

Accessibility with Al / Microsoft / Windows + 365

Andrew Balzer Education Success Manager Microsoft



Andrew Balzer

Education Success Manager



Andrew.Balzer@microsoft.com



Twitter.com/AlphaBalzer

Linkedin.com/in/andrew-balzer



Acknowledgement of Country

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Microsoft

Session Agenda

- Accessibility at Microsoft
 - Overview of landscape
- Al and accessibility
- Windows Ease of Access/Accessibility
- Accessibility in Office
 - Immersive Reader
 - Word Prediction
 - Dictate
 - Editor
 - + More





"Our mission is to empower <u>every</u> person and every organisation on the planet to achieve more."



Promoting independent learning

Accessible technologies help students with disabilities unlock their full potential by addressing a diversity of needs:



Learning

- Dyslexia
- Dysgraphia
- Dyscalculia



Visual

- Low vision
- BlindColorblind



Hearing

- Deaf
- Hard of Hearing



Mobility

- Cerebral Palsy
- Muscle
 Dystrophy
- Amputation



Neurodiversity

Autism

Seizure

ADD/ADHA

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Mental Health

- Anxiety
- Depression
- OCD

See Microsoft Accessibility features for every classroom: <u>http://aka.ms/AccessibilitySway</u>

Empowering every student with Microsoft Education

All students can achieve more when they have access to the right tools.



Immersive Reader

Assist with comprehension, fluency, and decoding

Word, OneNote, Outlook Web Access, and Edge Word Prediction

Save typing time and word input with predictive text in multiple languages

Windows 10

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Dictate

Use voice to dictate directly into documents

Word, Excel, PowerPoint, OneNote, Outlook abc

Editor

Write easy-to-read documents

Word, Excel, PowerPoint, OneNote, Outlook



Ease of Access

Make accessibility easier to discover, learn, and use

Vision, hearing, mobility, cognition

There are many different types of disabilities—and most are invisible

Per the
World
Health
Organization
(WHO):

"Disability results from the interaction between individuals with a health condition [and] personal and environmental factors including negative attitudes, inaccessible transportation... and limited social support."¹

Some types of disabilities:



Mobility

Vision Hearing



Neurodiversity

Disability is everywhere, even if not in plain sight

62%

of employees with disabilities in one study classified their disabilities as invisible²



of people today experience some form of disability³

10%

of people have access to the assistive devices they need³

Microsoft Learning Tools Availability

Read Aloud & word/line highlighting	OneNote Desktop	OneNote Web	OneNote App	OneNote iOS	OneNote Mac	Word Web	Word Desktop	Word Mac	Word iPad	PowerPoint Web	Outlook Web	Outlook Desktop	Teams	Flipgrid Web, iOS, Android	Whiteboard	Forms	OneDrive + SharePoint	MakeCode	Minecraft EDU	Office Lens iOS, Android	Edge browser
Spacing and Font Size	OneNote Desktop	OneNote Web	OneNote App	OneNote iOS	OneNote Mac	Word Web	Word Desktop	Word Mac	Word Ipad	PowerPoint Web	Outlook Web	Teams	Flipgrid Web, iOS, Android	Whiteboard	Forms	OneDrive + SharePoint	MakeCode	Minecraft EDU	Office Lens iOS, Android	Edge browser	
Page Colors	OneNote Desktop	OneNote Web	OneNote App	OneNote iOS	OneNote Mac	Word Web	Word Desktop	Word Mac	PowerPoint Web	Outlook Web	Teams	Flipgrid Web, iOS, Android	Whiteboard	Forms	OneDrive + SharePoint	MakeCode	Minecraft EDU	Office Lens iOS, Android	Edge browser		
Syllables	OneNote Desktop	OneNote Web	OneNote App	OneNote iOS	OneNote Mac	Word Web	Word Desktop	PowerPoint Web	Outlook Web	Teams	Flipgrid Web, iOS, Android	Whiteboard	Forms	OneDrive + SharePoint	MakeCode	Minecraft EDU		Edge browser			
Line Focus	OneNote Desktop	OneNote Web	OneNote App	OneNote iOS	OneNote Mac	Word Web	Word Desktop	PowerPoint web	Outlook web	Teams	Flipgrid Web, iOS, Android	Whiteboard	Forms	OneDrive + SharePoint	MakeCode	Minecraft EDU		Edge browser			
Parts of Speech	OneNote Desktop	OneNote Web	OneNote App	OneNote iOS	OneNote Mac	Word Web	PowerPoint Web	Outlook Web	Teams	Flipgrid Web, iOS, Android	Whiteboard	Forms	OneDrive + SharePoint	MakeCode	Minecraft EDU	Office Lens iOS, Android	Edge browser				
Picture Dictionary	OneNote Desktop	OneNote Web	OneNote App	OneNote iOS	OneNote Mac	Word Web	PowerPoint Web	Outlook Web	Teams	Flipgrid Web, iOS, Android	Whiteboard	Forms	OneDrive + SharePoint	MakeCode	Minecraft EDU	Office Lens iOS, Android	Edge browser				
Translation	OneNote Desktop	OneNote Web	OneNote App	OneNote iOS	OneNote Mac	Word Web	PowerPoint Web	Outlook web	Teams	Flipgrid Web, iOS, Android	Whiteboard	Forms	OneDrive + SharePoint	MakeCode	Minecraft EDU	Office Lens iOS, Android	Edge browser				
Math & Equations	OneNote Web	OneNote App	OneNote iOS	OneNote Mac	Word Web	Word Desktop	PowerPoint Desktop	Forms	Edge browser												
Dictation	OneNote Desktop	OneNote App	OneNote Web	Word Web	Word Desktop	Outlook Desktop	PowerPoint Desktop	PowerPoint Web	Windows 10												

