CHILD DISABILITY PARENT EDUCATION

UNDERSTANDING ACCESSIBILITY

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What is accessibility?

The concept (Accessibility) focuses on enabling access for people with disabilities, special needs, or enabling access to entities through the use of assistive technology;

Products or services designed to meet these regulations are often termed Easy Access or Accessible.

However, research and development in accessibility brings benefits to everyone, making everyday mediums accessible to all people (whether they have a disability or not).

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The major categories of disability types are

- **Visual**: Blindness, low vision, colour-blindness
- **Hearing**: Deafness and hard-of-hearing
- **Motor**: Inability to use a mouse, slow response time, limited fine motor control
- **Cognitive**: Learning disabilities, distractibility, inability to remember or focus on large amounts of information

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Why do we need to make mediums accessible?

1) It's the right thing to do
2) It promotes and encourages equal opportunity and unrestricted access
3) It's the law

The History - The Disability Rights Movement

The Disability Rights Movement is a global movement for equal opportunities and rights for people across the disability spectrum. The Disability Rights Movement started in the 1960's in the United States; encouraged by the civil rights movement.

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The History - UK Web Accessibility Law

The UK has had various anti-discrimination laws over the years. The Disability Discrimination Act 1995 was a step towards a concrete UK web accessibility law, but it was not explicit in the inclusion of websites as the internet was still in its early days. Since then, the different discrimination laws have been consolidated, simplified, and strengthened through the Equality Act of 2010.

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The History - The Equality Act 2010 (EQA)

The Equality Act of 2010 provides legal protection for people against discrimination in the workplace and wider society. It prohibits businesses from excluding anyone from using their services because of a disability.

The EQA was created to harmonize UK discrimination law by both uniting and reiterating existing discrimination legislation.

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The History - The Equality Act 2010 (EQA)

As mentioned before, the Disability Discrimination Act 1995 was the previous legislation that ensured accessibility. While the DDA did not mention the internet specifically, it did include “access to and use of information services” amongst the examples of services which had to be accessible to people with disabilities.

The EQA made sure to cement that websites are indeed included in the types of businesses that need to comply with this new UK web accessibility law.

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Keeping Web Accessibility In Mind

Making Your Computer Accessible

Microsoft Accessibility

There is no limit to what people can achieve when technology reflects the diversity of all who use it. Transparency, accountability and inclusion aren't just built into the Microsoft culture. They're reflected in products and services designed for people of all abilities.

Over one billion people in the world have a disability. The opportunity to empower people through technology, particularly those with disabilities, has never been more important.

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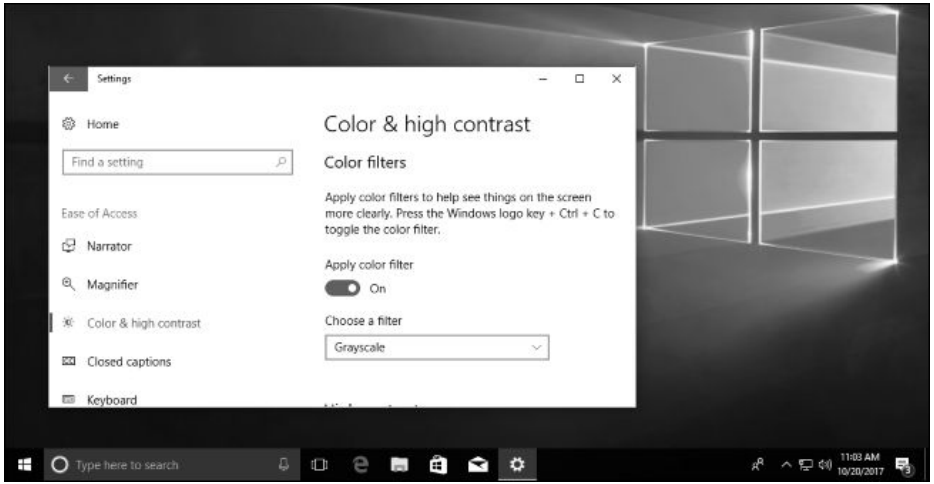
How to use colour filters in Windows 10

If it's hard to see what's on the screen, apply a colour filter. Colour filters change the colour palette on the screen and can help you distinguish between things that differ only by colour.



