Windows 11 Accessibility Settings and Features

Download Windows Speedup Tool to fix errors and make PC run faster

Microsoft has always been concerned about the computer accessibility of differently-abled users. However, despite all improvements, Windows systems could not help them at every level. With Windows 11, Microsoft is taking giant leaps towards accessibility features.

Beyond designing for accessibility with and for people with disabilities, we employed Trusted Tester conformance tests, usability tests and other processes to help ensure Windows 11 is accessible at availability, said Microsoft.



Windows 11 Accessibility Settings and Features

Ease of Access settings are now known as Accessibility settings in Windows 11. Let us take a look at the new features.

How to open Windows 11 Accessibility settings?

The procedure to open Windows 11 Accessibility settings is simple and as follows:



- Right-click on the Start
- Select Settings.
- Go to the Accessibility tab.
- You will get all the settings there.

What is new with the Accessibility settings in Windows 11?

Windows 11 has improved upon the accessibility for people with disabilities at but the number of features and their location. While these features fell under the Ease of Access menu in Windows 10, it is a direct tab under the Settings menu in Windows 11.

Over and above the familiar accessibility options with Windows 10, Windows 11 offer additional options like CART services, speech commanding, screen readers, magnification programs, etc.

Accessibility settings for the deaf

Windows 11 offers various accessibility settings for the deaf which are as follows:

- 1. Mono Audio
- 2. Flash screen during audio notifications
- 3. Closed captions

1] Mono Audio

This option helps users with hearing disabilities in one ear to make their system combine left and right audio channels into one. Now, in case the audio

is louder with one side as it happens with movies and games, the user will hear it the same through both sides of the speakers or headphones.

2] Flash screen during audio notifications

Users with hearing disabilities will find it very useful if the screen blinks or flashes whenever an audio notification they cannot hear is sounded.

3] Closed captions

Closed captions or subtitles are the best things created for users with hearing disabilities and allow them to read the audio on their screen. It is also helpful when the audio is in a different language.

Read: Windows 11 for Business & Enterprise – New features.

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Accessibility settings for the blind

Windows 11 offers various accessibility settings for the blind which are as follows:

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- 1. Text size
- 2. Visual effects
- 3. Mouse and pointer settings
- 4. Text cursor indicator
- 5. Magnifier
- 6. Color filters
- 7. Color contrast
- 8. Narrator

1] Text size

A lot of people suffer from a vision disability known as hypermetropia because of which they have difficulty in reading text which is nearby. In this case, increasing the text size could be very helpful.

TIP: Make Surface devices accessible with Surface Adaptive Kit.

2] Visual effects

Visual effects like transparency, animation, and scrollbars are helpful in understanding the visuals better for those with vision difficulties.

3] Mouse and pointer settings

The pointer for Windows 11 is white with a black outline and disappears if left idle for a while. However, in this case, many users with poor vision could face difficulty. Thus, Windows 11 allows users better options like a black or colored pointer. Further, you can use a Touch indicator which creates a circle on the screen where you touch it.

4] Text cursor indicator

The text indicator is a blinking line on the screen which could be invisible to those with vision disabilities. However, you could add colored ends and increase the thickness of the cursor.

5] Magnifier

A Magnifier is an amazing tool for those who are unable to read smaller texts on the system. You can change the zoom which is set to 200% by default.

6] Color filters

A lot of people suffer from a unique condition called color blindness. This reduces their ability to differentiate between colors. For this, Windows 11

brings Color filters that can create contrasts such that colors are easily distinguishable.

7] Color contrast

The Color contrast options are useful in making text clearer with respect to the background.

8] Narrator

The Windows 11 Narrator is an excellent tool that helps in reading text on the screen aloud for people to hear. As <u>compared to Windows 10</u>, there are way more options for Windows 11.

You might want to take a look at the several new <u>Windows 11 Settings</u> that are now available.

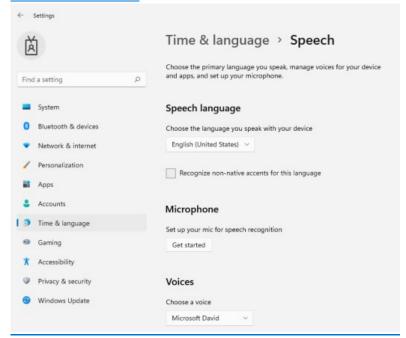
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Set up a microphone

Before you set up speech recognition, make sure you have a microphone set up.

1. Select (Start) > Settings > Time & language > Speech.

2. Under Microphone, select the Get started button.



3. The **Speech** wizard window opens, and the setup starts automatically. If the wizard detects issues with your microphone, they will be listed in the wizard dialog box. You can select options in the dialog box to specify an issue and help the wizard solve it.

Help your PC recognize your voice

You can teach Windows 11 to recognize your voice. Here's how to set it up:

1. Press Windows logo key+Ctrl+S. The **Set up Speech Recognition** wizard window opens with an introduction on the **Welcome to Speech Recognition** page.

Tip: If you've already set up speech recognition, pressing Windows logo key+Ctrl+S opens speech recognition and you're ready to use it. If you want to retrain your computer to recognize your voice, press the Windows logo key, type Control Panel, and select Control Panel in the list of results. In Control Panel, select Ease of Access > Speech Recognition > Train your computer to better understand you.

- 2. Select **Next**. Follow the instructions on your screen to set up speech recognition. The wizard will guide you through the setup steps.
- 3. After the setup is complete, you can choose to take a tutorial to learn more about speech recognition. To take the tutorial, select **Start Tutorial** in the wizard window. To skip the tutorial, select **Skip Tutorial**. You can now start using speech recognition.

Complete guide to Narrator

Narrator is a screen-reading application that's built into Windows 11, so there's nothing you need to download or install. This guide describes how to use Narrator with Windows so that you can start using apps, browsing the web, and more.

Below in the table of contents, there's a section about what's new in Narrator.

Note: This guide is available as a Word doc and a PDF (in English only). To obtain additional languages or formats, contact the Disability Answer Desk.

You want to learn how to use Narrator to do things in Office apps, like Outlook and Word? Check out the articles on this page: Use a screen reader with Office apps.

Follow these links to learn how to use a screen reader to do things in Windows 11:

- Use a screen reader to explore and navigate the Start menu in Windows
- Use a screen reader to explore and navigate Settings in Windows
- Use a screen reader to explore and navigate File Explorer in Windows
- Keyboarding in Microsoft Teams 2.0 for Windows 11
- Use a screen reader with the flyout window in Microsoft
 Teams 2.0 for Windows 11

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What's new in Narrator.

<u>Version released in Feb 2024.</u>
<u>This release is about enhancing the reading experience for the readin</u> images with Narrator, early steps in supporting dictation with voice access and Narrator, ability to preview all natural voices and a bunch of bug fixes across Narrator. To give feedback, press Narrator + Alt + F while Narrator is running.

Tip: The Narrator key is a modifier key in the Narrator commands. Both the Caps lock key and the Insert key serve as your Narrator key by default. For more info on the Narrator key, go to Chapter 2: Narrator basics or Appendix B: Narrator keyboard commands and touch gestures.

Enhanced image consumption experience in Narrator

With Narrator, we have enhanced image consumption experience. There are two significant modifications:

- A new keyboard command has been added to allow you to switch between the graphics/images on a page or screen.
 Now, in Scan mode (Narrator key + spacebar), you can move forward or backward between graphics/images by pressing the keys "G" or "Shift + G."
- Text recognition in images is enhanced, including handwriting recognition, and overall image descriptions are better. To experience the improved experience, navigate to any image and, while the image is in focus, execute the keyboard combination "Narrator key + CTRL + d ".
 An active internet connection is necessary for this feature, and Narrator settings must have the option to obtain Image Descriptions activated. For more information, refer to image descriptions in Chapter 2: Narrator basics.

Dictate text with voice access

Voice access in Windows 11 enables everyone, including people with mobility disabilities, to control their PC and author text using their voice. For example, you can open and switch between apps, browse the web, and read and author emails using your voice.

Voice access uses modern, on-device speech recognition to accurately recognize speech and works even without the internet. For more information, refer to Use voice access to control your PC & author text with your voice.

Narrator users can start using voice access to dictate text with voice and hear what is dictated. In addition, you can also use voice access to give Narrator commands. For example, "Turn on Narrator," "speak faster," "read selection," "read next line," etc.
To know the entire list of Narrator commands supported with voice access click help icon (?) on voice access bar, select "View all commands" and choose "Narrator commands."

Note that, all voice access features do not work with Narrator.

Please refer to the section below for more details. You can start voice access by searching in the Windows Search bar or pinning it to the task bar once it is open.

What will work:

- Start and setup voice access which includes downloading a speech model.
- Read a list of voice access commands and Narrator commands from voice access help menu.
- Changing voice access microphone state.
- Dictating text with voice and hearing back what was dictated.

What will not work:

- Using voice access guide with a screen reader.
- Core voice access features: Using different voice access commands to get different tasks done:
 - Using "Click" commands or number overlays to interact with specific items on the screen.
 - Using grid overlays to control the mouse pointer.
 - Using text editing features such as corrections and spellings in voice access.

Tips:

- You can press Alt+Tab to cycle through all open applications to move the focus to the voice access UI.
- If you don't use headphones for listening to the screen reader, the audio output from the screen reader may get picked up by voice access microphone, leading to unwanted behavior.

Preview natural voices in Narrator,

We launched natural voices in 10 new locales as part of Windows September 2023 update. Those natural voices include Chinese, Spanish (Spain), Spanish (Mexico), Japanese, English (UK), French, Portuguese, English (India), German and Korean. With this Windows update, users will be able to preview and listen to the natural voice before downloading a voice model. Once downloaded, Natural Narrator voices support text-to-speech on-device and do not require an internet connection. For more information, refer to natural voices section in Appendix A: Supported languages and voices.

Notes:

- There are more improvements and bugs fixed in this release.
 For more information, refer to Appendix G: Troubleshooting Narrator
 Natural Voices setup issues
- Narrator Natural Voice feature is available in Windows 11, version 22H2 and later. For more information on the new features in Windows 11, version 22H2, and how to get the update, see What's new in recent Windows updates. Not sure which version of Windows you have? See: Find Windows version.
- Do you get the following error message when trying to set up

 Narrator Natural Voices: "Please check your internet connection and try again." or "Something

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went wrong and we can't install the new natural voice right now. Please try again later."

This can mean that there is no access to the Microsoft

Store app catalog in the cloud during setup. If you get this
error message, follow these instructions:

Check connectivity:

Verify that you are connected to the internet on the device where you are seeing this error.

If internet connectivity, is not an issue, check whether you can access the Microsoft Store app and are able to download apps.

If you can download apps via the Microsoft Store app, submit feedback using the Feedback Hub app so we can investigate the problem.

Note: If you are not able to download apps via the Microsoft

Store app and work in an

<u>enterprise environment, it's possible that your network</u> <u>administrator has disabled access to the Microsoft Store app.</u>

- 1. Do one of the following to install the Store package:
 - If you are an enterprise with IT administrator support, contact your IT administrator and ask them to download and deploy the appropriate Store package to your device.
 - Download and install the appropriate Store
 package yourself and then follow the instructions in Install the Store package.

Store packages

<u>Language</u>	System type	Store package
English (United States)	AMD x64	Voice.en-US.cab

Install the Store package

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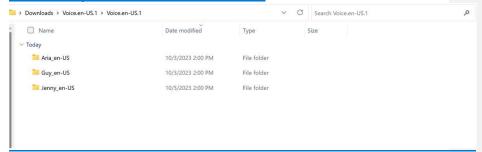
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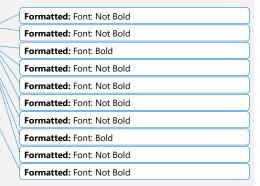
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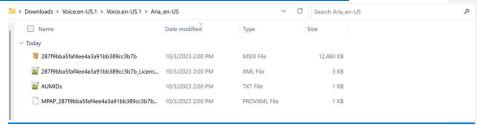
- 1. Download the Store package from the table above that matches your language requirements.
 - To determine your system type, go to Start > All
 apps > Settings > System > About. Your system type is
 listed in the Device specification section, under System
 type.
- 2. In the Downloads folder, double-click the Cabinet (CAB) file to open it.
- 3. Double-click the ZIP file contained in the CAB file, and then choose where to extract the file.
- 4. Navigate to the folder where you extracted the file and double-click the compressed folder.
- 5. Inside the extracted folder, directories named after the voices they contain will be available.



6. Double click the required voices folder.



7. Double-click the MSIX file to launch the installer.



Note: If you now get an error of "No such interface supported" or Windows asks you to select an app to open the MSIX file, you are missing a required app to install the package. To resolve this, extract the ZIP file to a folder, use the Windows PowerShell app to navigate to the unzipped folder, and run the Add-AppxPackage cmdlet, where the MSIX file name must match what's in the folder. For example: Add-AppPackage - path 287f9bba5faf4ee4a3a91bb389cc3b7b.msix.

- 8. In the installer window, select Install to start the installation.
- 9. When the installation is complete, select Close.

You are now ready to use the feature (Narrator).

Note: If the installation wasn't successful or the feature doesn't work after installation, submit feedback using the Feedback Hub app so we can investigate the problem.

Next: https://support.microsoft.com/en-us/topic/appendix-g-troubleshooting-narrator-natural-voices-setup-issues-2acb7291-5b41-4ed2-b415-c7d9a3a044e9 Appendix H: List of Issues and Bugs fixed
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Appendix H: List of Issues and Bugs fixed

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Chapter 1: Introducing Narrator

Narrator lets you use your PC without a mouse to complete common tasks if you're blind or have low vision. It reads and interacts with things on the screen, like text and buttons. Use Narrator to read and write email, browse the internet, and work with documents.

Specific commands let you navigate Windows, the web, and apps. Navigation is available using headings, links, landmarks, and more. You can read text (including punctuation) by page, paragraph, line, sentence, word, and character, as well as determine characteristics like font and text color. Efficiently review tables with row and column navigation.

Narrator also has a navigation and reading mode, which you'll learn more about in Chapter 3: Using scan mode. Use it to get around Windows 11 using just the up and down arrows on your keyboard. You can also use a braille display to navigate your PC and read text, which you'll learn more about in Chapter 8: Using Narrator with braille.