Learning Tools Flyer for PD: <u>http://aka.ms/LearningToolsFlyer</u>

Accessibility tools improve outcomes

Educators are better able to support academic improvement for all students with tools that enable inclusive teaching.





Microsoft Translator

Get real-time subtitles and translations of text, websites, pictures, and voice Office Lens

Digitise whiteboard or blackboard notes and convert them to Microsoft Word, PowerPoint, or PDF Accessibility

Checker

Make sure your Word, PowerPoint, and Excel documents are accessible

Automatic alt text Using AI, Microsoft Translator will automatically provide image descriptions



Microsoft Stream

Get automatic transcriptions of audio or video recordings

Disability Support

Disability Answer Desk



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Adaptive accessories, designed for accessibility

Explore the highly adaptable, easy-to-use accessories that let you customize your own mouse, keyboard inputs, and shortcuts.

Explore adaptive accessories >

Get accessory support >



Accessibility tips Disability Answer Desk (Non enterprise)

Product accessibility overview

We create inclusively-designed products to empower people across the spectrum

Microsoft Teams

Find guidance and best practices for accessible meetings, chat and collaboration across your teams.

Windows

11

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Need help with Microsoft Windows? You've come to the right place for accessibility information.

Microsoft 365

Find step-by-step instructions for using Microsoft 365 and Office 365 with assistive technologies.

Accessibility support for enterprise customers



Connect with an accessibility expert

The enterprise Disability Answer Desk is a support resource for organizations that have questions about the accessibility of Microsoft products and product conformance with accessibility standards. The support team can help resolve issues relating to assistive technology and functionality of products for users with disabilities, as well as find conformance documentation.

EMAIL THE ENTERPRISE DISABILITY ANSWER DESK >

Disability Answer Desk (Enterprise)

Additional Resources

Ask Microsoft Preview Accessibility

Bing AI-powered accessibility discoverability tool

Ask Microsoft Accessibility is powered by AI, so surprises and mistakes are possible. Please share feedback so we can improve! | Responsible AI FAQ.

The Ask Microsoft Accessibility bot is a tool that helps users find information about the accessibility of Microsoft products and services. It uses only the publicly available information on microsoft.com as a reference and does not answer general accessibility questions or questions about code.

Sample Questions

- What accessibility features are available on Xbox?
- · How do I set up my adaptive accessory hub?
- · How do I use Voice Access on Windows?
- · How do I make text bigger in the message list in Outlook?

Ask Microsoft Accessibility

Ask me anything about Microsoft accessibility, and I will assist you. Feel free to ask follow-up questions as needed.