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Colour filters in Windows 10 - How to Access

To use a colour filter:

Select Start > Settings > Ease of Access > colour filters.

Switch on the toggle under Turn on colour filters.

Then, select a colour filter from the menu.

Note: To get to colour filter settings in previous versions of Windows 10, select Start > Settings > Ease of Access > colour & high contrast.

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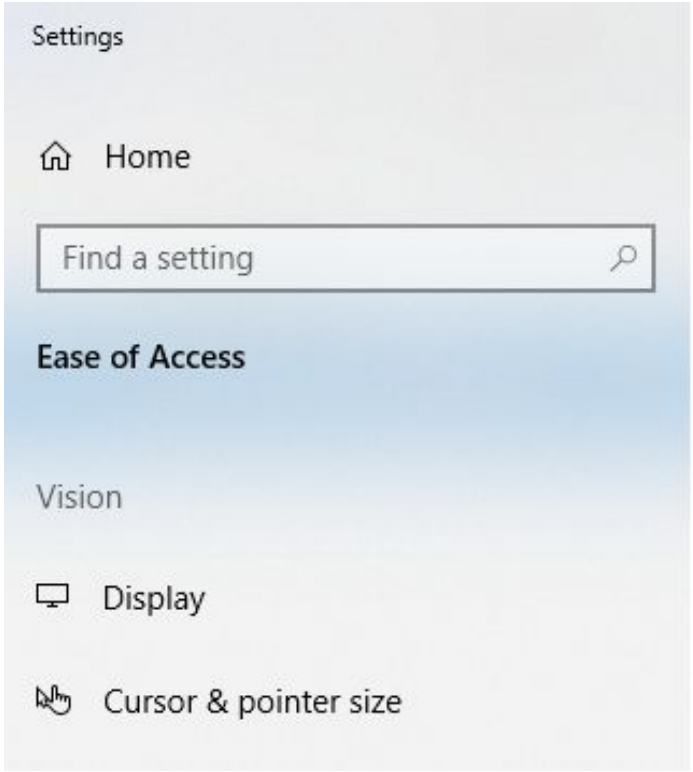
Colour filters in Windows 10



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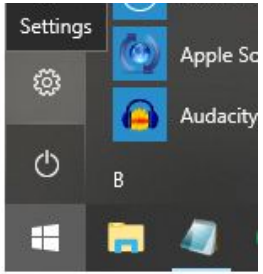
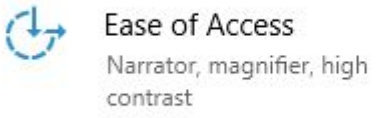
Testing your colour settings - Exercise #1

- Split into 4 groups (Spain/Romania/Russia/UK+Turkey)
- Go to Settings
- Go to the Ease of Access menu
- Select Colour Filters and test out some of the settings
- Each group give one reason why or how these settings can be helpful





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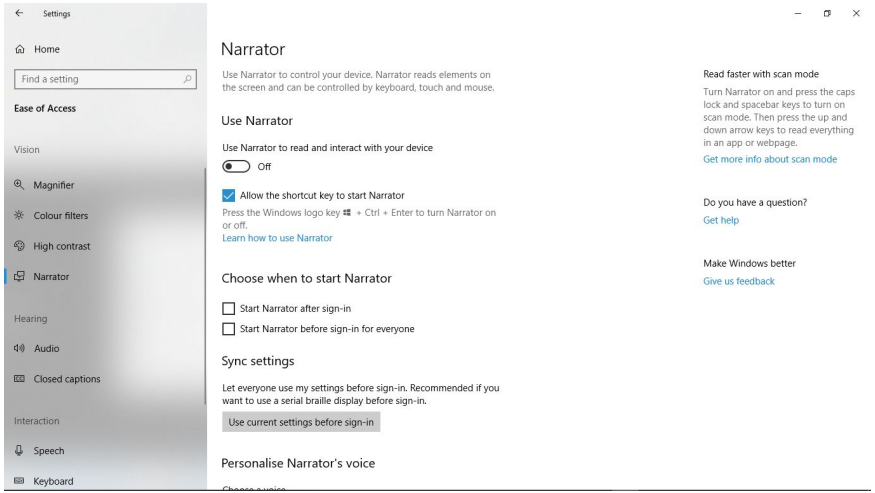
How to use narrator in Windows 10