You can also customize the speaking rate, pitch, and volume of the voice that Narrator uses, and install other text-to-speech voices.

Two ways to start and stop Narrator.

- To launch Narrator, press the Windows logo key
 + Ctrl + Enter. To stop the narrator, press these keys once more. The Windows logo key is typically found on the keyboard's bottom row of keys, either to the left or right of the Alt key.
- To access Narrator settings, use the Windows logo key
 + Ctrl + N. Then, switch the toggle next to Use Narrator.

Note: The **Accessibility** icon will show up in the bottom right corner of the screen when you log in or access specific menus.

By choosing the **Accessibility** icon, a menu containing a toggle switch for the narrator's on/off status is displayed. The narrator will stop once you log out or leave the screen.

Narrator Home

Every time you turn on Narrator you'll go to Narrator Home, which gives you one place where you can open everything you need, whether you want to change your Narrator settings or learn basics with QuickStart. The links at Narrator Home include QuickStart, Narrator guide (which takes you to this online user guide), What's New, Settings, and Feedback. You can also control whether Narrator Home opens when Narrator starts in Narrator settings or by using the checkbox on Narrator home.

Learn Narrator with QuickStart

The QuickStart lesson will walk you through the basics of using Narrator. There is also a sample webpage to get you used to using Narrator online. It shows, among other things, how to use headers and landmarks. When Narrator is turned on, Narrator Home launches and is where you can access QuickStart at any time.

Start Narrator automatically before or after you sign in to your PC.

- 1. Press the **Windows logo key + Ctrl + N** to open Narrator settings.
- 2. Expand the **Show all** settings buttons next to the **Narrator** toggle switch to show additional options.
- 3. To start Narrator automatically after you sign in, select the checkbox next to **Start Narrator after sign-in**.
- 4. To start Narrator automatically before sign-in for all users, select the checkbox next to **Start Narrator before sign-in**.

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Chapter 2: Narrator basics

This chapter explains Narrator keyboard navigation. This includes how to get around the screen, find and open apps, and change what Narrator reads. It also explains the basic details of adjusting Narrator speech rate, volume, and how to stop speech.

Scan mode gives you even more navigation options. We'll cover that in Chapter 3: Using scan mode.

Tab, arrow, and Enter keys.

In Windows, use the Tab or arrow keys to move around apps and webpages. When you get to something you want to use, like a link, press **Enter**. You can also use the Tab, arrow, and Enter keys to move between and interact with things like checkboxes and buttons.

Narrator key

You can choose what modifier key you want to use in Narrator commands. Both the Caps lock and Insert keys serve as your Narrator key by default. You can use either of these keys in any command that uses the Narrator key. The Narrator key is referred to as simply "Narrator" in commands. You can change your Narrator key in Narrator settings.

Note: If you're using a Japanese 106 keyboard, Insert and NonConvert are your default Narrator keys.

Explore your keyboard with Input Learning

Input learning tells you what keys you're pressing on your keyboard, and the Narrator command associated with them. Turn

<u>input learning on or off by pressing **Narrator** + **1** (the number 1 key).</u>

Common Narrator Commands

Stop Narrator from reading.

Press the **Ctrl** key to stop Narrator from reading at any time. *Make Narrator speak louder or faster.*

To change Narrator volume

- Press Narrator + Ctrl + the Plus sign
 (+) or Narrator + Ctrl + Add (numeric keypad) to increase volume.
- Press Narrator + Ctrl + the Minus sign () or Narrator + Ctrl + Subtract (numeric keypad) to decrease volume.

To change the rate at which Narrator speaks

Press Narrator + the Plus sign (+) or Narrator + the Minus sign (-).

Note: The commands that include the plus sign (+) and the minus sign (-) refer to the physical key and don't require Shift as a modifier. Unless explicitly called out, it isn't necessary to include Shift before the equal key to make it the plus sign as you would when typing the plus sign. Using the Narrator volume command above as an example, Narrator + Ctrl + equal (=) is the literal command, not Narrator + Ctrl + Shift + equal (=).

Switch the Narrator voice.

You can quickly switch between the installed Narrator voices by using the following shortcuts:

- Press Narrator + Alt + the Plus sign (+) to switch to the next Narrator voice.
- Press Narrator + Alt + the Minus sign (-) to switch to the previous Narrator voice.

<u>Find out the time, day of the week, and date.</u>

Press **Narrator + F12** to find out the time, day of the week, and

<u>date at any time.</u>

Windows keyboard shortcuts

Windows and Windows apps have keyboard shortcuts that you can use alongside Narrator commands. For example, press the Windows logo key to open the Start menu, or, to open quick settings, press the Windows logo key + A.

For a list of the keyboard shortcuts you can use in Windows, refer

For a list of the keyboard shortcuts you can use in Windows, refer to Keyboard shortcuts in Windows. For a list of keyboard shortcuts in Windows apps, refer to Keyboard shortcuts in apps.

For a list of keyboard shortcuts in other Windows assistive technologies, refer to Windows keyboard shortcuts for accessibility.

Get around apps and webpages.

Find and open apps.

To quickly find an app in Windows 11, press the Windows logo key on your keyboard to open the Start menu and place focus in the search box. Then, type the name of the app that you're looking for, use the arrow keys to select it in the list of search results, and press the Enter key to open it.

Switch between apps

To switch between open apps on your PC, hold down the **Alt** key and then press the **Tab** key. The narrator will speak the name of open apps as you cycle through them. When you find the app that you want to use, release both keys.

Anytime you want to know which app or window has focus, press **Narrator** + **T** to read the title of the window that has focus. To read the title and contents of the window that has focus, press **Narrator** + **W**.

Let Narrator grab info from the web.

When connected to the internet, Narrator can give you more context for images, links, and webpages by sending them to Microsoft.

Note: To turn off these services, go to Manage data and services in Narrator settings.

Hyperlinks

If you would like to know where a hyperlink will take you, press **Narrator** + **Ctrl** + **D** and Narrator can tell you the page title where the link will take you to. This works well on web and mail applications.

Image descriptions

If you come across an image you'd like described, press **Narrator** + **Ctrl** + **D**. Narrator will send the image to Microsoft, and then read a description of the image.

Webpage summary

Press **Narrator + S** to hear a webpage summary that includes the number of links, landmarks, and headings.

Popular links and full webpage summary

Press **Narrator** + **S** twice quickly to pull up a dialog box on the screen with the following info: the number of links, landmarks, and headings on a page, and a list of popular links for a page (popular links are the links on the page that get the most clicks).

Microsoft Privacy Statement

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Chapter 3: Using scan mode.

This chapter describes a navigation and reading mode called scan mode. Scan mode lets you navigate apps, email, and webpages using the arrow keys. You'll also be able to use

common keyboard shortcuts to read text and jump directly to headings, links, tables, and landmarks.

Scan mode basics

To turn scan mode on and off, press Narrator + Spacebar.

Tip: The Narrator key is a modifier key in the Narrator commands.

Both the Caps lock key and the Insert key serve as your Narrator key by default. For more info on the Narrator key, go to Chapter 2: Narrator basics or Appendix B: Narrator keyboard commands and

touch gestures.

When scan mode is turned on, use the Up and Down arrow keys to navigate apps and webpages. Press Enter or Spacebar to activate an item that you want to use, such as a button in an app, a link in a webpage, or a text box.

Scan mode turns on automatically when you use Mail, Outlook, Microsoft Edge, Google Chrome, and Firefox. It also turns on automatically when you open any Windows app where you turned it on before.

If you turn scan mode off for an app, it will remain off for that app until you turn it on again. Scan mode automatically turns off in edit fields so you can enter text. Press the Up or Down arrow key again to leave the edit field and resume scan mode.

Scan mode commands

When scan mode is turned on, use the following keys to navigate apps and webpages.

Note: If you are hearing silent stops in scan mode, this may be because Narrator is stopping at a punctuation mark. To have Narrator tell you about that punctuation, increase your punctuation verbosity by pressing Narrator + Alt + Left bracket

([) or Narrator + Alt + Right bracket (]).

Press these keys To do this

Narrator +	Toggle scan mode on or off
<u>Spacebar</u>	
Enter	Primary action
Spacebar	
Shift + Enter	Secondary action
Shift + Spacebar	
<u>Home</u>	Move to and read the first character of a line
End	Move to and read the last character of a line
<u>P</u>	Read next paragraph
Shift + P	Read previous paragraph
Ctrl + Down arrow	Read next line
Ctrl + Up arrow	Read previous line
Ctrl + Right arrow	Read next word
Ctrl + Left arrow	Read previous word
Right arrow	Read next character
Left arrow	Read previous character
Ctrl + Home	Move to and read the first line of text
Ctrl + End	Move to and read the last line of text
Down arrow	Jump to the next text or item
<u>Up arrow</u>	Jump to previous text or item
1	Jump to the next heading at level 1
Shift + 1	Jump to previous heading at level 1

2	Jump to the next heading at level 2
Shift + 2	Jump to previous heading at level 2
<u>3</u>	Jump to the next heading at level 3
Shift + 3	Jump to previous heading at level 3
4	Jump to the next heading at level 4
Shift + 4	Jump to previous heading at level 4
<u>5</u>	Jump to the next heading at level 5
Shift + 5	Jump to previous heading at level 5
<u>6</u>	Jump to next heading at level 6
Shift + 6	Jump to previous heading at level 6
<u>Z</u>	Jump to next heading at level 7
Shift + 7	Jump to previous heading at level 7
8	Jump to the next heading at level 8
Shift + 8	Jump to previous heading at level 8
9	Jump to the next heading at level 9
Shift + 9	Jump to previous heading at level 9
<u>B</u>	Jump to next button
Shift + B	Jump to previous button
<u>C</u>	Jump to the next combo box
Shift + C	Jump to the previous combo box
D	Jump to next landmark
Shift + D	Jump to previous landmark

E	Jump to the next edit box
Shift + E	Jump to previous edit box
E	Jump to the next form field
Shift + F	Jump to previous form field
<u>G</u>	Jump to next graphic or image
Shift + G	Jump to previous graphic or image
<u>H</u>	Jump to next heading
Shift + H	Jump to previous heading
1	Jump to next item
Shift + I	Jump to previous item
K	Jump to next link
Shift + K	Jump to previous link
<u>R</u>	Jump to the next radio button
Shift + R	Jump to the previous radio button
I	Jump to next table
Shift + T	Jump to previous table
X	Jump to next checkbox
Shift + X	Jump to previous checkbox

Selecting text in scan mode

<u>Use these commands when you're copying text from content areas like websites or email.</u>

Press these keys	To do this
------------------	------------

Shift + Right arrow	Select current character
Shift + Left arrow	Select previous character
Ctrl + Shift + Right arrow	Select current word
Ctrl + Shift + Left arrow	Select previous word
Shift + Down arrow	Select current line
Shift + Up arrow	Select previous line
Ctrl + Shift + Down arrow	Select current paragraph
Ctrl + Shift + Up arrow	Select previous paragraph
Shift + Home	Select to beginning of line
Shift + End	Select to end of line
Ctrl + Shift + Home	Select to beginning of document
Ctrl + Shift + End	Select to end of document
Shift + Page down	Select current page
Shift + Page up	Select previous page
<u>F9</u>	Mark the beginning or end of a block of text
<u>F10</u>	Select all text between a mark and the current point
Ctrl + C	Copy selection
Ctrl + X	<u>Cut selection</u>
Ctrl + V	Paste selection
Ctrl + A	Select all

Narrator + Shift + Down arrow	Read selection
Narrator + Shift + Down arrow twice quickly	Spell selection

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Chapter 4: Reading text.

This chapter explains a few ways you can start reading text with Narrator. You can also get details on the formatting of the text you're reading.

The first and simplest way to read with Narrator is to use the arrow keys to navigate text if you're interacting with a document in a word processor, such as Microsoft Word.

You can also use scan mode to read text. To turn on scan mode, press Narrator + Spacebar. Then use the Up and Down arrow keys to read by paragraph and the Left and Right arrow keys to read by character. To learn more about scan mode, go to Chapter 3: Using scan mode.

Tip: The Narrator key is a modifier key in the Narrator commands. Both the Caps lock key and the Insert key serve as your Narrator key by default. For more info on the Narrator key, go to Chapter 2: Narrator basics or Appendix B: Narrator keyboard commands and touch gestures.

When you want more control over what text you read, the Narrator provides a series of text-reading commands to help navigate and read text. Below are some basics to getting you started. To view all reading commands, go to Appendix B: Narrator keyboard commands and touch gestures.

- To stop reading, press Ctrl.
- To read the window title, press Narrator + T.

To read a window, press Narrator + W.

Tip: When reading a web page or an email, Narrator commands will apply to the content of the page or email and not to the browser or application. To navigate out of the content, just press the Tab key or use an application shortcut.

Read certain amounts of text.

Narrator provides ways to read text by page, paragraph, line, sentence, word, and character.

Read text from the current location.

- To read the current item, press **Narrator** + **Tab**.
- To read from where focus or your cursor is, press Narrator + R.
- To start reading a document from the beginning,
 press Narrator + Ctrl + R or Narrator + Down arrow key.
- To read text from the beginning to where your cursor is,
 press Narrator + Shift + J or Narrator + Alt + Home.

Read text line by line.

- To read the current line, press Narrator + I or Narrator + Up arrow key.
- To read the next line, Narrator + O.
- To read the previous line, Narrator + U.

Read text by sentence.

- <u>To read the next sentence</u>, press Narrator + Ctrl + Period (.).
- To read the current sentence,press Narrator + Ctrl + Comma (,).
- To read the previous sentence, press Narrator + Ctrl + M.

Read text by word.

- To read the current word,
 press Narrator + K or Narrator + Ctrl + 5 (numeric
 keypad). When you press either command twice in a row, the
 Narrator will spell the word.
- To read the next word,press Narrator + L or Narrator + Ctrl + Right arrow key.
- To read the previous word, press Narrator + J or Narrator + Ctrl + Left arrow key.

Read text by character.

- To read the current character, press Narrator + Comma (,). When you press the command twice in a row, Narrator will read the character phonetically.
- To read the next character, press Narrator + Period (.).
- To read the previous character, press Narrator + M.

Read text by page.

- To read the current page, press Narrator + Ctrl + I.
- To read the next page, press Narrator + Ctrl + O.
- To read the previous page, press Narrator + Ctrl + U.

