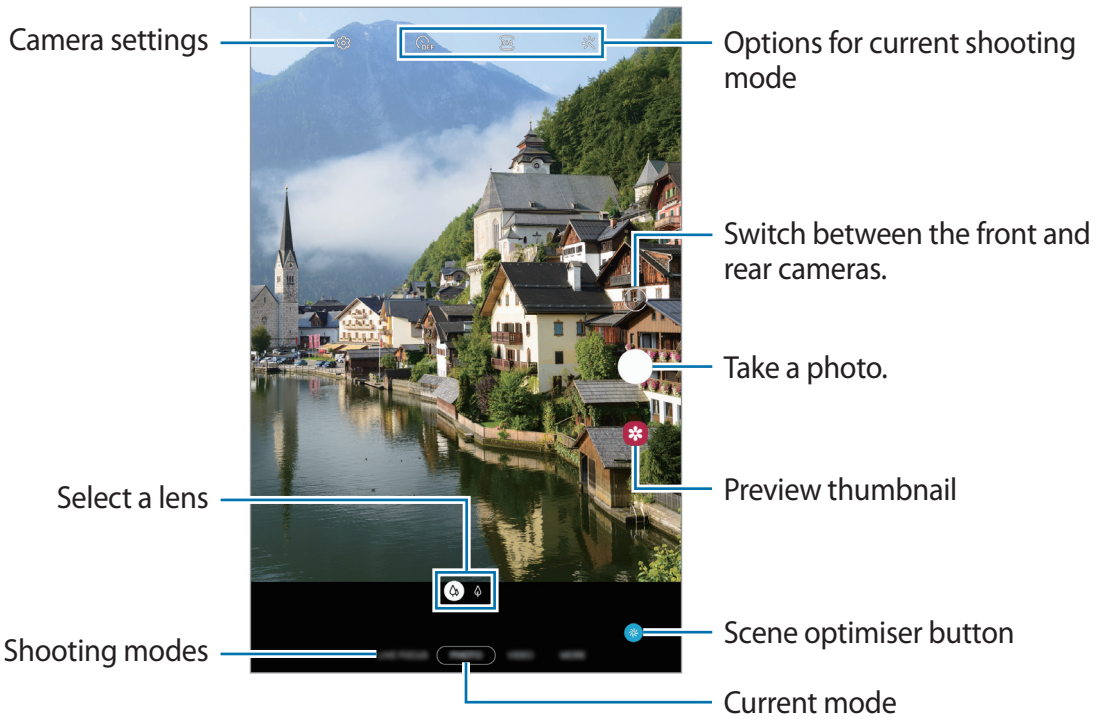
2 Tap ◯ to take a photo.



- 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.

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.

Selecting a lens for shooting

On the preview screen, select the lens you want and take a photo or record a video.

This feature is only available in some shooting modes.

- : The wide-angle lens lets you take basic photos or record normal videos.
- : The telephoto lens (2x optical zoom) lets you take photos or record videos by enlarging the subject.

Basic shooting

2x optical zoom shooting

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.

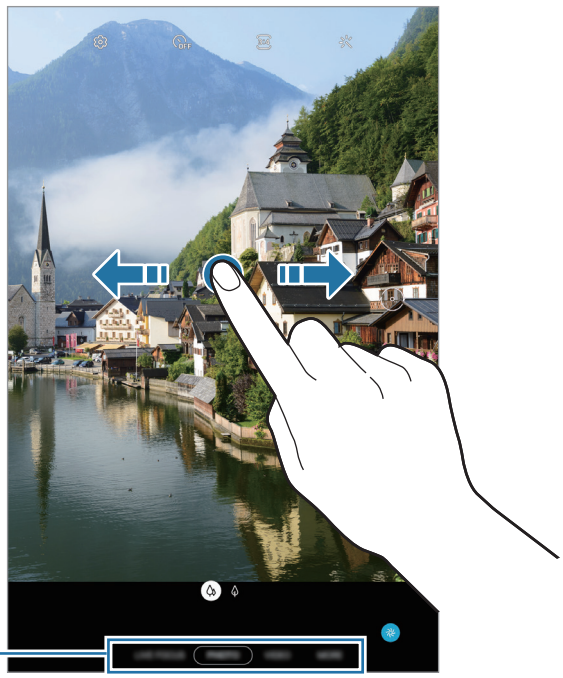


Photo mode (Intelligent camera)

The camera adjusts the shooting options automatically depending on the surroundings to capture photos easily. The intelligent camera feature automatically recognises the subject and optimises the colour and any effects.

