofficial sources
  may result in device malfunctions and data corruption or loss. These actions are violations
  of your Samsung licence agreement and will void your warranty.
- Depending on the region or service provider, a screen protector is attached for protection during production and distribution. Damage to the attached screen protector is not covered by the warranty.
- You can see the touchscreen clearly even in strong outdoor sunlight by automatically
  adjusting the contrast range based on the surrounding environment. Due to the nature
  of the product, displaying fixed graphics for extended periods may result in afterimages
  (screen burn-in) or ghosting.
  - It is recommended not to use fixed graphics on part or all of the touchscreen for extended periods and turn off the touchscreen when not using the device.
  - You can set the touchscreen to turn off automatically when you are not using it.
     Launch the Settings app, tap Display → Screen timeout, and then select the length of time you want the device to wait before turning off the touchscreen.
  - To set the touchscreen to automatically adjust its brightness based on the surrounding environment, launch the **Settings** app, tap **Display**, and then tap the **Adaptive brightness** switch to activate it.
- Depending on the region or model, some devices are required to receive approval from the Federal Communications Commission (FCC). If your device is approved by the FCC, you can view the FCC ID of the device. To view the FCC ID, launch the Settings app and tap About phone → Status.
- Depending on the region, you can view the regulatory information on the device. To view the information, launch the Settings app and tap About phone → Regulatory information.

#### Maintaining water and dust resistance

Your device supports water- and dust-resistance. Follow these tips carefully to maintain the water- and dust-resistance of your device. Failure to do so may result in damage to your device.

- Do not immerse the device in fresh water deeper than 1.5 m or keep it submerged for more than 30 minutes. If you immerse the device in any liquid other than fresh water, such as salt water, ionised water, or alcoholic beverage, liquid will enter the device faster.
- Do not expose the device to water moving with force.
- If the device is exposed to fresh water, dry it thoroughly with a clean, soft cloth. If the device is exposed to other liquids, such as salt water, swimming pool water, soapy water, oil, perfume, sunscreen, hand cleaner, or chemical products such as cosmetics, rinse it with fresh water and dry it thoroughly with a clean, soft cloth. If you do not follow these instructions, the device's performance and appearance may be affected.
- If the device has been immersed in water or the microphone or speaker is wet, sound may not be heard clearly during a call. After wiping the device with a dry cloth, dry it thoroughly before using it.
- The touchscreen and other features may not work properly if the device is used in water.
- If the device is dropped or receives an impact, the water- and dust-resistant features of the device may be damaged.
- Your device has been tested in a controlled environment and certified to be waterand dust-resistant in specific situations (meets requirements of classification IP68 as described by the international standard IEC 60529-Degrees of Protection provided by Enclosures [IP Code]; test conditions: 15-35 °C, 86-106 kPa, fresh water, 1.5 metre, 30 minutes). Despite this classification, it is still possible for your device to be damaged in certain situations.

#### Instructional icons



Warning: situations that could cause injury to yourself or others



Caution: situations that could cause damage to your device or other equipment



Notice: notes, usage tips, or additional information

# Device overheating situations and solutions

## When the device heats up while charging the battery

While charging, the device and the charger may become hot. During wireless charging or fast charging, the device may feel hotter to the touch. This does not affect the device's lifespan or performance and is in the device's normal range of operation. If the battery becomes too hot, the charger may stop charging.

#### Do the following when the device heats up:

- Disconnect the charger from the device and close any running apps. Wait for the device to cool down and then begin charging the device again.
- If the lower part of the device overheats, it could be because the connected USB cable is damaged. Replace the damaged USB cable with a new Samsung-approved one.
- When using a wireless charger, do not place foreign materials, such as metal objects, magnets, and magnetic stripe cards, between the device and the wireless charger.



The wireless charging or fast charging feature is only available on supported models.

## When the device heats up during use

When you use features or apps that require more power or use them for extended periods, your device may temporarily heat up due to increased battery consumption. Close any running apps and do not use the device for a while.

The following are examples of situations in which the device may overheat. Depending on the functions and apps you use, these examples may not apply to your model.

- During the initial setup after purchase or when restoring data
- When downloading large files

- When using apps that require more power or using apps for extended periods
  - When playing high-quality games for extended periods
  - When recording videos for extended periods
  - When streaming videos while using the maximum brightness setting
  - When connecting to a TV
- While multitasking (or, when running many apps in the background)
  - When using Multi window
  - When updating or installing apps while recording videos
  - When downloading large files during a video call
  - When recording videos while using a navigation app
- When using large amount of data for syncing with the cloud, email, or other accounts
- · When using a navigation app in a car while the device is placed in direct sunlight
- When using the mobile hotspot and tethering feature
- When using the device in areas with weak signals or no reception
- When charging the battery with a damaged USB cable
- When the device's multipurpose jack is damaged or exposed to foreign materials, such as liquid, dust, metal powder, and pencil lead
- When you are roaming

#### Do the following when the device heats up:

- · Keep the device updated with the latest software.
- Conflicts between running apps may cause the device to heat up. Restart the device.
- Deactivate the Wi-Fi, GPS, and Bluetooth features when not using them.
- Close apps that increase battery consumption or that run in the background when not in use.
- Delete unnecessary files or unused apps.
- Decrease the screen brightness.
- If the device overheats or feels hot for a prolonged period, do not use it for a while. If the device continues to overheat, contact a Samsung Service Centre.

#### Device limitations when the device overheats

When the device heats up, the features and performance may be limited or the device may turn off to cool down. The feature is only available on supported models.

- If the device becomes hotter than usual, a device overheating message will appear. To lower the device's temperature, the screen brightness and the performance speed will be limited and battery charging will stop. Running apps will be closed and you will only be able to make emergency calls until the device cools down.
- If the device overheats or feels hot for a prolonged period, a power off message will appear. Turn off the device, and wait until it cools down.

# Precautions for operating environment

Your device may heat up due to the environment in the following conditions. Use caution to avoid shortening the battery's lifespan, damaging the device, or causing a fire.

- Do not store your device in very cold or very hot temperatures.
- · Do not expose your device to direct sunlight for extended periods.
- Do not use or store your device for extended periods in very hot areas, such as inside a car in the summertime.
- Do not place the device in any areas that may overheat, such as on an electric heating mat.
- Do not store your device near or in heaters, microwaves, hot cooking equipment, or high pressure containers.
- Never use a damaged charger or battery.

# **Device layout and functions**

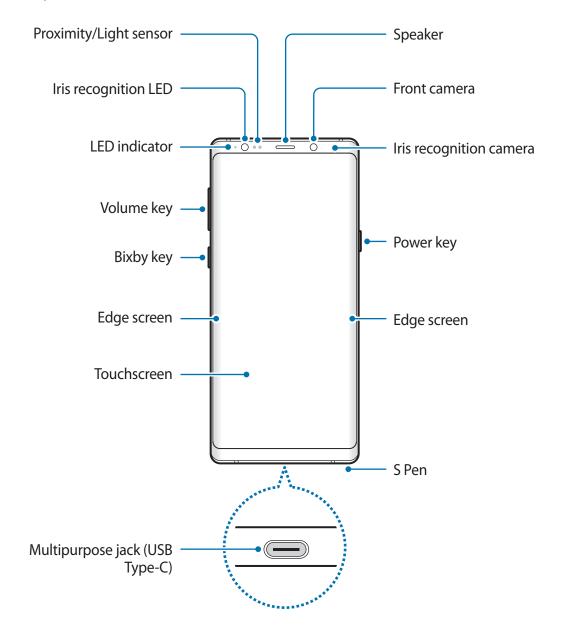
## **Package contents**

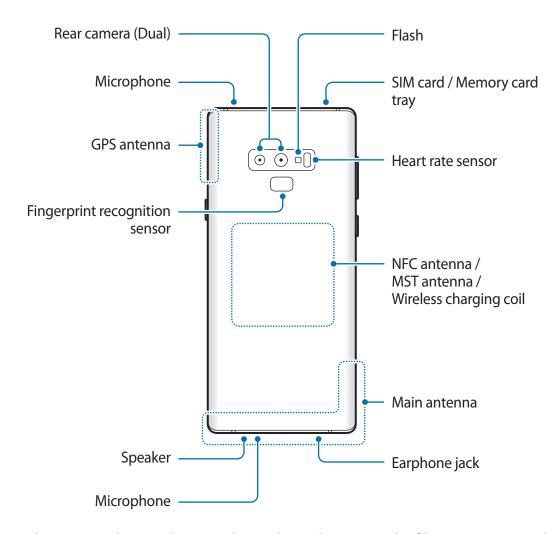
Refer to the quick start quide for package contents.



- The items supplied with the device and any available accessories may vary depending on the region or service provider.
- The supplied items are designed only for this device and may not be compatible with other devices.
- Appearances and specifications are subject to change without prior notice.
- You can purchase additional accessories from your local Samsung retailer. Make sure they are compatible with the device before purchase.
- Use only Samsung-approved accessories. Using unapproved accessories may cause the performance problems and malfunctions that are not covered by the warranty.
- Availability of all accessories is subject to change depending entirely on manufacturing companies. For more information about available accessories, refer to the Samsung website.

# **Device layout**





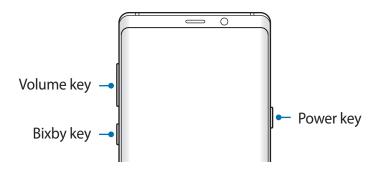


- When using the speakers, such as when playing media files or using speakerphone, do not place the device close to your ears.
- Be careful not to expose the camera lens to a strong light source, such as direct sunlight. If the camera lens is exposed to a strong light source, such as direct sunlight, the camera image sensor may be damaged. A damaged image sensor is irreparable and will cause dots or spots in pictures.



- Connectivity problems and battery drain may occur in the following situations:
  - If you attach metallic stickers on the antenna area of the device
  - If you attach a device cover made with metallic material to the device
  - If you cover the device's antenna area with your hands or other objects while using certain features, such as calls or the mobile data connection
- Using a Samsung-approved screen protector is recommended. Unapproved screen protectors may cause the sensors to malfunction.
- Do not cover the proximity/light sensor area with screen accessories, such as a screen protector or stickers. Doing so may cause the sensor to malfunction.
- The colours on the Edge screen may look different depending on your viewing position.

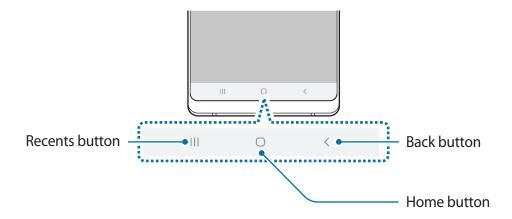
## **Hard keys**



Key	Function			
Power	<ul> <li>Press and hold to turn the device on or off.</li> </ul>			
	<ul> <li>Press to turn on or lock the screen.</li> </ul>			
Bixby	<ul> <li>Press to launch Bixby. Refer to Bixby for more information.</li> </ul>			
	<ul> <li>Press and hold to start a conversation with Bixby. Refer to Using Bixby for more information.</li> </ul>			
Volume	Press to adjust the device volume.			

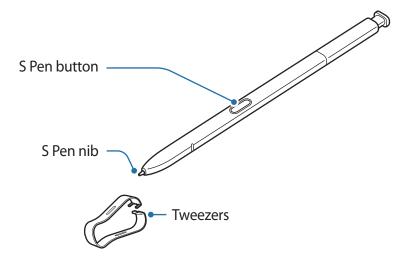
**Basics** 

#### **Soft buttons**



When you turn on the screen, the soft buttons will appear at the bottom of the screen. The soft buttons are set to the Recents button, Home button, and Back button by default. Refer to Navigation bar (soft buttons) for more information.

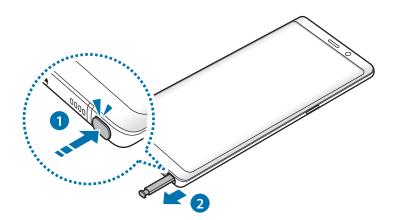
## S Pen



Name	Functions	
S Pen nib	<ul> <li>Use the S Pen to write, draw, or perform touch actions on the screen.</li> </ul>	
	<ul> <li>Hover the S Pen over items on the screen to access additional S Pen features, such as the Air view feature.</li> </ul>	
S Pen button	<ul> <li>Press and hold the S Pen button to launch the preset app. If you press the button once or twice while using apps, the device will perform certain features. Refer to Air actions for more information.</li> </ul>	
	<ul> <li>Hover the S Pen over the screen and press the S Pen button to display the Air command features.</li> </ul>	
	<ul> <li>While pressing and holding the S Pen button, drag the S Pen over items to select them.</li> </ul>	
Tweezers	• Remove the S Pen nib with the tweezers when replacing the nib.	

# **Detaching the S Pen**

Press the end of the S Pen to disengage it. Then, pull the S Pen from the slot. To store the S Pen, reinsert it into the slot and push it until it clicks into place.



#### Charging the S Pen

The S Pen must be charged before you can control apps remotely by using the S Pen button. When you insert the S Pen into the slot, charging will start.

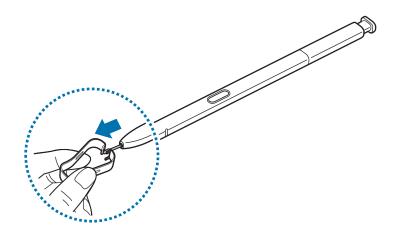


- If the back of your device comes into contact with a magnet, the device may not recognise the S Pen and it will fail to charge the S Pen.
- Even if the S Pen has been fully discharged, you can use other S Pen features, such as tapping the touchscreen or the Air command features.

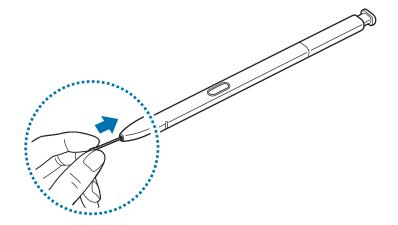
## Replacing the S Pen nib

If the nib is dull, replace it with a new one.

1 Firmly hold the nib with the tweezers and remove it.



#### 2 Insert a new nib into the S Pen.





Be careful not to pinch your fingers with the tweezers.



- Do not reuse old nibs. Doing so may cause the S Pen to malfunction.
- Do not press the nib excessively when inserting the nib into the S Pen.
- Do not insert the round end of the nib into the S Pen. Doing so may cause damage to the S Pen or your device.
- Do not bend or apply excessive pressure with the S Pen while using it. The S Pen may be damaged or the nib may be deformed.
- Do not hard press on the screen with the S Pen. The pen nib may be deformed.



- If you use the S Pen at sharp angles on the screen, the device may not recognise the S Pen actions.
- If water enters the S Pen slot, gently shake the device to remove the water from the slot before using it.
- For more information about the S Pen, visit the Samsung website.
- If the S Pen is not working properly, take it to a Samsung Service Centre.

# **Battery**

## Charging the battery

Charge the battery before using it for the first time or when it has been unused for extended periods.



Use only Samsung-approved chargers, batteries, and cables. Unapproved chargers or cables can cause the battery to explode or damage the device.

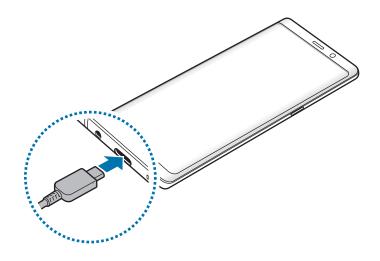


- Connecting the charger improperly may cause serious damage to the device. Any damage caused by misuse is not covered by the warranty.
- Use only USB Type-C cable supplied with the device. The device may be damaged if you use Micro USB cable.



To save energy, unplug the charger when not in use. The charger does not have a power switch, so you must unplug the charger from the electric socket when not in use to avoid wasting power. The charger should remain close to the electric socket and easily accessible while charging.

- 1 Connect the USB cable to the USB power adaptor.
- 2 Plug the USB cable into the device's multipurpose jack.



**Basics** 

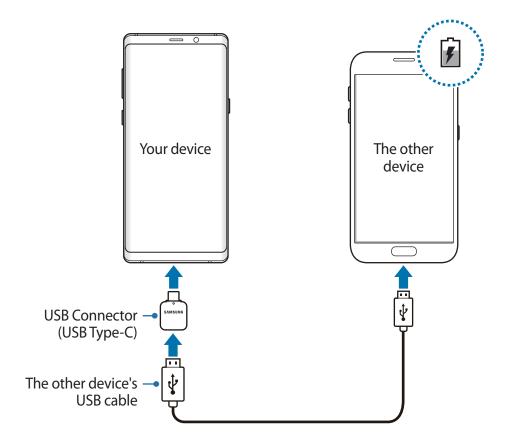
- 3 Plug the USB power adaptor into an electric socket.
- 4 After fully charging, disconnect the charger from the device. Then, unplug the charger from the electric socket.

#### **Charging other devices**

Use the USB connector (USB Type-C) to charge another mobile device with your device's battery.

Plug the USB connector (USB Type-C) into your device's multipurpose jack, and connect your device and the other device via the other device's USB cable.

When charging starts, the battery charging icon will appear on the other device's screen.





The app selection pop-up window that appears on your device is for data transfer. Do not select an app from the pop-up window.

#### Reducing the battery consumption

Your device provides various options that help you conserve battery power.

- Optimise the device using the device care feature.
- When you are not using the device, turn off the screen by pressing the Power key.
- Activate power saving mode.
- Close unnecessary apps.
- Deactivate the Bluetooth feature when not in use.
- · Deactivate the Wi-Fi feature when not in use.
- Deactivate auto-syncing of apps that need to be synced.
- Decrease the backlight time.
- Decrease the screen brightness.

# **Battery charging tips and precautions**

- When the battery power is low, the battery icon appears empty.
- If the battery is completely discharged, the device cannot be turned on immediately when the charger is connected. Allow a depleted battery to charge for a few minutes before turning on the device.
- If you use multiple apps at once, network apps, or apps that need a connection to another device, the battery will drain quickly. To avoid losing power during a data transfer, always use these apps after fully charging the battery.
- Using a power source other than the charger, such as a computer, may result in a slower charging speed due to a lower electric current.
- The device can be used while it is charging, but it may take longer to fully charge the battery.
- If the device receives an unstable power supply while charging, the touchscreen may not function. If this happens, unplug the charger from the device.

**Basics** 

- While charging, the device and the charger may heat up. This is normal and should not affect the device's lifespan or performance. If the battery gets hotter than usual, the charger may stop charging.
- If you charge the device while the multipurpose jack is wet, the device may be damaged. Thoroughly dry the multipurpose jack before charging the device.
- If the device is not charging properly, take the device and the charger to a Samsung Service Centre.

## **Fast charging**

The device has a built-in fast charging feature. You can charge the battery more quickly while the device or its screen is turned off.

#### Increasing the charging speed

To increase the charging speed, turn the device or its screen off when you charge the battery. If the fast charging feature is not activated, launch the **Settings** app, tap **Device care** → **Battery**, and then tap the **Fast cable charging** switch to activate it.



- You cannot use the built-in fast charging feature when you charge the battery using a standard battery charger.
- If the device heats up or the ambient air temperature rises, the charging speed may decrease automatically. This is a normal operating condition to prevent damage to the device.

## Wireless charging

The device has a built-in wireless charging coil. You can charge the battery using a wireless charger (sold separately).

#### Fast wireless charging

You can charge your device faster using the fast wireless charging feature. To use this feature, you must use a charger and components that support the fast wireless charging feature.

If the fast wireless charging feature is not activated, launch the **Settings** app, tap **Device care** → **Battery**, and then tap the **Fast wireless charging** switch to activate it.

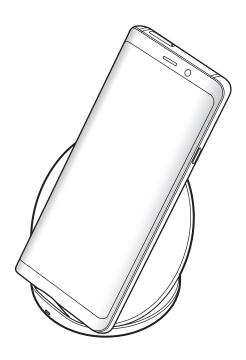


A fan inside the charger may produce noise during fast wireless charging.

## **Charging the battery**

1 Place the centre of the device's back on the centre of the wireless charger.

The estimated charging time will appear on the screen. The actual charging time may vary depending on the charging conditions.



2 After fully charging, disconnect the device from the wireless charger.



#### **Precautions for wireless charging**

- Do not place the device on the wireless charger with a credit card or radiofrequency identification (RFID) card (such as a transportation card or a key card) placed between the back of the device and the device cover.
- Do not place the device on the wireless charger when conductive materials, such as metal objects and magnets, are placed between the device and the wireless charger.

The device may not charge properly or may overheat, or the device and the cards may be damaged.



- If you use the wireless charger in areas with weak network signals, you may lose network reception.
- Use Samsung-approved wireless chargers. If you use other wireless chargers, the battery may not charge properly.

# SIM or USIM card (nano-SIM card)

## Installing the SIM or USIM card

Insert the SIM or USIM card provided by the mobile telephone service provider.

For dual SIM models, you can insert two SIM or USIM cards so you can have two phone numbers or service providers for a single device. In some areas, data transfer speeds may be slower if two SIM cards are inserted in the device than when one SIM card is inserted.

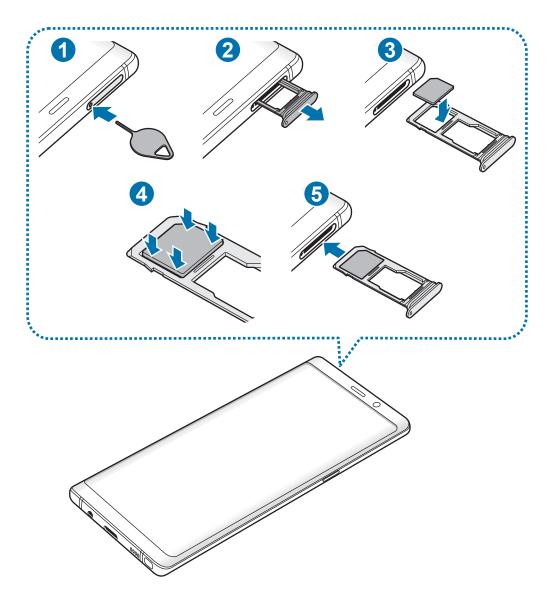


Use caution not to lose or let others use the SIM or USIM card. Samsung is not responsible for any damages or inconveniences caused by lost or stolen cards.

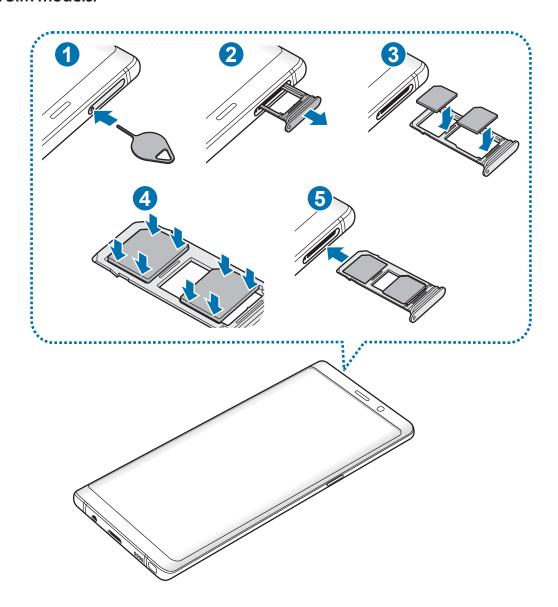


Some LTE services may not be available depending on the service provider. For more information about service availability, contact your service provider.

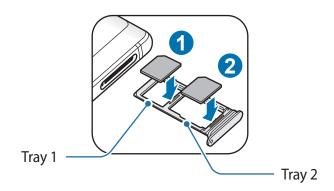
# ► Single SIM models:



# ► Dual SIM models:



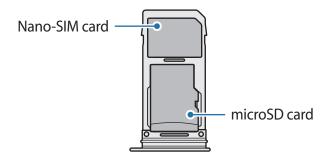
- 1 Insert the ejection pin into the hole on the tray to loosen the tray.
- Ensure that the ejection pin is perpendicular to the hole. Otherwise, the device may be damaged.
- 2 Pull out the tray gently from the tray slot.
- 3 ► Single SIM models: Place the SIM or USIM card on the tray 1 with the gold-coloured contacts facing downwards.
  - ▶ Dual SIM models: Place the SIM or USIM card on the tray with the gold-coloured contacts facing downwards. Place the primary SIM or USIM card on the tray 1 (1) and the secondary SIM or USIM card on the tray 2 (2).



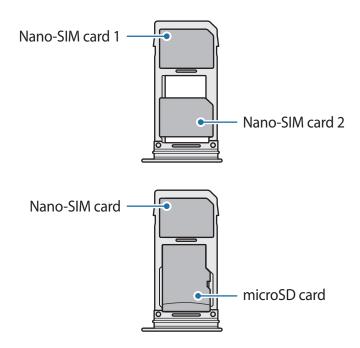
- 4 Gently press the SIM or USIM card into the tray to secure it.
- If the card is not fixed firmly into the tray, the SIM card may leave or fall out of the tray.
- 5 Insert the tray back into the tray slot.
- If you insert the tray into your device while the tray is wet, your device may be damaged. Always make sure the tray is dry.
- Fully insert the tray into the tray slot to prevent liquid from entering your device.

#### **Correct card installation**

#### ► Single SIM models:



#### ► Dual SIM models:





- Use only a nano-SIM card.
- You cannot insert a nano-SIM card and a microSD card in tray 2 at the same time.

## Removing the SIM or USIM card

- 1 Insert the ejection pin into the hole on the tray to loosen the tray.
- 2 Pull out the tray gently from the tray slot.
- 3 Remove the SIM or USIM card.
- 4 Insert the tray back into the tray slot.

# Using dual SIM or USIM cards (dual SIM models)

If you insert two SIM or USIM cards, you can have two phone numbers or service providers for a single device.

#### **Activating SIM or USIM cards**

Launch the **Settings** app and tap **Connections**  $\rightarrow$  **SIM card manager**. Select a SIM or USIM card and tap the switch to activate it.

#### **Customising SIM or USIM cards**

Launch the **Settings** app, tap **Connections**  $\rightarrow$  **SIM card manager**, and then select a SIM or USIM card to access the following options:

- Icon: Change the icon of the SIM or USIM card.
- Name: Change the display name of the SIM or USIM card.
- Network mode: Select a network type to use with the SIM or USIM card.

#### **Setting preferred SIM or USIM cards**

When two cards are activated, you can assign voice calls, messaging, and data services to specific cards.

Launch the **Settings** app, tap **Connections** → **SIM card manager**, and then set the feature preferences for your cards in **Preferred SIM card**.

# Memory card (microSD card)

## Installing a memory card

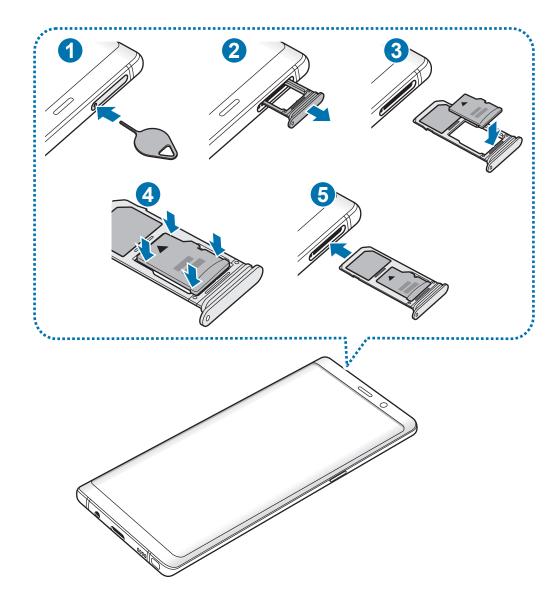
Your device's memory card capacity may vary from other models and some memory cards may not be compatible with your device depending on the memory card manufacturer and type. To view your device's maximum memory card capacity, refer to the Samsung website.



- Some memory cards may not be fully compatible with the device. Using an incompatible card may damage the device or the memory card, or corrupt the data stored in it.
- Use caution to insert the memory card right-side up.

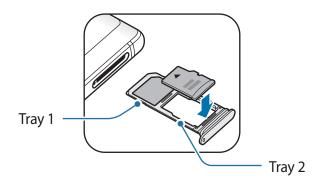


- The device supports the FAT and the exFAT file systems for memory cards. When
  inserting a card formatted in a different file system, the device will ask to reformat
  the card or will not recognise the card. To use the memory card, you must format it.
  If your device cannot format or recognise the memory card, contact the memory
  card manufacturer or a Samsung Service Centre.
- Frequent writing and erasing of data shortens the lifespan of memory cards.
- When inserting a memory card into the device, the memory card's file directory appears in the My Files → SD card folder.



- 1 Insert the ejection pin into the hole on the tray to loosen the tray.
- Ensure that the ejection pin is perpendicular to the hole. Otherwise, the device may be damaged.
- 2 Pull out the tray gently from the tray slot.
- When you remove the tray from the device, the mobile data connection will be disabled.

3 Place a memory card on the tray 2 with the gold-coloured contacts facing downwards.



- 4 Gently press the memory card into the tray to secure it.
- If the card is not fixed firmly into the tray, the memory card may leave or fall out of the tray.
- 5 Insert the tray back into the tray slot.



- If you insert the tray into your device while the tray is wet, your device may be damaged. Always make sure the tray is dry.
- Fully insert the tray into the tray slot to prevent liquid from entering your device.

## Removing the memory card

Before removing the memory card, first unmount it for safe removal.

Launch the **Settings** app and tap **Device care**  $\rightarrow$  **Storage**  $\rightarrow$  **Advanced**  $\rightarrow$  **SD card**  $\rightarrow$  **Unmount**.

- 1 Insert the ejection pin into the hole on the tray to loosen the tray.
- 2 Pull out the tray gently from the tray slot.
- 3 Remove the memory card.
- 4 Insert the tray back into the tray slot.
- Do not remove external storage, such as a memory card or USB storage, while the device is transferring or accessing information, or right after transferring data. Doing so can cause data to be corrupted or lost or cause damage to the external storage or device. Samsung is not responsible for losses, including loss of data, resulting from the misuse of external storage devices.

## Formatting the memory card

A memory card formatted on a computer may not be compatible with the device. Format the memory card on the device.

Launch the **Settings** app and tap **Device care**  $\rightarrow$  **Storage**  $\rightarrow$  **Advanced**  $\rightarrow$  **SD card**  $\rightarrow$  **Format**.



Before formatting the memory card, remember to make backup copies of all important data stored in the memory card. The manufacturer's warranty does not cover loss of data resulting from user actions.

# Turning the device on and off

Press and hold the Power key for a few seconds to turn on the device.

When you turn on your device for the first time or after performing a data reset, follow the on-screen instructions to set up your device.

To turn off the device, press and hold the Power key, and then tap **Power off**.

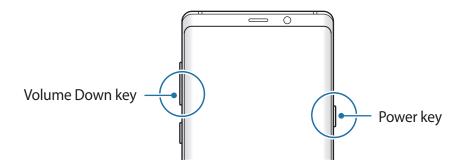


Follow all posted warnings and directions from authorised personnel in areas where the use of wireless devices is restricted, such as aeroplanes and hospitals.

#### Restarting the device

To restart the device, press and hold the Power key, and then tap **Restart**.

If your device is frozen and unresponsive, press and hold the Power key and the Volume Down key simultaneously for more than 7 seconds to restart it.



**Basics** 

#### **Emergency mode**

You can switch the device to emergency mode to reduce battery consumption. Some apps and functions will be restricted. In emergency mode, you can make an emergency call, send your current location information to others, sound an emergency alarm, and more.

#### **Activating emergency mode**

To activate emergency mode, press and hold the Power key, and then tap **Emergency mode**.



The usage time left shows the time remaining before the battery power runs out. Usage time left may vary depending on your device settings and operating conditions.

#### Deactivating emergency mode

To deactivate emergency mode, tap  $\stackrel{\bullet}{\bullet} \rightarrow$  Turn off Emergency mode. Alternatively, press and hold the Power key, and then tap Emergency mode.

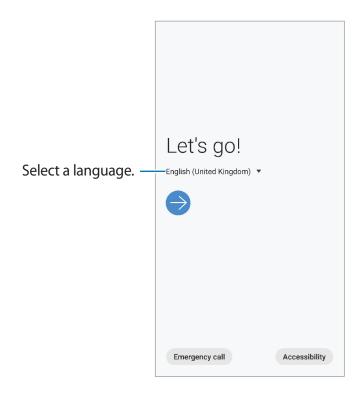
# **Initial setup**

When you turn on your device for the first time or after performing a data reset, follow the on-screen instructions to set up your device.



- The initial setup procedures may vary depending on the device's software and your region.
- You can set up your device with Bixby depending on the selected device language.
- 1 Turn on the device.

2 Select your preferred device language and select  $\bigcirc$ .



3 Follow the on-screen instructions to complete the setup. The Home screen will appear.



If you do not connect to a Wi-Fi network, you may not be able to set up some device features during the initial setup.

# Samsung account

#### Introduction

Your Samsung account is an integrated account service that allows you to use a variety of Samsung services provided by mobile devices, TVs, and the Samsung website. Once your Samsung account has been registered, you can keep your data up to date and secure across your Samsung devices with Samsung Cloud, track and control your lost or stolen device, see tips and tricks from Samsung Members, and more.

Create your Samsung account with your email address.

To check the list of services that can be used with your Samsung account, visit account.samsung.com. For more information on Samsung accounts, launch the **Settings** app and tap **Accounts and backup**  $\rightarrow$  **Accounts**  $\rightarrow$  **Samsung account**  $\rightarrow$   $\stackrel{\bullet}{\cdot}$   $\rightarrow$  **Help**.

# Registering your Samsung account

#### Registering a new Samsung account

If you do not have a Samsung account, you should create one.

- 1 Launch the Settings app and tap Accounts and backup → Accounts → Add account → Samsung account.
  - Alternatively, launch the **Settings** app and tap **3**.
- 2 Tap Create account.
- 3 Follow the on-screen instructions to complete creating your account.

**Basics** 

#### Registering an existing Samsung account

If you already have a Samsung account, register it to the device.

- 1 Launch the Settings app and tap Accounts and backup → Accounts → Add account → Samsung account.
  - Alternatively, launch the **Settings** app and tap **3**.
- 2 Enter your Samsung account ID and password and tap Sign in.
- 3 Follow the on-screen instructions to complete signing in to your Samsung account.

## Removing your Samsung account

When you remove your registered Samsung account from the device, your data, such as contacts or events, will also be removed.

- 1 Launch the **Settings** app and tap **Accounts and backup**  $\rightarrow$  **Accounts**.
- **2** Tap Samsung account  $\rightarrow$  Personal info  $\rightarrow$   $\stackrel{\bullet}{\bullet}$   $\rightarrow$  Remove account.
- 3 Tap **Remove**, enter your Samsung account password, and then tap **OK**.