Read text by paragraph.

- To read the current paragraph, press Narrator + Ctrl + K.
- To read the next paragraph, press Narrator + Ctrl + L.
- To read the previous paragraph, press Narrator + Ctrl + J.

Get more details about the text.

Narrator provides different levels of detail about controls and the characteristics of text, known as verbosity. To change the level of

<u>verbosity, press Narrator + V or Narrator + Shift + V until you</u> hear the level of detail that you want.

Verbosity level 1: Text only

This level lets you read quickly without hearing details about text that you don't need to know. For example, Narrator doesn't announce links, doesn't describe text formatting, and lets you work very quickly with an application that you know well. This level provides an ideal experience as you read text-heavy articles, books, and web sites.

Verbosity level 2: Some control details

This level provides more information than level 1 does as you interact with an application. It's best if you're familiar with an application and only need guidance with some controls.

Verbosity level 3: All control details

This is the default level for Narrator. It provides a full reading experience along with all details about an application's controls as you interact with them.

Verbosity level 4: Some text details

This level provides most attributes and information about text. It's best in situations when you're writing text, such as when you create a document.

Verbosity level 5: All text details

This level gives you complete details about text, such as heading level, font type, size, formatting, bullet shape, list type, and more. It's especially useful when you proofread or edit a document.

Get details on formatting.

Narrator provides details about formatting, such as font name, font size, and text alignment. To hear formatting attributes, press **Narrator** + **F**. To hear the next group of formatting

attributes, press **Narrator** + **F** again. To hear the previous group of formatting attributes, press **Narrator** + **Shift** + **F**.

Formatting information is separated into the following groups:

- Font information. Font name, weight, size, italic, underline, underline color, strikethrough, background color, foreground color.
- Advanced font information. Hyperlink, style, bullet style, subscript, superscript, capitalization style, outline style, overline color, language.
- Object color and outline information. Fill type (none, color, gradient, picture, or pattern), fill color, outline color, outline thickness.
- Paragraph spacing Information. Line spacing, before paragraph spacing, after paragraph spacing.
- Page margin information. Top margin, bottom margin, leading margin, trailing margin.
- Alignment information. Horizontal text alignment, text flow direction, indentation first line, indentation leading, indentation trailing.
- Visual effects information. Animation style, visual effects (reflection, glow, soft edges, and bevel).
- Object layout information. Center point, size, rotation.
- Annotation information. Annotations such as spelling and grammar suggestions and comments.

Hear punctuation.

Narrator gives you control over how much punctuation you hear when reading text. To change how punctuation is read out, press:

Narrator + Alt + Left bracket ([)

Narrator + Alt + Right bracket (])

You can select from the following levels of description:

- Default. Hear little to no punctuation. Natural pauses will indicate items such as commas and periods.
- Math. Hear most mathematical symbols.
- **Some.** Hear most conversational punctuation, such as commas and periods.
- **Most.** Hear additional symbols, such as parentheses.
- All. Hear all punctuation, including all special symbols.

Hear capital letters and words.

By default, Narrator reads capital letters the same as lowercase ones. This means "Word," "WORD," and "word" all sound the same (even though different letters are capitalized in each). If you'd like to hear when a letter is capitalized, the Narrator can say "cap" before it, or read the word or letter in a higher pitch (unless a natural voice is used). To change how Narrator handles capitalization, in Narrator settings, go to section Verbosity and modify the Change how capitalized text is read setting. Press Narrator + 4 to cycle between the capitalization reading mode options.

Read text in other languages.

When reading text in a different language, Narrator will automatically select the text-to-speech (TTS) voice for that language if it's installed. To learn more about installing additional TTS voices, go to Appendix A: Supported languages and voices. If the TTS voice for a language isn't installed, Narrator will state the name of the language and read the text using the default TTS voice.

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Chapter 5: Navigation

Narrator's views

The different views in Narrator include items, characters, words, sentences, lines, paragraphs, headings, links, form fields, tables, landmarks, and suggestions. To change views, you can use the following commands:

- Narrator + Page up and Narrator + Page down
- Narrator + Ctrl + Up arrow key and Narrator + Ctrl +
 Down arrow key

To navigate by the view that you've selected, press Narrator + Left arrow key or Narrator + Right arrow key.

Tip: The Narrator key is a modifier key in the Narrator commands. Both the Caps lock key and the Insert key serve as your Narrator key by default. For more info on the Narrator key, go to Chapter 2: Narrator basics or Appendix B: Narrator keyboard commands and touch gestures.

Tip: Views are especially useful when you're navigating by touch. Learn more about using touch with Narrator in Chapter 6: Using Narrator with touch.

Navigate landmarks.

Landmarks group similar elements on your screen so you easily navigate them. Some webpages and apps, like Microsoft Store in Windows 11, have landmarks. Some Windows features like the Start menu also have landmarks.

To move to the main landmark, press **Narrator + N**. To get a list of landmarks for a page or app, press **Narrator + F5**. For more ways to work with landmarks, go to Chapter 3: Using scan mode.

Navigate suggestions.

Suggestions are available when you enter information in a text box in some apps and parts of Windows 11. For example, when you enter text in the search box after pressing the Windows logo key, suggestions are provided as you type.

When a suggestion is available, the Narrator indicates it by playing a sound and voice message. A Narrator view is available to navigate suggestions, but generally, you'll also be able to press the **Up** and **Down arrow** keys to move through suggestions and **Enter** to select one.

Use Narrator Find

Use Narrator Find what you need on the web, in applications, and in documents. To open Narrator Find and search for a word or phrase, press Narrator + Ctrl + F. Then, to go to the first result (starting from your cursor position), select Find next or press Enter. The narrator will focus on the result and not on the search dialog. Then press Narrator + F3 to go to the next result or Narrator + Shift + F3 to go to the previous result.

Note: Turn on the alternate command key (Fn or F Lock) before you press the function keys (F6 or F7) in the following sections.

To find out more about the alternate command keys, read How do I use the Fn key/F Lock key/Alternate command keys?

Navigate links on a page.

If you'd like to explore a list of all the links on a page, press Narrator + F7. To navigate the list, press the Up or Down arrow key, and press Enter to go to that link's location on the page. When you already know part of the link you want, you can type some text to filter this list. Then, to follow the link, press Enter.

Navigate headings on a page.

If you'd like to explore a list of all the headings on a page, press Narrator + F6. To navigate the list, press the Up or Down arrow key, and press Enter to go to that heading's location on the page.

Navigate landmarks on a page.

If you'd like to explore a list of all the landmarks on a page, press Narrator + F5. To navigate the list, press the Up or Down arrow key, and press Enter to go to that landmark's location on the page.

Web reading improvements.

No more unhelpful hyperlinks

The narrator will give you the title of the webpage for a link.

Press Narrator + Ctrl + D, and Narrator will take the URL of the hyperlink you are on and send it to an online service that will provide the page title to Narrator. If you would like to disable all online services used by Narrator, you can turn this off in Narrator settings.

Get a quick summary of a webpage.

Hear a webpage summary that includes the number of links, landmarks, and headings by pressing **Narrator + S**.

Popular links and full webpage summary

Press Narrator + S twice quickly to pull up a dialog box on the screen with the following info: the number of links, landmarks, and headings on a page, and a list of popular links for a page (popular links are the links on the page that get the most clicks). If a page has popular links, you can press the Tab key to navigate through them, and press Enter to go to the linked webpage.

Webpages are read automatically.

The narrator automatically starts reading webpages starting from the top.

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Chapter 6: Using Narrator with touch.

This chapter provides details about how to use Narrator with touch on supported desktop Windows PCs and describes some basic Windows touch gestures.

Touch gestures

You can use gestures to interact with Narrator and your device. To explore and hear items on a screen, drag one finger around the screen. When you hear an item that you want to use, double tap the screen with one finger to activate it. To move through items on the screen, flick left and right with one finger.

If you want to move by characters, words, lines, or links, flick up or down to change the Narrator view. For example, to hear an item spelled out, flick up until you hear Narrator say "characters." Then flick left and right to move through that item a letter at a time.

The following are important gestures to help you get started:

- To dismiss context menus (imitating the Escape key), triple tap with 2 fingers.
- To change Narrator views, flick up and down with one finger.
- To scroll, flick up, down, left or right with two fingers.
- To show context menus, double tap with two fingers.
- To change verbosity, tap once with three fingers.
- To read continuously from the current position, swipe down with three fingers.
- To tab forward or backward, flick left or right with three fingers.
- To show the Narrator command list, triple tap with four fingers.

- To open the Action Center, swipe in from the right side of the screen.
- To open Task View to switch between apps and multiple desktops, swipe in from the left side of the screen.

For a complete list of touch gestures, refer to Appendix B: Narrator keyboard commands and touch gestures.

Typing by touch

When in an editing area, such as a text box, a touch keyboard will appear in the lower part of the screen and the Narrator will play a sound to indicate that a keyboard has appeared. To enter text, double tap the characters you want to enter.

To enter text more quickly, select the Start button, then select Settings, select Accessibility, and then select Narrator. Then, select the check box next to On touch keyboards, activate keys when I lift my finger to enter characters as soon as you lift your finger off the character.

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Chapter 7: Customizing Narrator

This chapter outlines how to customize Narrator, so it works best for you. This includes changing what voice and characteristics of the voice you prefer. Narrator also provides natural sounding voices that can be installed for use with Narrator. To learn more about the languages that Narrator supports for our voices, go to Appendix A: Supported languages and voices. In addition, you can adjust how Narrator starts, how much feedback you hear when typing, whether the audio from other apps is decreased when Narrator is running and changing Narrator commands to keyboard shortcuts of your choice. This chapter also provides

<u>details about how to use third-party text-to-speech (TTS) software</u> to add more voices to Narrator.

You can find most of these options in your Narrator settings by pressing Windows logo key + Ctrl + N.

Use Narrator settings.

- Narrator: Turn this On to activate Narrator. You can modify additional settings that control Narrator startup by expanding the Show all settings button (drop-down arrow) next to the Narrator on/off switch. Press the Tab key to go to this button and then press Spacebar, or click the button with the mouse, and then modify the following:
 - Start Narrator before sign-in: Narrator will run on your
 PC before anyone signs in.
 - Start Narrator after sign-in: Narrator will start automatically when you sign into your PC.
- Keyboard shortcut for Narrator: Turn this On to start and stop Narrator using the Windows logo
 key + Ctrl + Enter on a keyboard, or the Windows
 button + Volume up button on a touch device.
- Narrator Home: Narrator Home resides in your system tray and offers useful shortcuts to Narrator features. Expand the Show all settings button to show the following additional settings:
 - Open Narrator Home: Narrator Home resides in your system tray and offers useful shortcuts to Narrator features.
 - Show Narrator Home when Narrator
 starts: Controls whether Narrator Home starts after
 Narrator is launched. If you do not select this, Narrator

Home does not launch when Narrator has started. You can open Narrator Home with the **Open Narrator Home** button in settings.

 Complete guide to Narrator: Links to an online version of this guide.

Narrator's voice settings

- Choose a voice: Choose from different available Narrator voices in your language. The narrator voices average a maximum of approximately 400 words per minute. However, the English voices Microsoft David, Microsoft Zira, and Microsoft Mark offer a rate of approximately 800 words per minute.
- With Narrator, you can control many characteristics for the voice you have selected. After you have selected a voice, expand the Show all settings button to change the following settings:
 - **Speed:** Control the speed at which Narrator speaks.
 - Pitch: Adjust the pitch of Narrator's voice.
 - **Volume:** Adjust the volume at which Narrator speaks.
- Add natural voices: Narrator provides three US English natural sounding voices: two female voices, Jenny and Aria, and one male voice, Guy. To install a natural voice, select the Add button, select the voice you want to install, and then click Preview to hear a preview of the voice or Install to start downloading.
- Add legacy voices: Takes you to Time &
 language > Speech so you can install voices in different
 languages. Narrator can be used with SAPI 5-based speech

synthesizers. Once installed, voices will appear in the list of voices for you to choose. Third-party providers include Harpo Software, CereProc, NextUp, Eloquence, and Vocalizer Expressive. Learn more about adding voices in Appendix A: Supported languages and voices.

Note: The options above are provided for informational purposes only. Microsoft does not endorse any third-party software, nor can it offer any support for their installation and use. For help with any of these products, please contact the original manufacturer.

- Lower the volume of other apps when Narrator is
 speaking: The audio volume from other apps is lowered so you can hear Narrator better.
- Narrator audio output device: Narrator lets you choose your default audio output device. If you have multiple sound cards, you can select the device that Narrator's voices will be diverted to. You can use this in situations where you wish to present to an audience and don't want the Narrator's speech to be heard from your computer.

Verbosity settings

- Verbosity level: Select how descriptive Narrator is about what it is reading. Options include: 1 - Text only, 2 - Some control details, 3 - All control details, 4 - Some text details, and 5 - All text details. Expand the Show all settings button to show additional verbosity options:
 - <u>Emphasize formatted text</u>: Narrator's voice will put more emphasis on formatted text. This feature is not available when using a natural voice.
 - Read phonetically when reading by character: For example, Narrator will read the letter A as "alpha."