Enter Question

Ask me anything about Microsoft Accessibility (Alt+Q)

Accessibility help & learning

How can we help you?





Excel













Windows

Microsoft 365

W

Word

PowerPoint

Outlook

Microsoft Teams

OneNote

OneDrive

SharePoint

SEE MORE APPS >

Copilot for Microsoft 365: your everyday AI companion

Learn about how Copilot for Microsoft 365 can be used to help you perform tasks faster.

LEARN HOW TO USE COPILOT FOR MICROSOFT 365 >







Efficiencies with Copilot

Copilot is the new way to search...and more

Get answers for Summarize a Draft emails and Generate Learn new specific and complex long PDF skills content images questions II. Use Copilot as your Leave behind stock Ask questions tailored **Elegantly handle** Turn a 20-page, complex assistant on call to draft PDFs into 5 bullets using images and text-only to your needs and questions that require Copilot in Edge multiple data points or emails, materials, and reports in favor of interests to get custom-generated consolidated key a degree of analysis more points from the internet images for you

Access Microsoft Copilot in five places

Copilot Mobile Microsoft Edge sidebar Copilot.Microsoft.com C. R. Househouse 在书台 建海 E Q 0 4 44 # # 1 Statute -- Intil (Contrato manual depth 9:41 Copilot Copilot the Managed 345 toriginal Archarks for the sale. Protected M365 Chat Bing Chat 1. 4000 Data - ---which an annual in my Int start quarter into E Calquin Copilot -A Designation -----since the set and here cannot be seen in E Abaijan Protected Al chat for the web (marked life) of an V Write . 6 * Help me prepare and write a successful sales pitch 13 A # 10 0 0. 616 Compare Windows Bing.com/chat b) (2) ± ----- mapon -2 P + 2 3 - 0 Exception it sees interest space * Copile Copilot ented Al shall for the we ----A 45 0 -----41 12 ----. 1....

Understanding the autonomy



Go Mobile









Al generated ①



Windows accessibility

Inclusively designed for everyone





A more accessible Windows experience has the power to help tackle the 'disability divide'—to contribute to more education and employment opportunities for people with disabilities across the world.

— Jeff Petty, Windows Accessibility Leader at Microsoft¹

Microsoft's inclusive design principles

- 1. Recognize exclusion Reflect how people really are
- 2. Solve for one, extend to many Design to benefit people universally
- **3. Learn from diversity** Put people in the center from the start

THE WAY YOU SEE IT

Christine Douglas – The way you see it

-

DISCOVER MICROSOFT'S ACCESSIBILITY TECHNJLOGIE

See the video here

John Designer, Input and Accessibility

Redesigned for productivity, creativity, and ease—for everyone

People with disabilities were engaged in designing Windows 11 from the start. The resulting operating system aims to provide a delightful experience for everyone—with disabilities and without.

Your device, your way	Tailor your view
Navigate your computer	Customize your display to
with keyboard shortcuts,	see every detail—or skip
voice, or eye control	the screen entirely
Catch every word	Get in the zone
Experience full-spectrum	Cut down on distractions
sounds or use captions	and focus on the task at
instead	hand

At its core, Windows 11 provides

- Best productivity and collaboration experiences
- Industry-leading security from chip to cloud
- Simplicity and lowest total cost of ownership



Make your PC easier to use - Windows 10 Ease of Access

Windows Settings

			Find a setting		Q		
口	System Display, sound, notifications, power		Devices Bluetooth, printers, mouse		Phone Link your Android, iPhone		Network & Internet Wi-Fi, airplane mode, VPN
₫ I	Personalization Background, lock screen, colors		Apps Uninstall, defaults, optional features	8	Accounts Your accounts, email, sync, work, other people	心 A字	Time & Language Speech, region, date
\bigotimes	Gaming Game bar, captures, broadcasting, Game Mode	(¹ 7	Ease of Access Narrator, magnifier, high contrast	0	Cortana Cortana language, permissions, notifications	A	Privacy Location, camera

Update & Security Windows Update, recovery, backup

Windows 11 builds on the strengths of Windows 10



Reimagined Accessibility Settings

- Easily identify the newly renamed Accessibility Settings (formerly "Ease of Access")
- Personalize your Windows 11 experience for vision, hearing, and interaction method from just one menu

The redesigned settings illustrate our overall approach to accessibility in Windows 11. It's easier to find and control, incorporates feedback from users of various backgrounds and abilities, and, ultimately, celebrates the fullness of human ability.