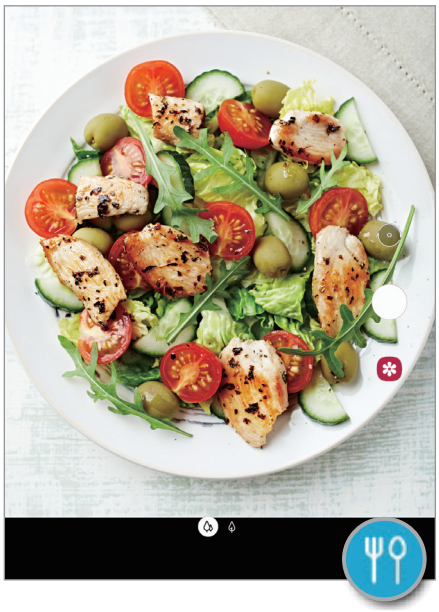
On the shooting modes list, tap **PHOTO** and tap ◯ to take a photo.

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, the scene optimiser button will change and the optimised colour and effect will be applied.

- If this feature is not activated, tap ⚙ on the preview screen and tap the **Scene optimiser** switch to activate it.
- To use additional features, tap ⚙ on the preview screen, tap **Scene optimiser**, and then tap the switches next to the features you want.
- If you do not want to use this feature, tap the **Scene optimiser** button on the preview screen.



Shot suggestions

The camera suggests the ideal composition for the photo by recognising the position and angle of your subject.

On the preview screen, tap ⚙ and tap the **Shot suggestions** switch to activate it.

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

A guide will appear on the preview screen.

2 Point the guide at the subject.

The camera recognises the composition, and the recommended composition appears on the preview screen.

3 Adjust the position and angle of the camera to fit the composition.

When the ideal composition is achieved, the guide will change to yellow.

4 Tap ◯ to take a photo.

Taking selfies

You can take self-portraits with the front camera.

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

2 On the preview screen, swipe upwards or downwards, or tap to switch to the front camera for self-portraits.

3 Face the front camera lens.

To take self-portraits with a wide-angle shot of the landscape or people, tap .

4 Tap ◯ to take a photo.

Applying filter and beauty effects

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

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 depending on the surroundings to record videos easily.

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

2 Tap ● to record a video.

- 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** to cancel the manually set focus.

3 Tap ■ to stop recording the video.

The 2x optical zoom may not work in low-light environments.

Live focus mode

Take photos that focus on the face by blurring the background. You can also apply a background effect and edit it after taking a photo.

Blur

Spin

Zoom

Colour point

- 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 has a similar colour to the background.

Taking portraits that stand out using the Live focus feature

1 On the shooting modes list, tap **LIVE FOCUS**.

Drag the background blur adjustment bar to the left or right to adjust the blur level.

2 When **Ready** appears on the preview screen, tap ◯ to take a photo.

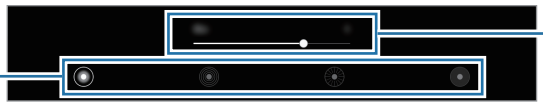
Editing the background of the Live focus photos

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**.

2 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.

Pro mode

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

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

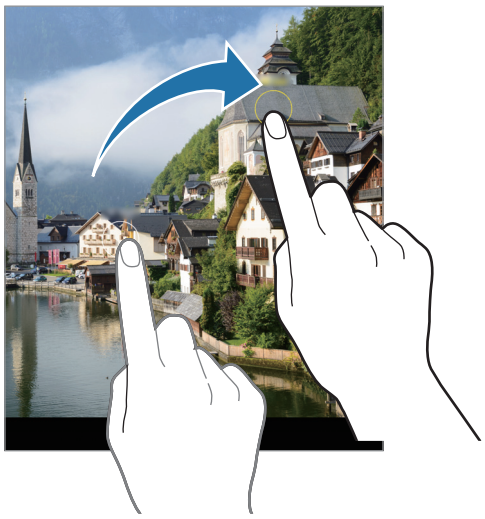
Available options

- ISO : 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.
- 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.