- Pause slightly when reading punctuation (This feature is not available when using a natural voice.)
- Read advanced details, like help with text, on buttons and other controls.
- Change how capitalized text is read: Options include: Don't announce, increase pitch, and Say cap. The Increase pitch option is not supported when using a natural voice.
- Context level for buttons and controls: Options
 include: No context, Immediate context, Immediate
 context name and type, Full context of new control,
 and Full context of old and new controls. Expand the
 Show all settings button to show additional options:
 - Read hints on how to interact with buttons and other controls.
 - Tell me why actions can't be performed.
 - Play sounds instead of announcements for common actions: Common actions include actions like turning scan mode on and off or landing on a link.
 - Tell me details about buttons and other
 controls. Options include After-controls or Before controls.
- Have Narrator announce when I type: Expand the Show all settings button to select which items you want Narrator to announce:
 - Letters, numbers, and punctuation
 - Words
 - Function keys

- Arrow, Tab, and other navigation keys
- Toggle keys, like Caps lock and Num lock
- Shift, Alt, and other modifier keys

Mouse and keyboard settings

- Narrator key: You can choose if you want to use Caps lock, Insert, or both keys in Narrator commands. Both the Caps lock and Insert keys serve as your Narrator key by default. You can use either of these keys in any command that uses the Narrator key. Expand the Show all settings button to set:
 - Lock the Narrator key so I don't have to press it for each command. When you press one of the keys, it will remain in a "pressed" state until you press it again to turn it off. You can also lock the Narrator key by pressing Narrator + Z. This functionality can be disorientating if you aren't used to it, so use caution if you choose to use it.
- On touch keyboards, activate keys when I lift my
 finger: Characters are entered as soon as you lift your finger
 off the touch keyboard.
- Read and interact with the screen using the mouse: When this is turned on, Narrator reads what is under the mouse cursor. Use the numeric keypad to move the mouse.
- Keyboard layout: Narrator's Standard layout is more like the keyboard layouts you may have experienced in other screen readers. If you want to use Narrator's original keyboard layout, choose the Legacy keyboard. Learn the

commands for each keyboard in Appendix B: Narrator keyboard layouts and touch gestures. Expand the Show all settings button for more options:

- More about Narrator keyboard layouts: Provides more information about Narrator keyboard commands.
- <u>Create a custom keyboard layout:</u> Opens a dialogue where you can assign custom commands for Narrator functions. Here's how to use this:
 - i. Choose the command to customize.
 - ii. Select Change command keyboard shortcut.
 - iii. In the keyboard shortcut window, type the keyboard shortcut you want to use on your keyboard. Use any combination of modifier keys (Control, Shift, Alt, Caps lock, or the Windows logo key) together with a non-modifier key. Use function and numeric keypad keys without any modifiers.
 - iv. Select Restore all defaults to return all commands back to their default settings. To find this setting, press Alt + Tab after Narrator launches, select the Narrator Settings window, and choose Commands.

Narrator cursor settings

- Show the Narrator cursor: When this is turned On, the Narrator cursor is highlighted with a blue focus box.
- Move my text cursor with the Narrator cursor as
 Narrator reads text: When this is turned On, Narrator will move the text insertion point when navigating by views such as characters and words.

- Sync the Narrator cursor and system focus: When this is turned On, the Narrator cursor and the system cursor will be synchronized when possible.
- Navigation mode: Two modes are available: Normal and Advanced. Normal mode is recommended and allows Narrator to move between various items such as links, tables, and other elements. Advanced mode lets you use the four arrow keys to move the Narrator cursor through a programmatic representation of an application.

Braille settings

To use a braille display, select the "More" button next to **Use a** braille display with Narrator, and then select the **Download** and install braille button. For more information, go to Chapter 8: Using Narrator with Braille, and for a full list of supported displays, go to Appendix C: Supported braille displays.

Extensions

Narrator now supports the use of extensions to improve the productivity and efficiency of Narrator with applications. Outlook and Excel are the current extensions that are supported.

Enabling and Disabling Extensions

To activate or disable all extensions, use the activate Narrator extensions option. Extensions are by default enabled. If you disable Narrator extensions, no extensions will run when Narrator or application is launched. In addition, when Narrator starts up, we won't check for extensions if extensions are disabled.

Downloading Extensions on Narrator Startup

To enable or disable Narrator's ability to download extensions when it starts, use Find and download new extensions on Narrator starting checkbox. This function is turned on by default.

For this feature to function as intended, narrator extensions must also be enabled.

Checking Extension Download Status

You can find out when Narrator attempted to download an extension by visiting the Microsoft store. Read the text that is below the checkbox while Scan Mode is active. Its label, Last Updated, displays the time and date of the most recent successful extension store download.

Manage data and services settings.

- Sync my Narrator settings on this device: Select
 the Sync settings button if you want anyone who uses your
 PC to use your Narrator settings. This is recommended if you use a serial braille display.
- Get image descriptions, page titles, and popular
 links. For more information about this service, go to "Let
 Narrator grab info from the web" in Chapter 2.
- Automatically send diagnostic and performance
 data: Turn this On to send diagnostic and performance data
 as you use Narrator. To give feedback on Narrator,
 press Narrator + Alt + F.
- Privacy Statement: Understand how Microsoft uses your Narrator data and for what purposes.

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Chapter 8: Using Narrator with braille.

This chapter provides information about how to use a braille display with Narrator. It includes info about how to install braille on your PC, navigate your PC, and read text.

The narrator supports braille displays from several manufacturers. To learn more about which braille displays are supported, including specific key commands for each display, refer to Appendix C: Supported braille displays.

Note: As part of the Windows 11, version 22H2 release, we have added support for more braille displays and additional support for the use of your braille display with Narrator and with third-party screen readers. If you do not find these newly supported braille displays after upgrading the braille support, refer to February 28, 2023—KB5022913 (OS Build 22621.1343) Preview, which explains the delivery mechanism for these features.

Install braille for Narrator.

Narrator works with braille displays that use a USB or serial port. Bluetooth support is not available when using your braille display with Narrator. Review the braille installation sections below fully before proceeding.

<u>Prerequisites: Upgrade Narrator's braille support</u>
<u>If braille has been installed for use with Narrator in the past on your device, follow these steps to remove the older braille support.</u>

- 1. To open **Settings**, press **Windows logo key + I**.
- 2. Select Apps, and then go to Optional features > Installed features.
- 3. Search for Accessibility Braille support.
- 4. Expand Accessibility Braille support, and then uninstall the feature.

Install Narrator's braille support.

To open Narrator settings, press Windows logo
 key + Ctrl + N.

- 2. Select the **Use a braille display with Narrator** button to open Narrator's braille page.
- 3. Select the **Download and install the Braille** button to proceed with the installation. It might take some time to download braille.
- 4. When the download is complete, you will be prompted to restart your system. Restart, log back into your device, and then return to Narrator settings.

Note: This is a requirement for braille to function on your device.

- 5. In the **Braille** section of Narrator settings, turn on the **Turn** on braille switch.
- 6. Add your braille display. Select Add a braille display and then choose your braille display manufacturer and connection type (USB or serial port).
- 7. If you are not using a third-party screen reader, the installation of Narrator's braille support is now complete. If you are using a third-party screen reader with your braille display, such as JAWS for Windows or NVDA, proceed to the next section to finalize your installation of braille with Narrator.

Using your braille display with other screen readers

Note: If you have JAWS for Windows version 2022, check which 2022 build you have. If you have the April Update (JAWS 2022.2204.20) or later, including JAWS 2023, you can skip this procedure.

If you already use your braille display with another screen reader, you might need to change the driver Windows uses to communicate with your display.

- Go to Narrator settings, select the Use a braille display with Narrator button, and then select an option under Braille display driver.
- 2. Select the braille display driver used by your third-party screen reader so that you can seamlessly switch between Narrator and your third-party screen reader with your braille display.

Note: You only need to change your driver if a different driver is installed for your braille display. If you're not sure, contact your braille display manufacturer.

Uninstalling braille

To remove Narrator braille from your PC:

- 1. To open **Settings**, press **Windows logo key + I**.
- 2. Select Apps, and then go to Optional features > Installed features.
- 3. Search for Accessibility Braille support.
- 4. Expand Accessibility Braille support, and then uninstall the feature.
- 5. After braille support is removed, restart the device.

Change braille settings.

Manage your braille preferences in Narrator settings.

- In the Braille section of Narrator settings, select the Use a
 braille display with Narrator button to open the braille settings.
- 2. To turn on braille support, select the **Turn on braille** switch.
- 3. Choose from the following options to configure your braille display:

- Use the "Show all settings" button on the right side of the Add a braille display button to check what braille displays and drivers are in use on your system.
- Language for input and output
- Table type for input and output (grade 1, grade 2, or 8 dot computer braille)
- Notification timeout
- How the cursor is displayed and if you want the cursor to blink on your braille display

Using braille at the login screen

If you want to use a serial braille display before you log in, to ensure that the Narrator is aware of your braille display, do the following:

- To open Narrator settings, press Windows logo
 key + Ctrl + N.
- 2. Go to the Manage data and services section of Narrator settings and select the Sync Settings button.

This will promote Narrator settings for speech and braille so that these settings can be used before logging into your system.

Core Narrator commands

Most braille displays can perform 12 Narrator commands to navigate and interact with apps. And supported displays with a braille keyboard can be used for entering text or performing familiar single-letter scan mode commands. These 12 core commands are listed in the table below.

Note: To quickly dismiss a flash message or notification using a braille display, pan the length of the message. And if you'd like to

change the amount of time a notification or flash message is displayed, you can do that in Settings.

Tip: The Narrator key is a modifier key in the Narrator commands. Both the Caps lock key and the Insert key serve as your Narrator key by default. For more info on the Narrator key, go to Chapter 2: Narrator basics or Appendix B: Narrator keyboard commands and touch gestures.

<u>Narrator</u>	<u>Keyboard</u>	<u>Description</u>
command	equivalent	
<u>Primary</u>	Narrator +	Often described as "click."
<u>action</u>	<u>Enter</u>	
Secondary	Shift +	Often "select" or "expand" depending
<u>action</u>	Enter in	on the control.
	scan mode	
Display	Shift + F10	Shows a menu of additional actions.
context	or the	
menu	Windows	
<u></u>	Menu key	
	Wicha Key	
Pan braille	N/A	Displays the next set of characters
right		from the current line. At end, performs
		Braille next
		Braille next.
Pan braille	N/A	Braille next. Displays the previous set of characters
Pan braille left	N/A	
	N/A	Displays the previous set of characters from the current line. At beginning,
<u>left</u>		Displays the previous set of characters from the current line. At beginning, performs Braille previous.
left Braille	N/A Narrator +	Displays the previous set of characters from the current line. At beginning,
<u>left</u>		Displays the previous set of characters from the current line. At beginning, performs Braille previous.
left Braille	Narrator +	Displays the previous set of characters from the current line. At beginning, performs Braille previous. Displays the next item in the current
Braille Next*	Narrator + Right	Displays the previous set of characters from the current line. At beginning, performs Braille previous. Displays the next item in the current navigation mode.

Braille home*	Home in scan mode	Go to beginning of line.
Braille end*	End in scan mode	Go to the end of line.
Braille first*	Ctrl + Home in scan mode	Go to first line.
Braille last*	Ctrl + End in scan mode	Go to the last line.
Select navigation mode	Narrator + Page Up/Page Down	Perform this command, then use braille next/previous to choose a new navigation mode and perform primary action to select the new mode.

Note that braille next, previous, home, end, first, and last all change with the current navigation mode. For example, with a navigation mode of paragraph:

- Next/previous will navigate to the next/previous paragraph.
- Home/end will navigate to the beginning/end of the current paragraph.
- First/last will navigate to the first/last paragraph.

You can find the mapping for a specific braille display in Appendix C: Supported braille displays.

Braille keyboard commands

If your braille display has a braille keyboard, you can use it to enter text or do the following commands. The command to toggle the keyboard is **Space + Dots 1-3**.

Use the following commands for keyboard input.

Braille dots	Narrator command
1-2-3-4 or 1-2-3-4-7	Go to the next or previous paragraph
<u>1-2-5 or 1-2-5-7</u>	Go to the next or previous heading
2-3-4-5 or 2-3-4-5-7	Go to the next or previous table
<u>1-3 or 1-3-7</u>	Go to the next or previous link
2-4 or 2-4-7	Go to the next or previous item
<u>1-4-5 or 1-4-5-7</u>	Go to the next or previous landmark
1-2-4 or 1-2-4-7	Go to the next or previous form field
<u>1-2 or 1-2-7</u>	Go to the next or previous button
<u>1-4 or 1-4-7</u>	Go to the next or previous combo box
<u>1-5 or 1-5-7</u>	Go to the next or previous edit field
<u>1-2-3-5 or 1-2-3-5-7</u>	Go to the next or previous radio button
1-3-4-6 or 1-3-4-6-7	Go to the next or previous checkbox
<u>1-6 or 1-6-7</u>	Go to the next or previous heading level 1
<u>1-2-6 or 1-2-6-7</u>	Go to the next or previous heading level 2
<u>1-4-6 or 1-4-6-7</u>	Go to the next or previous heading level 3
1-4-5-6 or 1-4-5-6-7	Go to the next or previous heading level 4
<u>1-5-6 or 1-5-6-7</u>	Go to the next or previous heading level 5

<u>1-2-4-6 or 1-2-4-6-7</u>	Go to the next or previous heading level 6
1-2-4-5-6 or 1-2-4-5- 6-7	Go to the next or previous heading level 7
<u>1-2-5-6 or 1-2-5-6-7</u>	Go to the next or previous heading level 8
2-4-6 or 2-4-6-7	Go to the next or previous heading level 9
<u>Space + 1-2-3</u>	Turn on input learning, press twice to turn off
2-3-4 or 2-3-4-7	Read by sentence

Use the following commands for keyboard input.

Braille dots	Keyboard input
<u>Space + 4-5</u>	Tab key
<u>Space + 1-2</u>	Shift + Tab key
Space + 2-3-4-5	Alt + Tab key
Space + 2-4-5-6	Windows logo key
<u>Space + 1-2-3-5</u>	Windows logo key + Tab key
Space + Routing Key 1 through	F1 through F12 keys
12	
7	Backspace key
8	Enter key
<u>Space + 2-6</u>	Escape key
Space + 3	Cursor left key

Space + 6	Cursor right key
Space + 1	Cursor up key
Space + 4	Cursor down key
<u>Space + 2-3</u>	Page up key
<u>Space + 5-6</u>	Page down key
Space + 2	Home key
<u>Space + 5</u>	End key
<u>Space + 3-5</u>	Insert key
<u>Space + 2-5-6</u>	Delete key

The following commands allow you to enter and hold a modifier key followed by another letter or key.

Braille dots	Keyboard input
<u>Space + 1-8</u>	Hold Windows logo key
<u>Space + 2-8</u>	Hold Alt key
<u>Space + 3-8</u>	Hold Ctrl key
<u>Space + 4-8</u>	Hold Shift key
<u>Space + 5-8</u>	Hold AltGr key
<u>Space + 6-8</u>	Hold Narrator key
<u>Space + 7-8</u>	Release all modifier keys

Using touch cursors on your braille display

If your braille display has touch cursors, you can use them to do certain actions.

Working with interactive elements

When the displayed content is an interactive element, tap any touch cursor above that content to do its primary action. Tap two adjacent touch cursors above the content to do its secondary action if one is available.