# Transferring data from your previous device (Smart Switch)

Connect with your previous device via Smart Switch to transfer data.

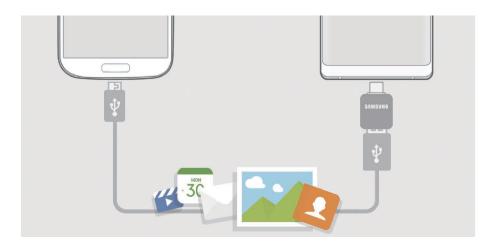
Launch the **Settings** app and tap **Accounts and backup** → **Smart Switch**.



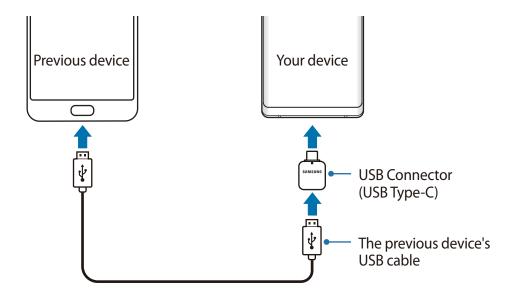
- This feature may not be supported on some devices or computers.
- Limitations apply. Visit www.samsung.com/smartswitch for details. Samsung takes copyright seriously. Only transfer content that you own or have the right to transfer.

#### Transferring data using a USB connector (USB Type-C)

You can connect your previous device to your device with the USB connector (USB Type-C) and a USB cable to easily and quickly transfer data.



- 1 Plug the USB connector (USB Type-C) into the multipurpose jack of your device.
- 2 Connect your device and the previous device using the previous device's USB cable.



- 3 When the app selection pop-up window appears, tap Smart Switch  $\rightarrow$  Receive data.
- In the previous device, tap Allow.
  If you do not have the app, download it from Galaxy Store or Play Store.
  Your device will recognise the previous device and a list of data you can transfer will appear.
- 5 Select an item to bring and tap **Transfer**.
- 6 Follow the on-screen instructions to transfer data from the previous device.
- Do not disconnect the USB cable or USB connector (USB Type-C) from the device when you are transferring files. Doing so may cause data loss or device damage.
- Transferring data increases the battery power consumption of your device. Ensure that your device is sufficiently charged before transferring data. If the battery power is low, data transfer may be interrupted.

#### Transferring data wirelessly via Wi-Fi Direct

Transfer data from your previous device to your device wirelessly via Wi-Fi Direct.

- 1 On the previous device, launch **Smart Switch**.

  If you do not have the app, download it from **Galaxy Store** or **Play Store**.
- 2 On your device, launch the **Settings** app and tap **Accounts and backup** → **Smart Switch**.
- 3 Place the devices near each other.
- 4 On the previous device, tap Send data  $\rightarrow$  Wireless.
- 5 On your device, select an item to bring and tap **Transfer**.
- 6 Follow the on-screen instructions to transfer data from your previous device.

#### Transferring data using external storage

Transfer data using external storage, such as a microSD card.

- 1 Transfer data from your previous device to external storage.
- 2 Insert or connect the external storage device to your device.
- 3 On your device, launch the **Settings** app and tap **Accounts and backup**  $\rightarrow$  **Smart Switch**  $\rightarrow$  **Pestore**.
- 4 Follow the on-screen instructions to transfer data from external storage.

#### Transferring backup data from a computer

Transfer data between your device and a computer. You must download the Smart Switch computer version app from www.samsung.com/smartswitch. Back up data from your previous device to a computer and import the data to your device.

- 1 On the computer, visit www.samsung.com/smartswitch to download Smart Switch.
- 2 On the computer, launch Smart Switch.



If your previous device is not a Samsung device, back up data to a computer using a program provided by the device's manufacturer. Then, skip to the fifth step.

- 3 Connect your previous device to the computer using the device's USB cable.
- 4 On the computer, follow the on-screen instructions to back up data from the device. Then, disconnect your previous device from the computer.
- 5 Connect your device to the computer using the USB cable.
- 6 On the computer, follow the on-screen instructions to transfer data to your device.

#### Viewing imported data

You can view the imported data on the same app from your previous device.

If your new device does not have the same apps to view or play the imported data, the data will be saved to a similar app.

## **Understanding the screen**

## Controlling the touchscreen



- Do not allow the touchscreen to come into contact with other electrical devices. Electrostatic discharges can cause the touchscreen to malfunction.
- To avoid damaging the touchscreen, do not tap it with anything sharp or apply excessive pressure to it with your fingertips.
- It is recommended not to use fixed graphics on part or all of the touchscreen for extended periods. Doing so may result in afterimages (screen burn-in) or ghosting.



- The device may not recognise touch inputs close to the edges of the screen, which are outside of the touch input area.
- It is recommended to use fingers or the S Pen when you use the touchscreen.

#### **Tapping**

Tap the screen.





## **Tapping and holding**

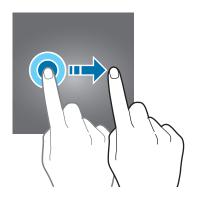
Tap and hold the screen for approximately 2 seconds.





## Dragging

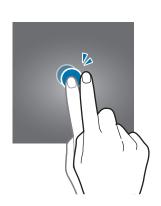
Tap and hold an item and drag it to the target position.





## **Double-tapping**

Double-tap the screen.

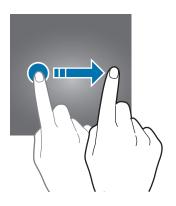


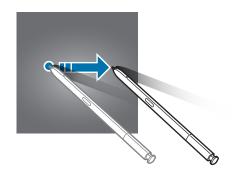


Basics

## **Swiping**

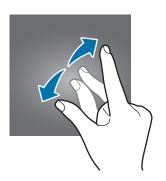
Swipe upwards, downwards, to the left, or to the right.





## Spreading and pinching

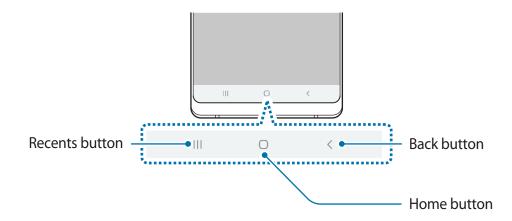
Spread two fingers apart or pinch on the screen.





## **Navigation bar (soft buttons)**

When you turn on the screen, the soft buttons will appear on the navigation bar at the bottom of the screen. The soft buttons are set to the Recents button, Home button, and Back button by default. The functions of the buttons can change according to the app currently being used or usage environment.



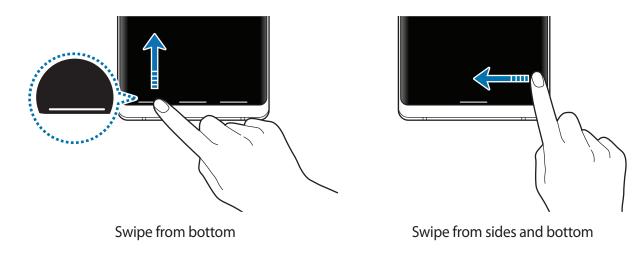
Button		Function
Ш	Recents	<ul> <li>Tap to open the list of recent apps.</li> </ul>
0	Home	Tap to return to the Home screen.
		<ul> <li>Tap and hold to launch the Google Assistant app.</li> </ul>
<	Back	<ul> <li>Tap to return to the previous screen.</li> </ul>

**Basics** 

#### Hiding the navigation bar

View files or use apps on a wider screen by hiding the navigation bar.

Launch the **Settings** app, tap **Display** → **Navigation bar**, and then tap **Full screen gestures** under **Navigation type**. The navigation bar will be hidden and the gesture hints will appear. Tap **More options** and select an option you want.

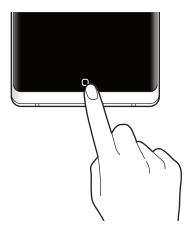


If you want to hide the gesture hints at the bottom of the screen, tap the **Gesture hints** switch to deactivate it.

#### Turning on the screen using the Home button

Hard press the Home button or the Home button area to turn on the screen.

On the Always On Display, you can also turn on the screen by double-tapping the Home button.





Do not hard press the Home button or the Home button area with the S Pen. The pen nib may be deformed.

## Home screen and Apps screen

The Home screen is the starting point for accessing all of the device's features. It displays widgets, shortcuts to apps, and more.

The Apps screen displays icons for all apps, including newly installed apps.



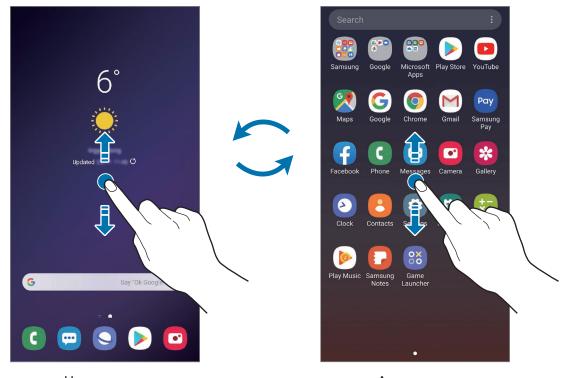
The screen may appear differently depending on the region or service provider.



#### **Switching between Home and Apps screens**

On the Home screen, swipe upwards or downwards to open the Apps screen.

To return to the Home screen, swipe upwards or downwards on the Apps screen. Alternatively, tap the Home button or the Back button.



Home screen Apps screen

If you add the Apps button on the Home screen, you can open the Apps screen by tapping the button. On the Home screen, tap and hold an empty area, tap **Home screen settings**, and then tap the **Apps button** switch to activate it. The Apps button will be added at the bottom of the Home screen.



#### Display the screen in landscape mode

On the Home screen, tap and hold an empty area, tap **Home screen settings**, and then tap the **Rotate to landscape mode** switch to activate it.

Rotate the device until it is horizontal to view the screen in landscape mode.



#### **Moving items**

Tap and hold an item, and then drag it to a new location. To move the item to another panel, drag it to the side of the screen.

To add a shortcut to an app on the Home screen, tap and hold an item on the Apps screen, and then drag it to the top of the screen. A shortcut to the app will be added on the Home screen.

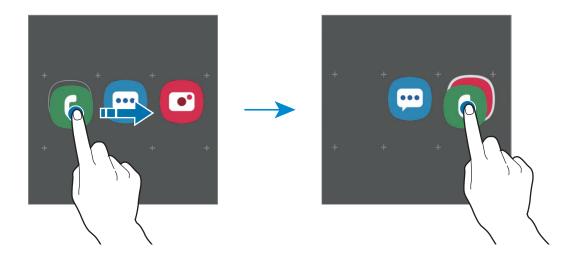
You can also move frequently used apps to the shortcuts area at the bottom of the Home screen.

#### **Creating folders**

Create folders and gather similar apps to quickly access and launch apps.

On the Home screen or the Apps screen, tap and hold an app, and then drag it over another app.

A new folder containing the selected apps will be created. Tap **Folder name** and enter a folder name.



#### Adding more apps

Tap + on the folder. Tick the apps to add and tap **Done**. You can also add an app by dragging it to the folder.

#### Moving apps from a folder

Tap and hold an app to drag it to a new location.

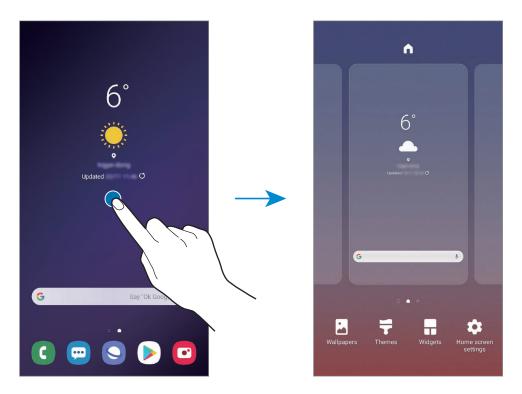
#### · Deleting a folder

Tap and hold a folder, and then tap **Delete folder**. Only the folder will be deleted. The folder's apps will be relocated to the Apps screen.

#### **Editing the Home screen**

On the Home screen, tap and hold an empty area, or pinch your fingers together to access the editing options. You can set the wallpaper, add widgets, and more. You can also add, delete, or rearrange Home screen panels.

- Adding panels: Swipe to the left, and then tap +.
- Moving panels: Tap and hold a panel preview, and then drag it to a new location.
- Deleting panels: Tap **t** on the panel.



- Wallpapers: Change the wallpaper settings for the Home screen and the locked screen.
- Themes: Change the device's theme. Visual elements of interface, such as colours, icons, and wallpapers, will change depending on the selected theme.
- Widgets: Widgets are small apps that launch specific app functions to provide information and convenient access on your Home screen. Tap and hold a widget, and then drag it to the Home screen. The widget will be added on the Home screen.
- **Home screen settings**: Change the size of the grid to display more or fewer items on the Home screen and more.

#### Displaying all apps on the Home screen

Without using a separate Apps screen, you can set the device to display all apps on the Home screen. On the Home screen, tap and hold an empty area, and then tap **Home screen settings**  $\rightarrow$  **Home screen layout**  $\rightarrow$  **Home screen only**  $\rightarrow$  **Apply**.

You can now access all your apps by swiping to the left on the Home screen.

#### Indicator icons

Indicator icons appear on the status bar at the top of the screen. The icons listed in the table below are most common.



- The status bar may not appear at the top of the screen in some apps. To display the status bar, drag down from the top of the screen.
- Some indicator icons appear only when you open the notification panel.

lcon	Meaning
0	No signal
.ill	Signal strength
R	Roaming (outside of normal service area)
t↓ G	GPRS network connected
E #1	EDGE network connected
3G +†	UMTS network connected
H +†	HSDPA network connected
H+ +†	HSPA+ network connected
4G / LTE	LTE network connected (LTE-enabled models)
<del>,</del>	Wi-Fi connected
*	Bluetooth feature activated
Ÿ	S Pen connected
	S Pen disconnected
The second secon	S Pen battery power level

## Basics

lcon	Meaning
Q	Location services being used
C.	Call in progress
č	Missed call
-	New text or multimedia message
Ø	Alarm activated
*	Mute mode activated
*{	Vibration mode activated
<b>†</b>	Flight mode activated
A	Error occurred or caution required
Ż	Battery charging
•	Battery power level

**Basics** 

#### Lock screen

Pressing the Power key turns off the screen and locks it. Also, the screen turns off and automatically locks if the device is not used for a specified period.

To unlock the screen, swipe in any direction when the screen turns on.

If the screen is off, press the Power key or hard press the Home button or the Home button area to turn on the screen.



Locked screen

#### Changing the screen lock method

To change the screen lock method, launch the **Settings** app, tap **Lock screen**  $\rightarrow$  **Screen lock type**, and then select a method.

When you set a pattern, PIN, password, face, iris, or fingerprint for the screen lock method, you can protect your personal information by preventing others from accessing your device. After setting the screen lock method, the device will require an unlock code whenever unlocking it.

- **Swipe**: Swipe in any direction on the screen to unlock it.
- Pattern: Draw a pattern with four or more dots to unlock the screen.
- **PIN**: Enter a PIN with at least four numbers to unlock the screen.
- Password: Enter a password with at least four characters, numbers, or symbols to unlock the screen.
- None: Do not set a screen lock method.
- Intelligent Scan: Register both your face and irises to the device to unlock the screen more conveniently. Refer to Intelligent Scan for more information.
- Face: Register your face to unlock the screen. Refer to Face recognition for more information.
- **Iris**: Register your irises to unlock the screen. Refer to Iris recognition for more information.
- **Fingerprints**: Register your fingerprints to unlock the screen. Refer to Fingerprint recognition for more information.



You can set your device to perform a factory data reset if you enter the unlock code incorrectly several times in a row and reach the attempt limit. Launch the **Settings** app, tap **Lock screen** → **Secure lock settings**, unlock the screen using the preset screen lock method, and then tap the **Auto factory reset** switch to activate it.

#### Screen capture

Capture a screenshot while using the device and write on, draw on, crop, or share the captured screen. You can capture the current screen and scrollable area.

Use the following methods to capture a screenshot. Captured screenshots will be saved in **Gallery**.

- Key capture: Press and hold the Volume Down key and the Power key simultaneously.
- Swipe capture: Swipe your hand to the left or right across the screen.
- Air command capture: Detach the S Pen from the slot to open the Air command panel, and then tap **Screen write**. Refer to Screen write for more information.



- It is not possible to capture a screenshot while using some apps and features.
- If capturing a screenshot by swiping is not activated, launch the Settings app, tap
   Advanced features 
   Motions and gestures, and then tap the Palm swipe to
   capture switch to activate it.

After capturing a screenshot, use the following options on the toolbar at the bottom of the screen:



- [\*]: Capture the current content and the hidden content on an elongated page, such as a webpage. When you tap [\*], the screen will automatically scroll down and more content will be captured.
- $\Box$ : Crop a portion from the screenshot. The cropped area will be saved in **Gallery**.
- <: Share the screenshot with others.

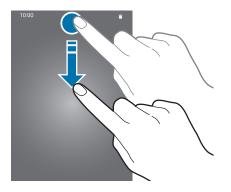


If the options are not visible on the captured screen, launch the **Settings** app, tap **Advanced features**  $\rightarrow$  **Screenshots and screen recorder**, and then tap the **Screenshot toolbar** switch to activate it.

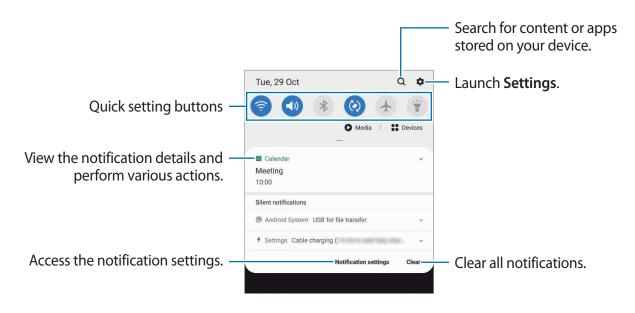
## **Notification panel**

When you receive new notifications, such as messages or missed calls, indicator icons appear on the status bar. To see more information about the icons, open the notification panel and view the details.

To open the notification panel, drag the status bar downwards. To close the notification panel, swipe upwards on the screen.



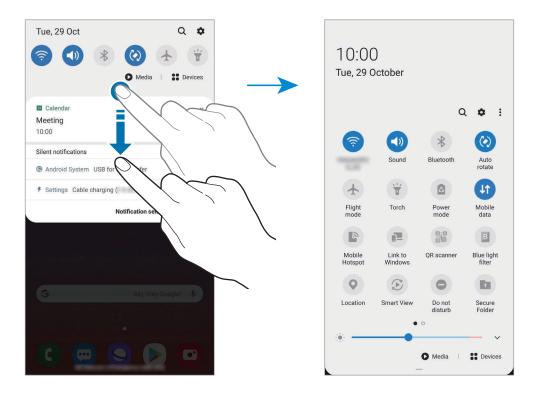
You can use the following functions on the notification panel.



**Basics** 

#### Using quick setting buttons

Tap quick setting buttons to activate certain features. Swipe downwards on the notification panel to view more buttons.



To change feature settings, tap the text under each button. To view more detailed settings, tap and hold a button.

To rearrange buttons, tap  $\stackrel{\bullet}{\bullet}$   $\rightarrow$  **Button order**, tap and hold a button, and then drag it to another location.

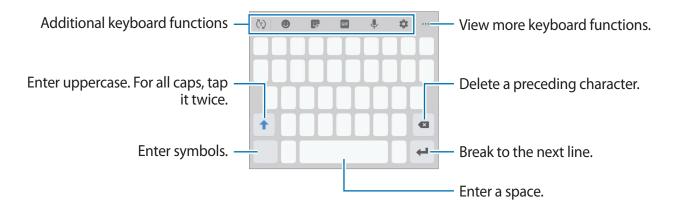
## **Entering text**

## **Keyboard layout**

A keyboard appears automatically when you enter text to send messages, create notes, and more.



Text entry is not supported in some languages. To enter text, you must change the input language to one of the supported languages.



#### Changing the input language

Tap  $\Rightarrow$  Languages and types  $\rightarrow$  Manage input languages, and then select the languages to use. When you select two or more languages, you can switch between the input languages by swiping to the left or right on the space key.

#### Changing the keyboard

To change the keyboard type, tap  $\Rightarrow$  Languages and types, select a language, and then select the keyboard type you want.



On a **3x4 keyboard**, a key has three or four characters. To enter a character, tap the corresponding key repeatedly until the desired character appears.

#### Additional keyboard functions

- (1): Predict words based on your input and show word suggestions. To return to the keyboard functions list, tap (2).
- 👽 : Enter stickers. You can also enter My Emoji stickers that look like you.
- GIF: Attach animated GIFs.



This feature may not be available depending on the region or service provider.

- **J**: Enter text by voice.
- **a**: Change the keyboard settings.
- Switch to handwriting mode.
- •••  $\rightarrow$   $\boxminus$ : Add an item from the clipboard.
- •••  $\rightarrow$   $\Longrightarrow$ : Change the keyboard mode or size.

## **Copying and pasting**

- 1 Tap and hold over text.
- 2 Drag or to select the desired text, or tap **Select all** to select all text.
- 3 Tap Copy or Cut.

The selected text is copied to the clipboard.

4 Tap and hold where the text is to be inserted and tap Paste.

To paste text that you have previously copied, tap **Clipboard** and select the text.

#### **Dictionary**

Look up definitions for words while using certain features, such as when browsing webpages.

- 1 Tap and hold over a word that you want to look up.

  If the word you want to look up is not selected, drag or to select the desired text.
- 2 Tap ♣ → Dictionary on the options list.
  If a dictionary is not preinstalled on the device, tap Move to Manage dictionaries, tap ♀ next to a dictionary, and then tap Install to download it.
- 3 View the definition in the dictionary pop-up window.
  To switch to the full screen view, tap ☑. Tap the definition on the screen to view more definitions. In the detailed view, tap ★ to add the word to your favourite words list or tap Search Web to use the word as a search term.

## Apps and features

## Installing or uninstalling apps

## **Galaxy Store**

Purchase and download apps. You can download apps that are specialised for Samsung Galaxy devices.

Open the Samsung folder and launch the Galaxy Store app.



This app may not be available depending on the region or service provider.

#### **Installing apps**

Browse apps by category or tap the search field to search for a keyword.

Select an app to view information about it. To download free apps, tap **Install**. To purchase and download apps where charges apply, tap the price and follow the on-screen instructions.



To change the auto update settings, tap  $\stackrel{\bullet}{\bullet} \rightarrow$  **Settings**  $\rightarrow$  **Auto update apps**, and then select an option.

## **Play Store**

Purchase and download apps.

Launch the Play Store app.

#### **Installing apps**

Browse apps by category or search for apps by keyword.

Select an app to view information about it. To download free apps, tap **Install**. To purchase and download apps where charges apply, tap the price and follow the on-screen instructions.



To change the auto update settings, tap  $\longrightarrow$  **Settings**  $\rightarrow$  **Auto-update apps**, and then select an option.

## **Managing apps**

#### Uninstalling or disabling apps

Tap and hold an app and select an option.

- **Disable**: Disable selected default apps that cannot be uninstalled from the device.
- Uninstall: Uninstall downloaded apps.

#### **Enabling apps**

Launch the **Settings** app, tap **Apps**  $\rightarrow \bigvee \rightarrow$  **Disabled**, select an app, and then tap **Enable**.

#### **Setting app permissions**

For some apps to operate properly, they may need permission to access or use information on your device.

To view your app permission settings, launch the **Settings** app and tap **Apps**. Select an app and tap **Permissions**. You can view the app's permissions list and change its permissions.



If you do not grant permissions to apps, the basic features of the apps may not function properly.

## S Pen features

#### Air actions

Control apps remotely by using the S Pen connected to your device via Bluetooth Low Energy (BLE).

You can quickly launch apps, such as the camera or gallery app, by pressing and holding the S Pen button. While using apps, you can use certain features by pressing the S Pen button once or twice. For example, while using the camera app, you can take a photo by pressing the button once, or switch between the front and rear cameras by pressing the button twice.

Launch the **Settings** app, tap **Advanced features**  $\rightarrow$  **S Pen**  $\rightarrow$  **Air actions**, and then tap the switch to activate the feature.





- The S Pen must be charged before you can use the Air actions feature. Refer to Charging the S Pen for more information.
- When you detach the S Pen from the slot, the price icon will appear on the status bar. If the S Pen is discharged or far from the device, or if there are obstacles or there is external interference between the S Pen and the device, the S Pen will be disconnected from the device and the icon will turn grey (price). To use the Air actions feature again, connect the S Pen with the device by reinserting the S Pen into the slot.

#### Taking photos with the S Pen

Even though you take photos with your device placing for a distance, you can easily take photos by pressing the S Pen button without setting a timer.

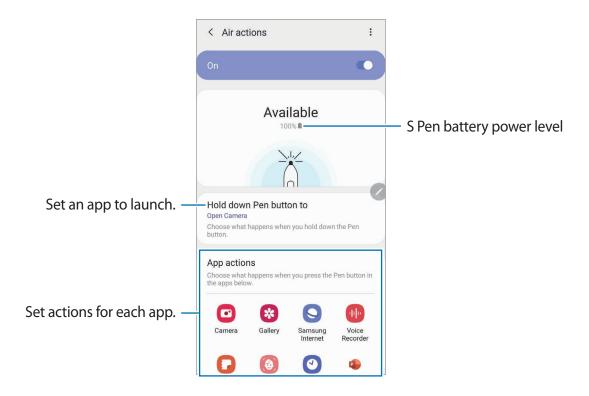
- 1 Launch the Camera app.
- Press the S Pen button once to take a photo, and press it twice to switch which camera is being used.

#### Changing apps or features to use

Change the app, feature, or actions you want to use with the Air actions.

To change the app to launch, open the Air actions setting screen, tap **Hold down Pen button to**, and then select an app or feature.

To change actions for each app, open the Air actions setting screen, tap **Single press** or **Double press** on the each app card under **App actions**, and then select an action.



#### **Connecting another S Pen**

Before using S Pen features with another S Pen, such as Air actions, you must connect the S Pen to your device.

- 1 Insert another S Pen into the slot.
- 2 Open the notification panel, tap ② (S Pen air actions), and then tap again to reactivate it.



## 3 Tap Connect new S Pen.

S Pen will be connected. You may experience a brief delay before it finishes connecting.



- You can only connect Samsung-approved S Pens that support Bluetooth Low Energy (BLE).
- Do not detach the S Pen from the device when it is being connected. Doing so will interrupt the process.
- If it fails to connect or you want to use the previous S Pen, reconnect it with the method shown above.

#### Resetting your S Pen

If the S Pen has connection problems or the S Pen disconnects often, reset the S Pen and connect it again.

Insert the S Pen into the slot. Then, open the Air actions setting screen and tap  $\stackrel{\bullet}{\bullet} \to \text{Reset S}$  Pen.

#### Air command

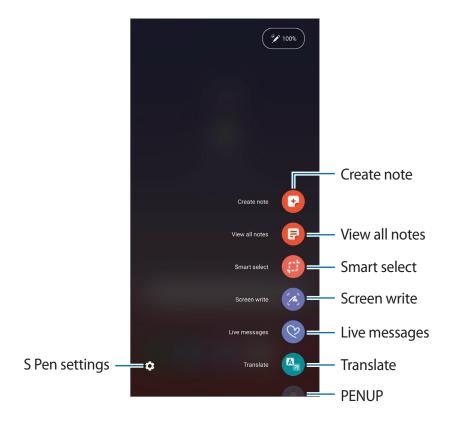
Air command is a menu that provides S Pen features and quick access to frequently used apps.

To open the Air command panel, detach the S Pen from the slot or hover the S Pen over the screen and press the S Pen button. You can also tap the Air command icon with the S Pen.

Drag upwards or downwards on the Air command panel and select a function or app you want.



When the screen is off or locked with a screen lock method, removing the S Pen will not open the Air command panel.



#### Adding shortcuts to the Air command panel

Add shortcuts to frequently used apps or functions to the Air command panel.

On the Air command panel, tap **Add shortcuts** and select apps or functions to open from the panel.

Alternatively, open the Air command panel and tap  $\rightarrow$  Shortcuts.

#### S Pen features

Activate various S Pen features from the Air command panel. The shortcuts that do not appear on the panel by default can be added by using the Add shortcuts feature.

- Create note: Create notes easily in a pop-up window without launching the Samsung Notes app. Refer to Create note for more information.
- View all notes: View all notes in the Samsung Notes app.
- Smart select: Use the S Pen to select an area and perform actions, such as sharing or saving. Refer to Smart select for more information.
- Screen write: Capture screenshots to write or draw on them or crop an area from the captured image. You can also capture the current content and the hidden content on an elongated page, such as a webpage. Refer to Screen write for more information.
- Live messages: Instead of text message, create and send a unique message by recording your actions while handwriting or drawing a live message and saving it as an animated file. Refer to Live messages for more information.
- **Translate**: Hover the S Pen over a word to translate it. Refer to Translate for more information.
- **PENUP**: Post your artwork, view others' artwork, and get useful drawing tips. Refer to PENUP for more information.
- **Bixby Vision**: Use the Bixby Vision features to search for similar images, detect and translate text, and more. Refer to Bixby Vision for more information.
- Magnify: Hover the S Pen over an area of the screen to enlarge it. Refer to Magnify for more information.
- Glance: Reduce an app to a thumbnail and hover the S Pen over the thumbnail to open the app in full screen view. Refer to Glance for more information.
- Colouring: Add colours to images provided by PENUP using the S Pen.
- Add shortcuts: Add shortcuts to frequently used apps to the Air command panel.

#### Air command icon

When the Air command panel is closed, the Air command icon will remain on the screen. You can open the Air command panel by tapping the icon with the S Pen.

To move the icon, drag to a new location.

To remove the icon, drag to Remove at the top of the screen.

If the Air command icon does not appear on the screen, launch the **Settings** app, tap **Advanced features**  $\rightarrow$  **S Pen**, and then tap the **Show floating icon** switch to activate it.

While using apps that support the Air actions feature, you can view actions available with each app by hovering the S Pen over the Air command icon.

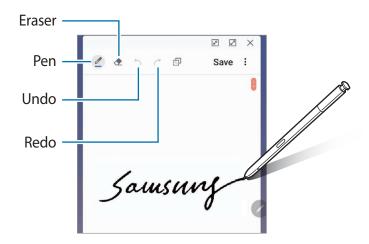
#### Create note

Create notes easily in a pop-up window without launching the Samsung Notes app.

1 Open the Air command panel and tap **Create note**. Alternatively, double-tap the screen while pressing and holding the S Pen button.

The note screen will appear as a pop-up window.

2 Create a note using the S Pen.



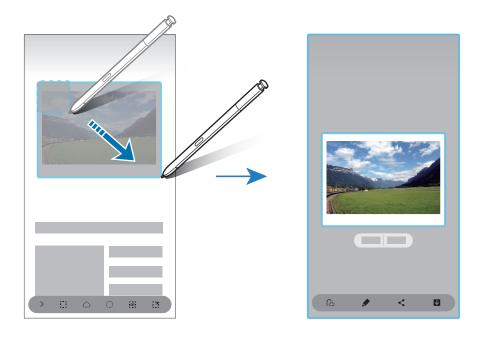
3 When you are finished composing the note, tap **Save**.

The note will be saved in **Samsung Notes**.

#### **Smart select**

Use the S Pen to select an area and perform actions, such as sharing or saving. You can also select an area from a video and capture it as a GIF animation.

- 1 When there is content you want to capture, such as a part of an image, open the Air command panel and tap **Smart select**.
- 2 Select a desired shape icon on the toolbar and drag the S Pen across the content you want to select.



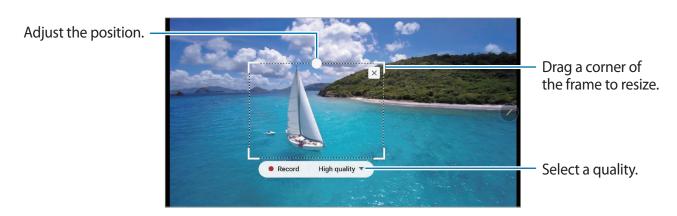
- 3 Select an option to use with the selected area.
  - Extract text: Extract text from the selected area.
  - **Pin to screen**: Pin the selected area to the screen.
  - Automatically changes the appearance of the selected area.

  - <: Share the selected area with others.
  - **■** : Save the selected area in **Gallery**.

#### Capturing an area from a video

While playing a video, select an area and capture it as a GIF animation.

- 1 When there is content you want to capture during video playback, open the Air command panel and tap **Smart select**.
- 2 On the toolbar, tap 🕞.
- Adjust the position and size of the capturing area.



4 Tap **Record** to start capturing.



- Before capturing a video, make sure that the video is playing.
- The maximum duration you can capture an area of the video for will be displayed on the screen.
- When capturing an area from a video, its sound will not be recorded.
- 5 Tap **Stop** to stop capturing.
- 6 Select an option to use with the selected area.
  - Ø: Write or draw on the selected area. Tap D to view the result before saving the file.
  - <: Share the selected area with others.
  - **↓** : Save the selected area in **Gallery**.

#### Screen write

Capture screenshots to write or draw on them or crop an area from the captured image.

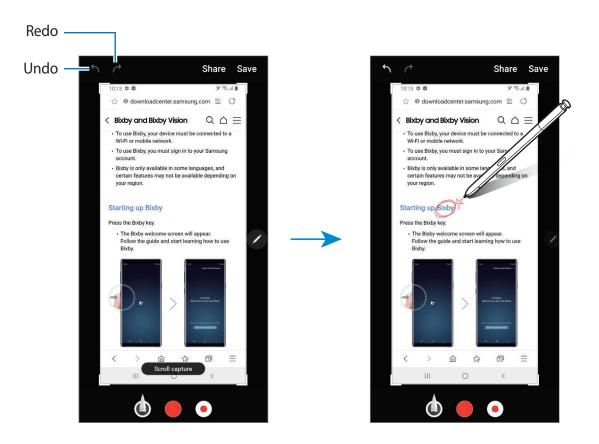


It is not possible to capture a screenshot while using some apps.

1 When there is content you want to capture, open the Air command panel and tap **Screen** write.

The current screen is automatically captured and the editing toolbar appears.

- If you capture the content on an elongated page, such as a webpage, tap **Scroll capture** to capture the hidden content. Tap **Scroll capture** repeatedly until screen capture is complete, and then tap **Done**.
- 3 Write a memo on the screenshot.



- 4 Select an option to use with the screenshot.
  - Save: Save the screenshot in Gallery.
  - Share: Share the screenshot with others.

