

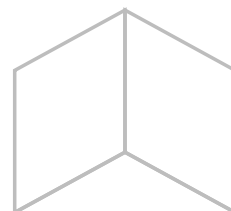
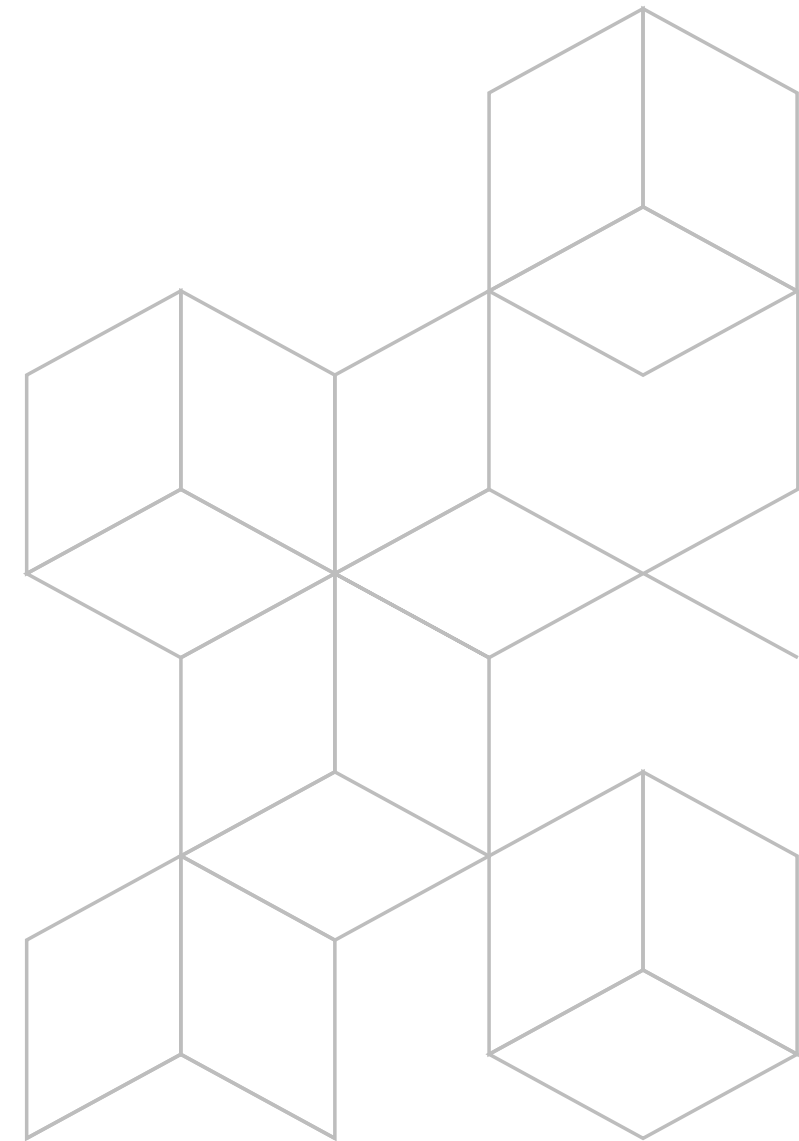
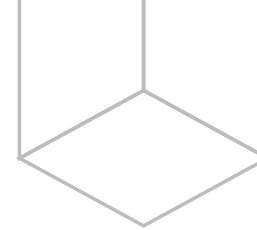
Microsoft