When the displayed content isn't text, tap two nonadjacent touch cursors above the content to display a context menu if one is available.

Editing text

Use the following touch cursor commands when editing text:

- To move the text insertion, point to a specific character, tap the touch cursor above the corresponding cell. You can also tap the touch cursor above a cell representing a character or its preceding modifier (such as a capital or a number). The caret representation will be on the cell after the modifier.
- To move the text insertion, point to the last character on the display, tap the touch cursor above a blank cell at the end of the display.
- To do a secondary action, tap on two adjacent touch cursors on a corresponding character.
- To show a context menu, tap two nonadjacent touch cursors above the character closest to the center of the two nonadjacent touch cursors.

Note: Some displays don't support simultaneous pressing of two touch cursors. Therefore, there are additional commands for each display. To learn more about specific key commands for each display, refer to Appendix C: Supported braille displays.

Next: Appendix A: Supported languages and voices

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Appendix A: Supported languages and voices

The following table explains what languages and text-to-speech (TTS) voices are available in the latest version of Windows.

Note: Narrator provides male and female natural voices for few commonly spoken languages and accents, refer to section Natural voices.

Language, country, or region	Male TTS voice	Female TTS voice
Arabic	Not applicable	<u>Hoda</u>
Arabic (Saudi Arabia)	Naayf	Not applicable
Bulgarian	<u>Ivan</u>	Not applicable
Catalan	Not applicable	<u>Herena</u>
Chinese (Simplified)	Kangkang	<u>Huihui,</u> <u>Yaoyao</u>
Cantonese (Traditional, Hong Kong SAR)	Danny	Tracy
Chinese (Traditional, Taiwan)	Zhiwei	<u>Yating,</u> <u>Hanhan</u>
Croatian	<u>Matej</u>	Not applicable
Czech (Czech Republic)	<u>Jakub</u>	Not applicable
<u>Danish</u>	Not applicable	Helle
<u>Dutch</u>	<u>Frank</u>	Not applicable
English (Australia)	<u>James</u>	Catherine

English (Canada)	Richard	<u>Linda</u>
English (Great Britain)	George	Hazel, Susan
English (India)	Ravi	<u>Heera</u>
English (Ireland)	Sean	Not applicable
English (United States)	David, Mark	<u>Zira</u>
<u>Finnish</u>	Not applicable	<u>Heidi</u>
Flemish (Belgian Dutch)	<u>Bart</u>	Not applicable
French (Canada)	Claude	Caroline
French (France)	Paul	Hortence, Julie
French (Switzerland)	Guillaume	Not applicable
German (Austria)	Michael	Not applicable
German (Germany)	Stefan	Hedda, Katja
German (Switzerland)	Karsten	Not applicable
Greek	Stefanos	Not applicable
<u>Hebrew</u>	<u>Asaf</u>	Not applicable
Hindi (India)	<u>Hemant</u>	<u>Kalpana</u>
Hungarian (Hungary)	Szabolcs	Not applicable
Indonesian (Indonesia)	<u>Andika</u>	Not applicable
<u>Italian</u>	Cosimo	Elsa
<u>Japanese</u>	<u>Ichiro</u>	Ayumi, Haruka

Malay	Rizwan	Not applicable
Norwegian	<u>Jon</u>	Not applicable
Polish (Poland)	<u>Adam</u>	<u>Paulina</u>
Portuguese (Brazil)	<u>Daniel</u>	<u>Maria</u>
Portuguese (Portugal)	Not applicable	<u>Helia</u>
Romanian (Romania)	<u>Andrei</u>	Not applicable
Russian (Russia)	Pavel	<u>Irina</u>
Slovak (Slovakia)	Filip	Not applicable
Slovenian	<u>Lado</u>	Not applicable
Korean	Not applicable	<u>Heami</u>
Spanish (Spain)	Pablo	Helena, Laura
Spanish (Mexico)	Raul	Sabina
Swedish	Bengt	Not applicable
Tamil	Valluvar	Not applicable
Thai (Thailand)	<u>Pattara</u>	Not applicable
Turkish	Tolga	Not applicable
<u>Vietnamese</u>	An	Not applicable

Add a TTS voice to your PC.

To use one of these voices, add it to your PC:

1. Open Narrator settings by pressing the Windows logo key + Ctrl + N.

- 2. Under Narrator's voice, select Add legacy voices. This will take you to the **Speech** settings page.
- 3. Under Manage voices, select Add voices.
- 4. Select the language you would like to install voices for and select **Add**. The new voices will be downloaded and ready for use in a few minutes, depending on your internet download speed.
- 5. Once the voices for the new languages are downloaded, go to Narrator settings, and select your preferred voice from the dropdown menu in Narrator's voice > Choose a voice.

Natural voices

Narrator now supports natural male and female voices for few commonly spoken languages and accents. The following table lists the available languages/accents along with the names of male and female TTS voices.

Language, country, or	Male TTS voice	Female TTS
region		voice
English (United States)	Guy	Jenny, Aria
Chinese	Yunxi	<u>Xiaoxiao</u>
Spanish (Spain)	Alvaro	<u>Elvira</u>
Spanish (Mexico)	<u>Jorge</u>	<u>Dalia</u>
<u>Japanese</u>	<u>Keita</u>	<u>Nanami</u>
English (United	Ryan	<u>Sonia</u>
Kingdom)		
<u>French</u>	<u>Henri</u>	<u>Denise</u>
<u>Portuguese</u>	<u>Antonio</u>	<u>Francisca</u>
English (India)	<u>Prabhat</u>	<u>Neerja</u>
<u>German</u>	Conrad	<u>Katja</u>
Korean	<u>Injoon</u>	<u>SunHi</u>

Install Natural Voices

The narrator will announce that more natural voices are available when you open Narrator. To add the new voice:

1. Select **Install now** on the announcement window to go to Narrator Settings.

Note: If you have dismissed the dialog, use the hotkey CTRL + Windows + N to access the Narrator settings. Next, you should proceed to the Choose a Voice combo box and then click the button that says "Show All Settings" just below the combo box. The Add button, which is displayed after the speed, pitch, and volume options for the presently selected voice, can be activated from here. If you have started the installation from the Narrator starting window, this button will be highlighted.

- 2. Select the **Add** button under the **Add natural voices** section.
- 3. Select the voice you want to install. All voices can be installed, but they must each be installed independently. You will automatically see the voices for your current display language.
- 4. Select the Choose a language link and click it if you want to discover what other languages are supported. At this point, you can choose whatever language you like from a selection that is displayed on the screen. After choosing a language, click the Next button to view the voices that are compatible with that language.
- The preview will play automatically once you navigate through the list.

Note: The previews for natural voices of 10 new locales can be previewed.

6. Select Install to begin downloading the chosen voice.
Depending on your internet connection speed, the new voice

will be downloaded and be available for use in a few minutes.

7. After downloading the new voice, navigate to Narrator settings and select your preferred voice from the drop-down menu in Narrator's voice > Choose a voice.

Note: If you encounter into any issues during the Narrator Natural Voices setup process, see Appendix G:

Troubleshooting Narrator Natural Voices setup issues.

Next: Appendix B: Narrator keyboard commands and touch gestures
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Appendix B: Narrator keyboard commands and touch gestures

This appendix lists the keyboard commands and touch gestures available in the latest version of Windows.

To view a list of all other keyboard shortcuts in Windows, see Keyboard shortcuts in Windows. To view a list of keyboard shortcuts in Windows apps, see Keyboard shortcuts in apps.

Narrator key

You can choose what modifier key you want to use in Narrator commands. Both the Caps lock and Insert keys serve as your Narrator key by default. You can use either of these keys in any command that uses the Narrator key. The Narrator key is referred to as simply "Narrator" in commands. You can change your Narrator key in Narrator settings.

Note: If you're using a Japanese 106 keyboard, Insert and NonConvert are your default Narrator keys.

Narrator keyboard commands

Narrator has two possible keyboard

layouts: Standard and Legacy. Commands for each are listed below. For the scan mode commands, go to Chapter 3: Using scan mode.

Note: The commands that include the plus sign (+) and the minus sign (-) refer to the physical key and don't require Shift as a modifier. Unless explicitly called out, it isn't necessary to include Shift before the equal key to make it the plus sign as you would when typing the plus sign. Using the Narrator volume command above as an example, Narrator + Ctrl + equal (=) is the literal command, not Narrator + Ctrl + Shift + equal (=).

Standard keyboard layout

General commands

Press these keys	To do this
Windows logo key + Ctrl + Enter	Start or stop Narrator
Narrator + Esc	Exit Narrator
Narrator + 1	Toggle input learning
Narrator + Right arrow	Move to next item
Narrator + Left arrow	Move to previous item
Narrator + Page up Ctrl + Narrator + Up arrow Narrator + Page down	<u>Change view</u>

Ctrl + Narrator + Down arrow	
Narrator + F1	Show commands list
Narrator + F2	Show commands for current item
Narrator + Enter	Do primary action
Narrator + Ctrl + Enter	Toggle search mode
Narrator + F12	Read current time and date
Narrator + Ctrl + D	Describe image using an online service or get the webpage source of a link
Narrator + S	Get a webpage summary
Narrator + S twice quickly	Get webpage summary and popular links dialog box
Narrator + Alt + F	Provide Narrator feedback
Narrator + Z	Lock Narrator key
Narrator + Ctrl + F12	Toggle developer mode
Narrator + 3	Pass keys to application
Narrator + 4	Change capitalization reading mode
Narrator + Alt + M	Toggle mouse mode
Narrator + H	Turn on or off Outlook column header reading

Adjust speech.

Press these keys	To do this

Ctrl + Narrator + the Plus sign	Increase voice volume
(+)	
Ctrl + Narrator + Add	
(numeric keypad)	
Ctrl + Narrator + the Minus	Decrease voice volume
sign (-) Ctrl + Narrator + Subtract	
(numeric keypad)	
Narrator + the Plus sign (+)	Increase voice speed
Narrator + the Minus sign (-)	Decrease voice speed
Narrator + Alt + the Plus sign	Move to the next voice
(+) Narrator + Alt + Add (numeric	
keypad)	
Narrator + Alt + the Minus	Move to the previous voice
sign (-)	inove to the previous voice
Narrator + Alt + Subtract	
(numeric keypad)	
Narrator + Alt + Left bracket	Change to the prior punctuation
<u>(1)</u>	reading mode
Narrator + Alt + Right bracket	Change to the next punctuation
<u>(1)</u>	reading mode
Narrator + V	Increase verbosity mode
Shift + Narrator + V	Decrease verbosity mode
Narrator + 2	Toggle character reading
Narrator + Forward slash (/)	Read context

Narrator + Alt + Forward slash (/)	Set read context verbosity
Narrator + Ctrl + Forward slash (/)	Change reading context order

Read and work with text.

Read and work with text.	
Press these keys	To do this
<u>Ctrl</u>	Stop reading
Narrator + Tab	Read item
Narrator + 5 (numeric keypad)	
Narrator + Tab twice quickly Narrator + 5 twice quickly	Read item spelled out
(numeric keypad)	
Narrator + K twice quickly	
Narrator + Ctrl + 5 twice quickly	
(numeric keypad)	D 17
Narrator + 0	Read item advanced
Narrator + T	Read window title
Narrator + W	Read window
Narrator + X	Repeat phrase
Narrator + R	Read from cursor
Ctrl + Narrator + R	Start reading document
Narrator + Down arrow	
Narrator + C	Read document
Shift + Narrator + J	Read text from start to cursor
Narrator + Alt + Home	

<u>Ctrl + Narrator + U</u>	Read previous page
Ctrl + Narrator + I	Read current page
Ctrl + Narrator + O	Read next page
Ctrl + Narrator + J	Read previous paragraph
Ctrl + Narrator + K	Read current paragraph
Ctrl + Narrator + L	Read next paragraph
Narrator + Ctrl + M	Read previous sentence
Narrator + Ctrl + comma (,)	Read current sentence
Narrator + Ctrl + period (.)	Read next sentence
Narrator + U	Read previous line
Narrator + I Narrator + Up arrow	Read current line
Narrator + O	Read next line
Narrator + J Ctrl + Narrator + Left arrow	Read previous word
Narrator + K Ctrl + Narrator + 5 (numeric keypad)	Read current word
Narrator + L Ctrl + Narrator + Right arrow	Read next word
Narrator + M	Read previous character
Narrator + Comma (,) 5 (numeric keypad)	Read current character
Narrator + Period (.)	Read next character

Narrator + F	Read the next group of formatting information
Shift + Narrator + F	Read previous group of formatting information
Narrator + B Ctrl + Narrator + Home	Move to beginning of text
Narrator + E Ctrl + Narrator + End	Move to the end of text
Narrator + Shift + Down arrow	Read selection
Narrator + Shift + Down arrow twice quickly	Spell selection

Navigate tables.

Press these keys	To do this
Ctrl + Alt + Home	Jump to the first cell in table
Ctrl + Alt + End	Jump to the last cell in table
Ctrl + Alt + Right arrow	Jump to next cell in row
Ctrl + Alt + Left arrow	Jump to the previous cell in row
Ctrl + Alt + Down arrow	Jump to the next cell in column
Ctrl + Alt + Up arrow	Jump to previous cell in column
Ctrl + Shift + Alt + Left arrow	Read current row header
Ctrl + Shift + Alt + Up arrow	Read current column header
Ctrl + Shift + Alt + Right arrow	Read current row

Ctrl + Shift + Alt + Down	Read current column
arrow	
Ctrl + Shift + Alt + Forward	Read which row and column
slash (/)	Narrator is in
Ctrl + Shift + Alt + 5 (numeric	
keypad)	
Ctrl + Alt + Page up	Jump to table cell
Ctrl + Alt + Page down	Jump to cell contents

Narrators focus commands.