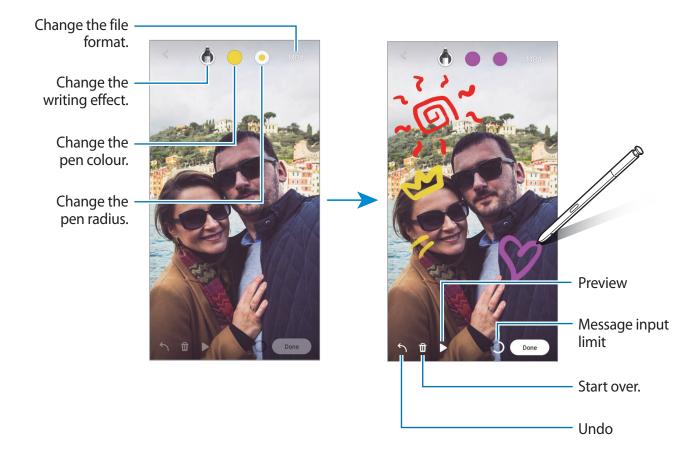
### Live messages

Instead of a text message, create and send a unique message by recording your actions while handwriting or drawing a live message and saving it as an animated file.

When you want to send an animated message, open the Air command panel and tap Live messages.

The live message screen will appear.

- 2 Customise background image and tap **Done** or **Start drawing**.
- Write or draw on the live message screen.



4 Tap Done.

The live message will be saved in **Gallery** as an animated GIF file or a video.

5 Tap **Share** and select a method.

#### **Translate**

Hover the S Pen over the text you want to translate. The units included in the text will also be converted.

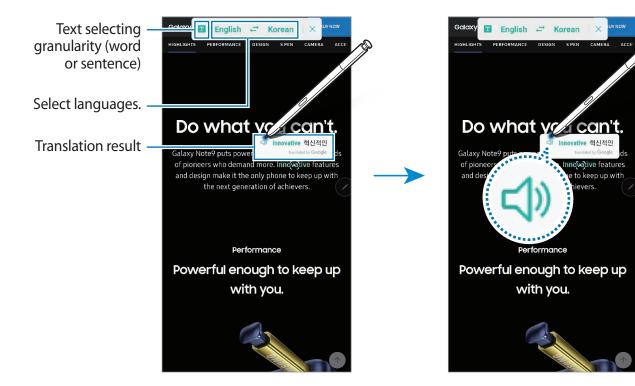


- To use this feature, your device must be connected to a Wi-Fi or mobile network.
- This feature does not support some languages.
- This feature is available only when detectable text is on the screen.
- 1 When there is text you want to translate, open the Air command panel and tap **Translate**.
- 3 Hover the S Pen over the text you want to translate or the unit you want to convert.

  The translated text will appear. To listen to the pronunciation of the original text, tap <□).



The () icon may not appear depending on the language you select.

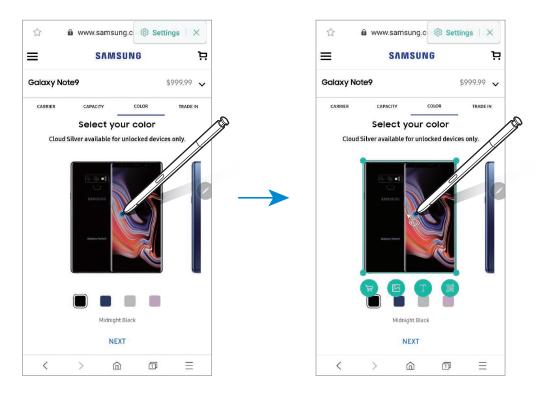


4 To close the translator, tap  $\times$  on the translator panel.

# **Bixby Vision**

When you hover the S Pen over the content, the content is recognised and available search icons will appear. Use the features to search for similar images, detect and translate text, and more. Refer to Bixby Vision for more information.

- When there is an image you want to search for relevant information or extract text from, open the Air command panel and tap **Bixby Vision**.
- 2 Hover the S Pen over the content you want.
  When the content is recognised, the available search icons will appear.

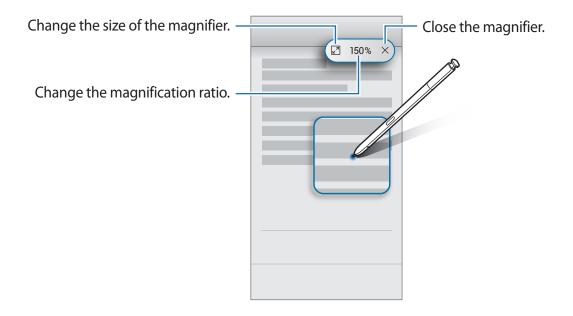


- 3 Select an icon you want.
- 4 To close Bixby Vision, tap imes on the Bixby Vision panel.

# Magnify

Hover the S Pen over an area of the screen to enlarge it.

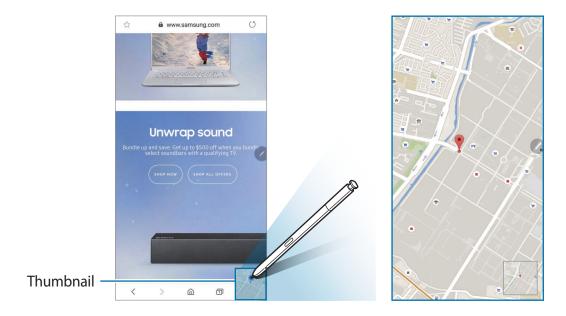
Open the Air command panel, tap **Magnify**, and hover the S Pen over the area you want to enlarge.



## **Glance**

Reduce an app to a thumbnail and hover the S Pen over the thumbnail to open the app in full screen view.

For example, launch a map app, open the Air command panel, and then tap **Glance**. The app will be reduced to a thumbnail at the bottom of the screen. While browsing webpages, hover the S Pen over the thumbnail to open the map app on the full screen and quickly search for places.



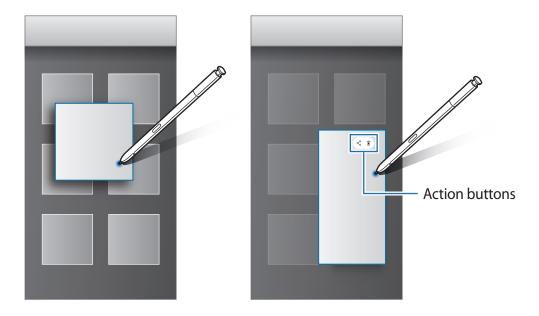
Hover the S Pen away from the screen to reduce the app to a thumbnail again.

To close the minimised app, tap and hold the thumbnail and drag it to **Remove** at the top of the screen.

## Air view

Hover the S Pen over an item on the screen to preview content or view information in a popup window.

In some apps, Action buttons will be displayed on the preview window.

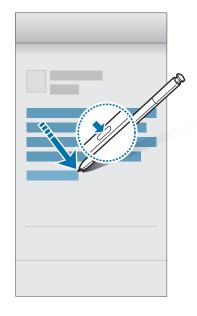


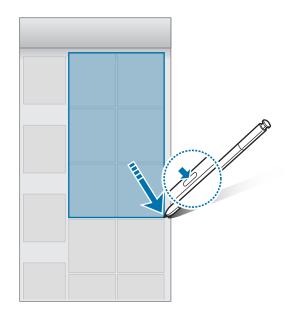


If this feature is not activated, launch the **Settings** app, tap **Advanced features**  $\rightarrow$  **S Pen**, and then tap the **Air view** switch to activate it.

# **Pen Select**

While pressing and holding the S Pen button, drag the S Pen over text or item lists to select multiple items or text. You can also copy and paste the selected items or text into another app or share them with others.





#### Screen off memo

You can quickly create memos by writing on the screen without turning on it. You can also pin or edit a memo on the Always On Display.





If this feature is not activated, launch the **Settings** app, tap **Advanced features**  $\rightarrow$  **S Pen**, and then tap the **Screen off memo** switch to activate it.

## Creating a screen off memo

- 1 When the screen is off, detach the S Pen or tap the screen with the S Pen while pressing and holding the S Pen button.
- Write or draw a memo.To extend the page, tap ♥.
- 3 To pin the memo on the Always On Display, tap  $\nearrow \to Pin$  to Always On Display. The pinned memo will not be saved yet.

To save the memo, tap **Save** or reinsert the S Pen into the slot. The memo will be saved to **Samsung Notes**  $\rightarrow = Screen$  off memo.

## Viewing the pinned memo on the Always On Display

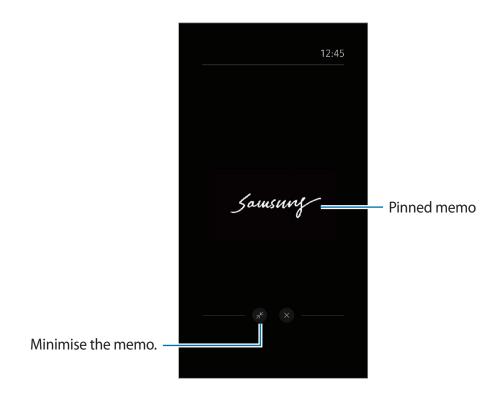
When you pin a screen off memo, you can view the memo on the Always On Display.

To edit the pinned memo, double-tap the memo. If you pin the edited memo on the Always On Display again, the original memo will be saved to **Samsung Notes**  $\rightarrow =$   $\rightarrow$  **Screen off memo**.

To minimise the pinned memo, double-tap . The memo will be displayed as the pinned memo again, double-tap .



If you do not perform any actions for a certain period after opening a memo, the memo will be automatically minimised.



## Unlocking the screen using the S Pen

If the screen is locked while the S Pen is connected, you can unlock the screen by pressing the S Pen button.



- The **S Pen unlock** feature is available only when the screen lock method is set.
- To use this feature, the S Pen must be connected to your device.
- 1 Launch the Settings app and tap Advanced features  $\rightarrow$  S Pen  $\rightarrow$  S Pen unlock.
- 2 Tap Unlock with S Pen remote  $\rightarrow$  OK.
- 3 Unlock the screen using the preset screen lock method. Now you can unlock the screen by pressing the S Pen button.

# **Bixby**

### Introduction

Bixby is an intelligent voice service that helps you use the device more conveniently.

You can talk to Bixby or type text. Bixby will launch a function you request or show the information you want. It also learns your usage patterns and environments. The more it learns about you, the more precisely it will understand you.



- To use Bixby, your device must be connected to a Wi-Fi or mobile network.
- To use Bixby, you must register and sign in to your Samsung account.
- Bixby is only available in some languages, and certain features may not be available depending on your region.

# **Starting Bixby**

When you launch Bixby for the first time, the Bixby intro page will appear. You must select the language to use with Bixby, register and sign in to your Samsung account according to the on-screen instructions, and then agree to the terms and conditions.

1 Press the Bixby key.



- 2 Select the language to use with Bixby.
- 3 Tap **Sign in to Samsung account** and follow the on-screen instructions to sign in to your Samsung account.



If you are already signed in, your account information will appear on the screen.

- **4** Tap **→**.
- 5 Read and agree to the terms and conditions and tap .
- Tap → and follow the on-screen instructions to register your voice.

  If you set the voice wake-up feature, you can start a conversation with Bixby by saying "Hi, Bixby".
- 7 Tap to complete the setup.
  The Bixby screen will appear.

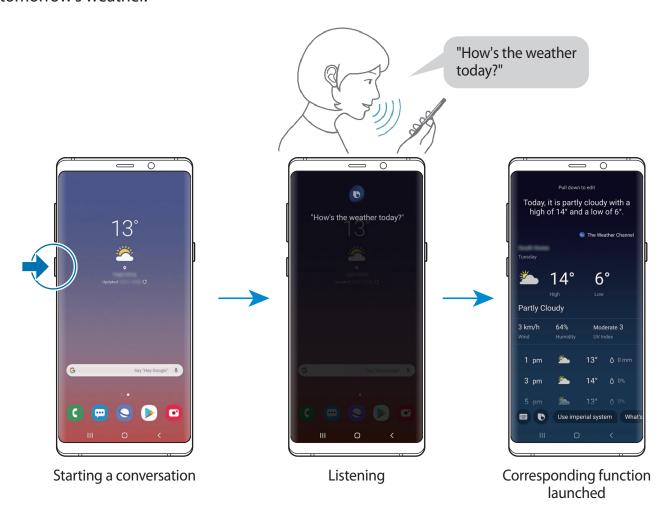
## **Using Bixby**

When you say what you want to Bixby, Bixby will launch corresponding functions or show the information you requested.

While pressing and holding the Bixby key, say what you want to Bixby, and then release your finger from the key when you are finished speaking. Alternatively, say "Hi, Bixby", and when the device emits a sound, say what you want.

For example, while pressing and holding the Bixby key, say "How's the weather today?" The weather information will appear on the screen.

If you want to know the weather tomorrow, while pressing and holding the Bixby key, just say "Tomorrow?" Because Bixby understands the context of the conversation, it will show you tomorrow's weather.



Apps and features

If Bixby asks you a question during a conversation, while pressing and holding the Bixby key, answer Bixby. Or, tap and answer Bixby.

If you are using headphones or Bluetooth audio, or start a conversation by saying "Hi, Bixby", you can continue the conversation without tapping the icon. Press the Bixby key and tap  $\stackrel{\bullet}{\bullet} \rightarrow$  Settings  $\rightarrow$  Automatic listening  $\rightarrow$  Hands-free only.

#### Waking up Bixby using your voice

You can start a conversation with Bixby by saying "Hi, Bixby". Register your voice so that Bixby will respond to your voice when you say "Hi, Bixby".

- 1 Press the Bixby key and tap  $\longrightarrow$  Settings  $\longrightarrow$  Voice wake-up.
- 2 Tap the Wake with "Hi, Bixby" switch to activate it.
- 3 Follow the on-screen instructions to complete the setup.

  Now you can say "Hi, Bixby", and when the device emits a sound, start a conversation.

## Communicating by typing text

If your voice is not recognised due to noisy environments or if you are in a situation where speaking is difficult, you can communicate with Bixby via text.

Press the Bixby key, tap , and then type what you want.

During the communication, Bixby also will answer you through text instead of voice feedback.

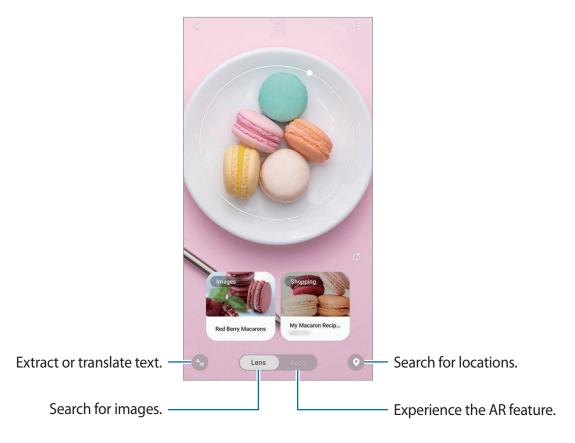
# **Bixby Vision**

#### Introduction

Bixby Vision is a service that provides various features based on image recognition.

You can use Bixby Vision to quickly search for information by recognising objects or your current location. You can also experience the AR feature, which makes virtual images appear on the preview screen.

Use a variety of useful Bixby Vision features.





- To use this feature, the device must be connected to a Wi-Fi or mobile network.
- To use some Bixby Vision features, you must sign in to your Samsung account.
- The available features and search results may vary depending on the region or service provider.
- This feature may not be available or you may not get correct search results depending on the image size, format, or resolution.
- Samsung is not responsible for the product information provided by Bixby Vision.

## **Launching Bixby Vision**

Launch Bixby Vision using one of these methods.

- In the Camera app, tap MORE on the shooting modes list and tap BIXBY VISION.
- In the Gallery app, select an image and tap .
- In the **Internet** app, tap and hold an image and tap **Bixby Vision**.
- If you added the Bixby Vision app icon to the Apps screen, launch the **Bixby Vision** app.

# Searching for similar images

Search for images similar to the recognised object online. You can view various images with properties similar to the object, such as colour or shape.

For example, if you want to know the title of a photo or image, use the Bixby Vision features. The device will search for and show you related information or images with similar characteristics.

- 1 Launch the Camera app, tap MORE on the shooting modes list, and then tap BIXBY VISION.
- 2 Tap **Lens** and keep the object within the screen to recognise it.
- 3 Select a search result with **Images** on it. The similar images will appear.

# **Translating or extracting text**

Recognise and show the translated text on the screen. You can also extract text from a document or an image file.

For example, if you want to know what a sign says while travelling abroad, use the Bixby Vision features. The device will translate the sign's text into the language you select.

Launch the Camera app, tap MORE on the shooting modes list, and then tap BIXBY VISION.

 $2 \quad \text{Tap} \, \textcircled{5} \,$  and keep the text within the screen to recognise it.

The translated text will appear on the screen.

- To extract text, tap . You can share or save the extracted text.
- To save the screen with the translated text as an image, tap . The screen will be saved in **Gallery**.
- To change the source or target language, tap the language settings panel at the top of the screen.

# **Searching for places**

Search for information about nearby places by recognising your current location.

- 1 Launch the Camera app, tap MORE on the shooting modes list, and then tap BIXBY VISION.
- 2 Tap ② and point the camera towards the direction you want to search for places. You can view basic information about nearby places.
  - If you want to search for places in another direction, point the camera towards the direction.
  - You can view your current location and weather information. To view your current location on the map, point the camera towards the ground. To view the current weather information, point the camera towards the sky.
- 3 Select a search result on the screen.

The device will show the information of nearby places.

## **Experiencing various AR features**

Various apps include the AR feature, which makes virtual images appear on the background or person on the preview screen. You can conveniently experience products and view information without visiting stores or trying them in person. Experience Bixby Vision's fun and useful AR feature.



Available apps may vary depending on the region or service provider.

- 1 Launch the Camera app, tap MORE on the shooting modes list, and then tap BIXBY VISION.
- 2 Tap **Apps** and select the feature you want.

# **Bixby Home**

On the Bixby Home screen, you can view recommended services and information that Bixby provides by analysing your usage patterns and your routine.



- To view more content, connect to a Wi-Fi or mobile network.
- To fully use this feature, you must register and sign in to your Samsung account.

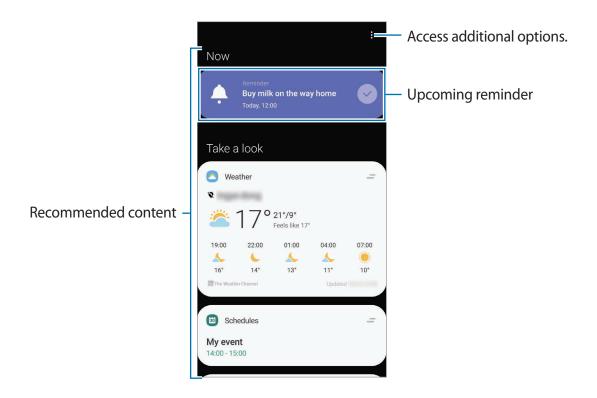
## **Opening Bixby Home**

1 On the Home screen, swipe to the right.

The Bixby Home screen will appear.

When launching this feature for the first time or after performing a data reset, follow the on-screen instructions to complete the setup.

2 Swipe upwards or downwards to view recommended content.



3 To close Bixby Home, swipe to the left on the screen or tap the Back button.

## Using recommended content on Bixby Home

When you open Bixby Home, you can view the content that is frequently updated as cards. Swipe upwards or downwards to view the cards.

For example, on the way to the office in the morning, you can view your day's schedule and play your favourite music on the Bixby Home screen. In the evening, you can view alarms, check your daily activity, and view your friends' feeds.



The content and order of the cards update automatically at a specified interval. To manually update cards, swipe downwards on the screen.

#### **Editing cards list**

- To pin a card to the top of the Bixby Home screen, tap → Pin to top. To unpin a card, tap → Unpin.
- To stop displaying a card on the list, drag the card to the right and tap **Don't show again**.
- To hide a card from the list, drag the card to the right and tap **Hide for now**.

#### Selecting apps to show as cards

Add or delete apps to show as cards on the Bixby Home screen.

On the Bixby Home screen, tap  $\stackrel{\bullet}{\bullet} \rightarrow$  Cards, select an app, and then tap the switches next to items to add or delete them.



If an app is not installed on the device, you must install it to use it. On the Bixby Home screen, tap  $\overset{\bullet}{\cdot}$   $\rightarrow$  Cards and then download an app.

## **Customising the Bixby Home settings**

On the Bixby Home screen, tap  $\longrightarrow$  **Settings**.

- **Customisation Service**: Set to use Bixby's interactive and customised services to enhance your experience.
- **Bixby Home content providers**: Read and agree to or withdraw your agreement from the terms and conditions and privacy policies of each content provider.
- About Bixby Home: View the Bixby Home version and legal information.

# Reminder

Create reminders to schedule to-do items or to view content later. You will receive notifications at the preset time or location for each reminder.



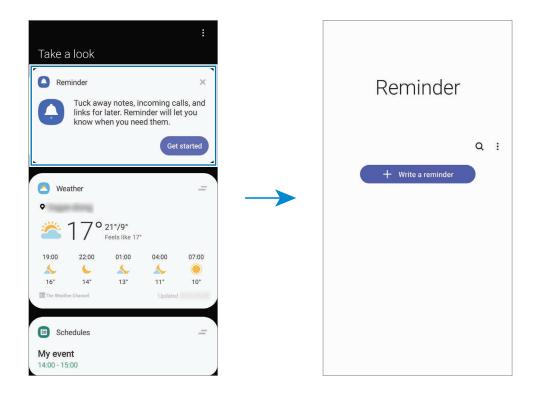
- To receive more accurate notifications, connect to a Wi-Fi or mobile network.
- To fully use this feature, you must register and sign in to your Samsung account.
- To use location reminders, the GPS feature must be activated.

### **Starting Reminder**

You can start Reminder from Bixby Home.

1 On the Home screen, swipe to the right. The Bixby Home screen will appear. 2 Tap **Get started** on the **Reminder** card.

The Reminder screen will appear and the **Reminder** app icon ( ) will be added to the Apps screen.



## **Creating reminders**

Create reminders with various methods. Reminder will alert you if you create a reminder with a specified time or location setting. You can also save various content, such as a single memo or webpage address, and view it later.

For example, create a reminder to alert you to 'Water the flowers when I get home'.

- 1 Launch the **Reminder** app.
- Tap Write a reminder or + and enter 'Water the flowers'.
- 3 Tap Place  $\rightarrow$  Pick a place and set the location to home.
- 4 Tap When I arrive at  $\rightarrow$  Done.
- Tap Save to save the reminder.When you arrive at home, the 'Water the flowers' notification will appear.

#### **Creating reminders with Bixby**

Press and hold the Bixby key and say "Remind me to water the flowers when I get home". Bixby will save what you said as a reminder.

### **Checking reminder notifications**

At the preset time or location, a notification pop-up window will appear. Tap **Complete** or **Snooze**.

## Viewing the reminders list

Launch the **Reminder** app to view your reminders list. To view reminder details, select a reminder.

#### **Editing reminder details**

Add or edit reminder details, such as frequency, date and time, or location.

- 1 On the reminders list, select a reminder to edit and tap **Edit**.
- 2 Edit the conditions and tap Save.

## **Completing reminders**

Mark reminders that you do not need to be reminded of as complete.

On the reminders list, select a reminder and tap **Complete**.

## **Restoring reminders**

Restore reminders that have been completed.

- 1 On the reminders list, tap  $\longrightarrow$  Completed  $\longrightarrow$  Edit.
- 2 Tick items to restore and tap Restore.
  Reminders will be added to the reminders list and you will be reminded at the preset times.

## **Deleting reminders**

To delete a reminder, select a reminder and tap **Delete**. To delete multiple reminders, tap and hold a reminder, tick reminders to delete, and then tap **Delete**.

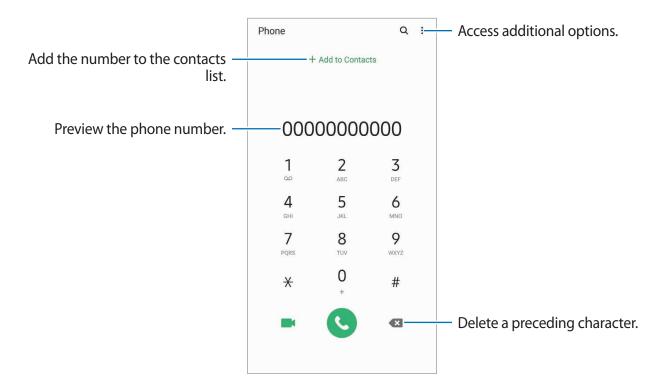
# **Phone**

## Introduction

Make or answer voice and video calls.

# **Making calls**

- 1 Launch the **Phone** app and tap **Keypad**.
- 2 Enter a phone number.
- 3 Tap to make a voice call, or tap to make a video call.



#### Making calls from call logs or contacts list

Tap **Recents** or **Contacts**, and then swipe to the right on a contact or a phone number to make a call.

If this feature is deactivated, launch the **Settings** app, tap **Advanced features** → **Motions** and gestures, and then tap the **Swipe to call or send messages** switch to activate it.

## Using speed dial

Set speed dial numbers to quickly make calls.

To make a call, tap and hold a speed dial number on the keypad. For speed dial numbers 10 and up, tap the first digit(s) of the number, and then tap and hold the last digit.

For example, if you set the number 123 as a speed dial number, tap 1, tap 2, and then tap and hold 3.

## Making calls from the locked screen

On the locked screen, drag outside the circle.

### Making an international call

- 1 Launch the **Phone** app and tap **Keypad**.
- 2 Tap and hold 0 until the + sign appears.
- 3 Enter the country code, area code, and phone number, and then tap 🕒.

## **Receiving calls**

#### Answering a call

When a call comes in, drag Q outside the large circle.

### Rejecting a call

When a call comes in, drag outside the large circle.

To send a message when rejecting an incoming call, drag the **Send message** bar upwards. If the **Add reminder** switch is activated, a reminder will be saved to alert you of the rejected call one hour later.

To create various rejection messages, launch the **Phone** app, tap  $\longrightarrow$  **Settings**  $\longrightarrow$  **Quick decline messages**, enter a message, and then tap  $\longrightarrow$ .

#### Missed calls

If a call is missed, the  $\[ \succeq \]$  icon appears on the status bar. Open the notification panel to view the list of missed calls. Alternatively, launch the **Phone** app and tap **Recents** to view missed calls.

# **Blocking phone numbers**

Block calls from specific numbers added to your block list.

- 1 Launch the **Phone** app and tap  $\longrightarrow$  **Settings**  $\longrightarrow$  **Block numbers**.
- Tap Recents or Contacts, select contacts, and then tap Done.
  To manually enter a number, tap Add phone number, enter a phone number, and then tap +.

When blocked numbers try to contact you, you will not receive notifications. The calls will be logged in the call log.



You can also block incoming calls from people that do not show their caller ID. Tap the **Block unknown callers** switch to activate the feature.

## **Options during calls**



If the area around the rear camera and the fingerprint recognition sensor is covered, unwanted noises may incur during a call. Remove accessories, such as a screen protector or stickers, around the rear camera area.

#### **During a voice call**

The following actions are available:

- : Access additional options.
- Add call: Dial a second call. The first call will be put on hold. When you end the second call, the first call will be resumed.
- Hold call: Hold a call. Tap Resume call to retrieve the held call.
- Bluetooth: Switch to a Bluetooth headset if it is connected to the device.
- **Speaker**: Activate or deactivate the speakerphone. When using the speakerphone, keep the device away from your ears.
- Mute: Turn off the microphone so that the other party cannot hear you.
- **Keypad** / **Hide**: Open or close the keypad.

## **During a video call**

Tap the screen to use the following options:

- : Access additional options.
- Camera: Turn off the camera so that the other party cannot see you.
- **Switch**: Switch between the front and rear cameras.
- Mute: Turn off the microphone so that the other party cannot hear you.
- **Speaker**: Activate or deactivate the speakerphone. When using the speakerphone, keep the device away from your ears.

# Adding a phone number to Contact

## Adding a phone number to Contacts from the keypad

- 1 Launch the **Phone** app and tap **Keypad**.
- 2 Enter the number.
- 3 Tap Add to Contacts.
- 4 Tap Create new contact to create a new contact, or tap Update existing contact to add the number to an existing contact.

## Adding a phone number to Contacts from the calls list

- 1 Launch the **Phone** app and tap **Recents**.
- 2 Tap a caller's image and tap Add, or tap a phone number and tap Add to Contacts.
- 3 Tap Create new contact to create a new contact, or tap Update existing contact to add the number to an existing contact.

# Adding a tag to a phone number

You can add tags to numbers without saving them to Contact. This allows you to view the caller's information when they call without having them listed in Contact.

- 1 Launch the **Phone** app and tap **Recents**.
- 2 Tap a phone number  $\rightarrow$  1.
- 3 Tap Add note, enter a tag, and then tap Add.
  When a call comes from that number, the tag will show under the number.

# **Contacts**

## Introduction

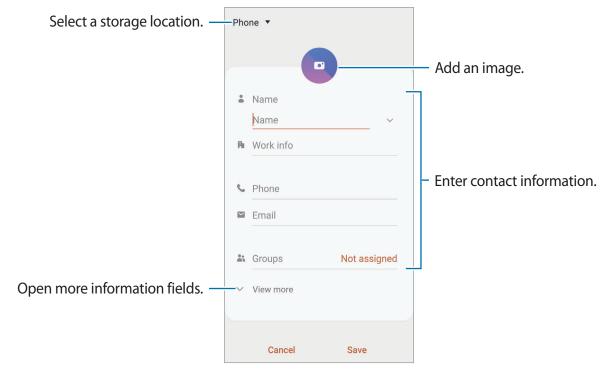
Create new contacts or manage contacts on the device.

# **Adding contacts**

## Creating a new contact

- 1 Launch the **Contacts** app and tap 

  .
- 2 Select a storage location.
- 3 Enter contact information.



Depending on the selected storage location, the types of information you can save may vary.

4 Tap Save.

#### **Importing contacts**

Add contacts by importing them from other storages to your device.

- 1 Launch the Contacts app and tap  $\equiv$   $\rightarrow$  Manage contacts  $\rightarrow$  Import or export contacts  $\rightarrow$  Import.
- 2 Select a storage location to import contacts from.
- 3 Tick VCF files or contacts to import and tap **Done**.
- 4 Select a storage location to save contacts to and tap **Import**.

## Syncing contacts with your web accounts

Sync your device contacts with online contacts saved in your web accounts, such as your Samsung account.

- 1 Launch the **Settings** app, tap **Accounts and backup** → **Accounts** and select the account to sync with.
- 2 Tap Sync account and tap the Contacts switch to activate it.
  For the Samsung account, tap Sync settings and tap the Contacts switch to activate it.

# **Searching for contacts**

Launch the Contacts app.

Use one of the following search methods:

- Scroll up or down the contacts list.
- Drag a finger along the index at the right side of the contacts list to scroll through it quickly.
- Tap  $\mathbb Q$  at the top of the contacts list and enter search criteria.

Tap the contact. Then take one of the following actions:

- ☆: Add to favourite contacts.
- 📞 / 🔤 : Make a voice or video call.
- Compose a message.
- Compose an email.

# **Sharing contacts**

You can share contacts with others by using various sharing options.

- 1 Launch the **Contacts** app and tap  $\longrightarrow$  **Share**.
- 2 Select contacts and tap **Share**.
- 3 Select a sharing method.

# Saving and sharing profile

Save and share your profile information, such as your photo and status message, with others using the profile sharing feature.



- The profile sharing feature may not be available depending on the region or service provider.
- The profile sharing feature is only available for contacts who have activated the profile sharing feature on their device.
- 1 Launch the **Contacts** app and select your profile.
- 2 Tap **Edit**, edit your profile, and tap **Save**.
- 3 Tap Tap here to share your profile and tap the switch to activate it.

To use the profile sharing feature, your phone number must be verified. You can view your contacts' updated profile information in **Contacts**.

To change the scope of contacts to share your profile with, tap **Select what's shared**, select an item to share, and then select an option.

## **Creating groups**

You can add groups, such as family or friends, and manage contacts by group.

- 1 Launch the Contacts app and tap  $\equiv$   $\rightarrow$  Groups  $\rightarrow$  Create group.
- 2 Enter a group name.To set a group ringtone, tap Group ringtone and select a ringtone.
- 3 Tap Add member, select contacts to add to the group, and then tap Done.
- 4 Tap Save.

## Sending a group message

You can send a group message to a group's members at the same time.

Launch the **Contacts** app, tap  $\equiv \rightarrow$  **Groups**, select a group, and then tap  $\stackrel{\bullet}{\bullet} \rightarrow$  **Send message**.

# Merging duplicate contacts

When you import contacts from other storages, or sync contacts with other accounts, your contacts list may include duplicate contacts. Merge duplicate contacts into one to streamline your contacts list.

- 1 Launch the Contacts app and tap  $\equiv$   $\rightarrow$  Manage contacts  $\rightarrow$  Merge contacts.
- 2 Tick contacts and tap Merge.

# **Deleting contacts**

- 1 Launch the **Contacts** app and tap  $\rightarrow$  **Delete**.
- 2 Select contacts and tap **Delete**.

To delete contacts one by one, open the contacts list and tap a contact. Then tap  $\stackrel{\bullet}{\bullet} \rightarrow$  **Delete**.

# Messages

# Introduction

Send and view messages by conversation.

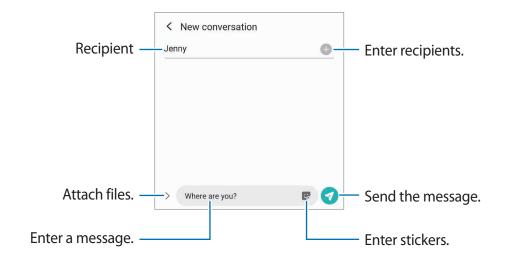
# **Sending messages**



You may incur additional charges for sending messages when you are roaming.

- 1 Launch the **Messages** app and tap .
- 2 Add recipients and enter a message.

To record and send a voice message, tap and hold of the say your message, and then release your finger. The recording icon appears only while the message input field is empty.



3 Tap 7 to send the message.

# Viewing messages

Messages are grouped into message threads by contact.



You may incur additional charges for receiving messages when you are roaming.

- 1 Launch the **Messages** app and tap **Conversations**.
- 2 On the messages list, select a contact.
- 3 View your conversation.

To reply to the message, tap **Enter message**, enter a message, and then tap **?**. To adjust the font size, spread two fingers apart or pinch on the screen.

# **Blocking unwanted messages**

Block messages from specific numbers added to your block list.

- 1 Launch the Messages app and tap ♣ → Settings → Block numbers and messages → Block numbers.
- 2 Tap Conversations and select a contact. Or, tap Contacts, select contacts, and then tap Done.

To manually enter a number, enter a phone number under **Enter phone number** and tap +.