Narrator is a light-duty screen reader utility included in Microsoft Windows. Narrator reads dialog boxes and window controls in a number of the more basic applications for Windows



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Narrator in Windows 10 - How to Access

To use narrator:

Select Start > Settings > Ease of Access > Narrator.

Switch on the toggle under Use narrator to read and interact with your device.

You can choose to have the narrator start automatically after sign-in

Again, access to these settings may vary in older versions of Windows

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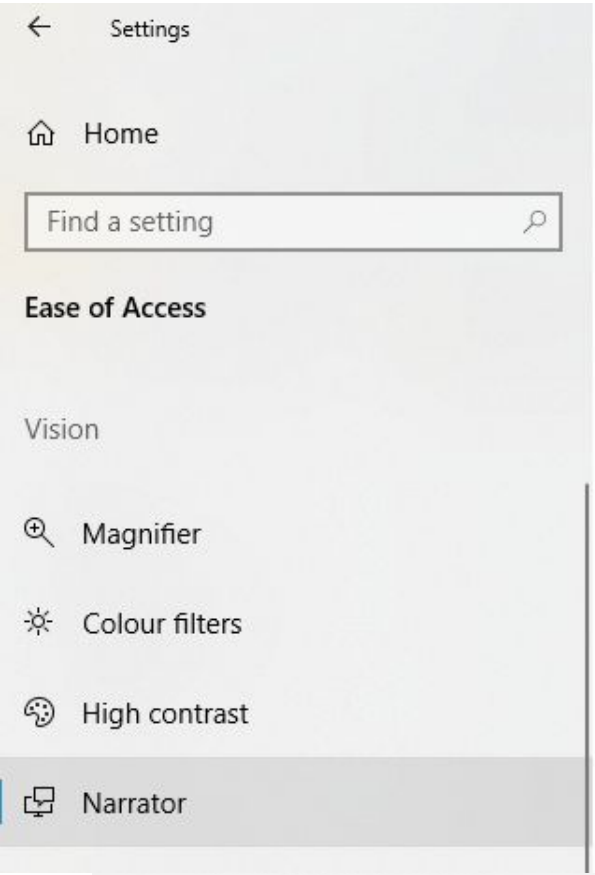

Narrator

Use Narrator to control your device. Narrator reads elements on the screen and can be controlled by keyboard, touch and mouse.

Use Narrator

Use Narrator to read and interact with your device

Off

Allow the shortcut key to start Narrator

Press the Windows logo key + Ctrl + Enter to turn Narrator on or off.

Learn how to use Narrator

Choose when to start Narrator

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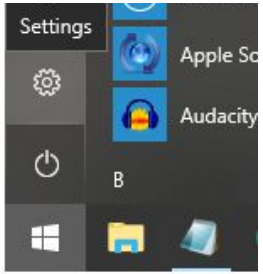
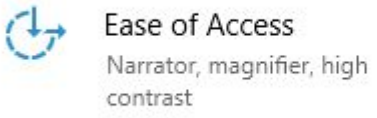
Testing your narrator settings - Exercise #2

- Again, split into 4 groups (Spain/Romania/Russia/UK+Turkey)
- Go to Settings
- Go to the Ease of Access menu
- Select Narrator and test out some of the settings
- Each group give one reason why or how these settings can be helpful