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.



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 **MORE** → **PANORAMA**.

2 Tap ◯ and move the device slowly in one direction.

3 Tap ◉ to stop taking photos.

Food mode

Take photos of food with more vibrant colours.

1 On the shooting modes list, tap **MORE** → **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 ⊛ and drag the adjustment bar to adjust the colour tone.

4 Tap ◯ to take a photo.

Hyperlapse mode

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

1 On the shooting modes list, tap **MORE** → **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.

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.

- : Select the length of the delay before the camera automatically takes a photo.
- : Select an aspect ratio for photos.
- : Apply a filter effect or beauty effects.
- : Select a frame rate.
- : Select an aspect ratio for videos.
- : Record fun videos with virtual handwriting or drawings on faces or anywhere else. Refer to AR Doodle for more information.
- : Select a metering method. This determines how light values are calculated. **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.
- : In **Food** mode, focus on a subject inside the circular frame and blur the image outside the frame.
- : In **Food** mode, adjust the colour tone.

Camera settings

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

Intelligent features

- **Scene optimiser**: Set the device to adjust the colour settings and apply the optimised effect automatically depending on the subject or scene.
- **Shot suggestions**: Set the device to suggest the ideal composition for the photo by recognising the position and angle of your subject.
- **Scan QR codes**: Enable or disable the QR code reader.

Pictures

- **Hold Shutter button to**: Select an action to perform when you tap and hold the camera button.
- **HEIF pictures (Photo)**: Take photos in the High Efficiency Image Format (HEIF). Your HEIF photos will be saved as compressed files to conserve the device's memory.

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.
- **High efficiency video**: 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.
- **Video stabilisation**: Activate anti-shake to reduce or eliminate blurry image resulting from camera shake while recording a video.

Useful features

- **HDR (rich tone)**: Take photos with rich colours and reproduce details even in bright and dark areas.
- **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 additional shooting methods 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.
- **Watermark**: Add a watermark in the bottom left corner when taking pictures.
- **Reset settings**: Reset the camera settings.
- **Contact us**: Ask questions or view frequently asked questions.
- **About Camera**: View the Camera app version and legal information.

Gallery

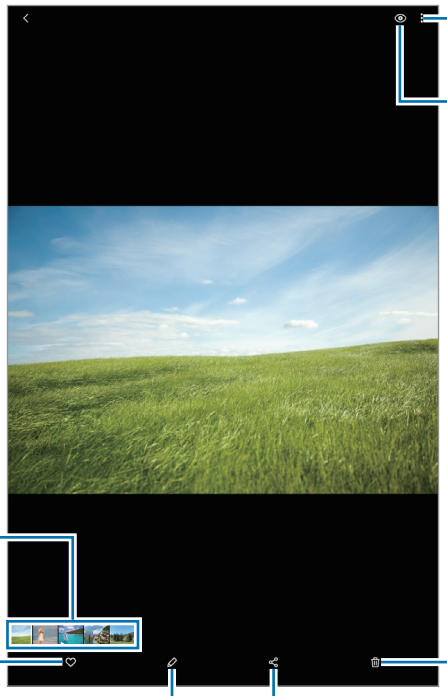
Introduction

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 → **Create GIF** or **Create collage**, and then select images.