Accessibility and Digital Inclusion

Ricardo Wagner

Accessibility Lead
Microsoft Canada



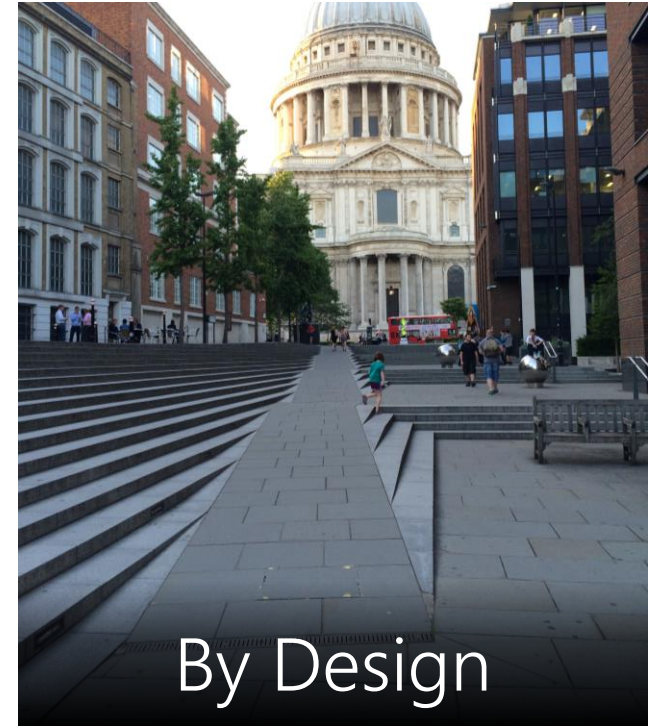
Why this Matters to Microsoft

A solvable design challenge that drives innovation

*"Stairs make the building
inaccessible, not the wheelchair"*



Afterthought



By Design

Disability is a complex phenomenon, reflecting the interaction between features of a person's body and features of the society in which he or she lives.

- World Health Organization

DISABILITY

≠

**PERSONAL HEALTH
CONDITION**

DISABILITY

=

**MISMATCHED
HUMAN
INTERACTIONS**

Disability in the Modern World

1Bn

Estimated number of
People with Disabilities WW

2x

Unemployment rate for
People with Disabilities as
compared to People
without Disabilities

6 Areas of Disability

70% of Disability is Invisible

Any of us can be affected



Disability = Talent



Permanent
(one arm)



Temporary
(arm injury)



Situational
(new parent)

Why Microsoft inclusive design?

Empower every person and every organization **on the planet** to achieve more.

There are 7.4 billion people in the world. Each unique.

Our ambition is to create products that are physically, cognitively, and emotionally appropriate for each of them.

It starts with seeing human diversity as a resource for better designs.

Culturally, the method is aligned to multiple attributes including a growth mindset.