# Setting the message notification

You can change notification sound, display options, and more.

- 1 Launch the **Messages** app, tap → **Settings** → **Notifications**, and then tap the switch to activate it.
- 2 Change the notification settings.

## Setting a message reminder

You can set an alert at an interval to let you know that you have unchecked notifications. If this feature is not activated, launch the **Settings** app, tap **Accessibility**  $\rightarrow$  **Advanced settings**  $\rightarrow$  **Notification reminders**, and then tap the switch to activate it.

# **Deleting messages**

- 1 Launch the **Messages** app and tap **Conversations**.
- 2 On the messages list, select a contact.
- 3 Tap and hold a message, tap Delete.
  To delete multiple messages, tick messages you want to delete.
- 4 Tap Delete.

# **Internet**

## Introduction

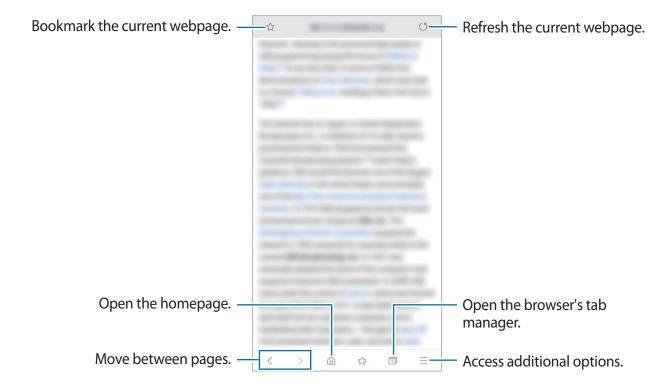
Browse the Internet to search for information and bookmark your favourite webpages to access them conveniently.

# **Browsing webpages**

- 1 Open the **Samsung** folder and launch the **Internet** app.
- 2 Tap the address field.
- 3 Enter the web address or a keyword, and then tap Go.

To view the toolbars, drag your finger downwards slightly on the screen.

To switch between tabs quickly, swipe to the left or right on the address field.



## Using secret mode

In secret mode, you can separately manage open tabs, bookmarks, and saved pages. You can lock secret mode using a password and your biometric data.

## **Activating secret mode**

In the toolbar at the bottom of the screen, tap  $\bigcirc$  **Turn on Secret mode**. If you are using this feature for the first time, set whether to use a password for secret mode.

In secret mode, the device will change the colour of the toolbars.



In secret mode, you cannot use some features, such as screen capture.

## **Changing security settings**

You can change your password or the lock method.

Tap  $\equiv$   $\rightarrow$  Settings  $\rightarrow$  Privacy and security  $\rightarrow$  Secret mode settings  $\rightarrow$  Change password. To use your registered biometric data as a lock method along with the password, tap an option switch under **Biometrics** to activate it.

## Deactivating secret mode

In the toolbar at the bottom of the screen, tap  $\bigcirc$  **Turn off Secret mode**.

# **Email**

## Setting up email accounts

Set up an email account when opening **Email** for the first time.

- 1 Open the **Samsung** folder and launch the **Email** app.
- 2 On the list, select an email service or tap **Other**.
- 3 Follow the on-screen instructions to complete the setup.

To set up another email account, tap  $\equiv \rightarrow \Leftrightarrow \rightarrow Add$  account.

If you have more than one email account, you can set one as the default account. Tap  $\longrightarrow$   $\longrightarrow$  Set default account.

## Sending emails

- 1 Tap 10 to compose an email.
- 2 Add recipients and enter a subject line and text.
- 3 Tap  $\checkmark$  to send the mail.

## **Reading emails**

When **Email** is open, the device will automatically retrieve new emails. To manually retrieve emails, swipe downwards on the top of the emails list.

Tap an email on the screen to read it.



If email syncing is disabled, new emails cannot be retrieved. To enable email syncing, tap = 0 tap = 0

# **Camera**

#### Introduction

Take photos and record videos using various modes and settings.

#### **Camera etiquette**

- Do not take photos or record videos of other people without their permission.
- Do not take photos or record videos where legally prohibited.
- Do not take photos or record videos in places where you may violate other people's privacy.

# **Launching Camera**

Use the following methods to launch Camera:

- · Launch the Camera app.
- · Press the Power key twice quickly.
- On the locked screen, drag outside the circle.

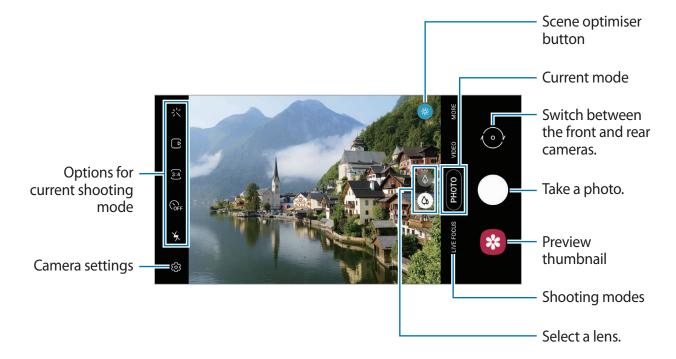


- Some methods may not be available depending on the region or service provider.
- Some camera features are not available when you launch the **Camera** app from the locked screen or when the screen is turned off while the screen lock method is set.
- If photos you take appear blurry, clean the camera lens and try again.

# **Basic shooting**

## Taking photos or recording videos

- On the shooting modes list, tap **PHOTO** or **VIDEO**.
- 2 Tap the image on the preview screen where the camera should focus.
- 3 Tap  $\bigcirc$  to take a photo or tap  $\odot$  to record a video.



- To adjust the brightness of photos or videos, tap the screen. When the adjustment bar appears, drag the adjustment bar towards + or —.
- To capture an image from the video while recording, tap .
- To change the focus while recording a video, tap where you want to focus. To use auto focus mode, tap AF.



- The preview screen may vary depending on the shooting mode and which camera is being used.
- The camera automatically shuts off when unused.
- Make sure that the lens is not damaged or contaminated. Otherwise, the device may not work properly in some modes that require high resolutions.
- Your device's camera features a wide-angle lens. Minor distortion may occur in wide-angle photos or videos and does not indicate device performance problems.
- The maximum recording time may reduce when you record video at high resolution.

### Selecting a lens for shooting

Take a photo or record a video after selecting the camera lens you want. On the preview screen, select a lens.



This feature is available only in some modes.

- (a): You can take a basic photo or record a normal video with the normal lens.
- (a): You can take a photo or record a video much clearer by enlarging the subject with the 2x optical zoom lens.



♦ Basic shooting



2x optical zoom shooting

### Zooming in and out

Spread two fingers apart on the screen to zoom in, and pinch to zoom out.



- Zooming features are available only when using the rear camera.
- If you use the video zoom feature for a long time while recording a video, the video quality may diminish to prevent your device from overheating.
- The 2x optical zoom may not work in low-light environments.

### Setting the camera button action

You can take a series of photos or create an animated GIF by tapping and holding the camera button.

On the preview screen, tap  $\ \ \bigcirc \ \ \rightarrow \ \$  Hold Shutter button to and select an action you want to use.

- Take a picture: Take a photo.
- Take burst shot: Take a series of photos.
- **Create GIF**: Create an animated GIF with sequential photos you taken.



The **Take burst shot** and **Create GIF** features are available only in some shooting modes.

## Using the focus and exposure features

Locking the focus (AF) and exposure (AE)

You can lock the focus or exposure on a selected area to prevent the camera from automatically adjusting based on changes to the subjects or light sources.

Tap and hold the area to focus, the AF/AE frame will appear on the area and the focus and exposure setting will be locked. The setting remains locked even after you take a photo.



This feature is available only in **PHOTO** or **PRO** modes.

## Separating the focus area and the exposure area

You can separate the focus area and the exposure area.

Tap and hold the preview screen. The AF/AE frame will appear on the screen. Drag the frame to the area where you want to separate the focus area and the exposure area.



This feature is available only in **PRO** mode.

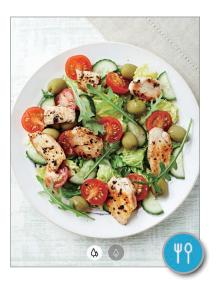


## Intelligent camera

## Scene optimiser

The camera adjusts the colour settings and applies the optimised effect automatically by recognising the subject.

On the shooting modes list, tap **PHOTO**. When the camera recognises the subject or scene, the scene optimiser button will change and the optimised colour will be applied.



#### **SUPER SLOW-MO**

Super slow motion is a feature that records a quickly passing moment slowly so that you can appreciate it later. After the video is recorded, background music will be added automatically.

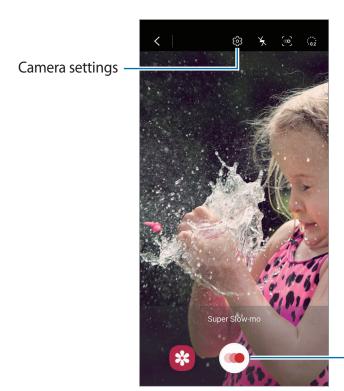


- Some super slow motion features may differ depending on the model.
- Use this feature in a place that has sufficient light. When recording a video indoors with insufficient or poor lighting, some of the following situations may occur:
  - The screen may appear dark due to the small amount of light.
  - The screen may flicker in certain lighting conditions, such as in places with fluorescent lighting.
  - Noise may occur.

### Recording super slow motion videos

Record a video by capturing a single moment that the subject is moving.

1 On the shooting modes list, tap  $MORE \rightarrow SUPER SLOW-MO$ .



Start recording a video.

**2** Tap •.

The device will capture the moment in super slow motion and save it as a video.

Apps and features

### Recording super slow motion videos automatically

When motion is detected in the motion detection area, the device will capture the moment in super slow motion.



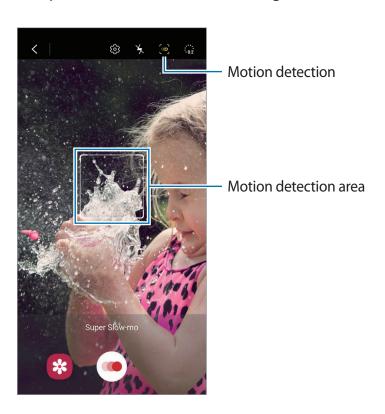
Super slow motion recording may start at an unwanted moment if there are conditions such as the following:

- · When the device shakes.
- When another object is moving near the subject in the motion detection area.
- When recording under flickering light, such as in places with fluorescent lighting.
- 1 On the shooting modes list, tap  $MORE \rightarrow SUPER SLOW-MO$ .

## 2 Tap (...).

The motion detection feature will be activated and the motion detection area will appear on the preview screen.

To move the motion detection area, tap the area inside the frame and drag it to a new location. To adjust the area size, tap a corner of the frame and drag it.



**3** Tap •.

When motion is detected, the device will begin recording in super slow motion and save it as a video.

## Playing super slow motion videos

Select a super slow motion video and tap Play super slow-mo video.

Random background music will automatically accompany the video during playback.

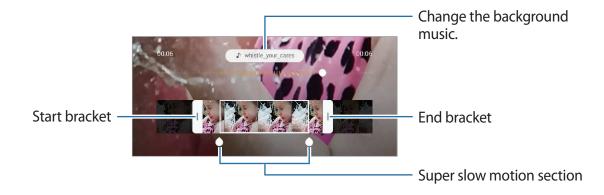
To capture an image while playing a video, tap [\(\mathbb{E}\)].

#### **Editing super slow motion videos**

On the playback screen, you can edit the video and save it as a different file or share it.

To crop out a desired section of the video, drag the start bracket and the end bracket to the desired points to select the section to keep.

To edit the super slow motion section, drag ♠ to the left or right.



#### **LIVE FOCUS**

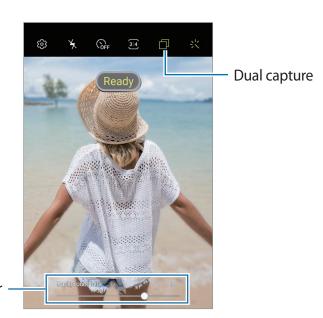
The dual camera allows you to take shallow focus photos where the background is blurred and the subject stands out clearly. Moreover, the Dual capture feature allows you to take a close-up photo zoomed in on the subject and a wide angle photo with a broader background, all in one shot.

## Taking portraits that stand out using the Live focus feature

Adjust the background blur level on the preview screen and take a photo that highlights the subject.



- Use this feature in a place that has sufficient light.
- The background blur may not be applied properly in the following conditions:
  - The device or the subject is moving.
  - The subject is thin or transparent.
  - The subject has a similar colour or pattern to the background.
  - The subject or background is plain.
- 1 On the shooting modes list, tap LIVE FOCUS.
- 2 Drag the background blur adjustment bar to the left or right to adjust the blur level.
- 3 When **Ready** appears on the preview screen, tap O to take a photo.

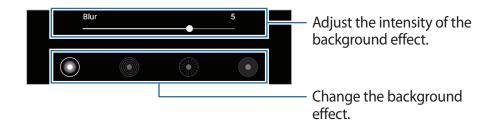


Background blur adjustment bar

## **Editing the background of the Live Focus photos**

You can also edit the background effect and the intensity of the background effect for a photo taken with the Live focus feature.

- 1 Select a photo taken with the Live focus feature and tap **Change background effect**.
- Select a background effect you want.
  To adjust the intensity of the background effect, drag the adjustment bar to the left or right.



3 Tap **Apply** to save the photo.

## Taking the hidden background with the Dual capture feature

With one shot, you can capture both a close-up photo and a wide angle photo with a broader background. You can view the background scenery which was hidden on the preview screen.

On the shooting modes list, tap **LIVE FOCUS**. Make sure the Dual capture feature is activated (), and then take a photo. Select the photo and view the close-up and wide angle photos.



A close-up photo

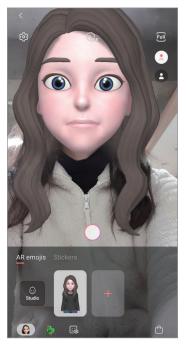


A wide angle photo

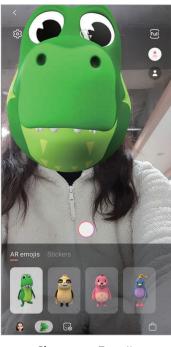
#### **AR EMOJI**

Create a My Emoji that looks just like you, and take photos and record videos using My Emojis, character Emojis, or stickers.

You can customise My Emoji's features, such as the face shape or hairstyle, and decorate My Emoji with various accessories. You can also express yourself in fun ways using My Emoji stickers during a conversation.







**Character Emojis** 



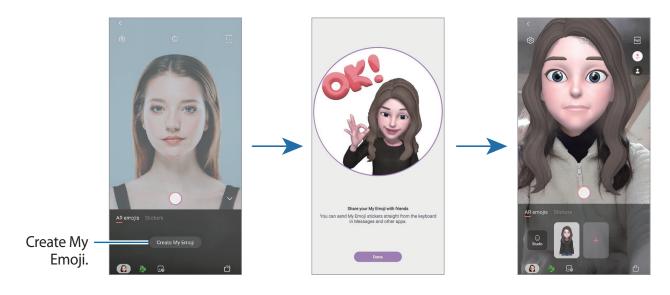
Stickers

### **Creating My Emoji**

Make a My Emoji that looks like you. My Emoji stickers with various expressions will be automatically generated.

- 1 Launch the Camera app, tap MORE on the shooting modes list, and then tap AR EMOJI → Create My Emoji.
- 2 Align your face on the screen and tap \infty to take a photo.
- 3 Select My Emoji's gender and age range and tap **Next**.
- 4 Decorate a My Emoji and tap **Next**.
- 5 Tap Done.

The My Emoji and My Emoji stickers are now created. You can view My Emoji stickers in the My Emoji Studio.





You can use the **AR EMOJI** feature in both the front and rear cameras. If you are using the rear camera, it will automatically switch to the front camera. To switch between cameras, swipe upwards or downwards on the preview screen.

#### **Deleting My Emoji**

Launch the **Camera** app, tap **MORE** on the shooting modes list, and then tap **AR EMOJI**. Tap and hold the My Emoji that you want to delete and tap —. The My Emoji and My Emoji stickers will be deleted.

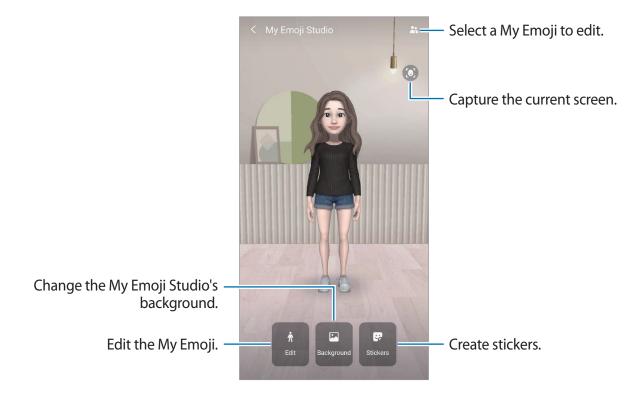
## **Customising My Emoji**

Edit or decorate a My Emoji in the My Emoji Studio. You can also create your own My Emoji stickers.



Available options may vary depending on the region or service provider.

Launch the **Camera** app, tap **MORE** on the shooting modes list, and then tap **AR EMOJI**  $\rightarrow$  **Studio**. My Emoji Studio will appear.



## **Using shooting modes**

To change the shooting mode, drag the shooting modes list to the left or right, or swipe to the left or right on the preview screen.

Select a shooting mode you want.

#### Photo mode

The camera adjusts the shooting options automatically based on the surroundings to capture photos easily.

On the shooting modes list, tap **PHOTO**.

To take self-portraits with the front camera, swipe upwards or downwards, or tap  $\odot$  to switch to the front camera.

#### **Applying beauty effects**

You can select a filter effect and also modify your facial features, such as your skin tone or face shape, before taking a self-portrait.

- 1 On the preview screen, tap ::\.
- 2 Select a filter effect or beauty effects and take a photo.

#### Video mode

The camera adjusts the shooting options automatically based on the surroundings to record videos easily.

On the shooting modes list, tap **VIDEO**.

#### Pro mode

Capture photos while manually adjusting various shooting options, such as exposure value and ISO value.

On the shooting modes list, tap **PRO**. Select options and customise the settings, and then tap to take a photo.

#### **Available options**

• Select an ISO value. This controls camera light sensitivity. Low values are for stationary or brightly lit objects. Higher values are for fast-moving or poorly lit objects. However, higher ISO settings can result in noise in photos.



If the shutter speed is set manually, you cannot set the ISO setting to AUTO.

- Adjust the shutter speed. A slow shutter speed allows more light in, so the photo becomes brighter. This is ideal for photos of scenery or photos taken at night. A fast shutter speed allows less light in. This is ideal for taking photos of fast-moving subjects. You can select an aperture value that will determine the brightness and depth of field. Tap F1.5 or F2.4.

- WB: Select an appropriate white balance, so images have a true-to-life colour range. You can set the colour temperature.
- Change the exposure value. This determines how much light the camera's sensor receives. For low-light situations, use a higher exposure.



If the shutter speed is set manually, you cannot change the exposure value. The exposure value will change and be displayed based on the shutter speed setting.

## Food mode

Take photos of food with more vibrant colours.

- 1 On the shooting modes list, tap **FOOD**.
- 2 Tap the screen and drag the circular frame over the area to highlight.

The area outside the circular frame will be blurred.

To resize the circular frame, drag a corner of the frame.



- 3 Tap  $\otimes$  and drag the adjustment bar to adjust the colour tone.
- 4 Tap O to take a photo.

#### Panorama mode

Using panorama mode, take a series of photos and then stitch them together to create a wide scene.



To get the best shots using panorama mode, follow these tips:

- Move the camera slowly in one direction.
- Keep the image within the frame on the camera's viewfinder. If the preview image is out of the guide frame or you do not move the device, the device will automatically stop taking photos.
- Avoid taking photos of indistinct backgrounds, such as an empty sky or a plain wall.
- 1 On the shooting modes list, tap **PANORAMA**.
- 2 Tap and move the device slowly in one direction.
- 3 Tap to stop taking photos.

#### Slow motion mode

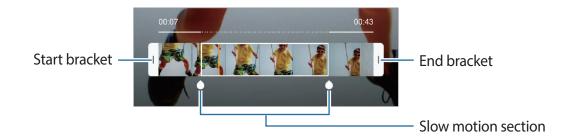
Record a video for viewing it in slow motion. You can specify sections of your videos to be played in slow motion.

- 1 On the shooting modes list, tap **SLOW MOTION**.
- 2 Tap to start recording.
- 3 When you are finished recording, tap lacksquare to stop.
- 4 On the preview screen, tap the preview thumbnail.

## 5 Tap Play slow motion video.

The fastest section of the video will be set as a slow motion section and the video will start playing. Up to two slow motion sections will be created based on the video.

To edit the slow motion section, drag ♠ to the left or right.



## Hyperlapse mode

Record scenes, such as passing people or cars, and view them as fast-motion videos.

- 1 On the shooting modes list, tap **HYPERLAPSE**.
- 2 Tap 🕞 and select a frame rate option.

  If you set the frame rate to Auto, the device will automatically adjust the frame rate according to the changing rate of the scene.
- 3 Tap to start recording.
- 4 Tap to finish recording.
- 5 On the preview screen, tap the preview thumbnail and tap **Play hyperlapse** to view the video.

#### Wide selfie mode

Take a wide self-portrait and include as many people in the photo as possible to avoid leaving people out.

- 1 On the shooting modes list, tap **WIDE SELFIE**.
- 2 Face the front camera lens.
- 3 Tap O to take a photo.

  Alternatively, show your palm to the front camera. After recognising your palm, a countdown timer will appear. When the time is up, the device will take a photo.
- 4 Slowly swivel the device left and then right or vice versa to take a wide self-portrait.

  The device will take additional photos when the white frame moves to each end of the viewfinder window.





- · Make sure to keep the white frame inside the viewfinder window.
- The subjects should remain still while taking wide self-portraits.
- The top and bottom parts of the image displayed on the preview screen may be cut out of the photo depending on the shooting conditions.

## **Customising camera settings**

#### Options for current shooting mode

On the preview screen, use the following options.



The available options may vary depending on the shooting mode.

- X: Activate or deactivate the flash.
- GF: Select the length of the delay before the camera automatically takes a photo.
- 🔾 : Apply beauty effects or a filter effect.
- C<sub>A</sub>: Select a frame rate.
- 334: Select an aspect ratio for photos.
- E: Set the device to take a video clip for a few seconds before tapping .
- 916 : Select an aspect ratio for videos.
- ② : Select a metering method. This determines how light values are calculated. ②

  Centre-weighted uses the light in the centre portion of the shot to calculate the exposure of the shot. [○] Spot uses the light in a concentrated centre area of the shot to calculate the exposure of the shot. [◆] Matrix averages the entire scene.
- IIII: Change the focus area in auto focus mode. IIII Multi focuses on several areas within the frame. Multiple rectangles will appear to indicate the focused areas. Centre AF focuses on the centre within the frame.
- (a): In **FOOD** mode, focus on a subject inside the circular frame and blur the image outside the frame.
- igoplus: In **FOOD** mode, adjust the colour tone.
- 📋 : Activate or deactivate the Dual capture feature.
- (a): Activate or deactivate the motion detection feature when recording super slow-mo videos.
- $\vdots_{02}$ : Change the recording time of super slow-mo videos.

#### **Camera settings**

On the preview screen, tap (3). Some options may not be available depending on the shooting mode.

#### **Intelligent features**

- Scene optimiser: Set the device to adjust the colour settings automatically depending on the subject or scene.
- Scan QR codes: Enable or disable the QR code reader.

#### **Pictures**

- Rear picture size: Select a resolution for photos you want to take with the rear camera.
   Using a higher resolution will result in higher quality photos, but they will take up more memory.
- Front picture size: Select a resolution for photos you want to take with the front camera. Using a higher resolution will result in higher quality photos, but they will take up more memory.
- Hold Shutter button to: Select an action to perform when you tap and hold the camera button.
- Save RAW copies: Set the device to save photos as uncompressed RAW files (DNG file format) in pro mode. RAW files retain all of a photo's data for the best image quality, but they will take up more memory.



When using the **Save RAW copies** feature, each photo is saved in two formats, DNG and JPG.

#### **Videos**

- Rear video size: Select a resolution for videos you want to take with the rear camera.
   Using a higher resolution will result in higher quality videos, but they will take up more memory.
- Front video size: Select a resolution for videos you want to take with the front camera. Using a higher resolution will result in higher quality videos, but they will take up more memory.

Advanced recording options: Set the device to use an advanced recording option.
 If you activate the High efficiency video feature, you can record videos in the High Efficiency Video Codec (HEVC) format. Your HEVC videos will be saved as compressed files to conserve the device's memory.



- You cannot play the HEVC videos on other devices or share them online.
- Super slow motion and slow motion videos cannot be recorded in the HEVC format.
- Super Slow-mo: Select how you want to record super slow motion videos.
- **Video stabilisation**: Activate anti-shake to reduce or eliminate blurry image resulting from camera shake while recording a video.



When the **Tracking auto-focus** feature is activated, you cannot use this feature.

#### **Useful features**

- HDR (rich tone): Take photos with rich colours and reproduce details even in bright and dark areas.
- Tracking auto-focus: Set the device to track and automatically focus on a selected subject. When you select a subject on the preview screen, the device will focus on the subject even if the subject is moving or you change the camera's position.



- When this feature is activated, you cannot use the Video stabilisation feature.
- Tracking a subject may fail in the following conditions:
  - The subject is too big or too small.
  - The subject moves excessively.
  - The subject is backlit or you are shooting in a dark place.
  - Colours or patterns on the subject and the background are the same.
  - The subject includes horizontal patterns, such as blinds.
  - The camera shakes excessively.
  - The video resolution is high.
  - When zooming in or out using the 2x optical zoom.
- **Pictures as previewed**: Set the device to save photos as they appear on the preview screen when taken with the front camera without flipping them.

- **Grid lines**: Display viewfinder guides to help composition when selecting subjects.
- Location tags: Attach a GPS location tag to the photo.



- GPS signal strength may decrease in locations where the signal is obstructed, such as between buildings or in low-lying areas, or in poor weather conditions.
- Your location may appear on your photos when you upload them to the Internet. To avoid this, deactivate the location tag setting.
- Shooting methods: Select a shooting method for taking a photo or recording a video.
- Storage location: Select the memory location for storage. This feature will appear when you insert a memory card.
- Quick launch: Set the device to launch the camera by pressing the Power key twice quickly.



This feature may not be available depending on the region or service provider.

- Reset settings: Reset the camera settings.
- Contact us: Ask questions or view frequently asked questions. Refer to Samsung Members for more information.
- About Camera: View the Camera app version and legal information.

# **Gallery**

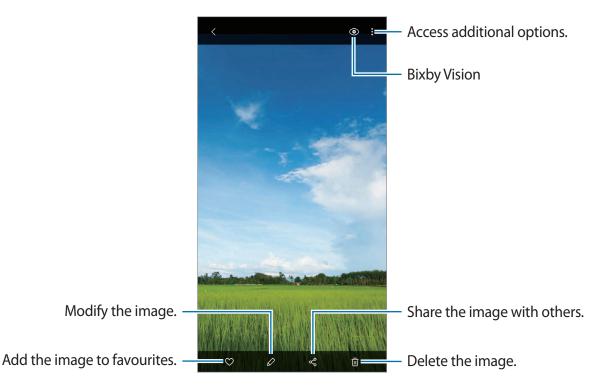
## Introduction

View images and videos stored in your device. You can also manage images and videos by album or create stories.

## Viewing images

1 Launch the **Gallery** app and tap **Pictures**.

## 2 Select an image.





You can create a movie, animated GIF, or collage from multiple images. On the list, tap or tap  $\bullet \to \mathsf{Create}$  GIF or  $\mathsf{Create}$  collage, and then select images.

## Searching for images

Launch the **Gallery** app and tap  $\bigcirc$  to view images sorted by category, such as types, locations, or documents.

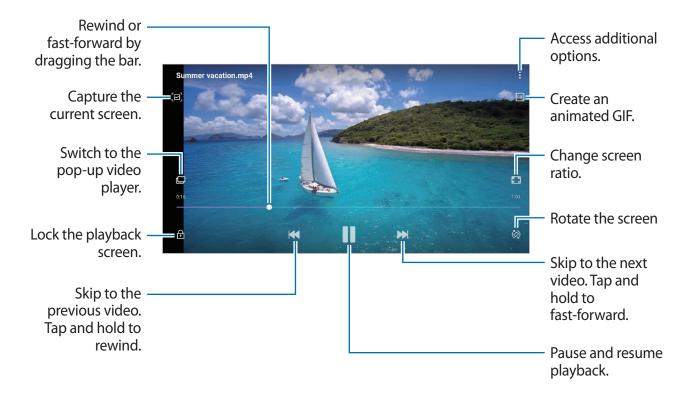
To search for images by entering keywords, tap the search field.

## Viewing photos taken with the Dual capture feature

View the close-up photo and the wide angle photo taken with the Dual capture feature. Launch the **Gallery** app, select a photo taken with the Dual capture feature, and then tap **Close-up** or **Wide angle**.

## Viewing videos

- Launch the **Gallery** app and tap **Pictures**.
- 2 Select a video to play.
- Tap **Play video** to play the video.



Drag your finger up or down on the left side of the playback screen to adjust the brightness, or drag your finger up or down on the right side of the playback screen to adjust the volume. To rewind or fast-forward, swipe to the left or right on the playback screen.

## Using the Video enhancer feature

Enhance the image quality of your videos to enjoy brighter and more vivid colours. Launch the **Settings** app, tap **Advanced features**, and then tap the **Video enhancer** switch to activate it.



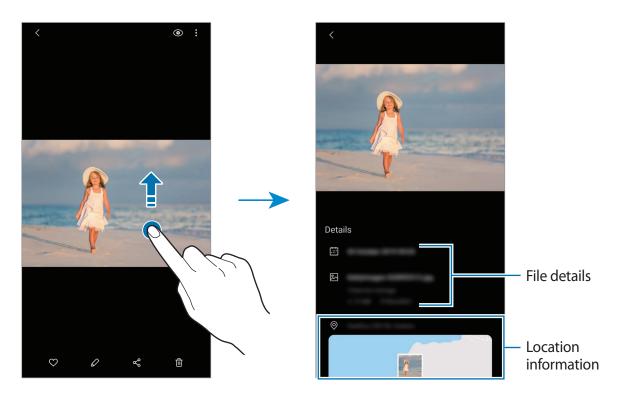
- This feature is only available in some apps.
- Using this feature will increase battery consumption.

## Viewing the details of images and videos

You can view file details, such as people, location, and basic information. If there is auto created content, such as a story or a GIF, the content will also be displayed.

While viewing an image or on the video preview screen, drag upwards on the screen. File details will appear.

You can also view related content by tapping information on the screen.



## Viewing albums

You can view your images and videos sorted by folders or albums. The movies, animated GIFs, or collages that you have created will also be sorted in your folders on the albums list.

Launch the Gallery app, tap Albums, and then select an album.

## **Hiding albums**

You can hide albums.



You cannot hide albums created by default, such as the **Camera** and **Screenshots** albums.

1 Launch the **Gallery** app and tap **Albums**.

Apps and features

- 2 Tap  $\rightarrow$  Hide or unhide albums.
- 3 Tap an album switch to hide.

## **Viewing stories**

When you capture or save images and videos, the device will read their date and location tags, sort the images and videos, and then create stories. To create stories automatically, you must capture or save multiple images and videos.

Launch the Gallery app, tap Stories, and then select a story.

## **Creating stories**

Create stories with various themes.

- 1 Launch the Gallery app and tap Stories.
- **2** Tap  $\rightarrow$  Create story.
- 3 Enter a title for the story and tap **Create**.
- 4 Tick images or videos to include in the story and tap **Done**.

To add images or videos to a story, select a story and tap  $\longrightarrow$  Add.

To remove images or videos from a story, select a story, tap  $\stackrel{\bullet}{\bullet} \to Edit$ , tick images or videos to remove, and then tap **Remove from story**.

## **Deleting stories**

- 1 Launch the **Gallery** app and tap **Stories**.
- 2 Tap and hold a story to delete, and tap **Delete**.

## **Sharing albums**

Create albums and share them with your family and friends saved in your contacts. They can view shared albums on devices signed in to their Samsung account, such as smartphones, TVs, or refrigerators.



- To use this feature, your phone number must be verified.
- To use this feature, you must register and sign in to your Samsung account.
- You may incur additional charges when sharing files via the mobile network.

## Creating albums to share

- 1 Launch the **Gallery** app and tap **Shared**.
- 2 Tap Create shared album.

When using this feature for the first time, you must first agree to the terms and conditions of Samsung Social.

- 3 Enter a title for the album and tap Create.
- 4 Select a group to share with.
- **5** Tap **OK**.

The recipients will receive a notification.

## Adding images or videos to an album

- 1 Launch the Gallery app and tap Shared.
- 2 Select an album to add images or videos.
- 3 Tap + and tick images or videos to add.
- 4 Tap Done.

## Syncing images and videos with Samsung Cloud

When you sync your **Gallery** app with Samsung Cloud, photos and videos you take will also be saved in Samsung Cloud. You can view images and videos saved in Samsung Cloud in your **Gallery** app and from other devices.

Launch the **Gallery** app, tap • → **Settings**, and then tap the **Cloud sync** switch to activate it. The **Gallery** app and Samsung Cloud will be synced.

## **Deleting images or videos**

### Deleting an image or a video

Select an image or a video and tap  $\dot{\text{m}}$  at the bottom of the screen.

## Deleting multiple images and videos

- 1 On the Gallery screen, tap and hold an image or a video to delete.
- 2 Tick the images or videos to delete.
- 3 Tap Delete.

# **Always On Display**

You can view information, such as the clock or calendar, or control music playback on the screen when it is turned off.

You can also check notifications for new messages or missed calls.



- The brightness of the Always On Display may change automatically depending on the lighting conditions.
- If the sensor at the top of the device is covered for a certain period, the Always On Display will turn off.

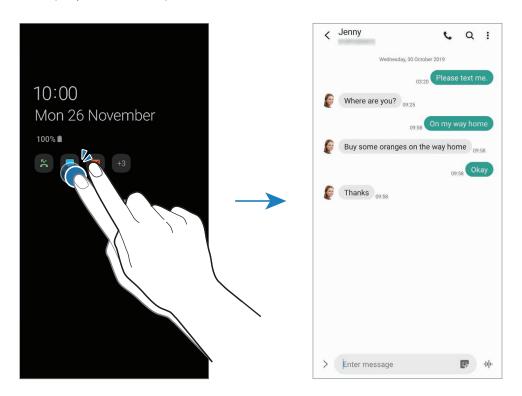
#### Setting how to display the Always On Display

You can select how to display the Always On Display. The Always On Display can be set to appear continuously or only appear when tapping the screen while it is turned off. Also, you can set the time to display the Always On Display.