Searching for images

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

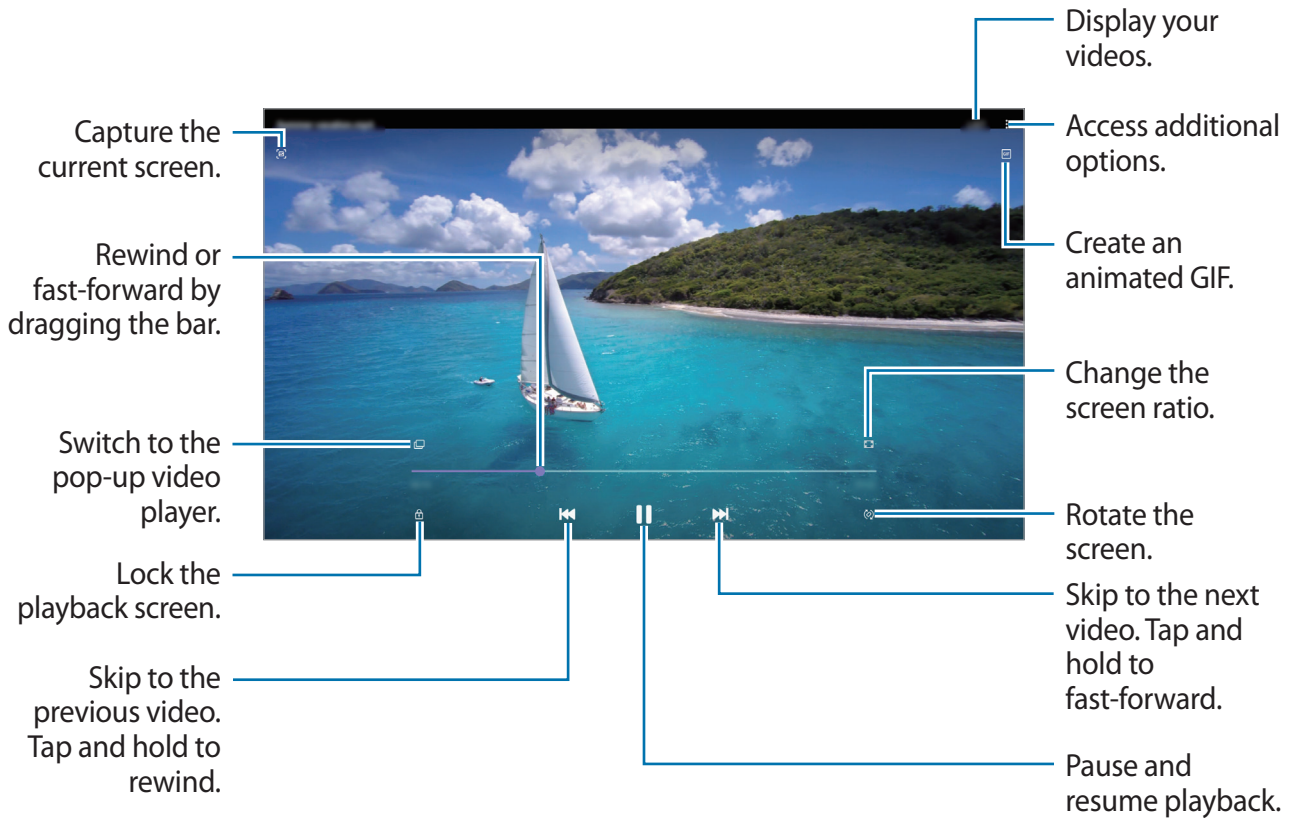
To search for images by entering keywords, tap the search field.