3 principles of inclusive design

1

Recognize Exclusion

exclusion happens when we solve problems using our own biases

2

Learn from Diversity

human beings are the real experts in adapting to diversity

3

Solve for one, Extend to many

by focusing on what's universally important to all humans

Permanent Temporary Situational

Touch



One arm



Arm injury



New parent

Permanent Temporary Situational

Hear



Deaf



Ear infection



Bartender

Speak



Non-verbal



Laryngitis



Heavy accent

See



Blind



Cataract



Distracted driver

Exclusion examples





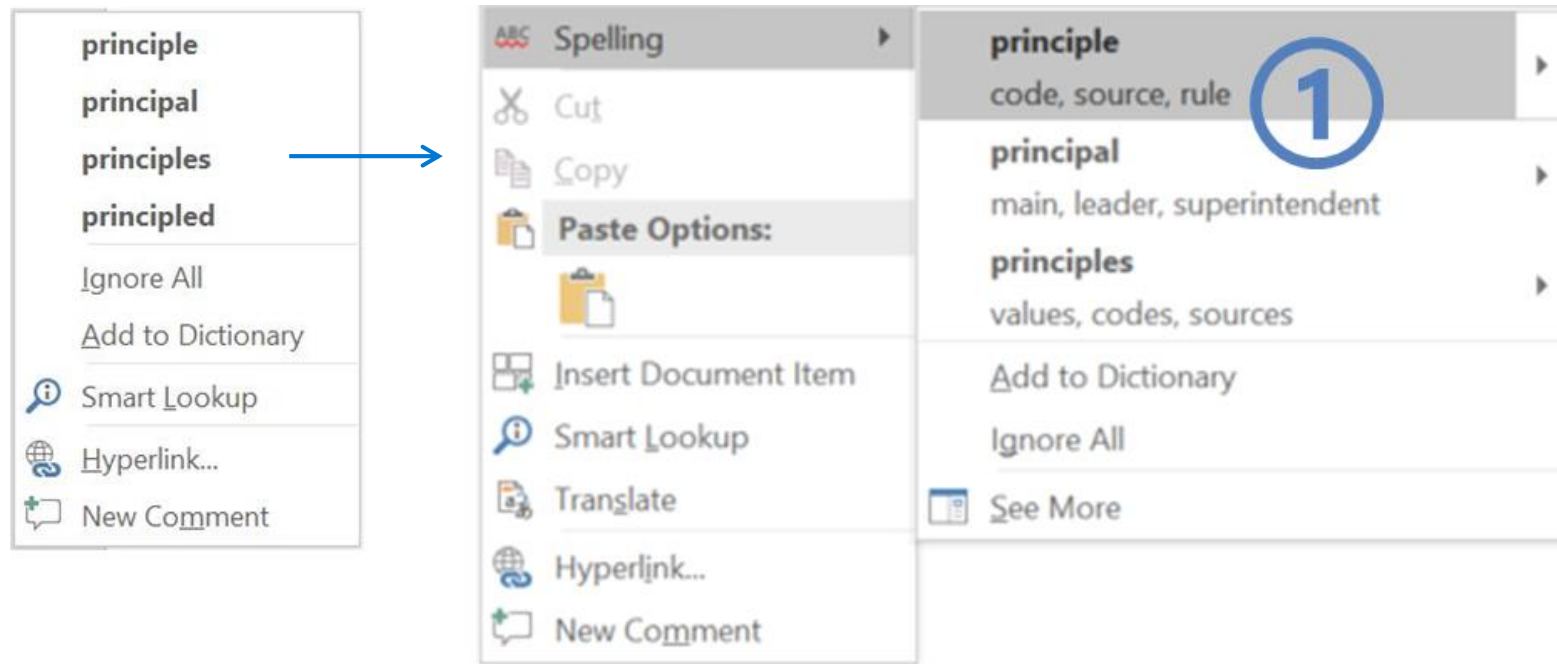
Xbox Adaptive Controller

It was an amazing experience to hand me back the controller I never thought I'd ever hold again. The whole gaming industry needs to take a lesson and understand that a large minority of gamers have a disability.