Press these keys	To do this
Narrator + Home	Move to first item in window
Narrator + End	Move to the last item in window
Narrator + Backspace	Go back one item
Narrator + N	Move to main landmark
Narrator + Left bracket ([) Narrator + Subtract (numeric keypad)	Move Narrator cursor to system cursor
Narrator + Single quote (') Narrator + Add (numeric keypad)	Set focus to item
Narrator + A	Jump to linked item
Shift + Narrator + A	Jump to annotated content

Alt + Narrator + Up arrow	Navigate to parents (when structural navigation is provided)
Alt + Narrator + Right arrow	Navigate to next sibling (when structural navigation is provided)
Alt + Narrator + Left arrow	Navigate to previous siblings (when structural navigation is provided)
Alt + Narrator + Down arrow	Navigate to first child (when structural navigation is provided)
Narrator + F7	<u>List of links</u>
Narrator + F5	<u>List of landmarks</u>
Narrator + F6	List of headings
Narrator + Ctrl + F	Narrator Find
Narrator + F3	Continue Find forward
Narrator + Shift + F3	Continue Find backward

Numeric keypad commands

Press these keys	To do this
Narrator + Home	Move to first item in window
Narrator + End	Move to the last item in window
Narrator + Alt + Home	Read text from start to cursor
Ctrl + Narrator + Home	Move to the beginning of text
Ctrl + Narrator + End	Move to the end of text
Narrator + Left arrow	Move to previous item

Narrator + Right arrow	Move to next item
Narrator + 5 (numeric keypad)	Read item
Narrator + 5 twice quickly (numeric keypad)	Read item spelled out
Narrator + Ctrl + 5 twice quickly (numeric keypad)	
Narrator + Up arrow	Read current line
Narrator + Down arrow	Start reading document
Ctrl + Narrator + Left arrow	Read previous word
Ctrl + Narrator + 5 (numeric keypad)	Read current word
Ctrl + Narrator + Right arrow	Read next word
5 (numeric keypad)	Read current character
Narrator + Page up Ctrl + Narrator + Up arrow	Change view
Narrator + Subtract (numeric keypad)	Move Narrator cursor to system cursor
Narrator + Add (numeric keypad)	Set focus to item
Ctrl + Narrator + Add (numeric keypad)	Increase voice volume
Ctrl + Narrator + Subtract (numeric keypad)	Decrease voice volume
Narrator + Alt + Add (numeric keypad)	Move to the next voice

Narrator + Alt + Subtract (numeric keypad)	Move to the previous voice
Narrator + Enter	Do primary action
Narrator + Ctrl + Enter	Toggle search mode

Legacy keyboard layout

General commands

Press these keys	To do this
Windows logo key + Ctrl + N	Open Narrator settings
Windows logo key + Ctrl + Enter	Start or stop Narrator
Narrator + Esc	Stop Narrator
Narrator + 1	Toggle input learning
Narrator + Right arrow	Move to next item
Narrator + Left arrow	Move to previous item
Narrator + Up or Down arrow	Change view
Narrator + F1	Show commands list
Narrator + F2	Show commands for current item
Narrator + Enter	Do primary action
Narrator + Shift + Enter	Toggle search mode
Narrator + C	Read current time and date
Narrator + Shift + D	Describe images using an online service
Narrator + E Narrator + Alt + F	Provide Narrator feedback

Narrator + Z	Lock Narrator key
Narrator + Shift + F12	Toggle developer mode
Narrator + X	Pass keys to application
Narrator + Num lock	Turn mouse mode on or off
Press Caps lock twice in quick succession	Turn Caps lock on or off

Adjust speech.

Press these keys	To do this
Narrator + Page Up	Increase voice volume
Narrator + Page Down	Decrease voice volume
Narrator + the Plus sign (+) Narrator + Add (numeric keypad)	Increase voice speed
Narrator + the Minus sign (-) Narrator + Subtract (numeric keypad)	Decrease voice speed
Narrator + Alt + the Plus sign (+) Narrator + Alt + Add (numeric keypad)	Move to the next voice
Narrator + Alt + the Minus sign (-) Narrator + Alt + Subtract (numeric keypad)	Move to the previous voice

Narrator + Alt + Left bracket	Change to the prior punctuation reading mode
Narrator + Alt + Right bracket (1)	Change to the next punctuation reading mode
Narrator + A Narrator + Ctrl + the Plus sign (+) Narrator + Ctrl + Add (numeric keypad)	Increase verbosity mode
Narrator + Ctrl + the Minus sign (-) Narrator + Ctrl + Subtract (numeric keypad)	Decrease verbosity mode
Narrator + F12	Toggle character reading
Narrator + Forward slash (/)	Read context
Alt + Narrator + Forward slash (/)	Change how much context is read (verbosity)
Narrator + Ctrl + Forward slash (/)	Change reading context order

Read and work with text.

Press these keys	To do this
Ctrl	Stop reading
Narrator + D	Read item
Narrator + S	Read item spelled out
Narrator + 0 (zero)	Read item advanced

Narrator + T	Read window title
Narrator + W	Read window
Narrator + V	Repeat phrase
Narrator + R	Read from cursor
Narrator + M	Start reading document
Narrator + H	Read document
Narrator + Close square bracket (])	Read text from start to cursor
Narrator + Shift + U	Read previous page
Narrator + Ctrl + U	Read current page
Narrator + U	Read next page
Narrator + Shift + I	Read previous paragraph
Narrator + Ctrl + I	Read current paragraph
Narrator + I	Read next paragraph
Narrator + Ctrl + M	Read previous sentence
Narrator + Ctrl + comma (,)	Read current sentence
Narrator + Ctrl + period (.)	Read next sentence
Narrator + Shift + O	Read previous line
Narrator + Ctrl + O	Read current line
Narrator + O	Read next line
Narrator + Shift + P	Read previous word
Narrator + Ctrl + P	Read current word
Narrator + P	Read next word

Narrator + Shift + Open square bracket ([)	Read previous character
Narrator + Ctrl + Open square bracket ([)	Read current character
Narrator + Open square bracket ([)	Read next character
Narrator + F	Read the next group of formatting information
Shift + Narrator + F	Read previous group of formatting information
Narrator + Y	Move to the beginning of text
Narrator + B	Move to the end of text
Narrator + J	Read previous word
H (with scan mode on)	Jump to next heading
Shift + H (with scan mode on)	Jump to previous heading
Narrator + L	Jump to next link
Narrator + Shift + L	Jump to previous link
Narrator + Shift + Down Arrow	Read current selection

Navigate tables.

Press these keys	To do this
Narrator + F3	Jump to next cell in row
Narrator + Shift + F3	Jump to the previous cell in row

Narrator + F4	Jump to the next cell in column
Narrator + Shift + F4	Jump to previous cell in column
Narrator + F10	Read current row header
Narrator + F9	Read current column header
Narrator + F8	Read current row
Narrator + F7	Read current column
Narrator + F5	Read which row and column Narrator is in
Narrator + F6	Jump to table cell
Narrator + Shift + F6	Jump to cell contents
Narrator + K	Jump to next table
Narrator + Shift + K	Jump to previous table

Narrators focus commands.

Press these keys	To do this
Narrator + Home	Move to first item in window
Narrator + End	Move to the last item in window
Narrator +	Go back one item
Backspace	
Narrator + N	Move to main landmark
Narrator + G	Move Narrator cursor to system cursor
Narrator + tilde (~)	Set focus to item
Narrator + Insert	Jump to linked item

Narrator + Shift + Insert	Jump to annotated content
Ctrl + Narrator + Up arrow	Navigate to parents (when structural navigation is provided)
Ctrl + Narrator + Right arrow	Navigate to next sibling (when structural navigation is provided)
Ctrl + Narrator + Left arrow	Navigate to previous siblings (when structural navigation is provided)
Ctrl + Narrator + Down arrow	Navigate to first child (when structural navigation is provided)
Narrator + Q	Move to last item in containing area

Narrator touch gestures

Use this gesture	To do this
Touch or drag a single finger	Read what's under your finger
Double-tap or hold with one finger and then tap anywhere on the screen with a second finger	Activate primary action
Triple-tap or hold with one finger and then double-tap anywhere on the screen with a second finger	Activate secondary action
Hold with one finger and then tap anywhere on the screen with two fingers	Start dragging or extra key options

Flick left or right with one finger	Move to the next or previous item
Flick up or down with one finger	Change view
Tap once with two fingers	Stop Narrator from reading
Tap once with three fingers	Change verbosity mode
Tap once with four fingers	Show Narrator commands for the current item
Double tap with two fingers	Show context menu
Triple-tap with two fingers	Dismiss context menus (imitating the Escape key)
Double tap with three fingers	Read text attributes
Double tap with four fingers	Open search mode
Tap three times with four fingers	Show all Narrator commands
Swipe left, right, up, or down with two fingers	Scroll
Swipe left or right with three fingers	Tab forward or backward
Swiped up with three fingers	Read current window
Swipe down with three fingers	Start reading explorable text

Swipe up or down with four fingers	Turn semantic zoom on or off were supported
Swipe left or right with four fingers	Move Narrator cursor to beginning or end of unit

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Appendix C: Supported braille displays.

The narrator supports the following braille displays. To learn more about braille support in Narrator, refer to Chapter 8: Using Narrator with braille.

Choose a link in the table below to check the supported commands for supported displays.

Manufacturer	Supported displays
Albatross	- All models
Alva	 ABT [3nn] and Delphi [4nn] (large)
	 ABT [3nn] and Delphi [4nn] (small)
	<u>BC624</u>
	<u>BC640</u>
	<u>BC680</u>
	 Optelec Easylink 12 Touch
	Satellite [5nn] (large)
	Satellite [5nn] (small)
	 Voyager Protocol Converter

B2G	 All models
<u>Baum</u>	 All models (default)
	 All models (with Vario keys)
	• NBP B2G
	 VarioConnect, HWG BrailleConnect, Conny, PocketVario, Pronto!, VarioUltra
	- DM 80 Plus
	 Inka
	 NLS eReader Zoomax
	 Orbit Reader
	 Vario Pro
	 APH Refreshabraille
	 SuperVario, HWG Brailliant, Vario 40
	 Vario 80
<u>BrailleLite</u>	Braille Lite 18
	 Braille Lite 40, M20, and M40
<u>BrailleMemo</u>	BrailleMemo Pocket
	 BrailleMemo Smart
<u>BrailleNote</u>	- All models
<u>Braudi</u>	 All models
Canute	 All models
Cebra	 All models
CombiBraille	- All models

EcoBraille	 EcoBraille (English)
EuroBraille	 AzerBraille, Clio, NoteBraille, PupiBraille, Scriba Esys 80
	 Esys 40, 64 Esys 12, 24
	EsytimeIris
Frank AudioData	All models
Freedom Scientific	 Focus 1 Focus 40 Focus 80
HandyTech	PAC Mate Active Braille Active Braille S Activator Actilino Active Star 40 Basic Braille Bookworm Braillino, Braille Star 40, Connect Braille 40, Basic Braille Plus

	Braille Star 80
	 Easy Braille
	 Modular Connect 88
	 Modular
	 Modular Evolution 64
	 Modular Evolution 88
	Braille Wave
<u>Hedo</u>	 MobiLine
	ProfiLine
HIMS	 Smart Beetle, Braille Sense (with two scroll keys)
	Braille Edge
	 Braille Sense (with QWERTY keyboard)
	 Braille Sense (with four scroll keys)
	 SyncBraille
<u>HumanWare</u>	Brailliant B 80
	Brailliant BI 14
	 Brailliant BI 20X, APH Chameleon 20, NLS eReader, BrailleOne, BrailleNote Touch
	 Brailliant BI 32, Brailliant BI 40, Brailliant BI 40X
	APH Mantis Q40
<u>Iris</u>	With braille keyboard
	 With PC keyboard

MDV	 Unrecognized Model (all keys defined) 		
	 Models with function keys 		
	 Models with function keys and status cells 		
	 Models with keyboard 		
Metec	BD I with 3 keys		
	 BD I with 3 keys and status cells 		
	BD I with 6 keys		
	 BD I with 6 keys and status cells 		
<u>MiniBraille</u>	All models		
MultiBraille	All models		
<u>NinePoint</u>	All models		
<u>Papenmeier</u>	BrailleX 2D Lite		
	 BrailleX 2D Screen Soft 		
	 BrailleX Compact 486 		
	 BrailleX Compact/Tiny 		
	 BrailleX EL2D-40 		
	 BrailleX EL2D-66 		
	 BrailleX EL2D-80 		
	 BrailleX EL2D-80s 		
	 BrailleX EL40c 		
	 BrailleX EL40P 		
	 BrailleX EL40s 		
	 BrailleX EL60c 		

	 BrailleX EL66s
	 BrailleX EL70s
	 BrailleX EL80c
	BrailleX EL80-II
	 BrailleX EL80
	 BrailleX EL80s
	BrailleX Elba 20
	BrailleX Elba 32
	 BrailleX Elba (Trio 20)
	 BrailleX Elba (Trio 32)
	 BrailleX IB 80 CR Soft
	 BrailleX Live
	BrailleX Trio
Pegasus	All models
<u>Seika</u>	Braille Displays
	 Note Takers
<u>TechniBraille</u>	All models
TSI	 Navigator 20, Navigator 40
	 Navigator 80
	 Power Braille 40
	 Power Braille 65, Power Braille 80
<u>VideoBraille</u>	All models
<u>Voyager</u>	All models
L	i e e e e e e e e e e e e e e e e e e e

Braille Pen 2

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Appendix D: Narrator sounds

To reduce how often you hear Narrator make common announcements, like when you've made a typo or turned off scan mode, some announcements can be replaced with only a sound. The table below lists the names of the sounds, a description of when you'd hear them, and an option to play the sound. When you select Play sound, a new tab will open, and the sound will play.

The common announcements that can be replaced with only sound are when something is autocorrected, when you land on a link, when scan mode is turned on or off, when there is a spelling error, and when suggestions are available.

To replace those announcements with only the sounds:

- Go to Narrator settings by pressing the Windows logo key + Ctrl + N.
- 2. Go to the Verbosity section and expand the Show all settings button next to Context level for buttons and controls.
- 3. Select the checkbox next to Play sounds instead of announcements for common actions.

Note: In Windows 11, dark and light mode have different soundscapes; try them both to see which you prefer.