Viewing videos

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

2 Select a video to play.

3 Tap **Play video** to play the video.



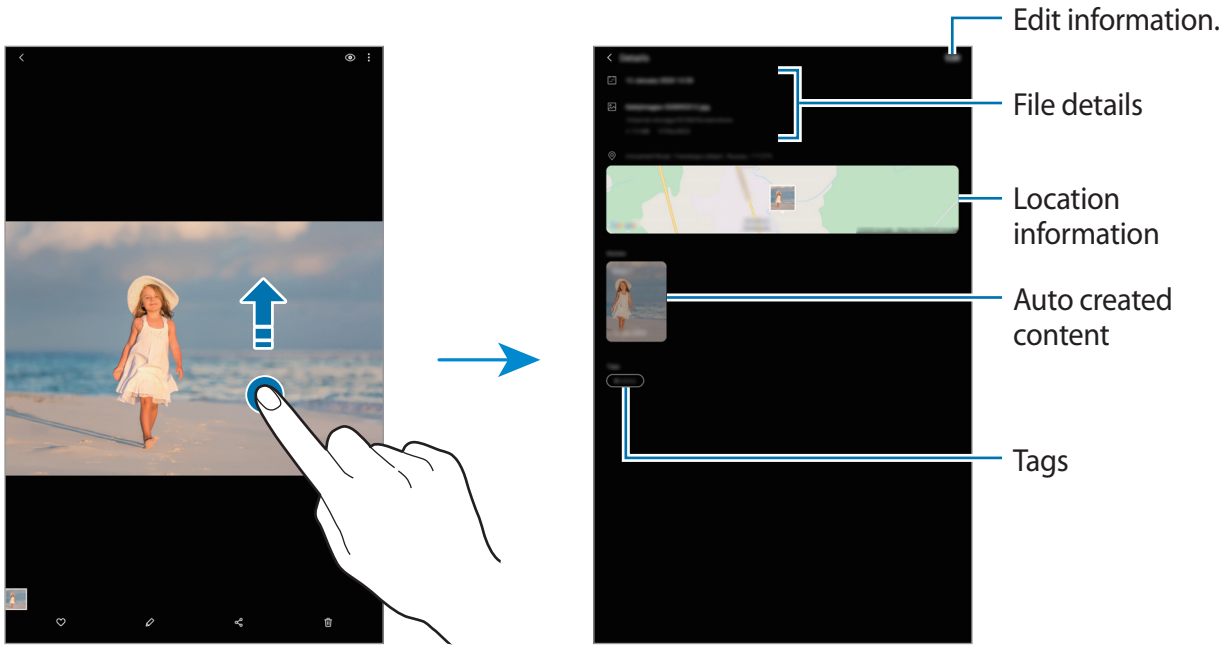
Drag your finger up or down on the left side of the playback screen to adjust the brightness, or drag your finger up or down on the right side of the playback screen to adjust the volume.

To rewind or fast-forward, swipe to the left or right on the playback screen.

Viewing the details of images and videos

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 photos or videos by category

You can view photos and videos by category.

Launch the **Gallery** app, tap **Pictures** or **Albums**, and then drag the list downwards to select a category.

- **Videos**: View the videos saved in your device.
- **Favourites**: View your favourite photos and videos.
- **Recent**: View recent photos and videos.
- **Suggested**: View recommended content.

Viewing albums

You can view your images and videos sorted by folders or albums.

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**.

2 Tap ⋮ → **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 ⋮ → **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 ⋮ → **Add**.

To remove images or videos from a story, select a story, tap ⋮ → **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**.

Syncing images and videos

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

1 Launch the **Gallery** app.

2 Select an image or a video to delete.

To delete multiple files, tap and hold a file to delete on the list and tick more files to delete.

3 Tap 🗑 or **Delete**.

Using the recycle bin feature

You can keep the deleted images and videos in the recycle bin. The files will be deleted after a certain period.

Launch the **Gallery** app, tap ⋮ → **Settings**, and then tap the **Recycle bin** switch to activate it.

To view files in the recycle bin, launch the **Gallery** app and tap ⋮ → **Recycle bin**.

AR Doodle

Record fun videos with virtual handwriting or drawings on faces or anywhere else. When the camera recognises a face or space, the doodles on the face will follow the face as it moves, and the doodles in the space will be fixed in the same place even if the camera moves.

1 Launch the **Camera** app and tap **VIDEO** on the shooting modes list.

2 Tap and select a mode you want.

When the camera recognises the subject, the recognition area will appear on the screen.

- **Face**: Doodle on a face.
- **Everywhere**: Doodle anywhere else.

3 Write or draw in the recognition area.

If you tap and then begin to doodle, you can record yourself doodling.