Launch the **Settings** app, tap **Lock screen** → **Always On Display**, and then select a mode you want.

## Opening notifications on the Always On Display

When you receive message, missed call, or app notifications, notification icons will appear on the Always On Display. Double-tap a notification icon to view its notification.





If the screen is locked, you must unlock it to view notifications.

### Controlling music playback on the Always On Display

You can control music playback on the Always On Display.

- 1 Launch the **Settings** app, tap **Lock screen** → **FaceWidgets**, and then tap the **Music** switch to activate it.
- 2 To control music playback on the Always On Display, double-tap the clock.
- 3 Swipe to the left or right on the clock to move to the music controller.
- 4 Tap the icons to control the playback.

## Displaying an image to the Always On Display

You can display an image on the Always On Display. You can also display an animated GIF.

- 1 Launch the Settings app  $\rightarrow$  Lock screen  $\rightarrow$  Clock style  $\rightarrow$  Always On Display.
- 2 Drag the types list to the left and select the type with an image on it.
- 3 Tap + and select an image.
  To insert an animated GIF, tap GIF and select a file.
- 4 Tap Done.

### **Deactivating the Always On Display feature**

Launch the **Settings** app, tap **Lock screen**, and then tap the **Always On Display** switch to deactivate it.

# **Edge screen**

## Introduction

You can quickly access your favourite apps and features from the Edge panels.

## Using the Edge panels

Drag the Edge panel handle towards the centre of the screen.

If the Edge panel handle is not visible, launch the **Settings** app, tap **Display**  $\rightarrow$  **Edge screen**, and then tap the **Edge panels** switch to activate it.



#### **Editing the Edge panels**

Select panels to display on the Edge screen or edit them.

- 1 Drag the Edge panel handle towards the centre of the screen.
- 2 Tap 🏚 to open the Edge panel settings screen.
- 3 Tick Edge panels to display.

To edit a panel, tap **Edit**.

To download additional panels, tap Galaxy Store.

To rearrange the panels, tap  $\stackrel{\bullet}{\cdot} \rightarrow$  **Reorder** and drag  $\langle \rangle$  to another location.

## Setting the Edge panel handle

You can change the location, size, transparency, or vibration settings of the handle.

## Apps edge

Quickly launch frequently used apps.

- 1 Drag the Edge panel handle towards the centre of the screen.
- 2 On the Apps edge panel, select an app to launch it.

## **Editing the Apps edge panel**

- To add an app, tap + on the panel and tap an app from the apps list.
- To create a folder on the panel, tap + on the panel, tap and hold an app from the apps list, and then drag it over another app on the Apps edge panel. Drop the app when a folder frame appears around the apps.
- To delete an app, tap and hold an app on the panel and drag it to Remove at the top of the panel.
- To change the order of apps, tap and hold an app and drag it to another location.



You can also edit the Apps edge panel by tapping Edit.

#### Adding app pairs

Add two frequently used apps, such as a video player and a messenger app, to the Apps edge panel to launch them together in the split screen view with a single tap. For more information about the split screen view, refer to Split screen view.

- 1 Drag the Edge panel handle towards the centre of the screen.
- 2 On the Apps edge panel, tap  $+ \rightarrow$  Create App pair.
- 3 Select two apps from the list.
  The first app will appear at the top and the second app will appear at the bottom when opened in the split screen view.
- 4 Tap Done.

## **Edge lighting**

You can set the device to light up the edges of the screen and display a pop-up window when you receive notifications, such as new messages.

When a pop-up window appears while using an app, drag the window downwards to quickly view the content and perform available actions.

#### Managing notifications to display as the edge lighting

- 1 Launch the **Settings** app and tap **Display**  $\rightarrow$  **Edge screen**  $\rightarrow$  **Edge lighting**.
- 2 Tap **Choose apps** and tap the switches next to apps to receive notifications as the edge lighting.

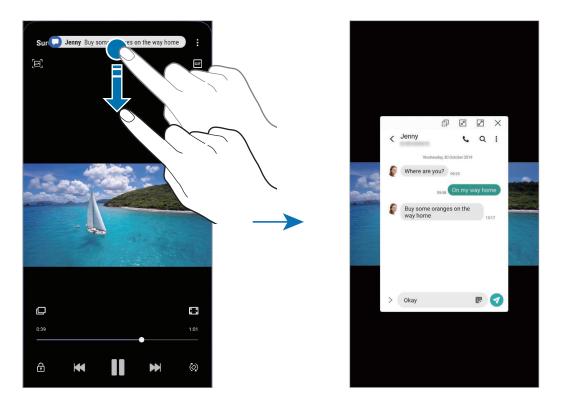


Some notifications may not display as the edge lighting depending on notification types.

#### Viewing notifications via the pop-up window

When you receive a notification with edge lighting, you can quickly view its content and perform available actions by opening the pop-up window. For example, if you receive a message while watching a video or playing a game, you can view the message and reply to it without switching the screen.

When you receive a notification with edge lighting while using an app, drag the notification downwards.





This feature is only available to apps that support the Multi window and edge lighting features. To view supported apps, launch the **Settings** app, tap **Display**  $\rightarrow$  **Edge** screen  $\rightarrow$  **Edge lighting**  $\rightarrow$  **Choose apps**.

# Multi window

## Introduction

Multi window lets you run two apps at the same time in the split screen view. You can also run multiple apps at the same time in the pop-up view.



Some apps may not support this feature.



Split screen view



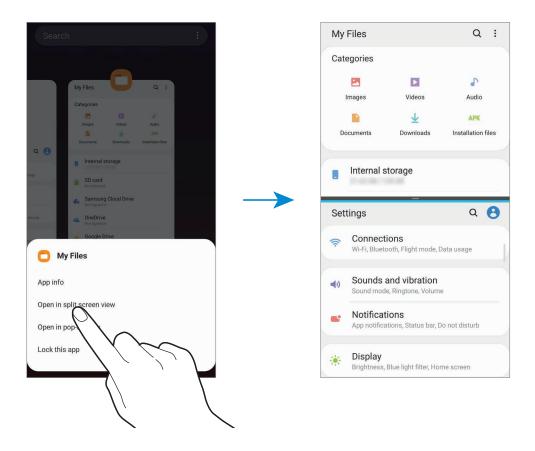
Pop-up view

## Split screen view

- 1 Tap the Recents button to open the list of recently used apps.
- 2 Swipe to the left or right, tap an app's icon, and then tap **Open in split screen view**. The selected app will launch in the upper window.

3 On the lower window, swipe left or right to select another app to launch.

To launch apps not on the list of recently used apps, tap the Home button or Back button and select an app.



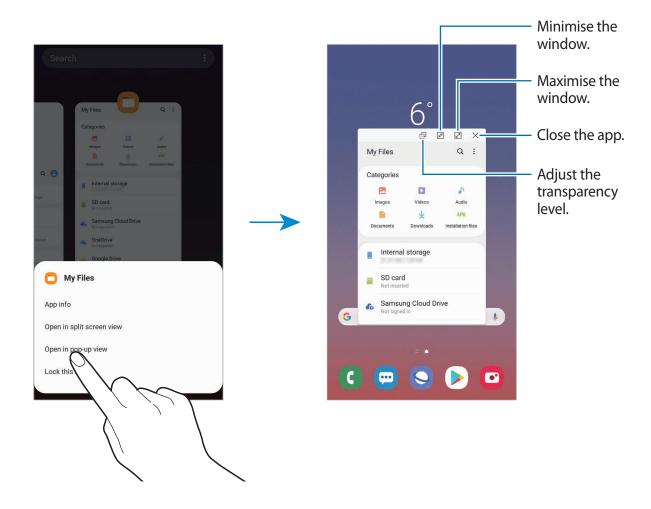
## Adjusting the window size

Drag the bar between the app windows up or down to adjust the size of the windows.

When you drag the bar between the app windows to the top or bottom edge of the screen, the window will be maximised.

# Pop-up view

- 1 Tap the Recents button to open the list of recently used apps.
- 2 Swipe to the left or right, tap an app's icon, and then tap **Open in pop-up view**. The app screen will appear in the pop-up view.



## Moving pop-up windows

To move a pop-up window, tap the window's toolbar and drag it to a new location.

## **Kids Home**

### Introduction

You can restrict children's access to certain apps, set their usage times, and configure settings to provide a fun and safe environment for children when they use the device.

## **Using Kids Home**

Open the notification panel, swipe downwards on the notification panel, and then tap (Kids Home) to activate it. When starting Kids Home for the first time or after performing a data reset, follow the on-screen instructions to complete the setup.

The Kids Home screen will appear.





Your preset screen lock method or your created PIN will be used when activating the **Parental control** feature or closing Kids Home.

# **Configuring settings for Kids Home**

On the Kids Home screen, tap  $\stackrel{\bullet}{\longrightarrow}$  **Parental control** and enter the PIN.

- Kid's name: Manage your child's profile.
- Set daily playtime: Restrict the usage time for Kids Home.
- Daily usage: View the daily usage time of Kids Home.
- Activity: View the activity history of Kids Home.
- Frequently contacted: View the frequently used contacts in Kids Home.
- My kid's creations: View the works created from the apps in Kids Home.
- Allowed content: Check the apps or content supported by Kids Home and add them.

# **Closing Kids Home**

To close Kids Home, tap the Back button or tap  $\stackrel{\bullet}{\bullet}$  — Close Kids Home, and then enter your PIN.

# Samsung Pay

## Introduction

Register frequently used cards to Samsung Pay, a mobile payment service, to make payments quickly and securely. Samsung Pay supports magnetic secure transmission (MST) as well as near field communication (NFC) to allow payment through standard credit card readers.

You can view more information, such as cards that support this feature at www.samsung.com/samsungpay.





- To use this feature, you must sign in to your Samsung account and register your biometric data. For more information, refer to Samsung account, Fingerprint recognition, and Iris recognition.
- To make payments with Samsung Pay, the device may be required a connection to a Wi-Fi or mobile network depending on the region.
- This app's availability and supported features may vary depending on the region or service provider.
- The procedures for the initial setup and card registration may vary depending on the region or service provider.
- Magnetic secure transmission (MST) may not be supported depending on the region.

## **Setting up Samsung Pay**

When running this app for the first time or restart it after performing a data reset, follow the on-screen instructions to complete the initial setup.

- 1 Launch the **Samsung Pay** app.
- 2 Sign in to your Samsung account.
- 3 Read and agree to the terms and conditions.
- 4 Register your fingerprint or irises to use when making payments.
- 5 Create a PIN to use when making payments.



This PIN will be used to verify various actions in Samsung Pay, such as making payments and unlocking the app.

# **Registering cards**

You can easily register cards by capturing their images with the camera.

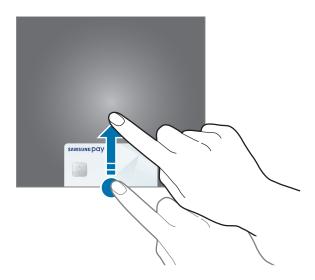


You can check the cards that support this feature from the Samsung Pay website (www.samsung.com/samsungpay).

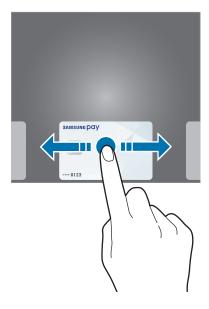
Launch the **Samsung Pay** app, tap **Add**, and then follow the on-screen instructions to complete your card registration.

# **Making payments**

1 Tap and hold a card image at the bottom of the screen and drag it upwards. Alternatively, launch the **Samsung Pay** app.



2 On the cards list, swipe to the left or right and select a card to use.



Apps and features

- 3 Scan your fingerprint or irises.

  Alternatively, enter the payment PIN you set when setting up the Samsung Pay.
- 4 Touch the back of your device to the card reader.When the card reader recognises the card information, the payment will be processed.



- Payments may not be processed depending on your network connection.
- The verification method for payments may vary depending on the card readers.

## **Cancelling payments**

You can cancel payments by visiting the place where you made them.

On the cards list, swipe to the left or right to select the card you used. Follow the on-screen instructions to complete payment cancellation.

# **Galaxy Wearable**

Galaxy Wearable is an app that allows you to manage your wearable devices. When you connect your device to the wearable device, you can customise the wearable device's settings and apps.

Open the Samsung folder and launch the Galaxy Wearable app.

Tap **Get started** to connect your device to the wearable device. Follow the on-screen instructions to finish the setup. Refer to the wearable device's user manual for more information about how to connect and use the wearable device with your device.

# Samsung Members

**Samsung Members** offers support services to customers, such as device problem diagnosis, and lets users submit questions and error reports. You can also share information with others in the Galaxy users' community or view the latest Galaxy news and tips. **Samsung Members** can help you solve any problems you might encounter while using your device.



- This app's availability and supported features may vary depending on the region or service provider.
- To submit your feedback or post your comments, you must register and sign in to your Samsung account. Refer to Samsung account for more information.

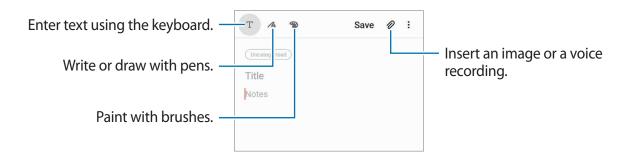
# **Samsung Notes**

### Introduction

Create notes by entering text from the keyboard or by handwriting or drawing on the screen. You can also insert images or voice recordings into your notes.

## **Creating notes**

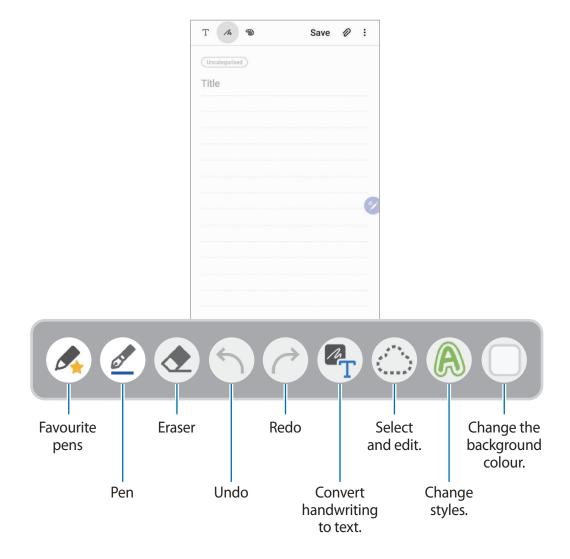
- 1 Launch the **Samsung Notes** app and tap **①**.
- 2 Select an input method from the toolbar at the top of the screen and compose a note.



When you are finished composing the note, tap **Save**.

# Composing notes with handwriting

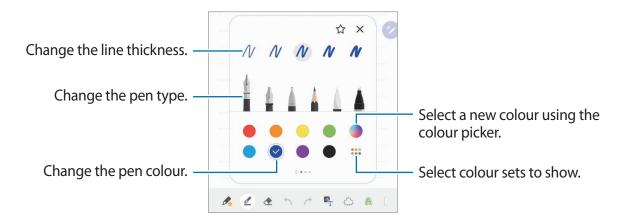
On the note composer screen, tap  $\bigwedge$  to write or draw with the S Pen.



## Changing the pen settings

When writing or drawing on the screen, tap 

to change the pen type, line thickness, or pen colour.



## Using the eraser

When you want to erase handwriting from a note, tap and select an area to erase. Alternatively, select an area while pressing and holding the S Pen button.

To change the eraser type, tap 
once more.

- Erase by line: Erase the line you select.
- Erase by area: Erase only the area you select. You can adjust the size of the eraser by dragging the size adjustment bar.
- Erase all: Clear the note.



Even with a smaller eraser, you may still not be able to precisely erase the intended part.

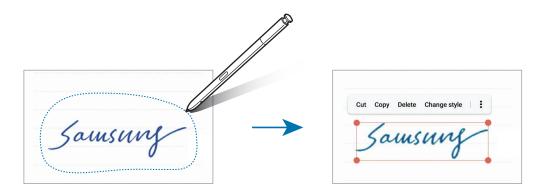
## **Editing handwritten notes**

Edit handwritten notes using various editing options, such as cutting, moving, resizing, or transforming.

 2 Tap or draw a line around the input to select.

To move the input to another location, select the input, and then drag it to a new location.

To change the size of the selection, tap the input and drag a corner of the frame that appears.



- 3 Edit the input using the available options.
  - Cut: Cut out the input. To paste it to another location, tap and hold the location, and then tap Paste.
  - Copy: Copy the input. To paste it to another location, tap and hold the location, and then tap Paste.
  - **Delete**: Delete the input.
  - Change style: Change styles. Select a colour or line thickness and tap Done.

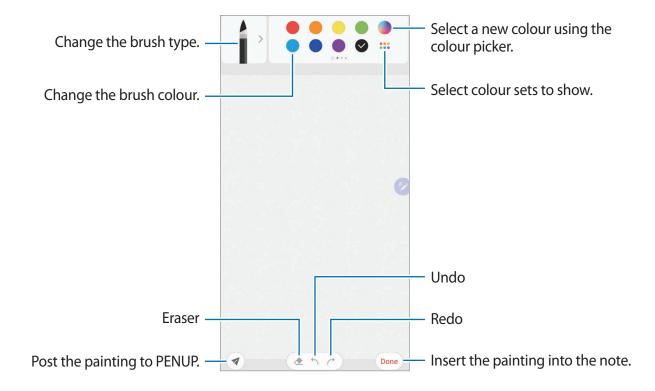
  - **To front**: Send the input to the front.
  - **To back**: Send the input to the back.

# Painting with brushes

On the note composer screen, tap **1** to paint with various brushes.

When you are finished, tap **Done** to insert your painting into the note.

You can post your painting to PENUP to share it with others.



## Inserting images into a note

On the note composer screen, tap  $\bigcirc \longrightarrow \text{Image}$ . Tap Camera  $\longrightarrow \bigcirc$  to take a photo, or tap Gallery or Other to select an image. The image will be inserted into your note.

# Inserting voice recordings into a note

On the note composer screen, tap  $\mathcal{O} \to \text{Voice recordings}$  to make a voice recording. Tap to stop recording. The voice recording will be inserted into your note.

## Pinning a note to the Home screen

Pin a note to the Home screen to quickly view it or open and edit it.

- 1 Launch the **Samsung Notes** app.
- 2 Select a note and tap  $\stackrel{\bullet}{\bullet} \rightarrow$  Pin to home screen. The note will be added to the Home screen.

# Saving a note as a reminder

You can save a note as a reminder to view the note later.

- 1 Launch the **Samsung Notes** app.
- 2 Select a note and tap → Send to Reminder.
  The note will be saved as a reminder.

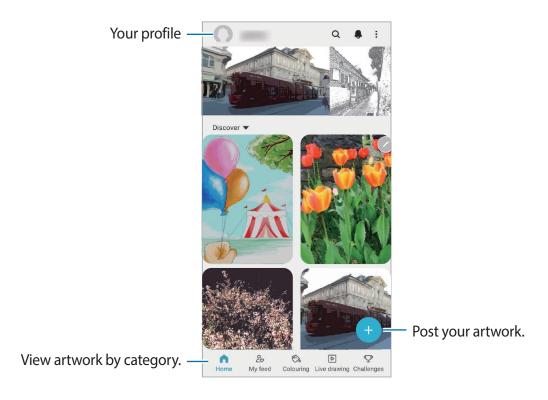
## **Deleting notes**

- 1 Launch the **Samsung Notes** app.
- 2 Tap and hold a note to delete.
  To delete multiple notes, tick more notes to delete.
- 3 Tap **Delete**.

## **PENUP**

## Introduction

PENUP is a social network service for sharing artwork drawn with the S Pen. Post your artwork, view others' artwork, and get useful drawing tips.





You can sign in to PENUP with your Samsung account or other SNS accounts.

# Posting your artwork

Post your artwork created in **Samsung Notes** or other drawing apps to PENUP.

- 1 Open the **Samsung** folder, launch the **PENUP** app, and then tap +.
- 2 To post artwork from **Gallery**, tap **From Gallery**, select your artwork to post, and then tap **Done**.

To post new artwork, tap **Drawing**, draw artwork, and then tap **Done**  $\rightarrow$  **Save and post**. To post your draft, tap **Drafts**, finish artwork, and then tap **Done**  $\rightarrow$  **Save and post**.

Apps and features

- 3 Enter a title, description, and hashtag.
- 4 Tap Post.

## Posting artwork from other apps

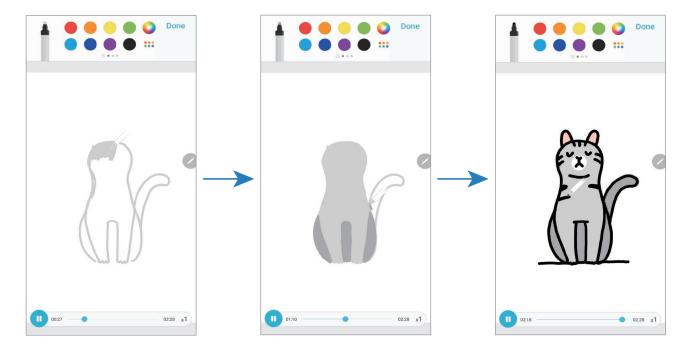
# **Colouring images**

Using the various colours, create your own artwork.

- 1 Open the **Samsung** folder, launch the **PENUP** app, and then tap **Colouring**.
- 2 Select an image.
- 3 Tap Start colouring.
- 4 When you are finished, tap **Done**.

# Live drawing

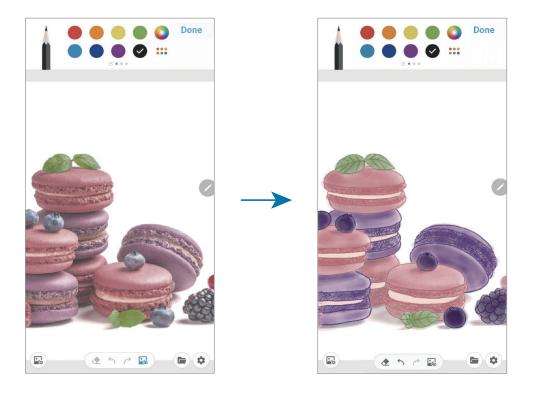
Draw along as you watch the live drawing video that shows the process of completing an image. You can easily draw a nice image.



- 1 Open the **Samsung** folder, launch the **PENUP** app, and then tap **Live drawing**.
- 2 Select an image.
- 3 Tap Learn to draw.
- 4 To draw on the image, tap 11 to pause the playback. You can change the playback speed by tapping x1.
- When you are finished, tap .
  The original image will be hidden and you can see the image you drew.

# **Photo drawing**

Draw images on your photos and keep them as your own works of art. Select a photo from **Gallery** or take a photo and draw on the photo. After completing your drawing, you can see the image you drew by hiding the photo.



- 1 Open the **Samsung** folder and launch the **PENUP** app.
- 2 Tap  $\bigoplus$   $\rightarrow$  Photo drawing.
- 3 Tap Take picture, take a photo, and then tap OK.
  Alternatively, tap Select from Gallery and select a photo.
- 4 Select the area to draw, adjust the transparency level, and then tap **Done**. The selected area will be added as a background.
- 5 Draw on the photo.
- 6 When you are finished, tap ...
  The photo will be hidden and you can see the image you drew.

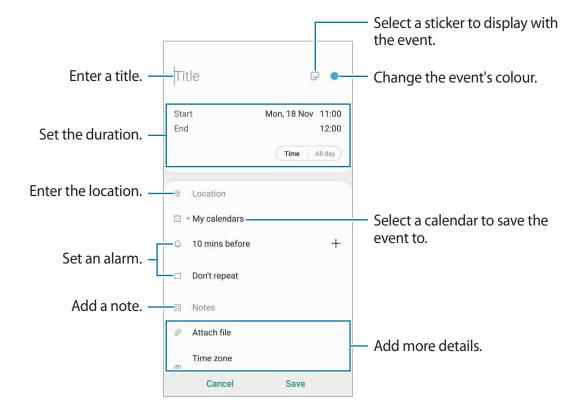
# **Calendar**

Manage your schedule by entering upcoming events or tasks in your planner.

## **Creating events**

- 1 Launch the **Calendar** app and tap or double-tap a date.

  If the date already has saved events or tasks in it, tap the date and tap .
- 2 Enter event details.



3 Tap Save to save the event.

## Adding a reminder

Launch the **Calendar** app and tap  $\longrightarrow$  **Reminder** to launch the **Reminder** app. Add a task on the **Reminder** app. Refer to Reminder for more information.

## Syncing events with your accounts

- 1 Launch the Settings app, tap Accounts and backup → Accounts and select the account to sync with.
- 2 Tap Sync account and tap the Calendar switch to activate it.
  For the Samsung account, tap → Sync settings and tap the Calendar switch to activate it.

To add accounts to sync with, launch the **Calendar** app and tap  $\equiv \to \Leftrightarrow \to \mathsf{Add}$  new account. Then, select an account to sync with and sign in. When an account is added, it will appear on the list.

# Samsung Health

## Introduction

Samsung Health helps you manage your wellness and fitness. Set fitness goals, check your progress, and keep track of your overall wellness and fitness. You can also compare your step count records with other Samsung Health users, compete with your friends, and view health tips.

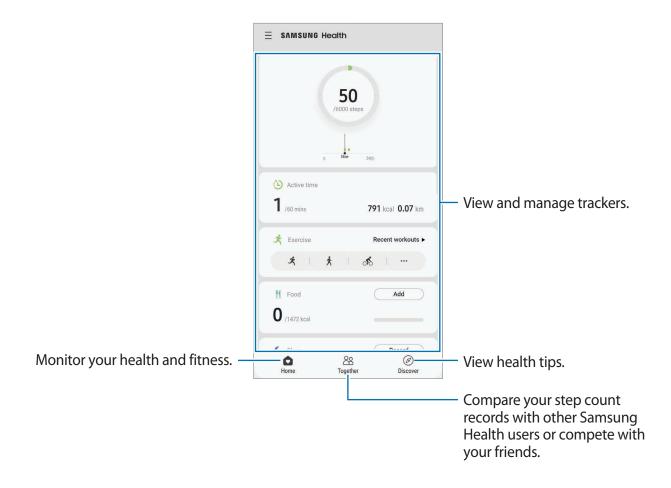
## **Using Samsung Health**

Open the **Samsung** folder and launch the **Samsung Health** app. When running this app for the first time or restart it after performing a data reset, follow the on-screen instructions to complete the setup.



Some features may not be available depending on the region.

To add items to the Samsung Health home screen, tap **Manage items** at the bottom of the trackers list and tap  $\bigoplus$  on the items to add.



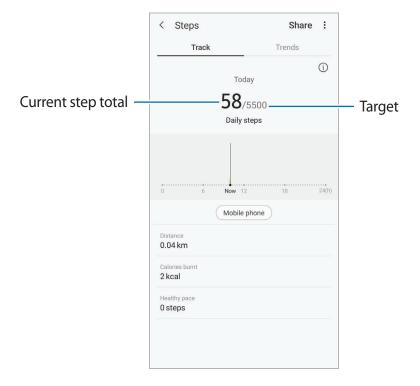
## **Together**

Together allows you to set up step count goals and compete with your friends. You can invite friends to walk together, set target step counts, compete in challenges, and view your ranking.

On the Samsung Health home screen, tap Together.

## **Steps**

The device counts the number of steps you take and measures the distance travelled. On the Samsung Health home screen, tap the steps tracker.





- You may experience a brief delay while the steps tracker monitors your steps and then displays your step count. You may also experience a brief delay before the pop-up window indicates that your goal has been reached.
- If you use the steps tracker while travelling by car or train, vibration may affect your step count.

#### **Heart rate**

Measure and record your heart rate.

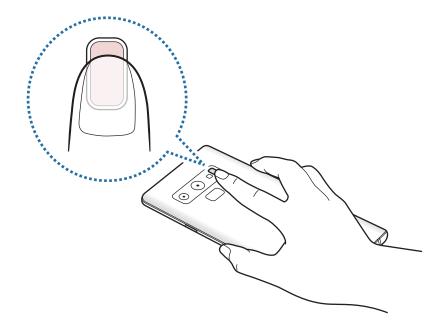


The heart rate tracker is intended for fitness and informational purposes only and is not intended for use in the diagnosis of disease or other conditions, or in the cure, mitigation, treatment, or prevention of disease.

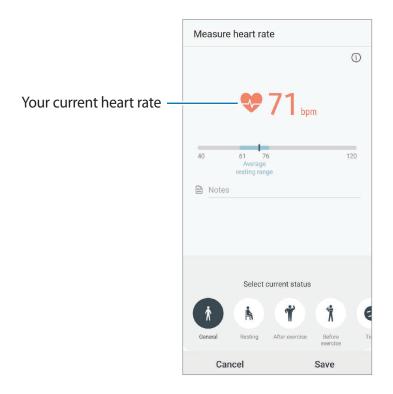
#### Be aware of following conditions before measuring your heart rate:

- Rest for 5 minutes before taking measurements.
- If the measurement is very different from the expected heart rate, rest for 30 minutes and then measure it again.
- During winter or in cold weather, keep yourself warm when measuring your heart rate.
- Smoking or consuming alcohol before taking measurements may cause your heart rate to be different from your normal heart rate.
- Do not talk, yawn, or breathe deeply while taking heart rate measurements. Doing so may cause your heart rate to be recorded inaccurately.
- Heart rate measurements may vary depending on the measurement method and the environment they are taken in.
- If the heart rate sensor is not working, make sure nothing is obstructing the sensor. If the heart rate sensor continues to have the same problem, visit a Samsung Service Centre.

- 1 On the Samsung Health home screen, tap **Measure** on the heart rate tracker to start measuring your heart rate.
- Place your finger on the heart rate sensor on the back of the device.



3 After a moment, your current heart rate will be displayed on the screen. Remove your finger from the sensor.



### **Additional information**

- Samsung Health is intended for fitness and wellness purposes only and is not intended
  for use in the diagnosis of disease or other conditions, or in the cure, mitigation,
  treatment, or prevention of disease.
- The available functions, features and addable applications for Samsung Health may vary from country to country due to different local laws and regulations. You should check the features and applications available in your specific region before use.
- Samsung Health applications and its service can be changed or discontinued without prior notice.
- The purpose for data collection is limited to providing the service that you have requested, including providing additional information to enhance your wellness, sync data, data analysis and statistics or to develop and provide better services. (But if you sign in to your Samsung account from Samsung Health, your data may be saved on the server for data backup purposes.) Personal information may be stored until the completion of such purposes. You can delete personal data stored by Samsung Health by using the Erase personal data option in the Settings menu. To delete any data you have shared with social networks or transferred to storage devices, you must delete them separately.
- You may share and/or sync your data with additional Samsung services or compatible
  third party services that you select, as well as with any of your other connected devices.
  Access to Samsung Health information by such additional services or third party devices
  will only be permitted with your express approval.
- You assume full responsibility for the inappropriate use of data shared on social networks or transmitted to others. Use caution when sharing your personal data with others.
- If the device is connected to measuring devices, verify the communication protocol to confirm proper operation. If you use a wireless connection, such as Bluetooth, the device may be affected by electronic interference from other devices. Avoid using the device near other devices that transmit radio waves.
- Please read Terms and Conditions and Privacy Policy of Samsung Health carefully before using it.

# **Voice Recorder**

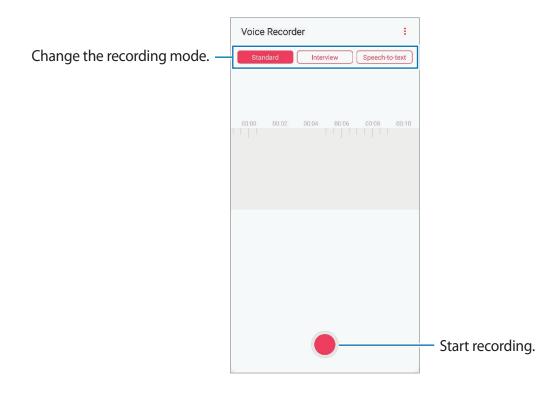
## Introduction

Use different recording modes for various situations. The device can convert your voice to text and distinguish between sound sources.

# Making voice recordings

- 1 Open the **Samsung** folder and launch the **Voice Recorder** app.
- 2 Tap 
  to start recording. Speak into the microphone.
  - Tap to pause recording.

While making a voice recording, tap **BOOKMARK** to insert a bookmark.



- 3 Tap to finish recording.
- 4 Enter a file name and tap Save.

## Changing the recording mode

Open the **Samsung** folder and launch the **Voice Recorder** app.

Select a mode from the top of the voice recorder screen.

- Standard: This is the normal recording mode.
- Interview: The device records sound from the top and the bottom of the device at a high volume while reducing the volume of sound from the sides.
- **Speech-to-text**: The device records your voice and simultaneously converts it to on-screen text. For best results, keep the device near your mouth and speak loudly and clearly in a quiet place.



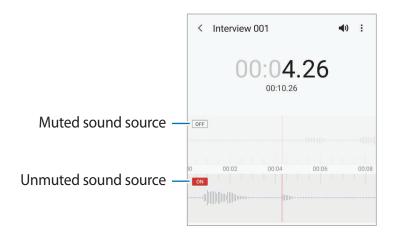
If the voice memo system language does not match the language you are speaking, the device will not recognise your voice. Before using this feature, tap the current language to set the voice memo system language.

# Playing selected voice recordings

When you review interview recordings, you can mute or unmute certain sound sources in the recording.

- 1 Open the **Samsung** folder and launch the **Voice Recorder** app.
- 2 Tap **List** and select a voice recording made in interview mode.
- To mute certain sound sources, tap on for the corresponding direction that sound is to be muted.

The icon will change to OFF and the sound will be muted.



# **My Files**

Access and manage various files stored in the device or in other locations, such as cloud storage services.

Open the **Samsung** folder and launch the **My Files** app.

View files that are stored in each storage.

To check for unnecessary data and free up the device's storage, tap **Analyse storage**.

To search for files or folders, tap Q.

# Clock

## Introduction

Set alarms, check the current time in many cities around the world, time an event, or set a specific duration.

## **Alarm**

Launch the Clock app and tap Alarm.

## **Setting alarms**

Tap + in the alarms list, set an alarm time, select the days on which the alarm will repeat, set other various alarm options, and then tap **Save**.

To open the keypad to enter an alarm time, tap the time input field.

To activate or deactivate alarms, tap the switch next to the alarm in the alarms list.

## **Stopping alarms**

Tap **Dismiss** to stop an alarm. If you have previously enabled the snooze option, tap **Snooze** to repeat the alarm after a specified length of time.

