Accessibility

It is important for phones to be accessible to as wide a range of users as possible, including those with visual or physical and motor issues. In Android this is done through the **Accessibility** settings. To use these:

1 Tap on the **Settings** app

2 Tap on the **Accessibility** button

> **Accessibility**
> Vision, Hearing, Dexterity and interaction

3 The main categories are listed at the top of the window. These are **Vision**, **Hearing**, and **Dexterity and interaction**. Tap on one to view the full range of settings within it

> < ACCESSIBILITY
>
> CATEGORIES
>
> Vision
>
> Hearing
>
> Dexterity and interaction
>
> MORE SETTINGS
>
> Text-to-speech
>
> Direction lock
> Unlock the screen by swiping in a series of directions.

The Vision section has a **Font size** option (accessed from the **Screen zoom and font** link) where the font size can be increased, or decreased, for compatible apps, display and system settings.
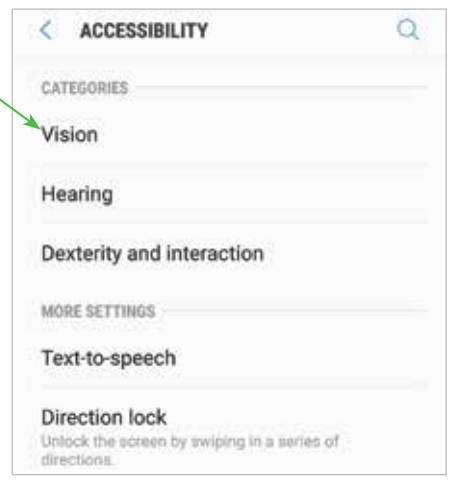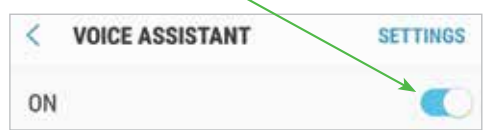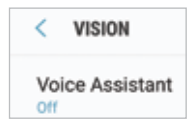
Vision settings

1 Tap on the **Vision** button in Step 3 above and tap on the **Voice Assistant** button. Drag the **Voice Assistant** button to **On**, whereby the phone will provide spoken information about items on screen and those that are being accessed

> < VISION
>
> Voice Assistant
> Off

> < VOICE ASSISTANT   SETTINGS
>
> ON

To turn off Voice Assistant, tap on the **Voice Assistant** button once in the second Step 1 and then double-tap on it to turn it off.

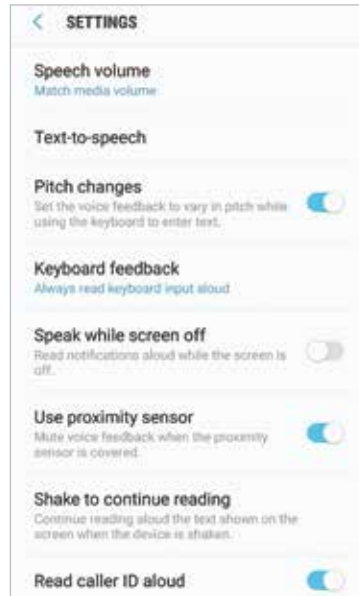**2** Tap on the **Settings** button at the top of the Voice Assistant window to apply options for how it functions

SETTINGS

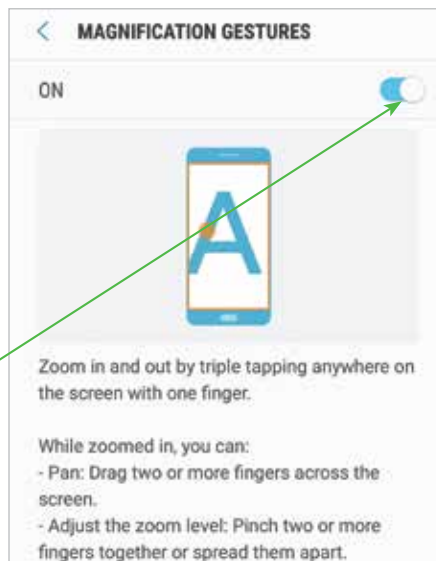| < SETTINGS |
|---|
| Speech volume
Match media volume |
| Text-to-speech |
| Pitch changes
Set the voice feedback to vary in pitch while
using the keyboard to enter text. |
| Keyboard feedback
Always read keyboard input aloud |
| Speak while screen off
Read notifications aloud while the screen is
off. |
| Use proximity sensor
Mute voice feedback when the proximity
sensor is covered. |
| Shake to continue reading
Continue reading aloud the text shown on the
screen when the device is shaken. |
| Read caller ID aloud |

Experiment with the Accessibility settings to become familiar with the functionality of each one.