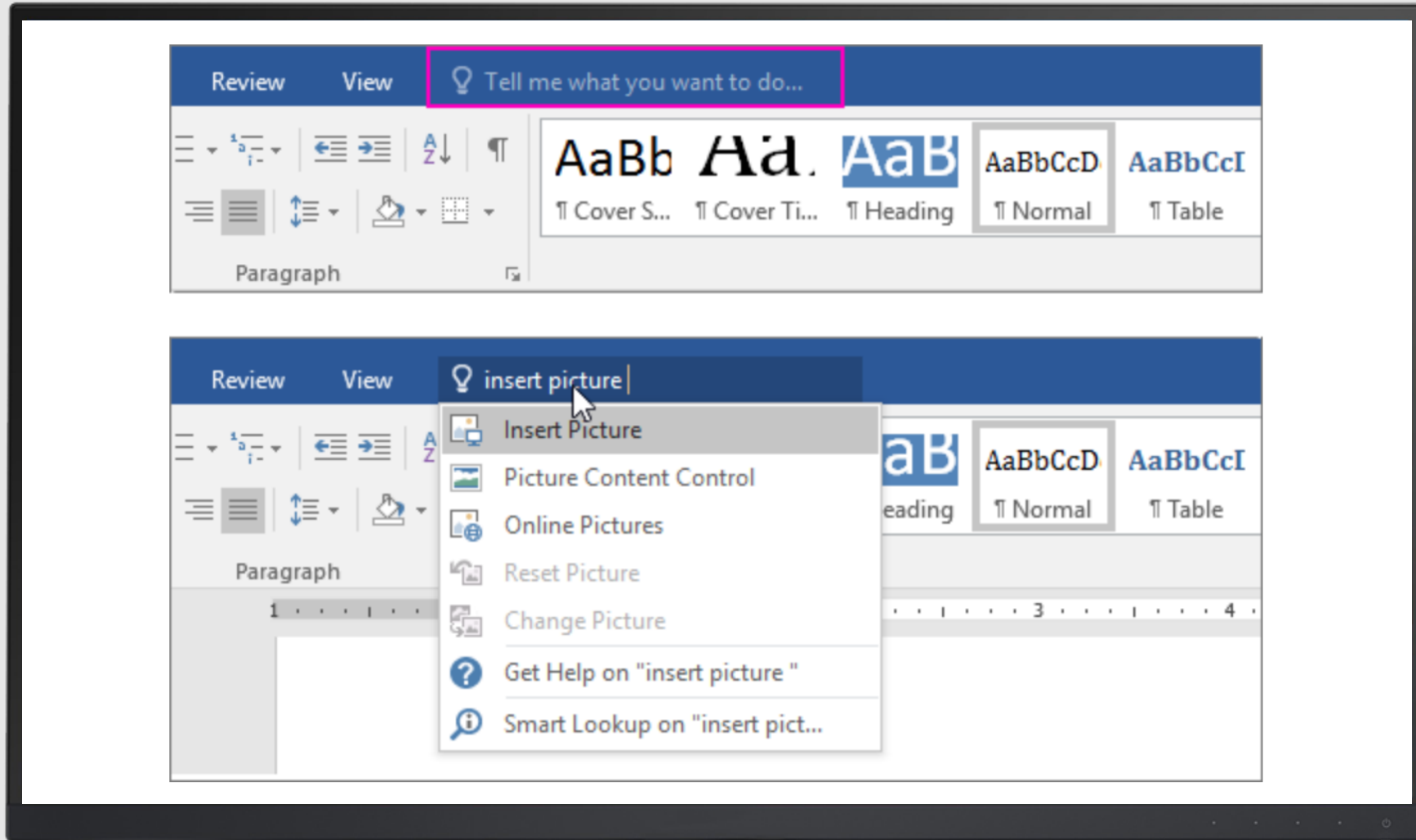
Vivek Gohil
Gamer

Editor was inspired by the plain language initiative

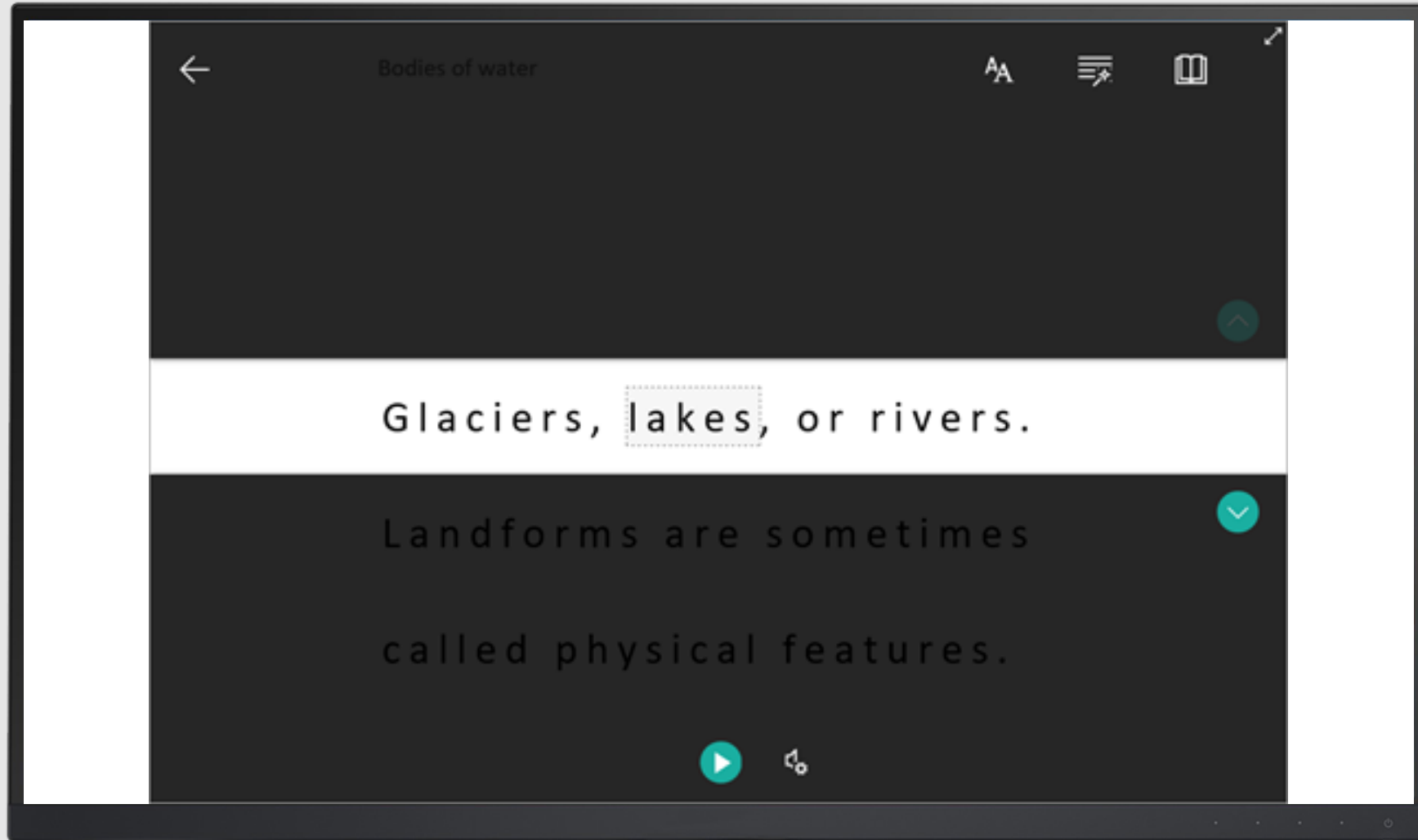
In principle, even native speakers make mistakes