## **Deleting alarms**

Tap and hold an alarm, tick alarms to delete, and then tap **Delete**.

## **World Clock**

Launch the Clock app and tap World Clock.

## **Creating clocks**

Tap +, enter a city name or select a city from the map, and then tap Add.

To use the time zone converter, tap  $\longrightarrow$  Time zone converter.

## **Deleting clocks**

Tap and hold a clock, tick clocks to delete, and then tap **Delete**.

# **Stopwatch**

- 1 Launch the Clock app and tap Stopwatch.
- 2 Tap **Start** to time an event.

To record lap times while timing an event, tap Lap.

3 Tap **Stop** to stop timing.

To restart the timing, tap **Resume**.

To clear lap times, tap Reset.

### **Timer**

- Launch the Clock app and tap Timer.
   To add a frequently used timer, tap +, set the duration and name, and then tap Add.
- 2 Set the duration, and then tap Start.To open the keypad to enter the duration, tap the duration input field.
- 3 Tap **Dismiss** when the timer goes off.

# **Calculator**

Perform simple or complex calculations.

Launch the Calculator app.

Tap to display the scientific calculator.

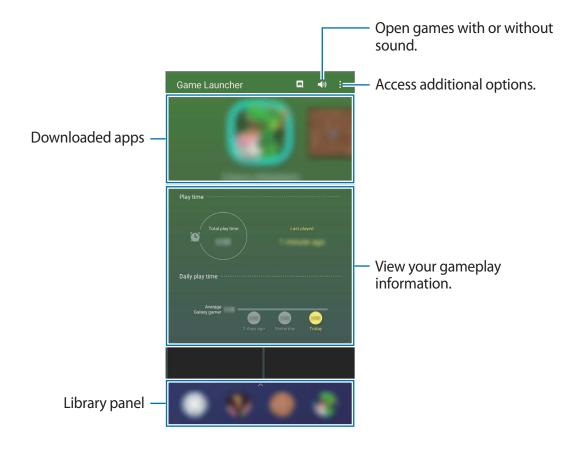
To see the calculation history, tap 🕒. To close the calculation history panel, tap 🔜.

To use the unit conversion tool, tap . You can convert various values, such as area, length, or temperature, into other units.

# **Game Launcher**

## Introduction

Game Launcher gathers your games downloaded from **Play Store** and **Galaxy Store** into one place for easy access. You can set the device to game mode to play games more easily.



## **Using Game Launcher**

1 Launch the **Game Launcher** app.



If **Game Launcher** does not appear, launch the **Settings** app, tap **Advanced features**, and then tap the **Game Launcher** switch to activate it.

2 Drag the Library panel upwards and tap a game.



Games downloaded from **Play Store** and **Galaxy Store** will be automatically shown on the Game Launcher screen. If you cannot see your games, drag the Library panel upwards and tap  $\stackrel{\bullet}{\bullet} \rightarrow$  **Add apps**.

## Removing a game from Game Launcher

Drag the Library panel upwards, tap and hold a game, and then tap **Remove from Game** Launcher.

# Changing the performance mode

You can change the game performance mode.

Launch the **Game Launcher** app, tap • → **Game performance**, and then select the mode you want.

- Focus on power saving: This saves battery power while playing games.
- Balanced: This balances the performance and the battery usage time.
- Focus on performance: This focuses on giving you the best possible performance while playing games.



Battery power efficiency may vary by game.

## **Game Booster**

### Introduction

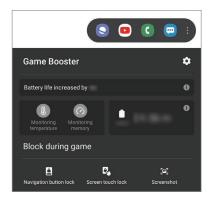
Game Booster lets you play games in a better environment and provides you with useful options via the Game Booster panel.

## **Using Game Booster**

To open the Game Booster panel while playing games, tap 😵 on the navigation bar. If the navigation bar is hidden, drag upwards from the bottom of the screen to show it.



Available options may vary depending on the game.



- **t**: Configure settings for Game Booster.
- Monitoring temperature / Monitoring memory: Set the device to automatically adjust settings to prevent device overheating and to stop apps running in the background to better manage memory.
- Block during game: Lock some features during games.
- Navigation button lock: Hide the buttons on the navigation bar. To display the buttons, tap on the navigation bar.
- Screen touch lock: Lock the touchscreen while the game is being played. To unlock the touchscreen, drag the lock icon in any direction.
- Screenshot: Capture screenshots.

## Launching apps in pop-up windows while playing games

You can launch apps in pop-up windows while playing a game.

Tap 🗞 and select an app from the apps list.

To edit the apps list, tap ...

# **SmartThings**

### Introduction

Connect to nearby devices, such as Bluetooth headsets or other smartphones, easily and quickly. You can also control and manage TVs, home appliances, and Internet of Things (IoT) products with your smartphone.

- **Connecting with nearby devices**: Connect with nearby devices, such as Bluetooth headsets or wearable devices, easily and quickly.
- Registering and controlling home appliances, TVs, and IoT products: Register smart refrigerators, washers, air conditioners, air purifiers, TVs, and Internet of Things (IoT) products on your smartphone, and view their status or control them from your smartphone's screen.
- **Receiving notification**: Receive notifications from connected devices on your smartphone. For example, when the laundry is finished, you can receive a notification on your smartphone.



- To use SmartThings, your smartphone and other devices must be connected to a Wi-Fi or mobile network.
- To fully use SmartThings, you must register and sign in to your Samsung account.
- The devices you can connect may vary depending on the region or service provider.
- Available features may differ depending on the connected device.
- Connected devices' own errors or defects are not covered by the Samsung warranty. When errors or defects occur on the connected devices, contact the device's manufacturer.

## Connecting to nearby devices

Connect to nearby devices, such as Bluetooth headsets, easily and quickly.



Connection methods may vary depending on the type of connected devices or the shared content.

- 1 Open the **Samsung** folder and launch the **SmartThings** app.
- 2 Tap Add device or tap  $+ \rightarrow$  Add device.
- 3 Select a device from the list and connect to it by following the on-screen instructions.

# Using home appliances, TVs, and IoT products

View the status of your smart appliances, TVs, and IoT products from your smartphone's screen. You can group devices by location and add rules to control the devices easily and conveniently.

## **Connecting devices**

- 1 Open the **Samsung** folder and launch the **SmartThings** app.
- 2 Tap Add device or tap  $+ \rightarrow$  Add device.
- 3 Select a device from the list.Or, tap Search and enter the device or model name.
- 4 Follow the on-screen instructions to register devices.

## Viewing and controlling connected devices

You can view and control the devices. For example, you can check the ingredients in your refrigerator or adjust the TV volume.

- 1 Open the **Samsung** folder, launch the **SmartThings** app. The list of connected devices will appear.
- 2 View the status of devices on the list.

To control the devices, select a device. When the device controller supplied with the selected device is downloaded, you can control the device.

## Adding devices and scenes by locations

Add devices by locations, view the list of devices in a same location, and control them. You can also add a scene to a location to control multiple devices at the same time.

### **Adding locations**

- 1 Launch the **SmartThings** app and tap  $\longrightarrow \longrightarrow Add$  **location**.
- 2 Enter the location name.

To set a location, tap **Geolocation** to select a location on the map and tap **Done**.

3 Tap Done.

Your location will be added.

To add devices to the location, tap **Add device** or  $+ \rightarrow$  **Add device** and follow the on-screen instructions to register devices.

The devices will be added to the location.

#### **Adding scenes**

Add a scene and register devices to it to control multiple devices at the same time with a single tap of a button or with a voice command.

- 1 Launch the **SmartThings** app.
- 2 Tap  $\longrightarrow$   $\longrightarrow$  and select a location.
- 3 Tap  $\longrightarrow$  Scenes  $\rightarrow$  Add scene.
- 4 Enter the scene name.
- 5 Tap  $\oplus$  under **Actions** to add actions to perform.
- 6 Tap Save.

### **Adding automations**

You can also set an automation to operate devices automatically depending on the preset time, the status of devices, and more.

For example, add an automation to turn on the audio automatically every day at 7:00 AM.

- 1 Launch the **SmartThings** app.
- 2 Tap  $\longrightarrow \bigvee$  and select a location.
- 3 Tap  $\longrightarrow$  Automations  $\rightarrow$  Add automation.
- 4 Tap + under If, set the activation conditions for the automation, and then tap Next.
- 5 Tap + under Then, set actions to perform, and then tap Done.
- 6 Enter the automation name and tap **OK**.

#### **Receiving notifications**

You can receive notifications from connected devices on your smartphone. For example, when the laundry is finished, you can receive a notification on your smartphone.

To set devices to receive notifications, open the **Samsung** folder, launch the **SmartThings** app, tap  $\longrightarrow \diamondsuit \to \mathsf{Notifications}$ , and then tap the switches next to the devices you want.

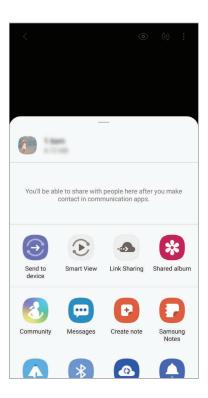
# **Sharing content**

Share content by using various sharing options. The following actions are an example of sharing images.



You may incur additional charges when sharing files via the mobile network.

- 1 Launch the **Gallery** app and select an image.
- 2 Tap  $\ll$  and select a sharing method, such as message and email.





When you have a communication or sharing history, the people you contacted will appear on the sharing options panel. To directly share content with them via the corresponding app, select a person's icon. If the feature is not activated, launch the **Settings** app, tap **Advanced features**, and then tap the **Direct share** switch to activate it.

### **Using additional features**

- **Link Sharing**: Share large files. Upload files to the Samsung storage server and share them with others via a Web link. To use this feature, your phone number must be verified.
- **Send to device**: Share content with nearby devices via Wi-Fi Direct or Bluetooth, or with SmartThings supported devices.
- Smart View: View your device's displayed content on a large screen by connecting your device to a screen mirroring-enabled TV or monitor.

# Samsung DeX

#### Introduction

Samsung DeX is a service that allows you to use your smartphone like a computer by connecting the smartphone to an external display, such as a TV or monitor, or to a computer. Accomplish tasks you want done on your smartphone quickly and easily on a large screen using a keyboard and mouse. While using Samsung DeX, you can simultaneously use your smartphone.





### **Connecting devices and starting Samsung DeX**

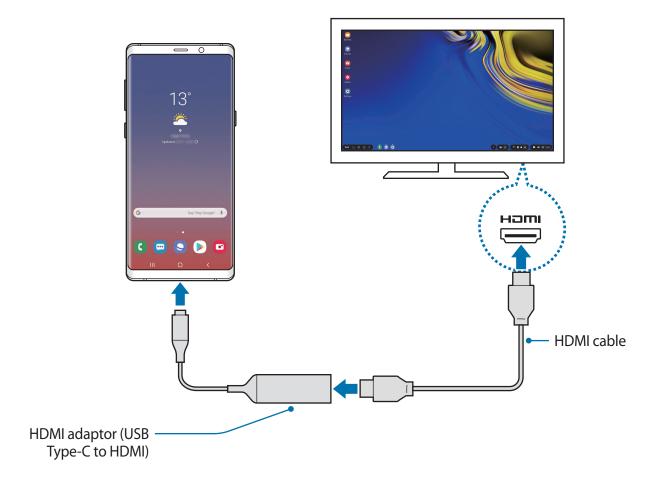
### Connecting to an external display

You can connect your smartphone to an external display using an HDMI adaptor (USB Type-C to HDMI) or DeX Pad. The following content is about how to use the HDMI adaptor.



- All accessories are sold separately.
- Use only official Samsung DeX supported accessories that are provided by Samsung. Performance problems and malfunctions caused by using accessories that are not officially supported are not covered by the warranty.
- Connect an HDMI adaptor to your smartphone.
- 2 Connect an HDMI cable to the HDMI adaptor and to a TV or monitor's HDMI port.
- 3 On your smartphone's screen, tap **Continue** → **Start**.

  Without changing your smartphone's screen, the Samsung DeX screen will appear on the connected TV or monitor.

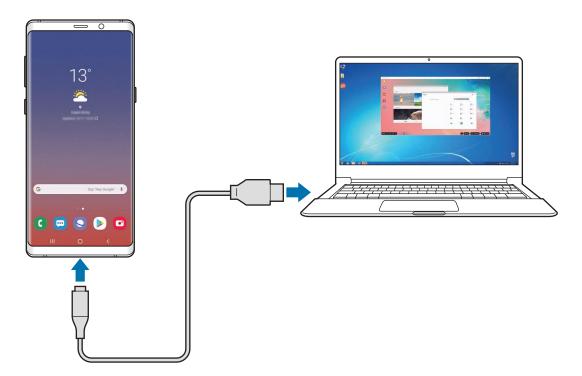


### Connecting to a computer

You can use Samsung DeX by connecting your smartphone to a computer using a USB cable.

- 1 Connect your smartphone to a computer using a USB cable.
- Open the notification panel, tap Samsung DeX.
  The screen for the app installation instructions will appear.
- 3 Follow the on-screen instructions to download the Samsung DeX app on the computer.
- 4 When the app is installed, connect your device to the USB cable again.

  The Samsung DeX screen will appear.



### **Controlling the Samsung DeX screen**

### Controlling on an external display

#### Controlling with an external keyboard and mouse

You can use a wireless keyboard/mouse. Refer to the respective device's manual for more information.



- You can set the mouse pointer to flow from the external display to the smartphone's screen. Launch the Settings app, select Samsung DeX → Mouse/ trackpad, and then select the Flow pointer to phone screen switch to activate it.
- You can also use the external keyboard on the smartphone's screen.

#### Using your smartphone as a touchpad

You can use your smartphone as a touchpad and operate it with your fingers.

On your smartphone, drag downwards from the top of the screen to open the notification panel and tap **Use your phone as a touchpad**.



- You can use the touchpad only when using Samsung DeX mode.
- If your smartphone's case has a front cover, open the front cover to use your smartphone as a touchpad. If the front cover is closed, the touchpad may not work properly.
- If your smartphone's screen turns off, press the Power key or hard press the Home button area to turn on the screen.



#### Using the screen keyboard

When you enter text to send messages, create notes, or perform other tasks, a screen keyboard will appear automatically on your smartphone's screen without connecting an external keyboard.

If the keyboard does not appear, select em on the quick access toolbar.

### Controlling on a computer

Control the Samsung DeX screen using the keyboard and mouse connected to the computer. You can move files easily between the computer and Samsung DeX by drag and drop, and you can also copy and paste text.



To view keyboard shortcuts available while using Samsung DeX, select  $\longrightarrow$  How to use  $\longrightarrow$  Use keyboard shortcuts  $\longrightarrow$  Keyboard shortcuts.

### **Using Samsung DeX**

Use your smartphone's features in an interface environment similar to a computer. You can multitask by running multiple apps simultaneously. You can also check your smartphone's notifications and status.





- The Samsung DeX screen layout may differ depending on the connected device.
- When starting or ending Samsung DeX, running apps may be closed.
- Some apps or features may not be available when using Samsung DeX.
- To adjust the screen settings, use the connected TV or monitor's display settings.
- To change the audio output, select on the status bar, select Media, and then select a device under Audio output.
- Favourite apps: Add frequently used apps to the Home screen and launch them quickly.
- Samsung DeX panel: You can use various useful features, such as locking the Samsung DeX screen, viewing how to use Samsung DeX, and switching to screen mirroring mode.
- Apps button: View and run your smartphone's apps.
- · Taskbar: View the apps that are currently running.
- Status bar: View your smartphone's notifications and status. Status icons may appear differently depending on your smartphone's status. When you select , the quick setting buttons will appear. You can activate or deactivate certain smartphone features using the quick setting buttons.
- Quick access toolbar: Use quick tools, such as screen keyboard, volume control, or search.

#### Using Samsung DeX and smartphone simultaneously

While using Samsung DeX, you can use separate apps on the external display or the computer and your smartphone simultaneously.

For example, while watching a video on the connected TV or monitor, you can create a note on your smartphone.

On the connected TV or monitor, launch an app to run on the Samsung DeX screen. Then, launch another app on your smartphone.

### Locking the Samsung DeX screen

If you want to lock the external display and your smartphone's screen while using Samsung DeX, select  $\rightarrow$  Lock DeX.



While using Samsung DeX, you cannot lock the external display and your smartphone's screen by pressing the Power key.

#### Transferring data with a computer

#### **Moving files**

On the Samsung DeX screen, click and hold a file to select it in the **My Files** app or **Gallery** app and drag it to the computer screen. On the computer screen, select a file and drag it to the Samsung DeX screen, the **My Files** app, or the **Gallery** app.

### Copying and pasting text

Using the keyboard shortcut keys or mouse, copy text on the Samsung DeX screen or computer screen and paste it in the text input field on the other screen.

### **Ending Samsung DeX**

When you disconnect your smartphone from the external display, such as a TV or monitor, or the computer, Samsung DeX will end.

Disconnect your smartphone from the HDMI adaptor or USB cable.

# Google apps

Google provides entertainment, social network, and business apps. You may require a Google account to access some apps.

To view more app information, access each app's help menu.



Some apps may not be available or may be labelled differently depending on the region or service provider.

#### **Chrome**

Search for information and browse webpages.

#### **Gmail**

Send or receive emails via the Google Mail service.

#### Maps

Find your location on the map, search the world map, and view location information for various places around you.

### **Play Music**

Discover, listen to, and share music on your device. You can upload music collections stored on your device to the cloud and access them later.

### **Play Movies & TV**

Purchase or rent videos, such as movies and TV programmes, from **Play Store**.

#### **Drive**

Store your content on the cloud, access it from anywhere, and share it with others.

Apps and features

### YouTube

Watch or create videos and share them with others.

### **Photos**

Search for, manage, and edit all your photos and videos from various sources in one place.

### Google

Search quickly for items on the Internet or your device.

#### Duo

Make a simple video call.

# Settings

### Introduction

Customise device settings. You can make your device more personalised by configuring various setting options.

Launch the **Settings** app.

To search for settings by entering keywords, tap Q.

### **Connections**

### **Options**

Change settings for various connections, such as the Wi-Fi feature and Bluetooth.

On the Settings screen, tap **Connections**.

- Wi-Fi: Activate the Wi-Fi feature to connect to a Wi-Fi network and access the Internet or other network devices. Refer to Wi-Fi for more information.
- **Bluetooth**: Use Bluetooth to exchange data or media files with other Bluetooth-enabled devices. Refer to Bluetooth for more information.
- **Phone visibility**: Allow other devices to find your device to share content with you. When this feature is activated, your device will be visible to other devices when they search for available devices using their Transfer files to device option.
- NFC and payment: Set the device to allow you to read near field communication (NFC) tags that contain information about products. You can also use this feature to make payments and buy tickets for transportation or events after downloading the required apps. Refer to NFC and payment for more information.

#### Settings

• **Flight mode**: Set the device to disable all wireless functions on your device. You can use only non-network services.



Follow the regulations provided by the airline and the instructions of aircraft personnel. In cases where it is allowed to use the device, always use it in flight mode.

- Mobile networks: Configure your mobile network settings.
- Data usage: Keep track of your data usage amount and customise the settings for the limitation. Set the device to automatically disable the mobile data connection when the amount of mobile data you have used reaches your specified limit.
  - You can also activate the data saver feature to prevent some apps running in the background from sending or receiving data. Refer to Data saver for more information.
- SIM card manager (dual SIM models): Activate your SIM or USIM cards and customise the SIM card settings. Refer to SIM card manager (dual SIM models) for more information.
- Mobile Hotspot and Tethering: Use the device as a mobile hotspot to share the
  device's mobile data connection with other devices when the network connection is not
  available. Connections can be made via Wi-Fi, USB, or Bluetooth. Refer to Mobile Hotspot
  and Tethering for more information.
- More connection settings: Customise settings to control other features. Refer to More connection settings for more information.

### Wi-Fi

Activate the Wi-Fi feature to connect to a Wi-Fi network and access the Internet or other network devices.



Turn off Wi-Fi to save the battery when not in use.

### Connecting to a Wi-Fi network

- 1 On the Settings screen, tap **Connections** → **Wi-Fi**, and then tap the switch to activate it.
- Select a network from the Wi-Fi networks list.
  Networks that require a password appear with a lock icon. Enter the password and tap Connect.



- Once the device connects to a Wi-Fi network, the device will reconnect to that
  network each time it is available without requiring a password. To prevent the
  device from connecting to the network automatically, tap next to the network
  and tap Forget.
- If you cannot connect to a Wi-Fi network properly, restart your device's Wi-Fi feature or the wireless router.

#### Wi-Fi Direct

Wi-Fi Direct connects devices directly via a Wi-Fi network without requiring an access point.

- 1 On the Settings screen, tap **Connections**  $\rightarrow$  **Wi-Fi**, and then tap the switch to activate it.
- 2 Tap Wi-Fi Direct.

The detected devices are listed.

If the device you want to connect to is not in the list, request that the device turns on its Wi-Fi Direct feature.

3 Select a device to connect to.

The devices will be connected when the other device accepts the Wi-Fi Direct connection request.

Settings

#### Sending and receiving data

You can share data, such as contacts or media files, with other devices. The following actions are an example of sending an image to another device.

- 1 Launch the **Gallery** app and select an image.
- 2 Tap  $\ll$   $\rightarrow$  Wi-Fi Direct and select a device to transfer the image to.
- Accept the Wi-Fi Direct connection request on the other device.

  If the devices are already connected, the image will be sent to the other device without the connection request procedure.

#### **Ending the device connection**

- 1 On the Settings screen, tap Connections → Wi-Fi.
- 2 Tap Wi-Fi Direct.
  The device displays the connected devices in the list.
- 3 Tap the device name to disconnect the devices.

#### **Bluetooth**

Use Bluetooth to exchange data or media files with other Bluetooth-enabled devices.



- Samsung is not responsible for the loss, interception, or misuse of data sent or received via Bluetooth.
- Always ensure that you share and receive data with devices that are trusted and properly secured. If there are obstacles between the devices, the operating distance may be reduced.
- Some devices, especially those that are not tested or approved by the Bluetooth SIG, may be incompatible with your device.
- Do not use the Bluetooth feature for illegal purposes (for example, pirating copies of files or illegally tapping communications for commercial purposes). Samsung is not responsible for the repercussion of illegal use of the Bluetooth feature.

### Pairing with other Bluetooth devices

1 On the Settings screen, tap **Connections** → **Bluetooth**, and then tap the switch to activate it.

The detected devices will be listed.

2 Select a device to pair with.

If the device you want to pair with is not on the list, set the device to enter Bluetooth pairing mode. Refer to the other device's user manuals.



Your device is visible to other devices while the Bluetooth settings screen is open.

3 Accept the Bluetooth connection request on your device to confirm.
The devices will be connected when the other device accepts the Bluetooth connection request.

#### Sending and receiving data

Many apps support data transfer via Bluetooth. You can share data, such as contacts or media files, with other Bluetooth devices. The following actions are an example of sending an image to another device.

- 1 Launch the **Gallery** app and select an image.

If your device has paired with the device before, tap the device name without confirming the auto-generated passkey.

If the device you want to pair with is not in the list, request that the device turns on its visibility option.

3 Accept the Bluetooth connection request on the other device.

### **Unpairing Bluetooth devices**

- 1 On the Settings screen, tap Connections → Bluetooth.
  The device displays the paired devices in the list.
- 2 Tap 🛊 next to the device name to unpair.
- 3 Tap Unpair.

### NFC and payment

Your device allows you to read near field communication (NFC) tags that contain information about products. You can also use this feature to make payments and buy tickets for transportation or events after downloading the required apps.



The device contains a built-in NFC antenna. Handle the device carefully to avoid damaging the NFC antenna.

### **Reading information from NFC tags**

Use the NFC feature to send images or contacts to other devices, and read product information from NFC tags.

- 1 On the Settings screen, tap **Connections** and tap the **NFC and payment** switch to activate it.
- Place the NFC antenna area on the back of your device near an NFC tag.
  The information from the tag appears.





Ensure that the device's screen is turned on and unlocked. Otherwise, the device will not read NFC tags or receive data.

#### Making payments with the NFC feature

Before you can use the NFC feature to make payments, you must register for the mobile payment service. To register or get more information about the service, contact your service provider.

- 1 On the Settings screen, tap **Connections** and tap the **NFC and payment** switch to activate it.
- 2 Touch the NFC antenna area on the back of your device to the NFC card reader.

To set the default payment app, open the Settings screen and tap **Connections**  $\rightarrow$  **NFC and payment**  $\rightarrow$  **Tap and pay**  $\rightarrow$  **PAYMENT**, and then select an app.



The payment services list may not include all available payment apps.

### Sending data with the NFC feature

Allow data exchange when your device's NFC antenna touches the other device's NFC antenna.

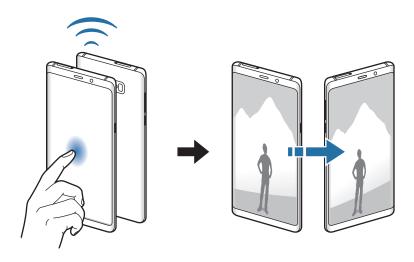
- 1 On the Settings screen, tap **Connections** → **NFC and payment** and tap the switch to activate it.
- 2 Tap the **Android Beam** switch to activate it.
- 3 Select an item and touch the other device's NFC antenna to your device's NFC antenna.

Settings

4 When **Touch to beam.** appears on the screen, tap your device's screen to send the item.



If both devices try to send data simultaneously, the file transfer may fail.

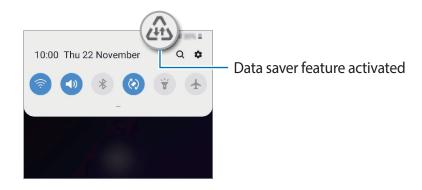


#### **Data saver**

Reduce your data usage by preventing some apps running in the background from sending or receiving data.

On the Settings screen, tap **Connections**  $\rightarrow$  **Data usage**  $\rightarrow$  **Data saver** and tap the switch to activate it.

When the data saver feature is activated, the  $\triangle$  icon will appear on the status bar.





To select apps to use data without restriction, tap **Allow app while Data saver on** and select apps.

### SIM card manager (dual SIM models)

Activate your SIM or USIM cards and customise the SIM card settings. Refer to Using dual SIM or USIM cards (dual SIM models) for more information.

On the Settings screen, tap **Connections** → **SIM card manager**.

- Calls: Select a SIM or USIM card for voice calls.
- Text messages: Select a SIM or USIM card for messaging.
- Mobile data: Select a SIM or USIM card for data services.
- Confirm SIM card for calls: Set the device to ask which SIM or USIM card to use for the next call when you make a call without using your preferred SIM or USIM card for calls.
- Dual SIM always on: Set the device to allow incoming calls from the other SIM or USIM card during a call.



When this feature is enabled, you may incur additional charges for call forwarding depending on the region or service provider.

### **Mobile Hotspot and Tethering**

Use the device as a mobile hotspot to share the device's mobile data connection with other devices when the network connection is not available. Connections can be made via Wi-Fi, USB, or Bluetooth.

On the Settings screen, tap **Connections**  $\rightarrow$  **Mobile Hotspot and Tethering**.



You may incur additional charges when using this feature.

- **Mobile Hotspot**: Use the mobile hotspot to share the device's mobile data connection with computers or other devices.
- **Bluetooth tethering**: Use Bluetooth tethering to share the device's mobile data connection with computers or other devices via Bluetooth.
- **USB tethering**: Use USB tethering to share the device's mobile data connection with a computer via USB. When connected to a computer, the device is used as a wireless modem for the computer.

#### Using the mobile hotspot

Use your device as a mobile hotspot to share your device's mobile data connection with other devices.

- 1 On the Settings screen, tap Connections → Mobile Hotspot and Tethering → Mobile Hotspot.
- 2 Tap the switch to activate it.

The sicon appears on the status bar. Other devices can find your device in the Wi-Fi networks list.

To set a password for the mobile hotspot, tap ♣ → Configure Mobile Hotspot and select the level of security. Then, enter a password and tap Save.

3 On the other device's screen, search for and select your device from the Wi-Fi networks list.



If the mobile hotspot is not found, on your device, set **Band** to **2.4 GHz**, tap • Onfigure Mobile Hotspot, and then deselect Hide my device.

4 On the connected device, use the device's mobile data connection to access the Internet.

### More connection settings

Customise settings to control other connection features.

On the Settings screen, tap **Connections**  $\rightarrow$  **More connection settings**.

- Nearby device scanning: Set the device to scan for nearby devices to connect to.
- **Printing**: Configure settings for printer plug-ins installed on the device. You can search for available printers or add one manually to print files. Refer to Printing for more information.
- **MirrorLink**: Use the MirrorLink feature to control your device's MirrorLink apps on the vehicle's head unit monitor. Refer to MirrorLink for more information.
- **Download booster**: Set the device to download files larger than 30 MB, faster via Wi-Fi and mobile networks simultaneously. Refer to Download booster for more information.

- **VPN**: Set up virtual networks (VPNs) on your device to connect to a school or company's private network.
- **Private DNS**: Use the reliable domain name system (DNS) for a school or company's internal private network instead of using the external hosting network. The DNS will be searched for and connected to automatically, or you can search for the DNS and connect to it manually.
- Ethernet: When you connect an Ethernet adaptor, you can use a wired network and configure network settings.

### **Printing**

Configure settings for printer plug-ins installed on the device. You can connect the device to a printer via Wi-Fi or Wi-Fi Direct, and print images or documents.



Some printers may not be compatible with the device.

### Adding printer plug-ins

Add printer plug-ins for printers you want to connect the device to.

- 1 On the Settings screen, tap Connections → More connection settings → Printing → Download plugin.
- 2 Search for a printer plug-in in **Play Store**.
- 3 Select a printer plug-in and install it.
- 4 Select the installed printer plug-in.

The device will automatically search for printers that are connected to the same Wi-Fi network as your device.

5 Select a printer to add.



To add printers manually, tap  $\stackrel{\bullet}{\longrightarrow}$  Add printer.

#### **Printing content**



Printing methods may vary depending on the content type.

#### MirrorLink

You can display your device's screen on the vehicle's head unit monitor.

Connect your device to a vehicle to control your device's MirrorLink apps on the vehicle's head unit monitor.

On the Settings screen, tap **Connections**  $\rightarrow$  **More connection settings**  $\rightarrow$  **MirrorLink**.



Your device is compatible with vehicles that support MirrorLink version 1.1 or higher.

#### Connecting your device to a vehicle via MirrorLink

When using this feature for the first time, connect the device to a Wi-Fi or mobile network.

- 1 Pair your device with a vehicle via Bluetooth.

  Refer to Pairing with other Bluetooth devices for more information.
- 2 Connect your device to the vehicle using a USB cable.
  When they are connected, access your device's MirrorLink apps on the head unit monitor.

### **Ending the MirrorLink connection**

Unplug the USB cable from your device and the vehicle.

#### **Download booster**

Set the device to download files larger than 30 MB, faster via Wi-Fi and mobile networks simultaneously. A stronger Wi-Fi signal will provide a faster download speed.

On the Settings screen, tap Connections  $\rightarrow$  More connection settings  $\rightarrow$  Download booster.



- This feature may not be supported by some devices.
- You may incur additional charges when downloading files via the mobile network.
- When you download large files, the device may heat up. If the device exceeds a set temperature, the feature will turn off.
- If network signals are unstable, the speed and performance of this feature may be affected.
- If the Wi-Fi and mobile network connections have significantly different data transfer speeds, the device may use only the fastest connection.
- This feature supports Hypertext Transmission Protocol (HTTP) 1.1 and Hypertext Transmission Protocol Secure (HTTPS). The feature cannot be used with other protocols, such as FTP.

### Sounds and vibration

### **Options**

Change settings for various sounds on the device.

On the Settings screen, tap **Sounds and vibration**.

- Sound mode: Set the device to use sound mode, vibration mode, or silent mode.
- · Vibrate while ringing: Set the device to vibrate and play a ringtone for incoming calls.
- Ringtone: Change the call ringtone.
- Notification sounds: Change the notification sound.
- Volume: Adjust the volume level for call ringtones, music and videos, system sounds, and notifications.

- **Vibration pattern**: Select a vibration pattern.
- **Vibration intensity**: Adjust the force of the vibration notification.
- **System sound/vibration control**: Set the device to sound or vibrate for actions, such as controlling the touchscreen.

### **Dolby Atmos (surround sound)**

Select a surround sound mode optimised for various types of audio, such as movies, music, and voice. With Dolby Atmos, you can experience moving audio sounds that flows all around you.

On the Settings screen, tap **Sounds and vibration**  $\rightarrow$  **Sound quality and effects**  $\rightarrow$  **Dolby Atmos**, tap the switch to activate it, and then select a mode.

### Separate app sound

Set the device to play media sound from a specific app on the connected Bluetooth speaker or headset separate from the sound of other apps.

For example, you can listen to the Navigation app through your device's speaker while listening to playback from the Music app through the vehicle's Bluetooth speaker.

- 1 On the Settings screen, tap **Sounds and vibration** → **Separate app sound** and tap the switch to activate it.
- 2 Select an app to play media sounds separately and tap the Back button.
- 3 Select a device for playing the selected app's media sound.

### **Notifications**

Change the notification settings.

On the Settings screen, tap **Notifications**.

- Suggest actions and replies: Set the device to suggest actions and replies for notifications.
- Show snooze option: Set whether to show the snooze option.
- App icon badges: Change the settings for app icon badges.
- **Do not disturb**: Set the device to mute incoming calls, notification sounds, and media, except for allowed exceptions.
- **Status bar**: Set the device to display only three recent notifications and whether to show the remaining battery level in percentage on the status bar.
- **LED indicator**: Set the device to turn on the LED indicator when you charge the battery, when you have notifications, or when you make voice recordings while the screen is turned off.
- Recently sent: View the apps that received recent notifications and change the notification settings. To customise notification settings for more apps, tap See all → ▼
   → All and select an app from the app list.

# **Display**

### **Options**

Change the display and the Home screen settings.

On the Settings screen, tap **Display**.

- Brightness: Adjust the brightness of the display.
- Adaptive brightness: Set the device to keep track of your brightness adjustments and apply them automatically in similar lighting conditions.
- Blue light filter: Activate the blue light filter and change the filter settings. Refer to Blue light filter for more information.

• Dark mode: Reduce eye strain by applying the dark theme when using the device at night or in a dark place.



The dark theme may not be applied in some apps.