Live Demo



Learn more about Windows 11 accessibility

Websites

Windows 11 accessibility homepage microsoft.com/accessibility/windows

Accessibility support for Windows aka.ms/Windows/AccessibilitySupport

Accessibility information for IT Professionals <u>aka.ms/AccessibilityAdminGuide-Windows</u>

Blogs

New accessibility features coming to Windows 11 <u>aka.ms/Windows/A11yBlog05-2022</u>

Making Windows 11 the most inclusively designed version of Windows yet <u>aka.ms/Windows/A11yBlog10-2021</u>

Video

Designing an inclusive Windows 11 for a hybrid world <u>aka.ms/Windows/Accessibility-Ignite2021</u> or watch on next slide



Creating Accessible Content

Accessibility in Office



Al has incredible potential to improve the lives of people with disabilities



Intro



Quotes from Aditi, data scientist at Microsoft who uses a screen reader

Jupyter & Azure ML notebooks



Trying new things







Office Lens




Dictate

Microsoft Australia | Inclusive Classroom Info Session



Translator



Microsoft Australia | Inclusive Classroom Info Session

Accessibility Checker



+ Many more



Microsoft Australia | Inclusive Classroom Info Session



Live Demo





The same child then wrote this story based on the plan, completely independently, on OneNote.

One day around 1956 a scientist was working around the radioactive waste at the nuclear plant where he worked. Then the alarm went off and he fell into the radioactive waste. Suddenly he turned into a body of acid! Everyone ran and screamed, "Monster run!" Suddenly the acid monster rose up and ate the whole nuclear plant. He grew to the height of a skyscraper suddenly the fire department accidentally sprayed the monster with clean water. Then he shrank and the government got every fire truck in America to spray him until he was very small. They locked him away

7th Grader Before and After with Dictate



Tryg Berger Mod 1.

Big Macky D the alien time traveler set his time machine to 1878 just before the Minneapolis Minnesota Washburn, A mill flour explosion. Crack, boom, bang, he arrived and all of a sudden, then is door flew open. He hopped out into a 1950's malt shop. Chubby checker was playing on the juke box in the corner. He was as angry as Mrs. Beck. He realized that his time machine had broken and he was stuck in the 1950's unless he could do something to fix it.

Big Macky D went to the nearest phone booth and called Doc Brown To help fix The Time Machine. He ate a burger and malt while he waited for Doc to arrive from the year 2018.

Achieving more with accessibility – Inclusion in Action series



<u>Andrew</u>, a young boy who read for the first time with Learning Tools.



Justin, a young man who uses Office 365 to communicate with the world.



<u>Veronica</u>, a student with low vision who created a perfect Sway.



<u>Cameron</u>, a university lecturer who believes it is an exciting time to be a blind person with Seeing AI.



Jack, a teacher who shows students what is possible with Office 365 and Narrator.



<u>Steve</u>, who navigated a medical crisis with OneNote to access printed documents.

Accessibility Learning Webinar Series

- Interactive online event where anyone can learn about the latest Microsoft accessibility features, productivity tips for school and work, or technology that enables a more independent and full life.
- Sign up for webinars: <u>Accessibility Learning Webinars</u>
- <u>Watch completed webinars</u> on YouTube



Do-it-yourself accessibility

- A series of videos from Microsoft Customer Support covering eye control, text size, screen reader use, assistive technology, and more.
- Accessibility videos playlist

>> Hi! I'm Chitra with Microsoft accessibility team.

Accessibility At-A-Glance series

- Accessibility at a Glance is a series of short videos built to help you learn how to create an inclusive digital experience for people with disabilities.
- Watch <u>Accessibility At-A-Glance</u> videos

An animated Guy Barker is among Microsoft employees featured in the Accessibility At-A-Glance series.