Narrator sounds

Sound Description	Play sound
-------------------	------------

Caps lock on	When you press Shift while	Play caps lock
	Caps lock is on	on sound
Autocorrected	 When a list is 	<u>Play</u>
(controlled by	automatically created	autocorrected
setting)	 When a misspelling is autocorrected 	sound
	When capitalization is autocorrected	
Confirmation of	When a control is	Play
action (touch	collapsed, expanded,	confirmation of
only)	invoked, or toggled.	action sound
	 When an element is selected 	
Element (touch	When you do item	Play element
only)	navigation with touch	sound
	 When you touch an element 	
Error message	When an error occurs	Play error
		<u>message</u>
		sound
Gesture 3 finger	When you have a 3-finger	Play gesture 3
	gesture	finger sound
Grammar error	When a grammar error is	Play grammar
	made	error sound
Input method	When the input method	Play IME
editor opens	editor menu opens	opens sound

Keyboard closed	When the software keyboard closes	Play keyboard closed sound
Keyboard opened	When the software keyboard opens	Play keyboard opened sound
Link (controlled by setting)	When you land on a link	Play link sound
Scan mode off (controlled by setting)	When scan mode turns off	Play scan mode off sound
Scan mode on (controlled by setting)	When scan mode turns on	Play scan mode on sound
Screen edge (touch only)	When you touch the edge of the screen	Play screen edge sound
Scroll command (touch only)	When you scroll with two fingers	Play scroll command sound
Spelling error (controlled by setting)	When a word is misspelled	Play spelling error sound
Suggestions available (controlled by setting)	When the suggestion box opens	Play suggestions available sound
Suggestions closed	When the suggestion box closes	Play suggestions closed sound

White space (touch only)	When you touch something that is not an element	Play white space sound
Zoom (touch only)	When you pinch and expand to zoom	Play zoom sound

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Appendix E: Narrator with Outlook

Narrator Outlook Extension Installation

Follow these steps to install Narrator with Outlook extension:

- 1. Start Narrator with **CTRL + Windows + Enter** key.
- 2. Narrator will automatically download Narrator with Outlook extension along with other extensions that may be available from Microsoft store. You will be notified that the extension has been successfully installed.
- 3. Open **Outlook** and begin navigating your inbox to hear the updated Narrator announcements.

Get the important information, skip the noise in Outlook.

In Outlook, Narrator will read an email's status (unread, forwarded, etc.), who sent it, the subject line, and any other characteristics of the email that are important or unique.

For example, Narrator will read if an email is flagged, but it won't read if an email is unflagged.

Narrator won't read any unnecessary table info, like if there are 5 empty columns, and Column headers won't be read by default.

Turn column header reading in Outlook on or off by pressing Narrator + H.

Formatted: Hyperlink, Font: (Default) +Body (Calibri), 12 pt, Thick underline, Underline color: Accent 1, Font color: Accent 1

Automatic Reading of Messages

Narrator automatically starts reading email messages starting from the top. Refer to Chapter 3: Using scan mode for more information about how Narrator works with email messages in Windows Mail and Outlook.

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Appendix F: Narrator with Excel

Narrator provides more succinct and efficient reading experience while in Excel. Announcements are prioritized based on the information you need to skim a workbook and are customizable using convenient keyboard shortcuts.

Narrator Excel Extension Installation

Follow these steps to install Narrator with Excel extension:

- Start Narrator using CTRL + Windows + Enter key.
- Narrator will automatically download Narrator with Excel extension along with other extensions that may be available from the Microsoft store. You will be notified that the extension has been successfully installed.
- Open Excel and begin navigating to hear the updated Narrator announcements.

Customizing Narrator Announcements for Excel

The following table shows you a set of new keyboard commands that are now available. Continue to subsequent sections to learn more about each shortcut.

Announcement Categories

Announcements are grouped into four categories:

Formatted: Hyperlink, Font: (Default) +Body (Calibri), 12 pt, Thick underline, Underline color: Accent 1, Font color: Accent 1

- Value, the information written in the cell. E.g., "test data" or "blank."
- Name, the cell reference. E.g., "A 1."
- Context, the information. E.g., "entering table" or announcing the header of a column you just entered.
- Properties, the descriptive information about the contents of the cell. E.g., "formula" or "filtered."

<u>Scenario</u>	<u>Shortcut</u>	Notes
Toggle On and Off optimized announcements	Narrator + Alt + O	
Move context announcement (toggle first or third)	Narrator + Alt + C	Value > Name > Context > Properties (default) v/s
		<u>Context > Value > Name</u> <u>> Properties</u>
Swap name and value announcements	Narrator + Alt + N	Value > Name > Context > Properties (default) v/s
		Name > Value > Context > Properties Also applies to range
		selection announcements.

Read current context (repeat context announcement and add all known context information)	Narrator + Shift + C	 In a table, say size, where you are, and table name. In the page layout view, say page grid. In split panes, say the pane name.
Read Item Status information	Narrator + Shift + S	Read the information that is defined in the ItemStatus property in the last focused cell.
Read selection	Narrator + Shift + E	Read the current cell or range of cells that have been selected.

Toggle on and off optimized announcements

By default, if you have Narrator Excel extension installed then optimized messaging will be enabled. If you would like to disable the setting, press **Narrator + Alt + O**.

Note: The state of this command is not saved, which means that if Narrator is restarted then optimized messaging will default to on again.

Move the context announcement.

Narrator announces 'Value > Name > Context > Properties', by default. For example, if you are entering a table called Table 1 with a Fruits column where A2 has a cell value of Apple, you would hear: "Apple, A2, entering Table 1, Fruits, filter dropdown."

If you prefer to hear the context first, press Narrator + Alt + C.
This switches the announcement order to > Value > Name >
Properties'.

For example, if you are entering a table called Table 1 with a Fruits column where A2 has a cell value of Apple, you would hear: "Entering Table 1, Fruits, apple, A2, filter dropdown."

Press Narrator + Alt + C again to toggle back to the original order of 'Value > Name > Context > Properties'.

Swap the name and value announcements.

Narrator announces 'Value > Name > Context > Properties', by default. For example: "First name, A1."

Press Narrator + Alt + N key, if you would prefer to hear the cell reference first, so 'Name > Value > Context > Properties'. In this situation, you would hear: "A1, First name."

This setting also applies to a range of selection announcements.

Read current context.

<u>Press Narrator + Shift + C</u> key to repeat the current context of where you are within Excel.

Read ItemStatus information.

ItemStatus is a cell property that contains a larger collection of attributes like formatting. To hear the ItemStatus property on demand, press Narrator + Shift + S.

Read selection.

To read the currently selected cell or range of cells, press **Narrator + Shift + E**.

Examples of changed announcements.

Here are some examples of the changes you can expect to hear,

- More succinct reading when navigating in the grid and selecting cells, both within tables and in spreadsheets that do not use tables.
- Explicit announcements if a cell is blank.
- Succinct, explicit announcements when cells contain nontext or unclear information like conditional formatting, data validation, and formulas.
- Better handling of merged cells.
- More information about collaborators as you interact with cells that someone else has selected or is editing.

Turn off Narrator.

To Turn off Narrator, press **Control + Windows + Enter**. To toggle on and off optimized Narrator announcements, use **Narrator + Alt + O** key.

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<u>Appendix G: Troubleshooting Narrator Natural Voices setup</u> issues

Narrator Natural Voice feature is available in Windows 11, version 22H2 and later. For more information on the new features in Windows 11, version 22H2, and how to get the update, see What's new in recent Windows updates. Not sure which version of Windows you have? See: Find Windows version.

Do you get the following error message when trying to set up Narrator Natural Voices: "Please check your internet connection and try again." or "Something went wrong and we can't install the new natural voice right now. Please try again later."

This can mean that there is no access to the Microsoft Store app catalog in the cloud during setup. If you get this error message, follow these instructions:

2. Check connectivity:

- Verify that you are connected to the internet on the device where you are seeing this error.
- If internet connectivity is not an issue, check whether you can access the Microsoft Store app and are able to download apps.
- 3. If you can download apps via the Microsoft Store app, submit feedback using the Feedback Hub app so we can investigate the problem.

Note: If you are not able to download apps via the Microsoft Store app and work in an enterprise environment, it's possible that your network administrator has disabled access to the Microsoft Store app.

4. Do one of the following to install the Store package:

- If you are an enterprise with IT administrator support,
 contact your IT administrator and ask
 them to download and deploy the appropriate Store
 package to your device.
- Download and install the appropriate Store
 package yourself and then follow the instructions in Install the Store package.

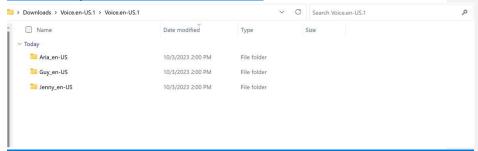
Store packages

Language	System type	Store package
English (United States)	AMD x64	Voice.en-US.cab

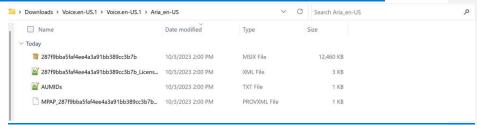
Install the Store package

- 10. Download the Store package from the table above that matches your language requirements.
 - To determine your system type, go to Start > All
 apps > Settings > System > About. Your system type is
 listed in the Device specification section, under System type.
- 11. In the **Downloads** folder, double-click the Cabinet (CAB) file to open it.
- 12. Double-click the ZIP file contained in the CAB file, and then choose where to extract the file.
- 13. Navigate to the folder where you extracted the file and double-click the compressed folder.

14. Inside the extracted folder, directories named after the voices they contain will be available.



- 15. Double click the required voices folder.
- 16. Double-click the MSIX file to launch the installer.



Note: If you now get an error of "No such interface supported" or Windows asks you to select an app to open the MSIX file, you are missing a required app to install the package. To resolve this, extract the ZIP file to a folder, use the Windows PowerShell app to navigate to the unzipped folder, and run the Add-AppxPackage cmdlet, where the MSIX file name must match what's in the folder. For example: Add-AppPackage - path 287f9bba5faf4ee4a3a91bb389cc3b7b.msix.

- 17. In the installer window, select **Install** to start the installation.
- 18. When the installation is complete, select **Close**.

You are now ready to use the feature (Narrator).

Note: If the installation wasn't successful or the feature doesn't work after installation, submit feedback using the Feedback Hub app so we can investigate the problem.

Next: https://support.microsoft.com/en-us/topic/appendix-g-troubleshooting-narrator-natural-voices-setup-issues-2acb7291-5b41-4ed2-b415-c7d9a3a044e9 Appendix H: List of Issues and Bugs fixed
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Appendix H: List of Issues and Bugs fixed

New improvements

- When reading a document with Microsoft Word desktop application, Narrator will now announce the availability of a draft comment, a resolved comment, a bookmark, or accessibility suggestions that accessibility checker in Microsoft Word provides.
- Changed default "Context level" from 2 to 3 which will now announce "Immediate Context Name and Type". The Control context type like "list" or "toolbar" will allow users to better understand the focused control like other screen readers.
- Narrator users are unblocked for typing Traditional Chinese characters in Windows by addition of Traditional Chinese dictionary for detailed reading.

Fixes in Announcements

- Fixed an issue in Excel desktop application where Narrator was not consistently reading any item in the auto-complete list that comes when writing a formula.
- Fixed an issue in certain applications, including device manager, where narrator failed to announce the selected status of menu items.
- Fixed an issue where Narrator would incorrectly announce
 both the picked value and the unselected value in elements
 like date fields or any other element with a table structure,
- Fixed an issue on a few webpages where the Narrator was still announcing the old dialog names after users navigated to the new dialog.
- Fixed an issue where the Narrator would not read the Role
 of a control in online tables when using commands
 Ctrl+Alt+Arrow keys for table navigation.
- Fixed an issue where Narrator was not reading various list items in a combo box on various web pages when navigating with up and down arrow.
- Fixed an issue where Narrator was incorrectly announcing combo boxes as read-only even when users could select different values from the combo box list items.
- Addressed the issue where Narrator was not announcing the checked and unchecked status of radio buttons but was announcing selected for every item.
- Fixed an issue where Narrator was announcing older information while navigating in date/time picker using arrow keys.
- Fixed an issue where Narrator was incorrectly reading contents of previous cell and the current cell when navigating in a table using right and left arrow keys.
- Fixed an issue where Narrator is incorrectly reading older
 Window title even after navigating to inner control.

- Fixed an issue where Narrator is reading entire paragraph when up arrow is invoked in online word document.
- Fixed an issue where Narrator was incorrectly reading out last word of previous paragraph when a new paragraph started with a punctuation mark.
- Fixed a bug where Narrator was not announcing the character being deleted when using backspace key in some text fields on the web.
- Fixed an issue in narrator where while entering any number in CVV edit field, Narrator should only announce as "hidden", instead of "CVV edit, hidden new line selected".

Fixes in Scan mode

- Fixed an issue where Narrator is not able to detect different headings on some web pages in scan mode while using "h" key to navigate.
- Fixed an issue where Narrator scan mode arrow navigation skipped first item in container.
- Fixed an issue, where Narrator is skipping the first item after navigating via landmark using "d" key in scan mode.
- Fixed an issue where Narrator focus did not move past the first check box if there was a list of check boxes when using up and down arrow key in scan mode.
- Fixed an issue where Narrator was not activating combo box when navigating using up and down arrow and using enter/spacebar to activate it in scan mode.
- Fixed an issue where Narrator would collapse the combo boxes in scan mode when navigating with up and down arrows.

Improvements in Narrator with Braille:

- When navigating to any attachment in Outlook with scan mode, narrator announces the <Name> & <Size> of the attachment, the same is now reflected on braille display.
- Navigate to different headings in Scan Mode using down arrow, or 'Space+4' key in Braille device, now navigating to heading is reflected in Braille.
- When navigating a list with items, whenever Narrator announces index with the menu item name, Braille display also reflects the same index values as "1 of 4".

Fixes in inconsistent behavior

- Fixed an issue where text was missing from the Narrator Settings Experimental Features area.
- Fixed an issue where navigation commands are not executed as expected in a dialog box when you enter the dialog the second time.
- Fixed an issue where Narrator find was not working consistently on web pages when using Narrator key + Ctrl + F key combination.

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Appendix I: History of Narrator Updates

The Windows version 23H2 was about enhancing Narrator's usability in few Windows applications such as Outlook and Excel, adding natural voices in different languages and many bug fixes across Narrator. To give feedback, press Narrator + Alt + F while Narrator is running.

Enhance Windows applications with Narrator extensions.