- **Screen mode**: Change the screen mode to adjust the display's colour and contrast. Refer to Changing the screen mode or adjusting the display colour for more information.
- Font size and style: Change the font size and style.
- **Screen zoom**: Change the screen zoom setting.
- **Screen resolution**: Change the screen resolution. Refer to Screen resolution for more information.
- Full screen apps: Select apps to use with the full screen aspect ratio.
- **Screen timeout**: Set the length of time the device waits before turning off the display's backlight.
- **Home screen**: Change the size of the grid to display more or fewer items on the Home screen and more.
- **Edge screen**: Change the settings for the Edge screen. Refer to Edge screen for more information.
- Easy mode: Switch to easy mode to display larger icons and apply a simpler layout to the Home screen.
- **Navigation bar**: Change the navigation bar settings. Refer to Navigation bar (soft buttons) for more information.
- Accidental touch protection: Set the device to prevent the screen from detecting touch input when it is in a dark place, such as a pocket or bag.
- **Touch sensitivity**: Increase the touch sensitivity of the screen for use with screen protectors.
- **Screensaver**: Set the device to launch a screensaver when the device is charging. Refer to Screensaver for more information.

### Blue light filter

Reduce eye strain by limiting the amount of blue light emitted by the screen.



While you are watching HDR videos from HDR-exclusive video services, the blue light filter may not be applied.

- 1 On the Settings screen, tap **Display** → **Blue light filter**, and then tap the **Turn on now** switch to activate it.
- 2 Drag the adjustment bar to adjust the filter's opacity.
- 3 To set the schedule to apply the blue light filter to the screen, tap the **Turn on as scheduled** switch to activate it and select an option.
  - Sunset to sunrise: Set the device to apply the blue light filter at night and turn it off in the morning based on your current location.
  - Custom schedule: Set a specific time to apply the blue light filter.

### Changing the screen mode or adjusting the display colour

Select a screen mode suitable for viewing movies or images, or adjust the display colour to your preference. If you select the **Adaptive display** mode, you can adjust the display colour balance by colour value.

### Changing the screen mode

On the Settings screen, tap **Display**  $\rightarrow$  **Screen mode** and select a mode you want.

- Adaptive display: This optimises the colour range, saturation, and sharpness of your display. You can also adjust the display colour balance by colour value.
- AMOLED cinema: This is suitable for watching videos.
- AMOLED photo: This is suitable for viewing images.
- Basic: This is set as default and is suitable for general use.



- You can adjust the display colour only in Adaptive display mode.
- · Adaptive display mode may not be compatible with third-party apps.
- You cannot change the screen mode while applying the blue light filter.

### Optimising the full screen colour balance

Optimise the display colour by adjusting the colour tones to your preference.

When you drag the colour adjustment bar towards **Cool**, the blue colour tone will increase. When you drag the bar towards **Warm**, the red colour tone will increase.

- 1 On the Settings screen, tap **Display** → **Screen mode** → **Adaptive display**.
- 2 Adjust the colour adjustment bar under **White balance**. The colour balance of the screen will be optimised.

### Adjusting the screen tone by colour value

Increase or lower certain colour tones by adjusting the Red, Green, or Blue value individually.

- 1 On the Settings screen, tap **Display** → **Screen mode** → **Adaptive display**.
- 2 Tick Advanced settings.
- 3 Adjust the **R** (Red), **G** (Green), or **B** (Blue) colour bar to your preference. The screen tone will be adjusted.

### Screen resolution

Change the screen resolution. It is set to FHD+ by default. Higher resolutions make the display more vivid, however they will consume more battery power.

- 1 On the Settings screen, tap **Display**  $\rightarrow$  **Screen resolution**.
- Select a resolution option and tap Apply.Some currently running apps may close when you change the resolution.

#### Screensaver

You can set to display images as a screensaver when the screen turns off automatically. The screensaver will be displayed when the device is charging.

- 1 On the Settings screen, tap **Display** → **Screensaver**.
- 2 Select an option.
- 3 Tap 🛊 to select albums for displaying images.
- When you are finished, tap the Back button.
  To preview the selected option, tap Preview.



When you tap the screen while your screensaver is displayed, the screen will turn on.

### **Themes**

Change the wallpaper settings for the Home screen and the locked screen or apply various themes to the device.

On the Settings screen, tap Themes.

- Wallpapers: Change the wallpaper settings for the Home screen and the locked screen.
- Themes: Change the device's theme.
- Icons: Change the icon style.
- AODs: Select an image to display on the Always On Display.

### Lock screen

### **Options**

Change the settings for the locked screen.

On the Settings screen, tap Lock screen.



The available options may vary depending on the screen lock method selected.

- Screen lock type: Change the screen lock method.
- **Smart Lock**: Set the device to unlock itself when trusted locations or devices are detected. Refer to Smart Lock for more information.
- Secure lock settings: Change screen lock settings for the selected lock method.
- Always On Display: Set the device to display information while the screen is turned off.
   Refer to Always On Display for more information.
- Wallpaper services: Set the device to use wallpaper services such as Dynamic Lock screen.
- Clock style: Change the type and colour of the clock on the locked screen.
- Roaming clock: Change the clock to show both the local and home time zones on the locked screen when roaming.
- FaceWidgets: Change the settings of the items displayed on the locked screen.
- **Contact information**: Set the device to show contact information, such as your email address, on the locked screen.
- **Notifications**: Set how to show notifications on the locked screen.
- Shortcuts: Select apps to display shortcuts to them on the locked screen.
- About Lock screen: View the Locked screen version and legal information.

#### **Smart Lock**

You can set the device to unlock itself and remain unlocked when trusted locations or devices are detected.

For example, if you have set your home as a trusted location, when you get home your device will detect the location and automatically unlock itself.



- This feature will be available to use after you set a screen lock method.
- If you do not use your device for four hours or when you turn on the device, you must unlock the screen using the pattern, PIN, or password you set.
- 1 On the Settings screen, tap Lock screen  $\rightarrow$  Smart Lock.
- 2 Unlock the screen using the preset screen lock method.
- 3 Select an option and follow the on-screen instructions to complete the setting.

# **Biometrics and security**

### **Options**

Change the settings for securing the device.

On the Settings screen, tap **Biometrics and security**.

- Intelligent Scan: Register both your face and irises to the device to unlock the screen more conveniently. Refer to Intelligent Scan for more information.
- **Face recognition**: Set the device to unlock the screen by recognising your face. Refer to Face recognition for more information.
- Irises: Register your irises to unlock the screen. Refer to Iris recognition for more information.
- **Fingerprints**: Register your fingerprints to unlock the screen. Refer to Fingerprint recognition for more information.
- Biometrics preferences: Change the settings for biometric data.

- Google Play Protect: Set the device to check for harmful apps and behaviour and warn about potential harm and remove them.
- Find My Mobile: Activate or deactivate the Find My Mobile feature. Access the Find My Mobile website (findmymobile.samsung.com) to track and control your lost or stolen device.
- Security update: View the version of your device's software and check for updates.
- Google Play system update: View the Google Play system version and check for updates.
- Samsung Pass: Verify your identity easily and securely via your biometric data. Refer to Samsung Pass for more information.
- **Install unknown apps**: Set the device to allow the installation of apps from unknown sources.
- **Secure Folder**: Create a secure folder to protect your private content and apps from others. Refer to Secure Folder for more information.
- Secure Wi-Fi: Set the device to protect your data while using unsecured Wi-Fi networks.
- **Secure startup**: Protect your device by setting it to require a screen unlock code when turning on the device. You must enter the unlock code to start the device and receive messages and notifications.
- Encrypt or decrypt SD card: Set the device to encrypt files on a memory card.

If you reset your device to the factory defaults with this setting enabled, the device will not be able to read your encrypted files. Disable this setting before resetting the device.

• Other security settings: Configure additional security settings.

### **Intelligent Scan**

By using both your face and irises, you can easily and conveniently unlock the screen and verify your identity.



- This feature may not be available depending on the region or service provider.
- If you use Intelligent Scan as a screen lock method, your face and irises cannot be
  used to unlock the screen for the first time after turning on the device. To use the
  device, you must unlock the screen using the pattern, PIN, or password you set
  when registering your face and irises. Be careful not to forget your pattern, PIN, or
  password.
- If your irises are not recognised, unlock the device using the pattern, PIN, or
  password you set when registering the irises, and then re-register your irises. If
  your pattern, PIN, or password is forgotten, you will not be able to use the device if
  you do not reset it. Samsung is not responsible for any data loss or inconvenience
  caused by forgotten unlock codes.
- If you change the screen lock method to **Swipe** or **None**, which are not secure, all of your biometric data will be deleted. If you want to use your biometric data in apps or features, you must register your biometric data again.



## Precautions for using Intelligent Scan

Before using Intelligent Scan, keep the following precautions in mind.

- To protect your eyes, keep the screen at least 20 cm away from your face when using iris recognition.
- If you attach screen protectors (privacy protection films, tempered glass protectors, etc.), the recognition may fail.
- Do not use this feature with infants. Doing so may damage their eyesight.

Settings

- Anyone who has experienced dizziness, seizures, loss of awareness, blackouts, or other symptoms linked to an epileptic condition, or has a family history of such symptoms or conditions, should consult a doctor before using this feature.
- Intelligent Scan is not intended for any diagnostic, therapeutic, or preventative medical purposes.
- Your phone could be unlocked by someone that looks like you.
- Keep secure of your phone and do not let anyone else unlock your phone.

#### For better face and iris recognition

The phone may not recognise your irises or face when:

• something prevents a good view of your face or eyes (e.g. glasses, contact lenses, hat, low eyelids, recent eye surgery, disease, dirt, damage to the camera, or excessive movement).

### Registering irises and face

- 1 On the Settings screen, tap **Biometrics and security** → **Intelligent Scan**.
- 2 Unlock the screen using the preset screen lock method. If you have not set a screen lock method, create one.
- 3 Read the on-screen instructions and tap **Continue**.
- 4 Select whether you are wearing glasses or not and tap **Continue**.
- 5 Register your face and irises.

  For more information, refer to Face recognition and Iris recognition.

#### Deleting registered face and iris data

You can delete face and iris data that you have registered.

- 1 On the Settings screen, tap **Biometrics and security**  $\rightarrow$  **Intelligent Scan**.
- 2 Unlock the screen using the preset screen lock method.
- 3 Tap Remove face and iris data → Remove.
  Once the registered face and iris data has been deleted, all the related features will also be deactivated.

#### Unlocking the screen using Intelligent Scan

You can unlock the screen with your face and irises instead of using a pattern, PIN, or password.

- 1 On the Settings screen, tap **Biometrics and security**  $\rightarrow$  **Intelligent Scan**.
- 2 Unlock the screen using the preset screen lock method.
- 3 Tap the **Intelligent Scan unlock** switch to activate it.
- 4 On the locked screen, look at the screen.

When your face and irises are recognised, you can unlock the screen without using any additional screen lock method. If your face and irises are not recognised, use the preset screen lock method.

#### **Face recognition**

You can set the device to unlock the screen by recognising your face.



- If you use your face as a screen lock method, your face cannot be used to unlock the screen for the first time after turning on the device. To use the device, you must unlock the screen using the pattern, PIN, or password you set when registering the face. Be careful not to forget your pattern, PIN, or password.
- If you change the screen lock method to **Swipe** or **None**, which are not secure, all of your biometric data will be deleted. If you want to use your biometric data in apps or features, you must register your biometric data again.

### Precautions for using face recognition

Before using the face recognition to unlock your device, keep the following precautions in mind.

- · Your device could be unlocked by someone or something that looks like your image.
- Face recognition is less secure than Pattern, PIN, or Password.

#### For better face recognition

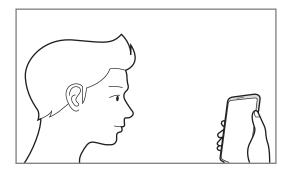
Consider the following when using face recognition:

- Consider the conditions when registering, such as wearing glasses, hats, masks, beards, or heavy makeup
- Ensure that you are in a well-lit area and that the camera lens is clean when registering
- Ensure your image is not blurry for better match results

#### Registering your face

For better face registration, register your face indoors and out of direct sunlight.

- 1 On the Settings screen, tap **Biometrics and security**  $\rightarrow$  **Face recognition**.
- 2 Unlock the screen using the preset screen lock method. If you have not set a screen lock method, create one.
- 3 Read the on-screen instructions and tap **Continue**.
- 4 Select whether you are wearing glasses or not and tap **Continue**.
- 5 Hold the device with the screen facing towards you and look at the screen.



6 Position your face inside the frame on the screen.
The camera will scan your face.



If unlocking the screen with your face is not working properly, tap **Remove face data** to remove your registered face and register your face again.

#### Deleting the registered face data

You can delete face data that you have registered.

- 1 On the Settings screen, tap **Biometrics and security**  $\rightarrow$  **Face recognition**.
- 2 Unlock the screen using the preset screen lock method.
- 3 Tap Remove face data → Remove.
  Once the registered face is deleted, all the related features will also be deactivated.

#### Unlocking the screen with your face

You can unlock the screen with your face instead of using a pattern, PIN, or password.

- 1 On the Settings screen, tap **Biometrics and security**  $\rightarrow$  **Face recognition**.
- 2 Unlock the screen using the preset screen lock method.
- 3 Tap the Face unlock switch to activate it.



If you want to reduce the possibility of recognising faces in photos or videos, tap the **Faster recognition** switch to deactivate it. This may decrease the face recognition speed.

4 On the locked screen, look at the screen.

When your face is recognised, you can unlock the screen without using any additional screen lock method. If your face is not recognised, use the preset screen lock method.

#### Iris recognition

The iris recognition feature uses the unique characteristics of your irises, such as their shape and pattern, to strengthen the security of your device. Your iris data can be used for various authentication purposes. After registering your irises, you can set the device to use your irises for the following features:

- Samsung Pass (Samsung account verification and web sign-in)
- Samsung Pay
- Screen lock
- Secure Folder



- This feature may not be available depending on the region or service provider.
- If you use your iris as a screen lock method, your irises cannot be used to unlock the screen for the first time after turning on the device. To use the device, you must unlock the screen using the pattern, PIN, or password you set when registering the irises. Be careful not to forget your pattern, PIN, or password.
- If your irises are not recognised, unlock the device using the pattern, PIN, or
  password you set when registering the irises, and then re-register your irises. If
  your pattern, PIN, or password is forgotten, you will not be able to use the device if
  you do not reset it. Samsung is not responsible for any data loss or inconvenience
  caused by forgotten unlock codes.
- If you change the screen lock method to **Swipe** or **None**, which are not secure, all of your biometric data will be deleted. If you want to use your biometric data in apps or features, you must register your biometric data again.



### Precautions for using iris recognition

Before using iris recognition, keep the following precautions in mind.

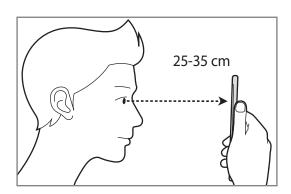
- To protect your eyes, keep the screen at least 20 cm away from your face when using iris recognition.
- If you attach screen protectors (privacy protection films, tempered glass protectors, etc.), the recognition may fail.
- Do not use iris recognition with infants. Doing so may damage their eyesight.
- Anyone who has experienced dizziness, seizures, loss of awareness, blackouts, or other symptoms linked to an epileptic condition, or has a family history of such symptoms or conditions, should consult a doctor before using iris recognition.
- Biometric data collected and stored locally by the iris scanner is not intended for any diagnostic, therapeutic, or preventative medical purposes.

#### For better iris recognition

The phone may not recognise your eyes when:

- something prevents the camera from getting a good view of your irises (e.g. glasses, low eyelids, recent eye surgery, disease, dirt, damage to the camera, or excessive movement).
- the lighting is very different from when you recorded your irises (e.g. direct sunlight).

Hold your device about 25-35 cm away from your face with the screen facing towards you.

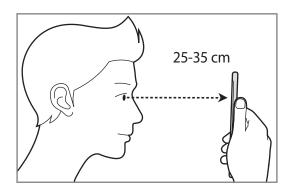


#### **Registering irises**

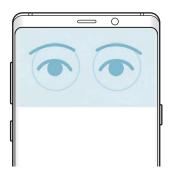


The device can save the iris data of one person only. You cannot register more than one set of irises.

- 1 On the Settings screen, tap **Biometrics and security** → **Irises**.
- 2 Unlock the screen using the preset screen lock method. If you have not set a screen lock method, create one.
- 3 Read the on-screen instructions and tap Continue → Continue.
  To register only one iris of your eyes, tick Register just 1 iris.
- 4 Hold the device with the screen facing towards you and look at the screen.



5 Position your eyes inside the circles on the screen and open your eyes wide. The iris recognition camera will scan your irises.



Settings

#### Deleting registered iris data

You can delete iris data that you have registered.

- 1 On the Settings screen, tap **Biometrics and security** → **Irises**.
- 2 Unlock the screen using the preset screen lock method.
- 3 Tap Remove iris data → Remove.
  Once the registered iris data has been deleted, all the related features will also be deactivated.

#### **Using Samsung Pass**

When you register your irises to Samsung Pass, you can use them to easily verify your identity or sign in to websites. Refer to Samsung Pass for more information.

#### **Using irises with Samsung Pay**

You can use irises with Samsung Pay to make payments quickly and securely. Refer to Samsung Pay for more information.

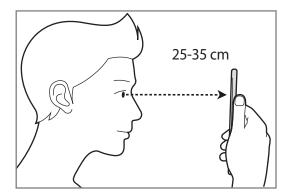


Samsung Pay may not be available depending on the region or service provider.

#### Unlocking the screen with your irises

You can unlock the screen with your irises instead of using a pattern, PIN, or password.

- 1 On the Settings screen, tap **Biometrics and security** → **Irises**.
- 2 Unlock the screen using the preset screen lock method.
- 3 Tap the Iris unlock switch to activate it.
- 4 On the locked screen, swipe in any direction and position your eyes inside the circles on the screen to scan your irises.



To unlock the screen using iris recognition, without swiping on the locked screen, tap **Screenon iris recognition** switch to activate it.

#### **Fingerprint recognition**

In order for fingerprint recognition to function, your fingerprint information needs to be registered and stored in your device. After registering, you can set the device to use your fingerprint for the features below:

- Samsung Pass (Samsung account verification and web sign-in)
- Samsung Pay
- Screen lock
- Secure Folder



- This feature may not be available depending on the region or service provider.
- Fingerprint recognition uses the unique characteristics of each fingerprint to enhance the security of your device. The likelihood of the fingerprint sensor confusing two different fingerprints is very low. However, in rare cases where separate fingerprints are very similar the sensor may recognise them as identical.
- If you use your fingerprint as a screen lock method, your fingerprint cannot be used to unlock the screen for the first time after turning on the device. To use the device, you must unlock the screen using the pattern, PIN, or password you set when registering the fingerprint. Be careful not to forget your pattern, PIN, or password.
- If your fingerprint is not recognised, unlock the device using the pattern, PIN, or password you set when registering the fingerprint, and then re-register your fingerprints. If your pattern, PIN, or password is forgotten, you will not be able to use the device if you do not reset it. Samsung is not responsible for any data loss or inconvenience caused by forgotten unlock codes.
- If you change the screen lock method to **Swipe** or **None**, which are not secure, all of your biometric data will be deleted. If you want to use your biometric data in apps or features, you must register your biometric data again.

#### For better fingerprint recognition

When you scan your fingerprints on the device, be aware of the following conditions that may affect the feature's performance:

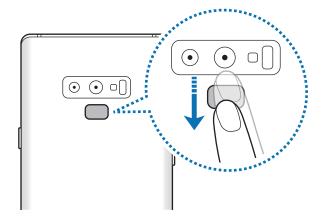
- The fingerprint recognition sensor recognises fingerprints. Ensure that the fingerprint recognition sensor is not scratched or damaged by metal objects, such as coins, keys, and necklaces.
- Covering the fingerprint recognition sensor with protective films, stickers, or other
  accessories may decrease the fingerprint recognition rate. If the fingerprint recognition
  sensor is initially covered with a protective film, remove it before using the fingerprint
  recognition sensor.
- Ensure that the fingerprint recognition sensor and your fingers are clean and dry.
- The device may not recognise fingerprints that are affected by wrinkles or scars.
- · The device may not recognise fingerprints from small or thin fingers.
- If you bend your finger or use a fingertip, the device may not recognise your fingerprints. Make sure to cover the entire fingerprint recognition sensor with your finger.
- To improve recognition performance, register fingerprints of the hand used most often to perform tasks on the device.
- In dry environments, static electricity can build up in the device. Avoid using this feature in dry environments or before using the feature, discharge static electricity by touching a metal object.

#### **Registering fingerprints**

- 1 On the Settings screen, tap **Biometrics and security** → **Fingerprints**.
- 2 Unlock the screen using the preset screen lock method. If you have not set a screen lock method, create one.

Settings

3 Swipe your finger downwards over the fingerprint recognition sensor.



Repeat this action until the fingerprint is registered. When you are finished registering your fingerprints, tap **Done**.

#### **Deleting registered fingerprints**

You can delete registered fingerprints.

- 1 On the Settings screen, tap **Biometrics and security** → **Fingerprints**.
- 2 Unlock the screen using the preset screen lock method.
- 3 Select a fingerprint to delete and tap Remove  $\rightarrow$  Remove.

#### **Using Samsung Pass**

When you register your fingerprints to Samsung Pass, you can use them to easily verify your identity or sign in to websites. Refer to Samsung Pass for more information.

#### **Using fingerprints with Samsung Pay**

You can use fingerprints with Samsung Pay to make payments quickly and securely. Refer to Samsung Pay for more information.



Samsung Pay may not be available depending on the region or service provider.

#### Unlocking the screen with your fingerprints

You can unlock the screen with your fingerprint instead of using a pattern, PIN, or password.

- 1 On the Settings screen, tap **Biometrics and security** → **Fingerprints**.
- 2 Unlock the screen using the preset screen lock method.
- 3 Tap the **Fingerprint unlock** switch to activate it.
- 4 On the locked screen, place your finger on the fingerprint recognition sensor and scan your fingerprint.

### **Samsung Pass**

Samsung Pass allows you to sign in to your Samsung account, websites, or apps more easily and securely via your biometric data, such as fingerprints or irises, rather than entering your login information. Also, Samsung Pass allows you to enter the personal information, such as your address or payment card information, more easily and quickly via your registered biometric data.

Register your biometric data to Samsung Pass and set to sign in to supported websites or apps using the data via Samsung Pass.



- To use this feature, your device must be connected to a Wi-Fi or mobile network.
- To use this feature, you must register and sign in to your Samsung account. For more information, refer to Samsung account.
- The website sign-in feature is only available for websites that you access via the Internet app. Some websites may not support this feature.
- Registered biometric data and saved payment card information are only saved to your device and are not synced with other devices or servers.

#### **Registering Samsung Pass**

Before using Samsung Pass, register your biometric data to Samsung Pass.

On the Settings screen, tap **Biometrics and security**  $\rightarrow$  **Samsung Pass**. Follow the on-screen instructions to complete the setup.

#### Verifying the Samsung account password

You can use your registered biometric data to verify your identity instead of entering your Samsung account password when, for example, you purchase content from **Galaxy Store**.

- 1 On the Settings screen, tap **Biometrics and security** → **Samsung Pass**.
- 2 Unlock the screen using the preset screen lock method.
- 3 Tap :→ Settings → Account and syncing, and then tap the Verify with Samsung Pass switch to activate it.

#### **Using Samsung Pass to sign in to websites**

You can use Samsung Pass to easily sign in to websites that support ID and password autofill.

- 1 Open a website that you want to sign in to.
- 2 Enter your user name and password, and then tap the website's sign in button.
- When a pop-up window asking whether you want to save the sign-in information appears, tick **Sign in with Samsung Pass** and tap **Remember**.

You can now use the biometric data you registered to Samsung Pass when signing in to the website.

#### **Using Samsung Pass to sign in to apps**

You can use Samsung Pass to easily sign in to apps that support ID and password autofill.

- 1 Open an app that you want to sign in to.
- 2 Enter your user name and password, and then tap the app's sign in button.
- When a pop-up window asking whether you want to save the sign-in information appears, tap **Save**.

You can now use the biometric data you registered to Samsung Pass when signing in to the app.

#### Managing sign-in information

View the list of websites and apps you have set to use Samsung Pass and manage your sign-in information.

- 1 On the Settings screen, tap **Biometrics and security**  $\rightarrow$  **Samsung Pass**.
- 2 Unlock the screen using the preset screen lock method.
- 3 Tap **Sign-in** and select a website or app from the list.
- 4 Tap **Edit** and modify your ID, password, and the website's or app's name. To delete the website or app, tap **Delete**.

#### **Using Samsung Pass with websites and apps**

When using websites or apps that support Samsung Pass, you can easily sign in with Samsung Pass.

To see the list of websites and apps that support Samsung Pass, on the Settings screen, tap **Biometrics and security** → **Samsung Pass**, unlock the screen using your preset screen lock method, and then tap • → **Partners**. If there are no websites or apps that support Samsung Pass, **Partners** will not appear.



- Available websites and apps may vary depending on the region or service provider.
- Samsung is not responsible for any loss or inconvenience caused by signing in to websites or apps via Samsung Pass.

#### **Entering your personal information automatically**

You can use Samsung Pass to easily enter your address or payment card information on apps that support autofilling personal information.

- 1 On the Settings screen, tap **Biometrics and security** → **Samsung Pass**.
- 2 Unlock the screen using the preset screen lock method.
- 3 Tap Autofill forms and select Add address or Add card.
- 4 Enter the information and tap **Save**.

  You can now use the biometric data you registered to Samsung Pass when entering the personal information automatically on supported apps.

#### **Deleting your Samsung Pass data**

You can delete your biometric data, sign-in information, and app data registered to Samsung Pass. Your agreement to the terms and conditions and your Samsung account will remain active.

- 1 On the Settings screen, tap **Biometrics and security** → **Samsung Pass**.
- 2 Unlock the screen using the preset screen lock method.
- 3 Tap  $\longrightarrow$  Settings  $\longrightarrow$  Delete data  $\longrightarrow$  Delete.
- 4 Enter your Samsung account password and tap **OK**. Your Samsung Pass data will be deleted.

#### Secure Folder

Secure Folder protects your private content and apps, such as photos and contacts, from being accessed by others. You can keep your private content and apps secure even when the device is unlocked.





Secure Folder is a separate, secured storage area. The data in Secure Folder cannot be transferred to other devices via unapproved sharing methods, such as USB or Wi-Fi Direct. Attempting to customise the operating system or modifying software will cause Secure Folder to be automatically locked and inaccessible. Before saving data in Secure Folder, make sure to back up a copy of the data in another secure location.

#### **Setting up Secure Folder**

- 1 Launch the **Settings** app and tap **Biometrics and security** → **Secure Folder**.
- 2 Agree to the terms and conditions of Secure Folder.
- **3** Enter your Samsung account ID and password and tap **Sign in**.

Settings

4 Select a lock method to use for Secure Folder and follow the on-screen instructions to complete the setup.

To change the name or icon colour of Secure Folder, tap  $\longrightarrow$  Customise.



- When you launch the Secure Folder app, you must unlock the app using your preset lock method.
- If you forget your Secure Folder unlock code, you can reset it using your Samsung account. Tap the reset button at the bottom of the locked screen, and enter your Samsung account password.

#### **Setting auto lock for Secure Folder**

Set the device to automatically lock Secure Folder when it is not being used.

- 1 Launch the Secure Folder app and tap  $\stackrel{\bullet}{\bullet} \rightarrow$  Settings  $\rightarrow$  Auto lock Secure Folder.
- 2 Select a lock option.



To manually lock your Secure Folder, tap  $\longrightarrow$  Lock and exit.

#### Moving content to Secure Folder

Move content, such as photos and contacts, to Secure Folder. The following actions are an example of moving an image from the default storage to Secure Folder.

- 1 Launch the Secure Folder app and tap Add files.
- 2 Tap Images, tick images to move, and then tap Done.
- 3 Tap Move.

The selected items will be deleted from the original folder and moved to Secure Folder. To copy items, tap **Copy**.



The method for moving content may vary depending on the content type.

#### **Moving content from Secure Folder**

Move content from Secure Folder to the corresponding app in the default storage. The following actions are an example of moving an image from Secure Folder to the default storage.

- 1 Launch the **Secure Folder** app and tap **Gallery**.
- 2 Select an image and tap ♣ → Move out of Secure Folder.
  The selected items will be moved to Gallery in the default storage.

#### **Adding apps**

Add an app to use in Secure Folder.

- 1 Launch the **Secure Folder** app and tap **Add apps**.
- 2 Tick one or more apps installed on the device and tap Add.
  To install apps from Play Store or Galaxy Store, tap Download from Play Store or Download from Galaxy Store.

Removing apps from Secure Folder

Tap and hold an app to delete, and tap Uninstall.

#### **Adding accounts**

Add your Samsung and Google accounts, or other accounts, to sync with the apps in Secure Folder.

- 1 Launch the Secure Folder app and tap  $\stackrel{\bullet}{\cdot} \rightarrow$  Settings  $\rightarrow$  Accounts  $\rightarrow$  Add account.
- 2 Select an account service.
- 3 Follow the on-screen instructions to complete the account setup.

#### **Hiding Secure Folder**

You can hide the Secure Folder shortcut from the Apps screen.

Launch the **Secure Folder** app, tap ♣ → **Settings**, and then tap the **Show Secure Folder** switch to deactivate it.

Alternatively, drag the status bar downwards to open the notification panel. Then, swipe downwards on the notification panel and tap **Secure Folder** to deactivate the feature.

#### **Backing up and restoring Secure Folder**

Back up content and apps in Secure Folder to Samsung Cloud using your Samsung account and restore them later.

#### Backing up data

- 1 Launch the Secure Folder app and tap  $\stackrel{\bullet}{\cdot} \rightarrow$  Settings  $\rightarrow$  Backup and restore.
- 2 Tap **Add account** and sign in to your Samsung account.
- 3 Tap Back up Secure Folder data.
- 4 Tick items you want to back up and tap **Back up**.

  Data will be backed up to Samsung Cloud.

#### Restoring data

- 1 Launch the Secure Folder app and tap  $\stackrel{\bullet}{\bullet} \rightarrow$  Settings  $\rightarrow$  Backup and restore.
- 2 Tap Restore.
- 3 Tap lue to select a device to restore the data.
- 4 Select the data types you want to restore and tap **Restore**. Backed up data will be restored to your device.

#### **Uninstalling Secure Folder**

You can uninstall Secure Folder, including the content and apps in it.

Launch the Secure Folder app and tap  $\stackrel{\bullet}{\bullet} \rightarrow$  Settings  $\rightarrow$  More settings  $\rightarrow$  Uninstall.

To back up content before uninstalling Secure Folder, tick **Move media files out of Secure Folder** and tap **Uninstall**. To access data backed from Secure Folder, open the **Samsung** folder, launch the **My Files** app, and then tap **Internal storage** → **Secure Folder**.



Notes saved in **Samsung Notes** will not be backed up.

### **Accounts and backup**

### **Options**

Sync, back up, or restore your device's data using Samsung Cloud. You can also register and manage accounts, such as your Samsung account or Google account, or transfer data to or from other devices via Smart Switch.

On the Settings screen, tap Accounts and backup.

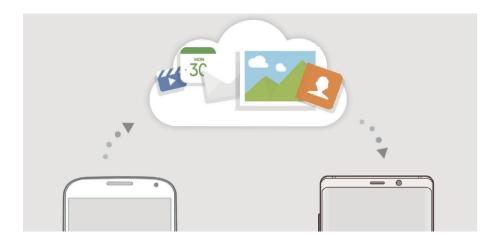
- Accounts: Add your Samsung and Google accounts, or other accounts, to sync with.
- **Backup and restore**: Keep your personal information, app data, and settings safe on your device. You can back up your sensitive information and access it later. You must sign in to your Google or Samsung account to back up or restore data.
- Samsung Cloud: Manage the content that you want to store securely in Samsung Cloud. Check the usage status of your Samsung Cloud storage, and sync, back up, and restore your data. Refer to Samsung Cloud for more information.
- Smart Switch: Launch Smart Switch and transfer data from your previous device. Refer to Transferring data from your previous device (Smart Switch) for more information.



Regularly back up your data to a safe location, such as Samsung Cloud or a computer, so that you can restore it if the data is corrupted or lost due to an unintended factory data reset.

#### Samsung Cloud

Back up data from your previous device to Samsung Cloud and restore the data to your new device. You can also sync data saved in your device with Samsung Cloud and view data saved on the Samsung Cloud. You must register and sign in to your Samsung account to use Samsung Cloud. Refer to Samsung account for more information.



#### Backing up data from your previous device

- 1 On your previous device, sign in to your Samsung account.
- 2 Launch the **Settings** app, select the backup option, and back up your data.



- If your device supports Samsung Cloud, launch the Settings app, tap Accounts and backup → Samsung Cloud → Back up this phone, tick items you want to back up, and then tap Back up to back up your data.
- The data backup method may vary depending on your model.
- Some data will not be backed up. To check which data will be backed up, launch the Settings app, tap Accounts and backup → Samsung Cloud → Back up this phone.
- To view the backup data for each device in your Samsung Cloud, launch the
   Settings app, tap Accounts and backup → Samsung Cloud → Restore data →
   , and select a device you want.

#### Restoring data from your previous device

- 1 On your new device, launch the **Settings** app and tap **Accounts and backup** → **Samsung Cloud**.
- 2 Tap **Restore data**  $\rightarrow$   $\blacksquare$  and select a previous device.
- 3 Tick the data types you want to restore and tap **Restore**.

#### Syncing data from your device

You can sync data saved in your device, such as images, videos, and events, with Samsung Cloud and access it from other devices.

- 1 On your new device, launch the **Settings** app and tap **Accounts and backup** → **Samsung Cloud**.
- 2 Tap  $\longrightarrow$  Settings  $\longrightarrow$  Sync and auto backup settings  $\longrightarrow$  Sync.
- 3 Tap the switches next to the items you want to sync with.

You can check the saved data or change the settings by tapping the **Gallery**, **Other synced data**, or **Samsung Cloud Drive**.

## Google

Configure settings for some features provided by Google.

On the Settings screen, tap Google.

### **Advanced features**

#### **Options**

Activate advanced features and change the settings that control them.

On the Settings screen, tap **Advanced features**.



Excessive shaking or an impact to the device may cause an unintended input for some features using sensors.

- S Pen: Change the settings for using the S Pen. Refer to S Pen features for more information about Air actions, Air command, Air view, and Screen off memo.
- **Bixby key**: Select how many times you must press the Bixby key to open the Bixby screen. You can also set the device to launch an app or execute a quick command with the Bixby Key.
- Call & text on other devices: Use your device's calling and messaging features on other devices signed in to your Samsung account.



This feature may not be available depending on the region or service provider.

- Link to Windows: Instantly access data saved in your device on your computer.
- Smart pop-up view: Select apps to view their notifications via pop-up windows. When using this feature, you can quickly view the contents via pop-up windows by tapping the icon on the screen.



This feature is only available in apps that support the Multi window feature.