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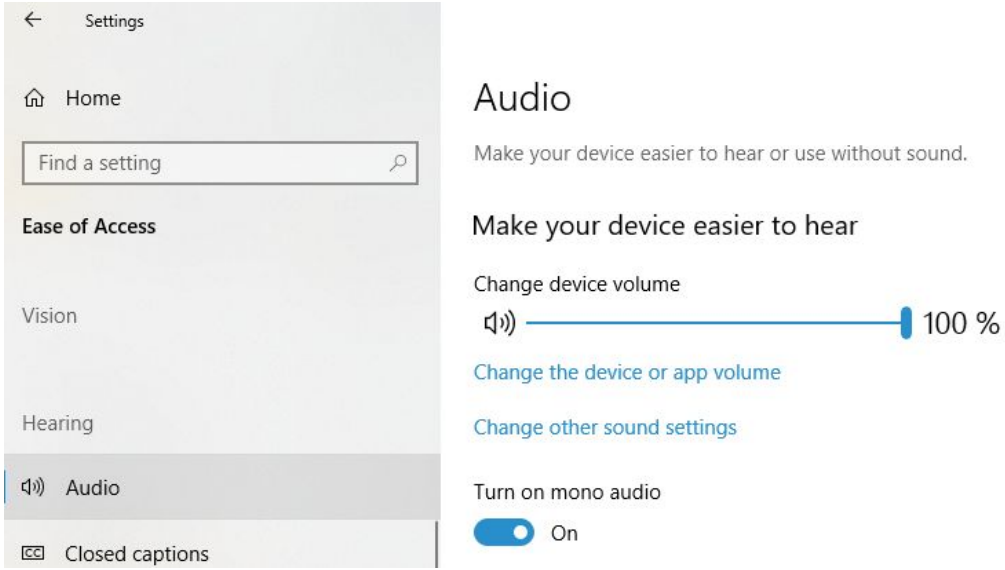
Audio settings in Windows 10 - Stereo to mono

In Windows 10, you can set stereo sound to mono. If you have trouble hearing sound in stereo, it might help to set Windows to convert all stereo sound to mono.



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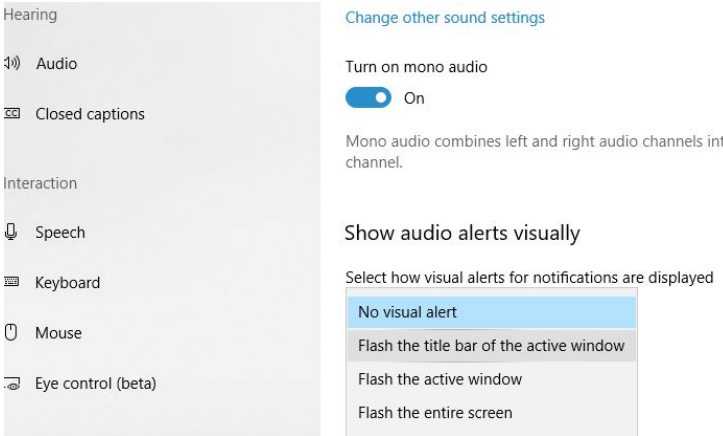
Audio settings in Windows 10 - Visual Alerts

Many PC functions include alerts to tell you about things you might want or need to know, like when an email or notification arrives, a sign-in attempt fails, or there's an error. The alerts often come with an audio signal, such as a beep or chime, but you can set Windows 10 to replace that with a visual notification. This means a brief flash of brightness, which can light up your title bar, the active window you're working in, or your entire screen. as well.



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Audio settings in Windows 10 - How to Access

To use audio settings:

Select Start > Settings > Ease of Access > Audio.

Stereo to Mono: Switch on the toggle under Turn on mono audio to convert stereo sound to mono.

Show audio alerts visually: Click on th drop down menu to select how you'd like audio alerts displayed.

Again, access to these settings may vary in older versions or Windows

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Closed captions in Windows 10 - How to Access

In Windows 10, you can set the size, color and font of Closed Captions that appears in Windows apps, and in some websites you view with Microsoft Edge. This not only can help those with hearing difficulties watch videos more comfortably, it also can be helpful for people who are blind or who have low vision as well.