Narrator makes the use of applications such as Outlook and Excel more efficient by utilizing Narrator Extensions. For more information on Narrator extensions, refer to Chapter 7: Customizing Narrator. Please refer to Appendix E: Narrator with Outlook and Appendix F: Narrator with Excel for additional information on Narrator's support for Outlook and Excel with extensions.

Additional Narrator Natural Voices Added

With more natural voices, Narrator users can enjoy tasks like browsing the web, reading, authoring mail, and more. Natural Narrator voices use modern, on-device text to speech which once downloaded are supported without an internet connection. Narrator provides natural voices in multiple languages, and more are added over time so you should check to see if your preferred language is on the list. For More information of language list, refer to Appendix A: Supported languages and voices.

Install Natural Voices

Narrator will announce that more natural voices are available when you open Narrator. To add the new voice:

1. Select **Install now** on the announcement window to go to the Narrator settings.

Note: If you have dismissed the dialog box, you can open Narrator settings by using the hot key CTRL + Windows + N. Then, move to the Choose a Voice combo box and then expand the Show All Settings button after the combo box. From here you can invoke the Add button which is shown after the speed, pitch and volume selections for the currently selected voice. This button will be focused if you open Install from the Narrator startup window.

- 2. Select the Add button under the Add natural voices section.
- 3. Select the voice you want to install. You can install all voices, but you must install them separately. The voices for your current display language will be shown by default.

- 4. If you wish to see what other languages are supported, then Tab to Choose a language link and invoke it. You can select any language from the list. After selecting the language invoke the Next button to see the voices available for the selected language.
- 5. To hear a preview of the voice, select **Preview**. Only the U. S. English voices can be previewed.
- 6. Select **Install** to start the download of the selected voice.

Improvements to Braille

In Previous release, we have added support for more braille displays along with improved interaction between Narrator and third-party screen readers when used with your braille display. To learn more about release, read our blog or go to February 28, 2023—KB5022913 (OS Build 22621.1344) Preview. Refer to Chapter 8: Using Narrator with braille for the full description of the new braille features and Appendix C: Supported braille displays for the list of supported braille displays.

New and changed Keyboard commands.

New Narrator Keyboard Commands

It is now easier for Narrator users to switch between voices to better support common tasks like reading and navigating.

Newly added Narrator keyboard commands include:

- Narrator + Alt + Minus sign (-) Move to the previous
 Narrator voice.
- Narrator + Alt + Plus sign (+) Move to the next Narrator voice.

Updated keyboard commands

Changes have been made to the keyboard commands used to manipulate Narrator's punctuation reading behavior:

- Narrator + Alt + Left Bracket ([) Move to the previous punctuation reading mode.
- Narrator + Alt + Right Bracket (]) Move to the next punctuation reading mode.

Web Improvements

A collection of improvements has been made to web browsing with Microsoft Edge and Narrator. These include:

- You will have more consistent navigation experience with the Narrator. This includes improvements in heading navigation, a more consistent scan mode navigation experience where scan mode is less likely to loop between items, and a more consistent hyperlink reading experience when navigating forward and backward.
- When you encounter a dialog box on the web, Narrator will help you stay focused within the dialog box and prevent navigation to the content that's behind it.
- Typing in edit fields, such as the address bar, is now easier
 because Narrator scan mode will now turn off faster.
 Specifically, if you press Ctrl + L key to jump to the address
 bar, you should be able to start typing immediately because
 scan mode will turn off sooner. This improvement will also
 help when filling in form fields such as typing your name and
 address in different edit boxes.
- Deleting text in edit fields is now easier. The narrator will now read the character that the cursor position is at after a character has been deleted. In other words, if the cursor is on the "h" of "hello" and you press Delete, the Narrator will speak "e." In addition, if you need to cut a large set of text with Ctrl
 X, the Narrator will confirm that the text has been cut. You

- will notice this in Edge and in all apps where you can edit, such as Notepad, Outlook, Microsoft Word, and others.
- When backspacing, the Narrator will now more consistently announce when you're deleting characters with **Backspace**.

Additional support for web standards has been added. These include:

- You can have the Narrator read the current item (e.g., current page, current time etc.).
- Web form fields such as radio buttons and edit fields that are marked as being mandatory will be announced as required when being used.
- When you need to sort a table on the web, the Narrator will announce the sort order you've selected (e.g., ascending, descending).
- Improvements have been made to the way lists are read. This
 includes the proper reading of list levels and accurate list
 indices. The narrator will also announce the state of a
 checkbox that is contained inside of a list.
- Improved navigating using links.
- Using the Tab key to move through links on a webpage and pressing Enter will always take you to the link destination.
- It is now also easier to know when an item is selected in a tree view control.

New or notable commands

New Touch Gestures

The narrator provides a way of dismissing menus or simulating the **Escape** key. Simply triple tap with 2 fingers to perform this function.

New Commonly used Keyboard Shortcuts in Windows 11

Windows logo key + A: Open Quick Settings

- Windows logo key + C: Open Teams chat
- Windows logo key + N: Open notification center
- Windows logo key + W: Open Widgets
- Ctrl + E: Open search in most apps
- Ctrl + F: Open search in the Windows store

Commonly Used keyboard shortcuts for Narrator and Accessibility

- Narrator + Ctrl + D: Get the webpage source of a link.
- Narrator + S: Get a webpage summary.
- Narrator + S twice quickly: Get the webpage summary and popular links dialog box.
- Narrator + H: Turn on or off Outlook column header reading.
- Narrator + Alt + F: Give feedback on Narrator.
- Windows logo key + Plus sign (+): Open Magnifier
- Windows logo key + U: Open the Accessibility settings.

For a list of the keyboard shortcuts, you can use in Windows, refer to Keyboard shortcuts in Windows. For a list of keyboard shortcuts in Windows apps, refer to Keyboard shortcuts in apps. For a list of keyboard shortcuts in other Windows assistive technologies, refer to Windows keyboard shortcuts for accessibility.

Common Speech Recognition commands

To do this	Say this
Open Start	<u>Start</u>
Open Cortana	<u>Press Windows C</u>

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.

Open Searc	<u>h</u>	<u>Press</u>	W	<u>ind</u>	<u>ows</u>	<u>S</u>

<u>Perform an action in an app</u> <u>Right-click; Press Windows Z;</u>

<u>press ctrl B</u>

Select an item by its name File; Start; View

Select an item or icon Click Recycle Bin;

Click Computer; Click file

name

<u>Double-click an item</u> <u>Double-click **Recycle Bin**;</u>

<u>Double-click</u> **Computer**; Double-click **file name**

Switch to an open app Switch to **Paint**; Switch

to WordPad; Switch

To do this	Say this
	to program name ; Switch application
Scroll in one direction	Scroll up; Scroll down; Scroll left; Scroll right
Insert a new paragraph or new line in a document	New paragraph; New line
Select a word in a document	Select word
Select a word and start to correct it	Correct word
Select and delete specific words	Delete word
Show a list of applicable commands	What can I say?
Update the list of speech commands that are currently available	Refresh speech commands
Turn on listening mode	Start listening
Turn off listening mode	Stop listening
Move the Speech Recognition microphone bar	Move speech recognition
Minimize the microphone bar	Minimize speech recognition

Commands for dictation

To do this	Say this
Insert a new line in the document	New line
Insert a new paragraph in the document	New paragraph
<u>Insert a tab</u>	<u>Tab</u>
Insert the literal word (for example, insert the word "comma" instead of the punctuation mark)	<u>Literal word</u>
Insert the numeral form of a number (for examples, insert 3 instead of the word three)	Numeral number
Put the cursor before a specific word	Go to word
Put the cursor after a specific word	Go after word
Don't insert a space before the next word	No space

To do this	Say this
Go to the start of the current sentence	Go to start of sentence
Go to the start of the current paragraph	Go to start of paragraph
Go to the start of the current document	Go to start of document
Go to the end of the current sentence	Go to end of sentence
Go to the end of the current paragraph	Go to end of paragraph
Go to the end of the current document	Go to end of document
Select a word in the current document	Select word
Select a word range in the current document	Select word range; Select word through word
Select all text in the current document	Select all
Select a number of words before the location of the cursor	Select previous 20 words; Select previous 10 words

To do this	Say this
Select a number of words after	Select next 20 words; Select
the location of the cursor	next 10 words
Select the last text you dictated	Select that
Clear the selection on the	<u>Clear selection</u>
<u>screen</u>	
Capitalize the first letter of a	Caps word
word	A.II.
<u>Capitalize all the letters of a</u> word	All caps word
Make all the letters in a word	No caps word
lowercase	110 caps word
Change the next number of	Change next 10 words to
words to uppercase	<u>uppercase</u>
Change the next number of	Change next 10 words to
words to lowercase	<u>lowercase</u>
Delete the previous sentence	Delete previous sentence
Delete the next sentence	<u>Delete next sentence</u>
Delete the previous paragraph	Delete previous paragraph
Delete the next paragraph	Delete next paragraph
Delete the selected or last	Delete that
dictated text	

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Commands for the keyboard

To do this	Say this
Press a key or key combination	Press keyboard key; press A; press capital B; press Shift plus A; press Ctrl plus A
Press certain keyboard keys without saying "press" first	<u>Delete; Backspace; Enter; Page Up; Page</u> <u>Down; Home; End; Tab</u>

Notes:

- You can also use the ICAONATO phonetic alphabet. For example, say "press alpha" to press A or "press bravo" to press B.
- Speech Recognition commands for the keyboard works only with languages that use Latin alphabets.

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Commands for punctuation marks and special characters

To Insert this	Say this
L	<u>Comma</u>
L	<u>Semicolon</u>
<u>.</u>	Period; Dot; Decimal point
<u>:</u>	<u>Colon</u>
<u>"</u>	Open double quote; Open quote
<u>"</u>	Close double quote; Close quote; Close inverted
	<u>commas</u>
1 -	<u>Apostrophe</u>
1 -	Open single quote
1 -	Close single quote
<u>></u>	<u>Greater than sign</u>
<u><</u>	<u>Less than sign</u>
L	Forward slash
7	<u>Backslash</u>
~	<u>Tilde</u>
<u>@</u>	<u>At sign</u>
<u>!</u>	Exclamation mark; Exclamation point
?	Question mark
<u>#</u>	Number sign; Pound sign

To Insert	Say this
this	Dollar sign
<u>\$</u>	<u>Dollar sign</u>
<u>%</u>	Percent sign
^	<u>Caret</u>
1	Open parenthesis; Open paren
)	Close parenthesis; Close paren
_	<u>Underscore</u>
Ξ	Hyphen; Minus sign; Dash
Ξ	<u>En dash</u>
Ξ	Em dash
三	<u>Equal sign</u>
<u>+</u>	<u>Plus sign</u>
1	Open brace; Open curly bracket
}	Close brace; Close curly bracket
1	Open bracket; Open square bracket
1	Close bracket; Close square bracket
1	<u>Vertical bar</u>
<u>:-)</u>	Smiley face
<u>:-(</u>	Frowny face

To Insert this	Say this
<u>;-)</u>	Winky face
TM	<u>Trademark sign</u>
3/4	<u>Three-quarter sign</u>
1/4	One-quarter sign
1/2	One-half sign
<u>£</u>	Pound sterling sign
<u>&</u>	Ampersand; And sign
*	<u>Asterisk</u>
<u>//</u>	<u>Double slash</u>
_	Back quote
<u><</u>	Open angle bracket
<u>></u>	Close angle bracket
<u>±</u>	<u>Plus or minus sign</u>
<u>«</u>	Open angle quote
<u>»</u>	Close angle quote
×	Multiplication sign
<u>÷</u>	<u>Division sign</u>
<u>¢</u>	Cent sign

To Insert this	Say this
<u>¥</u>	Yen sign
<u>§</u>	Section sign
<u>©</u>	Copyright sign
<u>®</u>	Registered sign; Registered trademark sign
o _	<u>Degree sign</u>
<u>¶</u>	Paragraph sign
•••	Ellipsis; Dot dot dot
f	<u>Function sign</u>

Commands for Windows and apps

To do this	Say this
Select an item by its name	File; Start; View
Select an item or icon	Click Recycle Bin; click Computer; click file name

To do this	Say this
Double-click an	Double-click Computer; double-click Recycle
<u>item</u>	Bin; double-click folder name
Right-click an item	Right-click Computer; right-click Recycle Bin;
	<u>right-click</u> folder name
Minimize all	Show desktop
windows to show	
your desktop	
Select something	Show numbers (Numbers will appear on the
if you don't know	screen for every item in the active window.
what it's called	Say an item's corresponding number to select
	<u>it.)</u>
Select a numbered	<u>19 OK; 5 OK</u>
<u>item</u>	
Double-click a	Double-click 19 ; Double-click 5
numbered item	
Right-click a	Right-click 19; Right-click 5
numbered item	Nght ener 197 Nght ener 9
Open an app	Open Paint; Open WordPad; Open app
Орен ан арр	name
Cwitch to an onen	
Switch to an open	Switch to Paint ; Switch to WordPad ; Switch
<u>app</u>	to app name; Switch application
Close an app	Close that; Close Paint; Close Documents

To do this	Say this
<u>Minimize</u>	Minimize that; Minimize Paint; Minimize Documents
<u>Maximize</u>	Maximize that; Maximize Paint; Maximize Documents
Restore	Restore that; Restore Paint; Restore Documents
Cut	Cut that; Cut
Copy	Copy that; Copy
<u>Paste</u>	<u>Paste</u>
<u>Delete</u>	Delete that; Delete
<u>Undo</u>	Undo that; Scratch that; Undo
Scroll in one direction	Scroll up; Scroll down; Scroll right; Scroll left
Scroll an exact distance in pages	Scroll down 2 pages; Scroll up 10 pages
Scroll an exact distance in other	Scroll up 5 ; Scroll down 7
<u>units</u>	
Go to a field in a form or app	Go to field name; Go to Subject; Go to Address; Go to cc

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Commands for using the mouse

To do this	Say this
Show the mousegrid	<u>Mousegrid</u>
Move the pointer to the center of a mousegrid square	Number of the square; 1; 7; 9
Select a mousegrid square	Click number of the square
Select an item to drag with the mouse	Number of the square where the item appears (followed by) mark; 3 mark; 7 mark; 9 mark
Select an area in the mousegrid where you want to drag the item	Number of the square where you want to drag the item (followed by) click; 4 click; 5 click; 6 click

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