3 The active items are highlighted by a blue outline. Tap on an item to hear an audio description

SETTINGS

4 Tap on **Magnification gestures** in the Vision section to access the setting for zooming on the screen by triple-tapping on it

5 Drag this button **On** and triple-tap on the screen to zoom in on what is being viewed

< MAGNIFICATION GESTURES
ON
A
Zoom in and out by triple tapping anywhere on the screen with one finger.
While zoomed in, you can: - Pan: Drag two or more fingers across the screen. - Adjust the zoom level: Pinch two or more fingers together or spread them apart.

...cont'd

Hearing settings
To use some of the Hearing settings:

1 Tap on the **Hearing** option in Step 3 on page 48

2 Tap on the **Flash notification** option to enable the screen to flash for notifications and calls

> **Flash notification**
> Flash the camera light when you receive notifications or when alarms sound.

3 Tap on the **Turn off all sounds** option to mute sounds for everything

> **Turn off all sounds**
> Do not play any sounds, including via the speakerphone, even if the sound mode is set to Sound.

4 Tap on the **Google subtitles CC** (Closed Captions) button
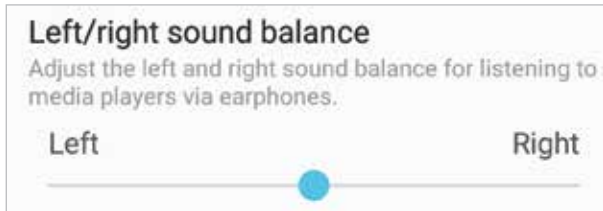
> Google subtitles (CC)

5 Drag the **Google subtitles** button to **On** to display subtitles in compatible apps – e.g. for movies or TV shows. Select the options for how the subtitles are displayed
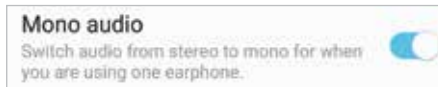
> **< GOOGLE SUBTITLES (CC)**
> ON
> Captions will look like this.
> BASIC OPTIONS
> Language
> Default
> Text size
> Normal
> Caption style
> White on black

6 Below the **Left/right sound balance** heading drag the slider to the required side to adjust the sound balance when using earphones

Left/right sound balance

Adjust the left and right sound balance for listening to media players via earphones.

Left   Right

7 Tap on the **Mono audio** checkbox to use mono if using one earphone

Mono audio

Switch audio from stereo to mono for when you are using one earphone.

Regardless of the sound balance, keep the overall volume on your phone to a reasonable and comfortable level; if it is too loud it may cause long-term damage, particularly when using earphones.
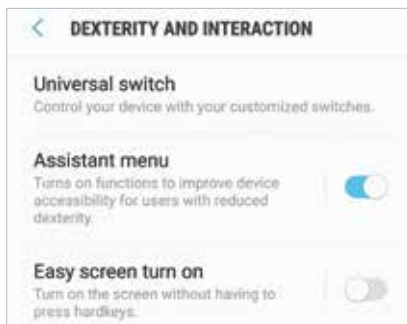
Dexterity and interaction settings

To use some of the Dexterity and interaction settings:

1 Tap on the **Dexterity and interaction** option in Step 3 on page 48

2 Tap on the **Assistant menu** option to create quick access to items

< DEXTERITY AND INTERACTION

Universal switch

Control your device with your customized switches.

Assistant menu

Turns on functions to improve device accessibility for users with reduced dexterity.

Easy screen turn on

Turn on the screen without having to press hardkeys.

3 Tap on the **Tap and hold delay** option to specify a time period before a key becomes active after pressing and holding it

The options in Steps 3 and 4 are located further down the Dexterity and interaction page.

4 Tap on the **Interaction control** option to specify areas of the screen that can be inactive to touch