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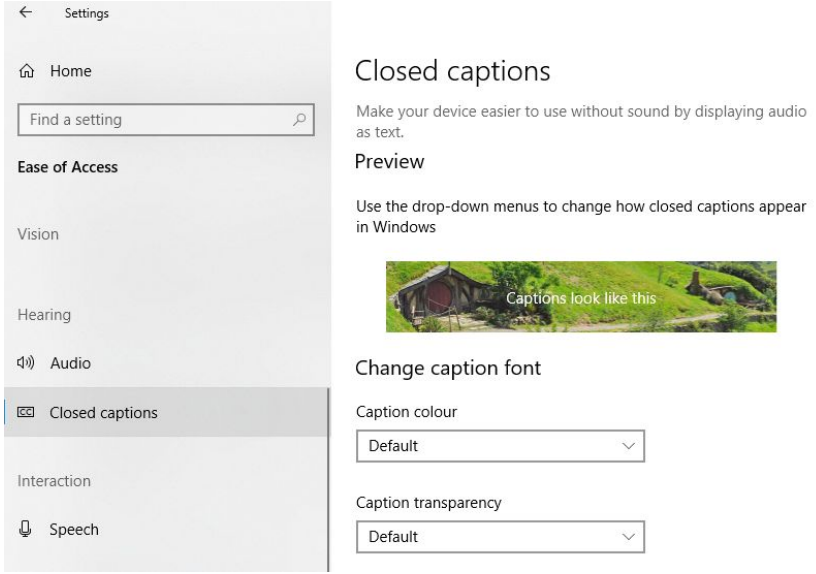
How to use closed caption Windows 10

There are many ways to make closed captions appear just how you want them. Under Change caption font, you can change the color, transparency, style, size, and effects of the actual words in your captions. Under Change caption background, you can put a color behind the captions for better contrast and visibility. Check Preview at the top of the screen to see if you like your new settings.



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Closed caption in Windows 10 - How to Access

To use closed captions:

Select Start > Settings > Ease of Access > Closed Caption.

These settings might not apply to some videos you watch online, like on YouTube or some online news sites.

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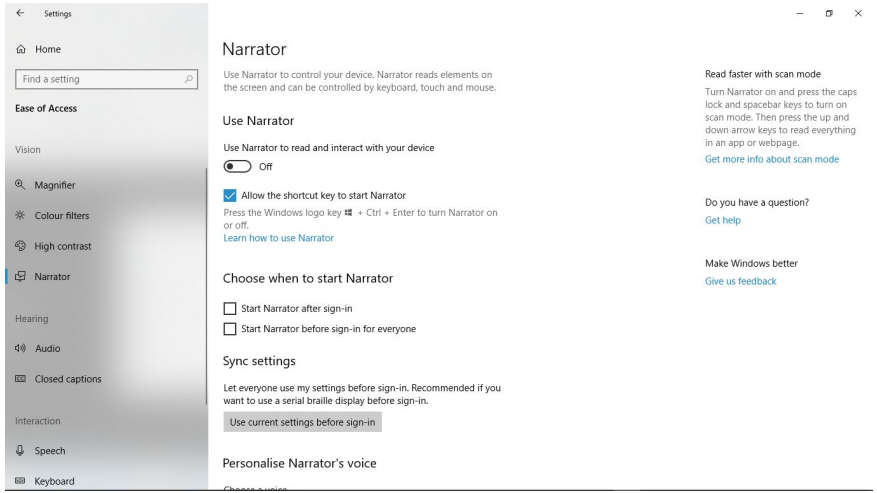
Make your presentations more inclusive with Live Captions & Subtitles

or even translating your speech from one language to another

How to use speech recognition in Windows 10

Windows Speech Recognition lets you control your PC by voice alone, without needing a keyboard or mouse.



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How to use speech recognition in Windows 10

Anytime you need to find out what commands to use, say "what can I say?"

Please note, Speech Recognition is available only for the following languages: English (United States, United Kingdom, Canada, India, and Australia), French, German, Japanese, Mandarin (Chinese Simplified and Chinese Traditional), and Spanish.

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How to use speech recognition in Windows 10

Here are some commands you can use with Speech Recognition.

To do this	Say this
Open Start	Start
Open Cortana **Note** Cortana is available only in certain countries/regions, and some Cortana features might not be available everywhere. If Cortana isn't available or is turned off, you can still use search.	Press Windows C
Open Search	Press Windows S
Perform an action in an app	Right-click; Press Windows Z; press ctrl B
Select an item by its name	**File**; **Start**; **View**
Select an item or icon	Click **Recycle Bin**; Click **Computer**; Click **file name**

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Speech recognition in Windows 10 - How to Access

To use speech recognition:

Select Start > Settings > Ease of Access > Speech.