Search was inspired by people who are blind



Learning Tools were inspired by people with learning disabilities





"We will focus on designing and building products that our customers love and that are accessible to everyone and built for each of us."

- Satya Nadella, CEO, Microsoft

Senior Leadership



Employees are the Experts

es Geography

of Earth's landforms **is called** physical geogr
s can **be** mountains and valleys. They can als
akes or rivers. Landforms **are** sometimes **cal**
eatures. It **is** important <for students to **know**
al geography of Earth>. The seasons, the
re and all natural processes of Earth **affect** <w
> able to **live**>. Geography **is** one of a combin
<that people **use** to **decide** <where they **want** t

cal features of a region **are** often rich in resou
iation, mountain rages **become** natural border
t areas. In the U.S., major mountain ranger **ar**
vada, the Rocky Mountains, and the Appalach

er sources also **influence** <where people **settle**
ed water to **drink**. They also **need** it

Hackathons

Our Values



Inclusive

...in how we hire and design
our products

Transparent

...in how we communicate with
our customers and partners

Accountable

...to what we commit to
delivering



Humble

...in our approach

“NOTHING ABOUT US WITHOUT US”

Partnering with internal and external stakeholders to create products that work for everyone.

Microsoft Accessibility Features



Vision

- Narrator/Braille Beta
- Magnifier
- Color Filters
- High Contrast
- SeeingAI

Hearing

- Closed Captions
- Stream
- Translator
- Mono Audio
- Visual Notifications

Physical

- Eye Control
- Sticky, filter, and toggle keys
- On Screen Keyboard
- Dictation
- PowerPoint Designer

Cognition

- Learning Tools, Read Aloud, and Reading Mode
- Quiet Hours
- Turn Off Notifications
- Editor
- Inking
- Researcher

Inclusive Design Features

- Windows Hello
- Tell Me
- Word Prediction
- Text Suggestions*

Support articles for all features can be found at: aka.ms/microsoftaccessibilityfeatures