4 Tap to record a video.

5 Tap to stop recording the video.

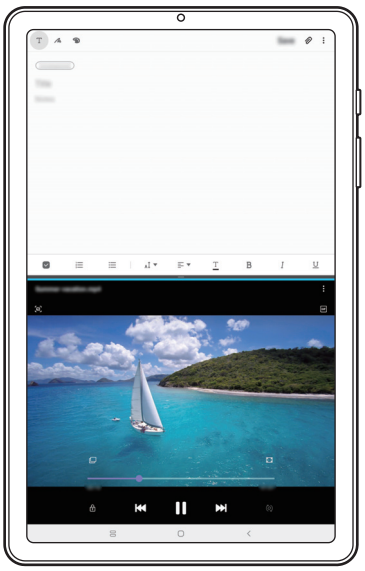
You can view and share the video in **Gallery**.

Multi window

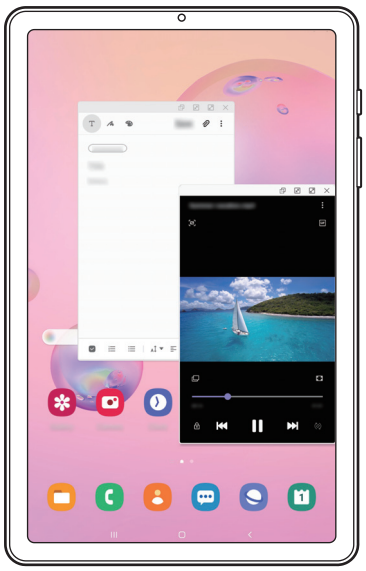
Introduction

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

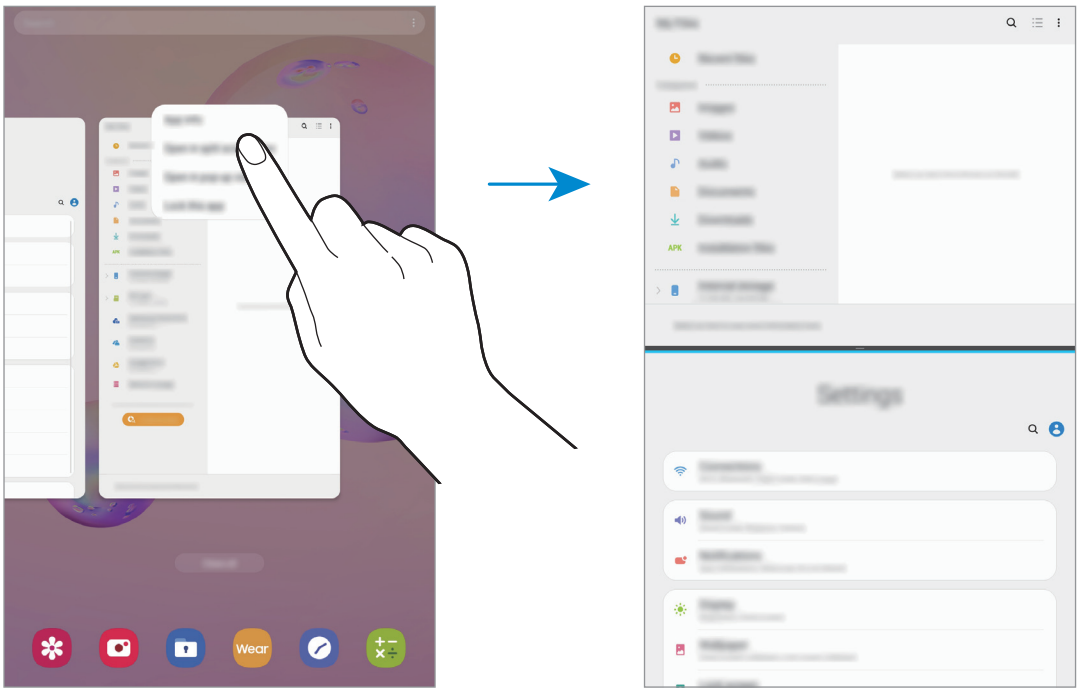
1 Tap the Recents button to open the list of recently used apps.

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.