Switch on the toggle under Turn on speech recognition to use it with your device.

Again, access to these settings may not be available or vary in older versions of Windows

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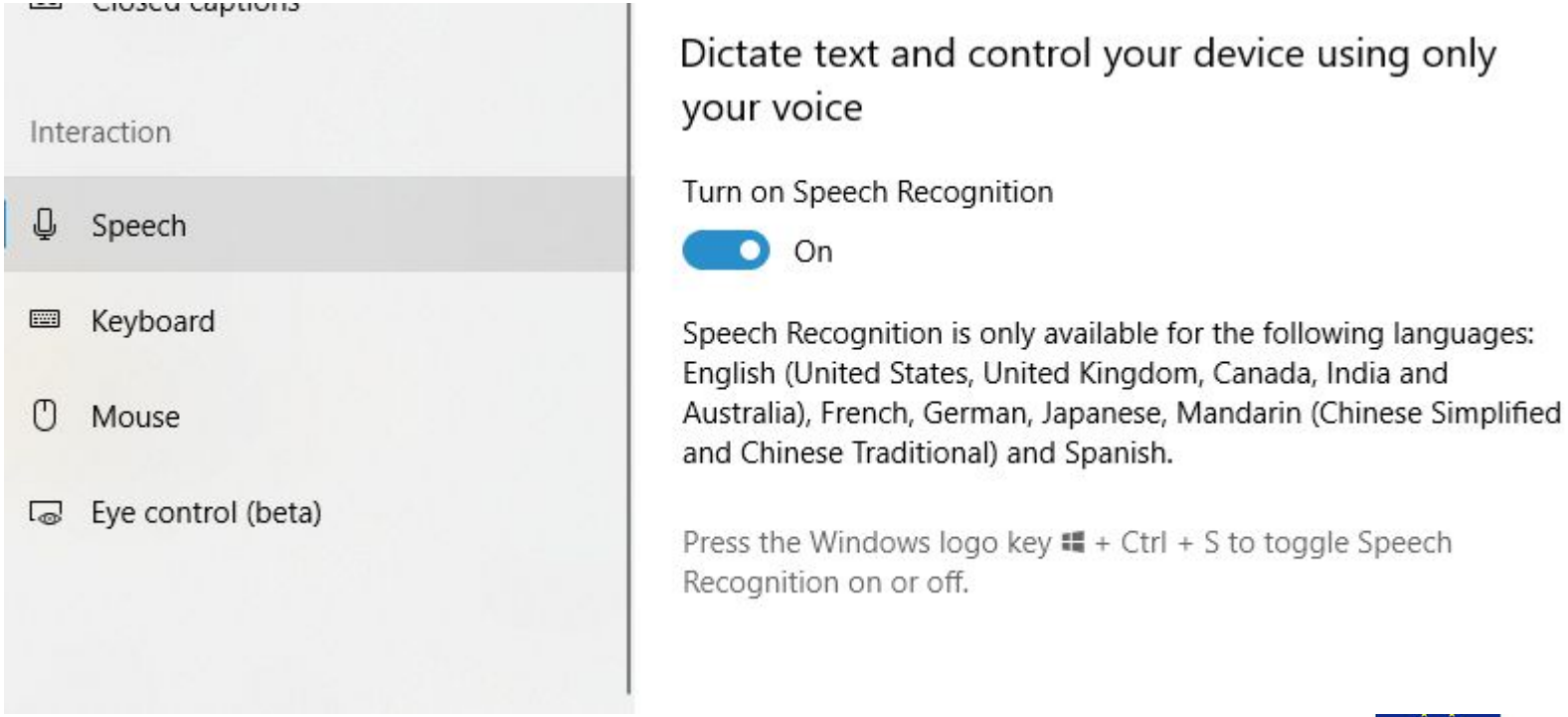
Speech recognition



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Speech recognition

With speech recognition, you may have to set up your PC to recognise your voice and learn how you speak.