PDF Accessibility Training

- Learn how to create accessible PDF documents in this series.
- Watch the <u>PDF Accessibility Training</u> videos

BRAND LOYALTY

A customer research survey, co-sponsored by Contoso and Northwind and conducted at the beginning of 2012, asked consumers why they chose to buy Northwind-brand electronics over other name brands.

The phrases that emerged most often were "best value" (26 percent), "trusted" (23 percent), "good quality" (21 percent), and "innovative" (19 percent). All of these phrases map back to both companies' core values, proving that Northwind's and Contoso's shared approach to business is paying off.

A trusted brand

To investigate longer-term trends, we again turned to customer research to determine why consumers were turning to the Northwind brand in droves. Not surprisingly, the worldwide recession that began in 2008 has been a major factor. With less discretionary income, consumers are turning to trusted brands that are perceived to be good quality yet still a good value for the money.



Office Accessibility

- Find resources for people with disabilities and how to make content accessible for everyone at the <u>Office</u> <u>Accessibility Center</u>
- Office 365 provides best-in-class apps and powerful cloud services with accessibility built-in. Learn about <u>accessibility capabilities in</u> <u>Office 365</u>
- Get <u>accessible templates</u> for Office
- Office accessibility video training



Windows 10

Get <u>Windows 10</u> accessibility help

- Learn about <u>Ease of Access</u> features
- Complete guide to Narrator
- <u>Color filters</u>
- Resources for <u>low vision</u>
- <u>Closed caption</u> settings



AI for Accessibility

Al for Accessibility is a \$25 million, 5-year program to accelerate the development of accessible and intelligent Al solutions to benefit persons around the world with disabilities.

- <u>AI for Accessibility</u> website
- Check out how our grantees are using AI powered technology to make the world more inclusive. <u>Accessibility Projects</u>



Feature Availability

	OneNote				Word				PPT	Outlo	ok	Other						
	Online	Desktop	Windows 10	iPad	Online	Office 365	Mac	iPad	Web	Online	Office 365	Teams	Edge	Forms	Flipgrid	Minecraft	Office Lens	
Read Aloud	\checkmark	\checkmark	\checkmark	√	√	√	\checkmark	V	√	~	\checkmark	~	√	√	√	√	\checkmark	
Spacing and Font Size	V	\checkmark	~	\checkmark	V	\checkmark	~	~	~	V		~	\checkmark	√	√	~	\checkmark	
Syllables	\checkmark	\checkmark	\checkmark	\checkmark	√	\checkmark	\checkmark		√	~		~	\checkmark	√	√	~	\checkmark	
Parts of Speech	V	\checkmark	\checkmark	\checkmark	~				~	V		~	\checkmark	√	\checkmark	\checkmark	\checkmark	
Dictate	V	\checkmark	\checkmark		√	\checkmark			√		\checkmark							
Line Focus	\checkmark	\checkmark	\checkmark	\checkmark	√				√	~		~	\checkmark	√	\checkmark	\checkmark	\checkmark	
Picture Dictionary	\checkmark	\checkmark	\checkmark	\checkmark	√				√	~		~	\checkmark	√	√	\checkmark	\checkmark	
Translation	\checkmark		\checkmark	\checkmark	V				V	V		V	_	√	V	V	√	
Math Equation support	V	\checkmark	\checkmark		V	~	Learning Tools Flyer – <u>aka.ms/learningtoolsflyer</u>											



Special Education and Accessibility Resources for Remote Learning

31 videos • 16 views • Updated 6 days ago

= % 🔺 …

Microsoft Education

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You Can Improve Reading Skills With Microsoft Learning Tools

Microsoft Education



8

Learning Tools – <u>Accessibility Playlist</u>



About

Introducing: Be My Al

Be My Eyes' Virtual Volunteer, powered by GPT-4, gets a new name and will soon be open to beta testing by hundreds of iOS users worldwide



Michele Paris Marketing and Communications Manager

Become a Be My Al Beta Tester

We're expanding our beta test for iOS users







Thank you!

Education Success Manager



Andrew.Balzer@microsoft.com



Twitter.com/AlphaBalzer

Linkedin.com/in/andrew-balzer