- Screenshots and screen recorder: Change the settings for screenshots and screen recorder.
- **Direct share**: Set the device to display the people you contacted on the sharing options panel to allow you to share content directly.
- **Reduce animations**: Set the device to reduce certain screen effects if you are sensitive to animations or screen movement.
- Motions and gestures: Activate the motion feature and configure settings.

• One-handed mode: Activate one-handed operation mode for your convenience when using the device with one hand.



This feature may not be available depending on the region or service provider.

- Game Launcher: Activate the Game Launcher. Refer to Game Launcher for more information.
- **Dual Messenger**: Install the second app and use two separate accounts for the same messenger app. Refer to Dual Messenger for more information.
- Video enhancer: Enhance the image quality of your videos to enjoy brighter and more vivid colours.



This feature may not be available in some apps.

• **Send SOS messages**: Set the device to send help messages by pressing the Power key three times. You can also send sound recordings along with the message to the recipients.

### **Dual Messenger**

Install the second app and use two separate accounts for the same messenger app.

- On the Settings screen, tap Advanced features → Dual Messenger.
  Supported apps will appear.

you receive notifications from the second app, the notifications will be displayed with oto distinguish them from the first app's notifications.





- The Dual Messenger feature may not be available depending on the app.
- Some features of the app may be limited for the second app.

Settings

#### Uninstalling a second app

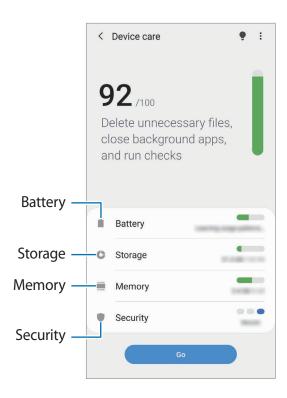
- 1 On the Settings screen, tap **Advanced features** → **Dual Messenger**.
- 2 Tap the switch of the app you want to disable and tap Disable.
  All data related to the second app will be deleted.



If you uninstall the first app, the second app will also be deleted.

### **Device care**

The device care feature provides an overview of the status of your device's battery, storage, memory, and system security. You can also automatically optimise the device with a tap of your finger.



#### Using the quick optimisation feature

On the Settings screen, tap **Device care**  $\rightarrow$  **Go**.

The quick optimisation feature improves device performance through the following actions.

- Clearing some memory.
- Deleting unnecessary files and closing apps running in the background.
- Managing abnormal battery usage.
- Scanning for crashed apps and malware.

#### **Battery**

Check the remaining battery power and time to use the device. For devices with low battery levels, conserve battery power by activating power saving features.

On the Settings screen, tap **Device care**  $\rightarrow$  **Battery**.



- The usage time left shows the time remaining before the battery power runs out. Usage time left may vary depending on your device settings and operating conditions.
- You may not receive notifications from some apps that use power saving mode.

#### Managing battery usage

Select a power mode that suits your device usage purposes.

Tap **Power mode** and select an option.

- **High performance**: The screen is as bright as possible and at maximum resolution. The battery may drain quickly.
- **Optimised**: Optimised for a balance between the device's performance and battery usage.
- **Medium power saving**: Activate power saving mode to extend the battery's usage time.
- Maximum power saving: In maximum power saving mode, the device decreases battery
  consumption by activating dark mode and limiting the apps and features available.
   Network connections, except for the mobile network, will be deactivated.

You can set the device to charge the battery more quickly. Tap the **Fast cable charging** switch to activate it.

#### Managing battery usage for each app

You can save battery power by preventing apps that are running in the background from using battery power when they are not being used. Tap **Battery usage**, select apps from the apps list, and then tap the **Put app to sleep** switch to activate the feature.

#### **Storage**

Check the status of the used and available memory.

On the Settings screen, tap **Device care**  $\rightarrow$  **Storage**.



- The actual available capacity of the internal memory is less than the specified capacity because the operating system and default apps occupy part of the memory. The available capacity may change when you update the device.
- You can view the available capacity of the internal memory in the Specification section for your device on the Samsung website.

#### Managing the memory

To delete residual files, such as cache, tap **Clean now**. To delete files or uninstall apps that you do not use any more, select a category. Then, tick items to select and tap **Delete**.

#### Memory

On the Settings screen, tap **Device care**  $\rightarrow$  **Memory**.

To speed up your device by stopping apps running in the background, tick apps from the apps list, and tap **Clean now**.

#### Security

Check the device's security status. This feature scans your device for malware.

On the Settings screen, tap **Device care**  $\rightarrow$  **Security**  $\rightarrow$  **Scan phone**.

### **Apps**

Manage the device's apps and change their settings. You can view the apps' usage information, change their notification or permission settings, or uninstall or disable unnecessary apps.

On the Settings screen, tap **Apps**.

## **General management**

Customise your device's system settings or reset the device.

On the Settings screen, tap **General management**.

- Language and input: Select device languages and change settings, such as keyboards and voice input types. Some options may not be available depending on the selected language. Refer to Adding device languages for more information.
- **Date and time**: Access and alter the settings to control how the device displays the time and date.



If the battery remains fully discharged, the time and date is reset.

- Contact us: Ask questions or view frequently asked questions. Refer to Samsung Members for more information.
- **Reset**: Reset your device's settings or perform a factory data reset. You can reset all your settings, or only network settings, or accessibility settings. You can also set the device to restart at a preset time for device optimisation.

Settings

#### Adding device languages

You can add languages to use on your device.

1 On the Settings screen, tap **General management** → **Language and input** → **Language** → **Add language**.

To view all the languages that can be added, tap  $\longrightarrow$  All languages.

- 2 Select a language to add.
- 3 To set the selected language as the default language, tap **Set as default**. To keep the current language setting, tap **Keep current**.

The selected language will be added to your languages list. If you changed the default language, the selected language will be added to the top of the list.

To change the default language from your languages list, select the language you want and tap **Apply**. If an app does not support the default language, the next supported language in the list will be used.

### Accessibility

Configure various settings to improve accessibility to the device. Refer to Accessibility for more information.

On the Settings screen, tap Accessibility.

### Software update

Update your device's software via the firmware over-the-air (FOTA) service. You can also schedule software updates.

On the Settings screen, tap **Software update**.



If emergency software updates are released for your device's security and to block new types of security threats, they will be installed automatically without your agreement.

- Download and install: Check for and install updates manually.
- **Auto download over Wi-Fi**: Set the device to download updates automatically when connected to a Wi-Fi network.
- Last update: View information about the last software update.

#### Security updates information

Security updates are provided to strengthen the security of your device and protect your personal information. For security updates for your model, visit security.samsungmobile.com.



The website supports only some languages.

### **About phone**

Access your device's information.

On the Settings screen, tap About phone.

To change your device's name, tap Edit.

- Status: View various device information, such as the SIM card status, Wi-Fi MAC address, and serial number.
- **Legal information**: View legal information related to the device, such as safety information and the open source licence.
- **Software information**: View the device's software information, such as its operating system version and firmware version.
- Battery information: View the device's battery status and information.

# **Appendix**

## **Accessibility**

#### **About Accessibility**

Improve accessibility with features that make the device easier to use for users who have impaired vision, hearing, and reduced dexterity.

Launch the **Settings** app and tap **Accessibility**. You can check the accessibility feature you are using at the top of the screen. Tap  $\checkmark$  to view features you are currently using or tap **Turn off** to disable the features quickly.

#### **Voice Assistant (Voice feedback)**

#### **Activating or deactivating Voice Assistant**

When you activate Voice Assistant, the device will start voice feedback. When you tap the selected feature once, the device will read the text on the screen aloud. Tapping the feature twice will activate the feature.

Launch the **Settings** app, tap **Accessibility** → **Screen reader**, and then tap the **Voice Assistant** switch to activate it.

To deactivate Voice Assistant, tap the switch and tap anywhere on the screen twice quickly. To view how to use Voice Assistant, tap **Tutorial**.



Some features are not available while you are using Voice Assistant.

#### Controlling the screen with finger gestures

You can use various finger gestures to control the screen while you are using Voice Assistant.

#### One finger gestures

- Tapping: Read aloud the item under your finger. To explore the screen, place a finger on the screen and move it on the screen.
- Tapping twice: Open the selected item. While selected items are read aloud, when you
  hear the item you want, release your finger from the item. Then, tap anywhere on the
  screen twice quickly.
- Double-tapping and holding the screen: Move an item or access an available option.
- Swiping to the left: Read the previous item.
- Swiping to the right: Read the next item.
- Swiping upwards or downwards: Change the most recent contextual menu settings.
- · Swiping to the left then right in one motion: Scroll up the screen.
- Swiping to the right then left in one motion: Scroll down the screen.
- Swiping upwards then downwards in one motion: Move to the first item on the screen.
- Swiping downwards then upwards in one motion: Move to the last item on the screen.

#### Two finger gestures

- Tapping twice: Start, pause, or resume the current action.
- Tapping three times: Check the current time, remaining battery power, and more. To change items that are read aloud, launch the Settings app and tap Accessibility → Screen reader → Settings → Status bar information.
- Tapping four times: Activate or deactivate voice feedback.
- Swiping to the left: Move to the next page.
- Swiping to the right: Return to the previous page.
- Swiping upwards: Scroll down the list.
- Swiping downwards: Scroll up the list.

#### **Appendix**

- Swipe upwards or downwards on the Home screen: Open the Apps screen.
- Swipe upwards or downwards on the Apps screen: Return to the Home screen.
- Swiping in any direction on the locked screen: Unlock the screen.
- Swiping downwards from the top of the screen: Open the notification panel.

#### Three finger gestures

- Tapping: Start reading items aloud from the top.
- Tapping twice: Start reading from the next item.
- Tapping three times: Read the last selected text and copy it to the clipboard.
- Swiping to the left or right: Open the contextual menu and scroll through the options.
- Swiping upwards or downwards: Change the text reading and selecting granularity.
- Swiping upwards then downwards in one motion: Return to the previous screen.
- Swiping downwards then upwards in one motion: Return to the Home screen.

#### Four finger gestures

- Tapping: Return to the previous screen.
- Tapping twice: Return to the Home screen.
- Tapping three times: Open the list of recent apps.

#### Using the contextual menu

While you are using Voice Assistant, swipe to the left or right with three fingers. The contextual menu will appear and the device will read the options aloud. Swipe to the left or right with three fingers to scroll through the options. When you hear the option you want, swipe upwards or downwards to use the option or adjust the settings for the option. For example, when you hear **Speech rate**, you can adjust the speech rate by swiping upwards or downwards.

#### Adding and managing image labels

You can assign labels to images on the screen. The device reads aloud the labels when the images are selected. Add labels to unlabelled images by tapping the screen twice with three fingers and holding.

To manage the labels, launch the **Settings** app and tap **Accessibility**  $\rightarrow$  **Screen reader**  $\rightarrow$  **Settings**  $\rightarrow$  **Manage custom labels**.

#### **Configuring settings for Voice Assistant**

Configure settings for Voice Assistant for your convenience.

Launch the **Settings** app and tap **Accessibility**  $\rightarrow$  **Screen reader**  $\rightarrow$  **Settings**.

- **Text-to-speech**: Change the settings for text-to-speech features used when Voice Assistant is activated, such as languages, speed, and more.
- Verbosity: Customise the detailed settings for voice feedback.
- Mute with proximity sensor: Set the device to pause voice feedback when you place your hand over the sensor at the top of the device.
- Shake for continuous reading: Set the device to read aloud the text displayed on the screen when you shake the device. You can select from various shaking intensity.
- Speak passwords: Set the device to read the characters aloud when you enter your password.
- Read caller ID aloud: Set the device to read the caller's name aloud when you have an incoming call.
- **Vibration feedback**: Set the device to vibrate when you control the screen, such as selecting an item.
- **Sound feedback**: Set the device to emit a sound when you control the screen, such as selecting an item. You can also adjust the volume of the sound played when you touch the screen to control it.
- Focus on speech audio: Set the device to turn the media volume down when the device reads an item aloud.

- Focus indicator: Set the device to thicken the border of the focus indicator that appears when you tap items. You can also change the colour of the indicator.
- **Single-tap activation**: Set the device to activate the selected item with a single tap.
- **Single-tap navigation bar**: Set the device to use the buttons on the navigation bar with a single tap.
- Quick menu: Select contextual menu options to display when you swipe to the left or right with three fingers.
- Manage custom labels: Manage the labels you added.
- Keyboard shortcuts: Set key shortcuts to use when using an external keyboard.
- Status bar information: Select items to read aloud when you tap the screen three times with two fingers.
- **Developer options**: Set options for app development.

#### Entering text using the keyboard

To display the keyboard, tap the text input field, and then tap anywhere on the screen twice quickly.

To activate the rapid key input feature, launch the **Settings** app, tap **Accessibility**  $\rightarrow$  **Screen** reader, and then tap the **Quick typing** switch to activate it.

When you touch the keyboard with your finger, the device reads aloud the character keys under your finger. When you hear the character you want, release your finger from the screen to select it. The character is entered and the device reads the text aloud.

If **Quick typing** is not activated, release your finger from the character you want, and then tap anywhere on the screen twice quickly.



This feature will appear only when Voice Assistant has been activated.

#### **Entering additional characters**

Tap and hold a key on the keyboard to enter additional characters available for the key. A pop-up window appears above the key showing available characters. To select a character, drag your finger on the pop-up window until you hear the character you want, and release it.

# **Visibility enhancements**

## Using the high contrast theme

Apply a clear theme with light-coloured content on a dark background.

Launch the **Settings** app, tap **Accessibility** → **Visibility enhancements** → **High contrast theme**, and then select a theme you want.

# Using the high contrast font

Adjust the colour and outline of fonts to increase the contrast between the text and the background.

Launch the **Settings** app, tap **Accessibility** → **Visibility enhancements**, and then tap the **High contrast fonts** switch to activate it.

## Using the high contrast keyboard

Change the colours of the Samsung keyboard to increase the contrast between the text and the background.

Launch the **Settings** app, tap **Accessibility**  $\rightarrow$  **Visibility enhancements**, and then tap the **High contrast keyboard** switch to activate it.

# Displaying button shapes

Display button shapes with frames to make them stand out.

Launch the **Settings** app, tap **Accessibility**  $\rightarrow$  **Visibility enhancements**, and then tap the **Show button shapes** switch to activate it.

# Reversing the display colours

Improve screen visibility to help users recognise text on the screen more easily.

Launch the **Settings** app, tap **Accessibility** → **Visibility enhancements**, and then tap the **Colour inversion** switch to activate it.

# **Colour adjustment**

Adjust how colours are displayed on the screen if you have difficulty in distinguishing colours. The device changes the colours into more recognisable colours.

Launch the **Settings** app, tap **Accessibility**  $\rightarrow$  **Visibility enhancements**  $\rightarrow$  **Colour adjustment**, and then tap the switch to activate it. Select an option.

To adjust the intensity of colour, drag the adjustment bar under Intensity.

If you select **Personalised colour**, you can personalise the colour of the screen. Follow the on-screen instructions to complete the colour adjustment procedure.

#### Colour lens

Adjust the screen colours if you have difficulty in reading the text.

Launch the **Settings** app, tap **Accessibility**  $\rightarrow$  **Visibility enhancements**  $\rightarrow$  **Colour lens**, and then tap the switch to activate it. Select a colour you want.

To adjust the transparency level, drag the adjustment bar under **Opacity**.

# Reducing screen motion effects

Reduce animation effects if you are sensitive to animations or screen movement.

Launch the **Settings** app, tap **Accessibility**  $\rightarrow$  **Visibility enhancements**, and then tap the **Remove animations** switch to activate it.

# Using a magnifier

Activate a magnifier to zoom in on the screen to view a larger version of the content.

Launch the **Settings** app, tap **Accessibility**  $\rightarrow$  **Visibility enhancements**, and then tap the **Magnifier window** switch to activate it. The magnifier will appear on the screen.

Drag the edge of the magnifier frame to move the magnifier to where you want to zoom in on the screen.

# Magnifying the screen

Magnify the screen and zoom in on a specific area.

Launch the **Settings** app and tap **Accessibility** → **Visibility** enhancements → **Magnification**.

- Triple tap screen to magnify: Zoom in by tapping the screen three times. To return to the normal view, tap the screen three times again.
- Use shortcut to magnify: Zoom in by tapping  $\hat{\pi}$  on the navigation bar, and then tapping where you want to magnify the screen. To return to the normal view, tap  $\hat{\pi}$ .

To explore the screen, drag two or more fingers across the magnified screen.

To adjust zoom ratio, pinch two or more fingers on the magnified screen or spread them apart.

You can also temporarily magnify the screen by tapping the screen three times and holding. Or, tap  $\dot{\pi}$ , and then tap and hold the screen. While holding the screen, drag your finger to explore the screen. Release your finger to return to the normal view.



- Keyboards and the navigation bar on the screen cannot be magnified.
- When this feature is activated, the performance of some apps may be affected.

## **Enlarging mouse or touchpad pointers**

Enlarge the pointer when using an external mouse or touchpad.

Launch the **Settings** app, tap **Accessibility** → **Visibility enhancements**, and then tap the **Large mouse/touchpad pointer** switch to activate it.

# **Changing font**

Change the font size and style.

Launch the Settings app and tap Accessibility  $\rightarrow$  Visibility enhancements  $\rightarrow$  Font size and style.

# Changing screen zoom

Change the screen zoom setting.

Launch the **Settings** app and tap **Accessibility**  $\rightarrow$  **Visibility enhancements**  $\rightarrow$  **Screen zoom**.

# **Hearing enhancements**

#### Sound detectors

Set the device to vibrate when it detects your doorbell or a baby crying.



While this feature is enabled, the voice recognition will not operate.

#### **Baby crying detector**

Launch the **Settings** and tap **Accessibility**  $\rightarrow$  **Hearing enhancements**  $\rightarrow$  **Sound detectors**  $\rightarrow$  **Baby crying detector**  $\rightarrow$  **Start**. The device will vibrate when it detects sound and the alert will be saved as a log.

#### **Doorbell detector**

- 1 Launch the Settings and tap Accessibility → Hearing enhancements → Sound detectors → Doorbell detector.
- 2 Tap **Record** to make a recording of your doorbell.

The device will detect and record the doorbell.

3 Tap **Test** and ring your doorbell to check if it is recorded correctly. When the device detects the doorbell sound, tap **Start**.

To change the doorbell sound, tap **Change doorbell sound**.

The device will vibrate when it detects sound and the alert will be saved as a log.

# Turning off all sounds

Set the device to mute all device sounds, such as media sounds, and the caller's voice during a call.

Launch the **Settings** app, tap **Accessibility** → **Hearing enhancements**, and then tap the **Mute all sounds** switch to activate it.

**Appendix** 

# Adjusting the sound balance

Set the device to adjust the sound balance when using an earphone.

- 1 Connect an earphone to the device and wear it.
- 2 Launch the Settings app and tap Accessibility  $\rightarrow$  Hearing enhancements.
- 3 Drag the adjustment bar under **Left/right sound balance** to the left or right and adjust the sound balance.

#### Mono audio

Mono output combines stereo sound into one signal that is played through all earphone speakers. Use this if you have a hearing impairment or if a single earbud is more convenient. Launch the **Settings** app, tap **Accessibility**  $\rightarrow$  **Hearing enhancements**, and then tap the **Mono audio** switch to activate it.

## **Caption settings**

Launch the Settings app, tap Accessibility  $\rightarrow$  Hearing enhancements  $\rightarrow$  Subtitle settings  $\rightarrow$  Samsung Video Player or Google Play Movies & TV, and then tap the switch to activate it. Select an option for configuring the caption settings.

# Interaction and dexterity

#### Universal switch

You can control the touchscreen by connecting an external switch, by tapping the screen, or by using head movements and face gestures.

- 1 Launch the **Settings** app and tap **Accessibility** → **Interaction and dexterity** → **Universal switch**.
- 2 Read the on-screen instructions and tap **Done**.
- 3 Tap the switch to activate it.
- 4 If the universal switches are not registered on the device, tap **Add switch** and set switches to control the device.



To activate the universal switch feature, at least one switch must be registered on the device.

To set switches to control the device, tap the switch under **Switches**.

To deactivate this feature, press the Power key and the Volume Up key simultaneously.

#### **Assistant menu**

## Displaying the assistive shortcut icon

Set the device to display the assistive shortcut icon for accessing apps, features, and settings. You can easily control the device by tapping the assistive menus in the icon.

- 1 Launch the Settings app and tap Accessibility → Interaction and dexterity → Assistant menu.
- 2 Tap the switch to activate it.

The assistive shortcut icon appears at the bottom right of the screen.

To adjust the assistant shortcut icon's transparency level, drag the adjustment bar under **Transparency**.

#### **Accessing assistive menus**

The assistive shortcut icon appears as a floating icon for easy access to the assistive menus from any screen.

When you tap the assistive shortcut icon, the icon expands slightly and the assistive menus appear on the icon. Tap the left or right arrow to move to other panels or swipe to the left or right to select other menus.

#### Using the cursor

On the assistive menu, tap **Cursor**. You can control the screen using small finger movements on the touch area. Drag your finger on the touch area to move the cursor. Also, tap the screen to select items under the cursor.

Use the following options:

- ≪ / ≫ : Scroll left or right on the screen.
- (a): Magnify the area where the cursor is located.



Turn off the Always On Display before using this feature.

- # : Move the touch area to another location.
- X: Close the touch area.

## Using enhanced assistive menus

Set the device to display enhanced assistive menus for selected apps.

Launch the **Settings** app, tap **Accessibility**  $\rightarrow$  **Interaction and dexterity**  $\rightarrow$  **Assistant menu**  $\rightarrow$  **Assistant plus**, tap the switch to activate it, and then select apps.

## Click after pointer stops

Set the device to select an item automatically when you place the mouse pointer over the item.

Launch the **Settings** app, tap **Accessibility** → **Interaction and dexterity**, and then tap the **Click after pointer stops** switch to activate it.

## Answering or ending calls

Change the method for answering or ending calls.

Launch the Settings app and tap Accessibility  $\rightarrow$  Interaction and dexterity  $\rightarrow$  Answering and ending calls.

Select the desired method.

## Easy screen turn on

Turn on the screen by moving your hand above the sensor at the top of the device. You can turn on the screen without pressing a key. When you use this feature, place the device on a flat surface with the screen facing upwards or hold the device securely to prevent it from moving.

Launch the **Settings** app, tap **Accessibility** → **Interaction and dexterity**, and then tap the **Easy screen turn on** switch to activate it.

#### Interaction control

Activate interaction control mode to restrict the device's reaction to inputs while using apps.

- 1 Launch the Settings app and tap Accessibility → Interaction and dexterity → Interaction control.
- 2 Tap the switch to activate it.
- 3 Press and hold the Power key and the Volume Up key simultaneously while using an app.
- 4 Adjust the size of the frame or draw a line around an area that you want to restrict.
- 5 Tap Done.

The device displays the restricted area. The restricted area will not react when you touch it and the device's keys will be disabled. However, you can enable functions for the Power key, Volume key, and keyboard in interaction control mode.

To deactivate interaction control mode, press and hold the Power key and the Volume Up key simultaneously.

To set the device to lock the screen after deactivating interaction control mode, launch the **Settings** screen, tap **Accessibility**  $\rightarrow$  **Interaction and dexterity**  $\rightarrow$  **Interaction control**, and then tap the **Lock screen when deactivated** switch to activate it.

## Touch and hold delay

Set the recognition time for tapping and holding the screen.

Launch the **Settings** app, tap **Accessibility**  $\rightarrow$  **Interaction and dexterity**  $\rightarrow$  **Touch and hold delay**, and then select an option.

## **Tap duration**

Set the duration you must touch the screen for the device to recognise it as a tap.

Launch the **Settings** app, tap **Accessibility**  $\rightarrow$  **Interaction and dexterity**  $\rightarrow$  **Tap duration**, tap the switch to activate it, and then set the time.

# Ignore repeated touches

Set the device to recognise only the first tap within a set time when you tap the screen repeatedly.

Launch the **Settings** app, tap **Accessibility**  $\rightarrow$  **Interaction and dexterity**  $\rightarrow$  **Ignore repeated touches**, tap the switch to activate it, and then set the time.

# **Advanced settings**

# Launching accessibility features quickly

Set to open accessibility features quickly.

Launch the **Settings** app, tap **Accessibility**  $\rightarrow$  **Advanced settings**  $\rightarrow$  **Power and Volume up keys**, and then tap the switch to activate it. Then, select an accessibility feature to open when you simultaneously press the Power key and the Volume Up key.

You can access the following accessibility features:

- Accessibility
- Voice Assistant
- Universal switch
- Magnifier window
- Colour adjustment
- Colour lens
- Interaction control
- High contrast fonts

# Launching the shortcut services quickly

Set to start a shortcut services quickly.

Launch the **Settings** app, tap **Accessibility**  $\rightarrow$  **Advanced settings**  $\rightarrow$  **Volume up and down keys**, and then tap the switch to activate it. Then, tap **Selected service** and select a shortcut service to start when you simultaneously press and hold the Volume Up key and the Volume Down key for three seconds.

You can access the following shortcut services:

- Universal switch
- Voice Assistant

# **Setting light notification**

Set the device to blink the flash or the screen when an alarm sounds or when you have notifications, such as incoming calls or new messages.

Launch the **Settings** app, tap **Accessibility**  $\rightarrow$  **Advanced settings**  $\rightarrow$  **Flash notification**, and then tap the switches next to the options you want to activate.

#### **Notification reminders**

Set the device to alert you to notifications that you have not checked at the interval.

Launch the **Settings** app, tap **Accessibility**  $\rightarrow$  **Advanced settings**  $\rightarrow$  **Notification reminders**, and then tap the switch to activate it.

To set the device to vibrate and play a notification sound when you have unchecked notifications, tap the **Vibrate when sound plays** switch to activate it.

To set an interval between alerts, tap Remind every.

To set apps to alert you to notifications, tap the switches next to apps under **Select apps** to activate it.

## Adding voice recordings to voice labels

You can use voice labels to distinguish objects of similar shape by attaching labels to them. You can record and assign a voice recording to an NFC-enabled voice label. The voice recording is played back when you place your device near the label.



Turn on the NFC feature before using this feature.

- 1 Launch the Settings app and tap Accessibility → Advanced settings → Voice Label.
  The voice recorder will launch.
- 2 Tap 
  to start recording. Speak into the microphone.
- 3 When you are finished recording, tap **Done** to stop.
- 4 Hold the back of your device over the voice label.
  The information in the voice recording will be written to the voice label.

#### **Direction lock**

Create a directional combination to unlock the screen.

- 1 Launch the **Settings** app, tap **Accessibility** → **Advanced settings** → **Direction lock**, and then tap the switch to activate it.
- 2 Drag your finger up, down, left, or right six to eight times, and then tap **Continue**.
- 3 Draw the direction combination again to verify it and tap **Confirm**.

## **Installed services**

View accessibility services installed on the device.

Launch the **Settings** app and tap **Accessibility**  $\rightarrow$  **Installed services**.

# **Troubleshooting**

Before contacting a Samsung Service Centre, please attempt the following solutions. Some situations may not apply to your device.

# When you turn on your device or while you are using the device, it prompts you to enter one of the following codes:

- Password: When the device lock feature is enabled, you must enter the password you set for the device.
- PIN: When using the device for the first time or when the PIN requirement is enabled, you
  must enter the PIN supplied with the SIM or USIM card. You can disable this feature by
  using the Lock SIM card menu.
- PUK: Your SIM or USIM card is blocked, usually as a result of entering your PIN incorrectly several times. You must enter the PUK supplied by your service provider.
- PIN2: When you access a menu requiring the PIN2, you must enter the PIN2 supplied with the SIM or USIM card. For more information, contact your service provider.

# Your device displays network or service error messages

- When you are in areas with weak signals or poor reception, you may lose reception. Move to another area and try again. While moving, error messages may appear repeatedly.
- You cannot access some options without a subscription. For more information, contact your service provider.

#### Your device does not turn on

When the battery is completely discharged, your device will not turn on. Fully charge the battery before turning on the device.

# The touchscreen responds slowly or improperly

- If you attach a screen protector or optional accessories to the touchscreen, the touchscreen may not function properly.
- If you are wearing gloves, if your hands are not clean while touching the touchscreen, or if you tap the screen with sharp objects or your fingertips, the touchscreen may malfunction.
- The touchscreen may malfunction in humid conditions or when exposed to water.
- Restart your device to clear any temporary software bugs.
- Ensure that your device software is updated to the latest version.
- If the touchscreen is scratched or damaged, visit a Samsung Service Centre.

#### Your device freezes or encounters a fatal error

Try the following solutions. If the problem is still not resolved, contact a Samsung Service Centre.

# Restarting the device

If your device freezes or hangs, you may need to close apps or turn off the device and turn it on again.

## **Forcing restart**

If your device is frozen and unresponsive, press and hold the Power key and the Volume Down key simultaneously for more than 7 seconds to restart it.

# Resetting the device

If the methods above do not solve your problem, perform a factory data reset.

Launch the **Settings** app and tap **General management**  $\rightarrow$  **Reset**  $\rightarrow$  **Factory data reset**  $\rightarrow$  **Reset**  $\rightarrow$  **Delete all**. Before performing the factory data reset, remember to make backup copies of all important data stored in the device.

#### Calls are not connected

- Ensure that you have accessed the right cellular network.
- Ensure that you have not set call barring for the phone number you are dialling.
- Ensure that you have not set call barring for the incoming phone number.

# Others cannot hear you speaking on a call

- Ensure that you are not covering the built-in microphone.
- Ensure that the microphone is close to your mouth.
- If using an earphone, ensure that it is properly connected.

# Sound echoes during a call

Adjust the volume by pressing the Volume key or move to another area.

# A cellular network or the Internet is often disconnected or audio quality is poor

- Ensure that you are not blocking the device's internal antenna.
- When you are in areas with weak signals or poor reception, you may lose reception. You
  may have connectivity problems due to issues with the service provider's base station.
  Move to another area and try again.
- When using the device while moving, wireless network services may be disabled due to issues with the service provider's network.

# The battery icon is empty

Your battery is low. Charge the battery.

# The battery does not charge properly (For Samsung-approved chargers)

- Ensure that the charger is connected properly.
- Visit a Samsung Service Centre and have the battery replaced.

# The battery depletes faster than when first purchased

- When you expose the device or the battery to very cold or very hot temperatures, the useful charge may be reduced.
- Battery consumption will increase when you use certain features or apps, such as GPS, games, or the Internet.
- The battery is consumable and the useful charge will get shorter over time.

# Error messages appear when launching the camera

Your device must have sufficient available memory and battery power to operate the camera app. If you receive error messages when launching the camera, try the following:

- Charge the battery.
- Free some memory by transferring files to a computer or deleting files from your device.
- Restart the device. If you are still having trouble with the camera app after trying these tips, contact a Samsung Service Centre.

# Photo quality is poorer than the preview

- The quality of your photos may vary, depending on the surroundings and the photography techniques you use.
- If you take photos in dark areas, at night, or indoors, image noise may occur or images may be out of focus.

# Error messages appear when opening multimedia files

If you receive error messages or multimedia files do not play when you open them on your device, try the following:

- Free some memory by transferring files to a computer or deleting files from your device.
- Ensure that the music file is not Digital Rights Management (DRM)-protected. If the file is DRM-protected, ensure that you have the appropriate licence or key to play the file.
- Ensure that the file formats are supported by the device. If a file format is not supported, such as DivX or AC3, install an app that supports it. To confirm the file formats that your device supports, visit www.samsung.com.
- Your device supports photos and videos captured with the device. Photos and videos captured by other devices may not work properly.
- Your device supports multimedia files that are authorised by your network service provider or providers of additional services. Some content circulated on the Internet, such as ringtones, videos, or wallpapers, may not work properly.

# Bluetooth is not working well

If another Bluetooth device is not located or there are connection problems or performance malfunctions, try the following:

- Ensure that the device you wish to connect with is ready to be scanned or connected to.
- Ensure that your device and the other Bluetooth device are within the maximum Bluetooth range (10 m).
- On your device, launch the **Settings** app, tap **Connections**, and then tap the **Bluetooth** switch to re-activate it.
- On your device, launch the Settings app, tap General management → Reset → Reset network settings → Reset settings → Reset to reset network settings. You may lose registered information when performing the reset.

If the tips above do not solve the problem, contact a Samsung Service Centre.

# A connection is not established when you connect the device to a computer

- Ensure that the USB cable you are using is compatible with your device.
- Ensure that you have the proper driver installed and updated on your computer.
- If you are a Windows XP user, ensure that you have Windows XP Service Pack 3 or higher installed on your computer.

# Your device cannot find your current location

GPS signals may be obstructed in some locations, such as indoors. Set the device to use Wi-Fi or a mobile network to find your current location in these situations.

#### Data stored in the device has been lost

Always make backup copies of all important data stored in the device. Otherwise, you cannot restore data if it is corrupted or lost. Samsung is not responsible for the loss of data stored in the device.

# A small gap appears around the outside of the device case

- This gap is a necessary manufacturing feature and some minor rocking or vibration of parts may occur.
- Over time, friction between parts may cause this gap to expand slightly.

# There is not enough space in the device's storage

Delete unnecessary data, such as cache, using the device care feature or manually delete unused apps or files to free up storage space.

# The Apps button does not appear on the Home screen

Without using the Apps button, you can open the Apps screen by swiping upwards or downwards on the Home screen. To display the Apps button at the bottom of the Home screen, launch the **Settings** app, tap **Display**  $\rightarrow$  **Home screen**, and then tap the **Apps button** switch to activate it.

# The Home button does not appear

The navigation bar containing the Home button may disappear while using certain apps or features. To view the navigation bar, drag upwards from the bottom of the screen.

# Bixby does not respond

- · Restart your device to clear any temporary software bugs.
- Ensure that your device software is updated to the latest version.
- If you are still having trouble with Bixby after trying these tips, contact a Samsung Service Centre.

# The screen brightness adjustment bar does not appear on the notification panel

Open the notification panel by dragging the status bar downwards, and then drag the notification panel downwards. Tap • Quick panel layout and tap the Show brightness on top switch to activate it.

## Samsung Cloud does not work

- Ensure that you are connected to a network properly.
- During a Samsung Cloud's service check, you cannot use Samsung Cloud. Try again later.

# The device does not recognise my irises from the locked screen

- Ensure that nothing obstructing the iris recognition camera and LED and try again.
- If light conditions are very different from when you registered your irises, the device may not recognise your irises. Move to another location and try again.
- Ensure that the device is not moving or tilted too much.

# Removing the battery

- To remove the battery, contact an authorised service centre. To obtain battery removal instructions, please visit www.samsung.com/global/ecodesign\_energy.
- For your safety, you <u>must not attempt to remove</u> the battery. If the battery is not properly removed, it may lead to damage to the battery and device, cause personal injury, and/or result in the device being unsafe.
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