You are also advised to use a separate or external microphone (for best results).

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Android accessibility

You can customize your Android device using accessibility settings and apps.

Android Accessibility Suite is a collection of accessibility services that help you use your Android device eyes-free or with a switch device.

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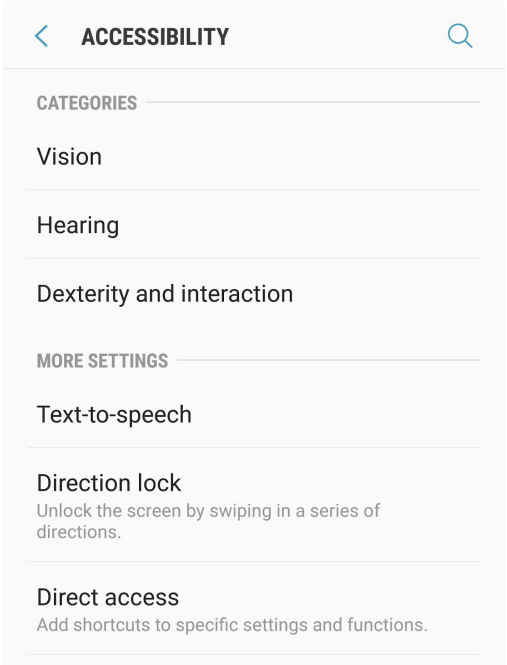
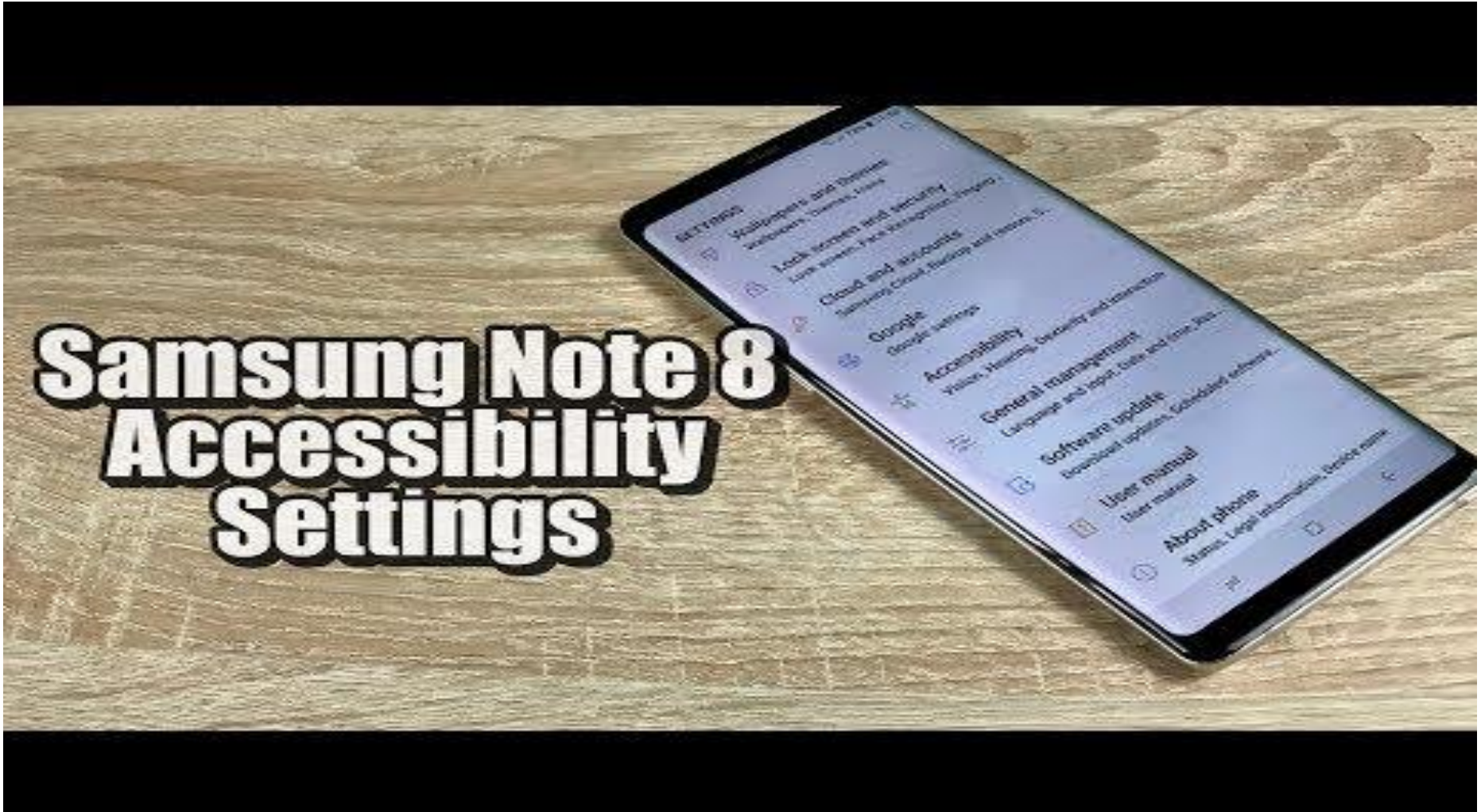
How to find the accessibility menu on Android?