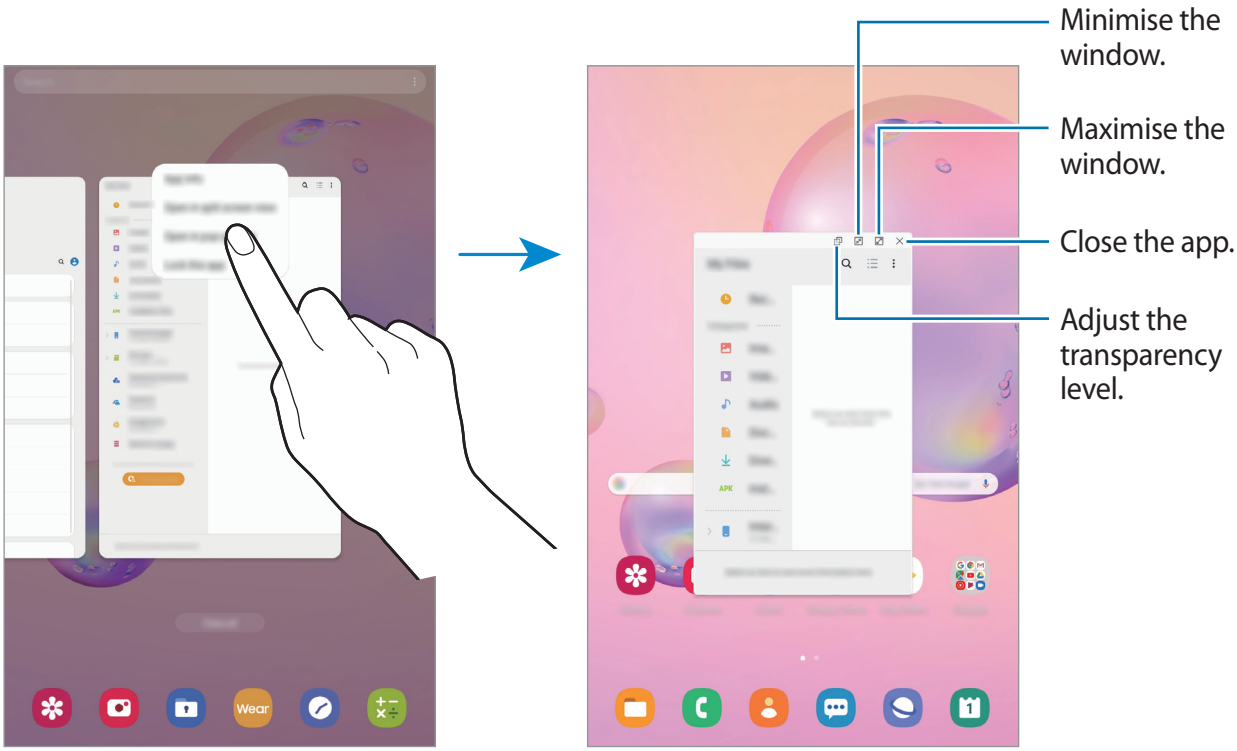
When you drag the bar between the app windows to the top or bottom edge of the screen, the window will be maximised.

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.

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.

To submit your feedback or post your comments, you must sign in to your Samsung account. Refer to Samsung account for more information.

Samsung Notes

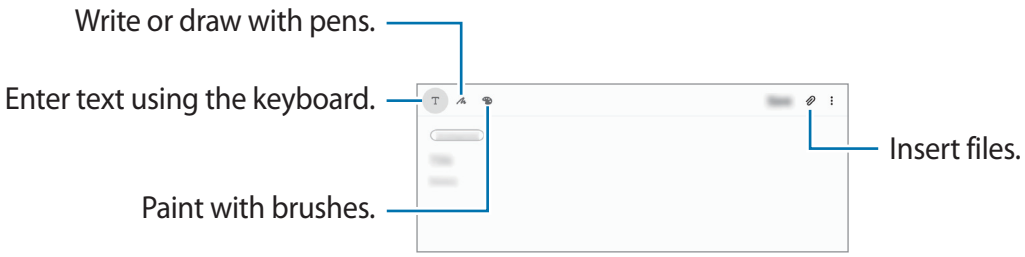
Introduction

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 +.

2 Select an input method from the toolbar at the top of the screen and compose a note.



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