1. Open your device's Settings app Settings app
2. Tap Accessibility, then Volume key shortcut.
3. On some devices, this setting is called Accessibility shortcut.



Samsung Galaxy Note 8 Accessibility Settings


Samsung Note 8
Accessibility
Settings

Turn on accessibility in Android

If you own an Android phone, try playing with the accessibility settings to see some of the functions available on your handset.

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Top 6 Assistive Technology For People With Disabilities

sesame
touch is overrated
Touch-Free
SMARTPHONE
Designed for people with disabilities
verizon
POWERFUL ANSWERS AWARD
2014 WINNER
FUNDED WITH INDIEGOGO

Useful Links & Referenced Material

Windows Speech Recognition commands

https://support.microsoft.com/en-us/help/12427/windows-speech-recognition-commands

Make Windows easier to hear

https://support.microsoft.com/en-us/help/27933/windows-10-make-windows-easier-to-hear

Microsoft accessibility overview

1. Vision
2. Hearing
3. Neurodiversity
4. Learning
5. Mobility
6. Mental health

https://www.microsoft.com/en-us/accessibility/features?activetab=pivot_1:primaryr2

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Useful Links & Referenced Material

Microsoft Accessibility Learning Webinar Series

At Microsoft, our mission is to empower every person and organization on the planet to achieve more. We are committed to delivering great experiences and customer service to people with disabilities. We have received feedback from many of our customers asking for training on the accessibility features of our products. Our team also understands not all our customers have the flexibility to connect with Microsoft accessibility experts at conferences. In response to overwhelming demand, we are launching a monthly webinar series to empower every customer with accessibility knowledge.

Read more & sign up

https://sway.office.com/ofnj0y3PT7dnqb0Z?ref=Link

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Useful Links & Referenced Material

Web Accessibility Initiative (WAI) - Teach and Advocate Overview

This page links to resources related to teaching web accessibility and advocating for web accessibility.

https://www.w3.org/WAI/teach-advocate/

Training Resources

How to Make Your Presentations Accessible to All

Helps you make presentations, talks, meetings, and training accessible to all of your potential audience, including people with disabilities and others.

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Useful Links & Referenced Material

*Developing Web Accessibility Presentations and Training

Provides materials for speakers, lecturers, educators and other presenters to help their participants understand more about web accessibility. The materials provide a range of information from introductory slides for those new to accessibility, to statistics and demos for experienced trainers.

Before and After Demonstration (BAD)

Shows an inaccessible website and a retrofitted version of the same website. Includes annotations that highlight key accessibility barriers and repairs, and evaluation reports for WCAG 2.0.

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Useful Links & Referenced Material

Android accessibility overview

- Use a screen reader
- Change your display
- Interaction controls
- Use a braille display
- Audio & on-screen text
- Explore Android accessibility apps and services
- Design and develop more accessible apps

https://support.google.com/accessibility/android/answer/6006564?hl=en

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