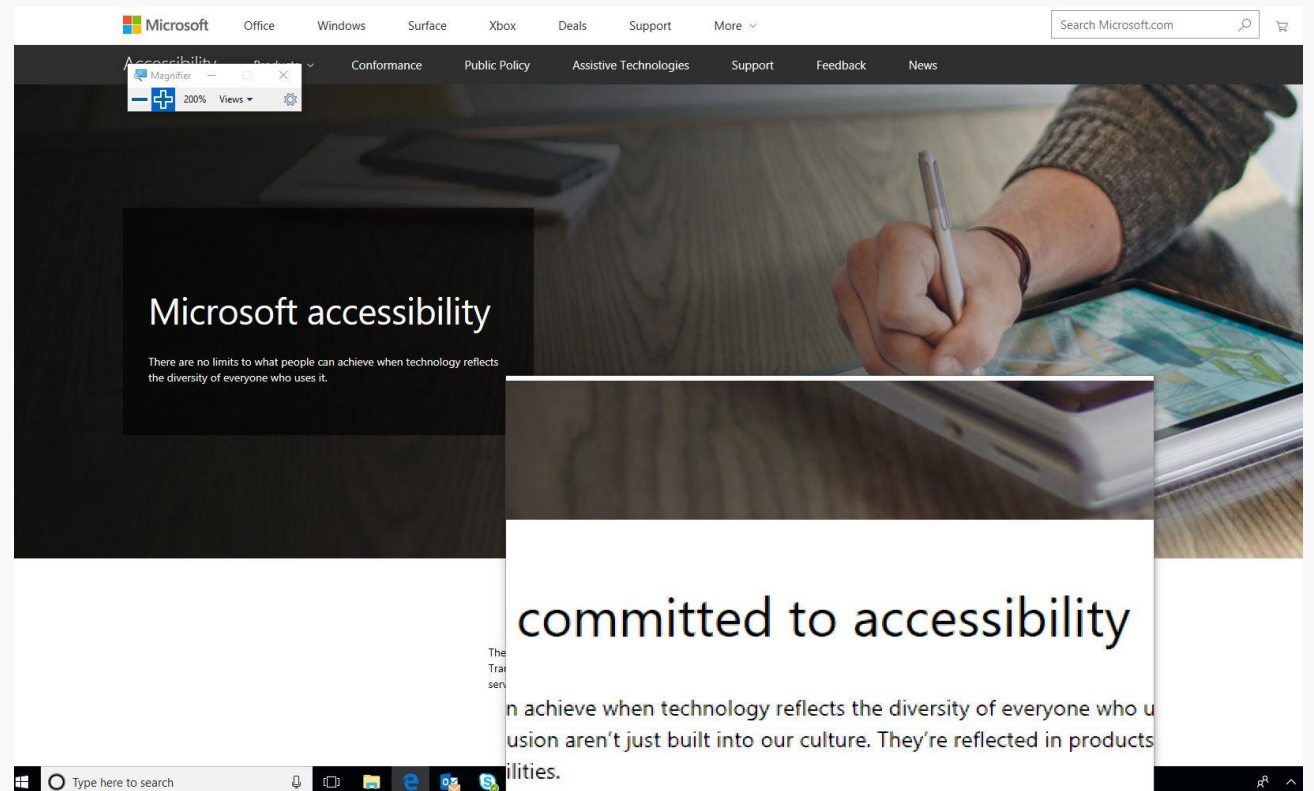
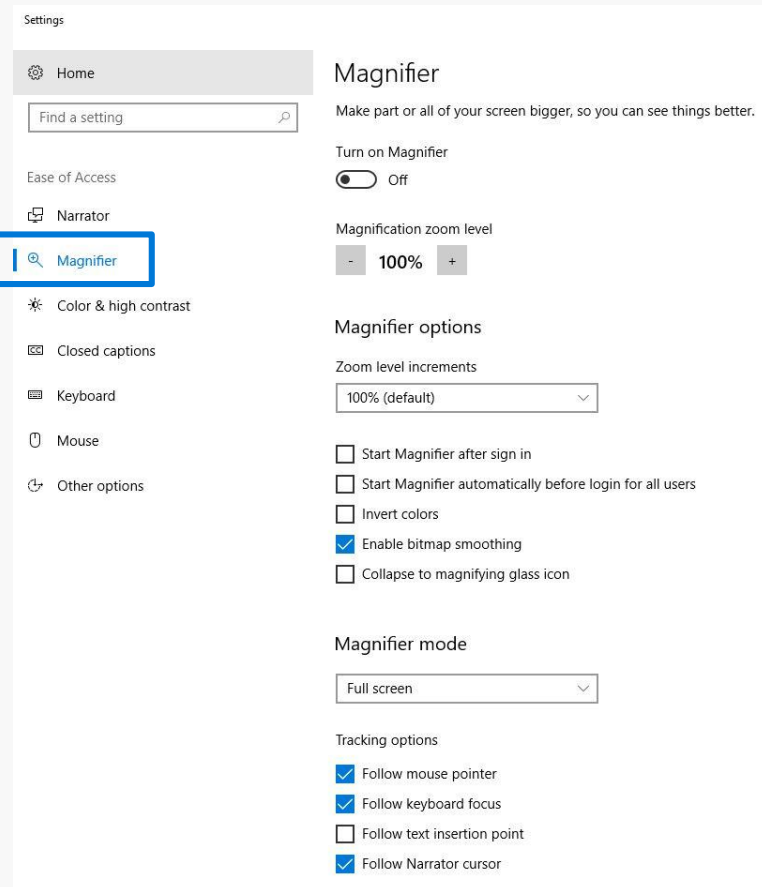
***coming in next build**

Braille in Narrator Beta

- Windows 10 narrator supports braille displays from over 25 manufactures
 - ✓ A braille keyboard can be used for entering commands or entering text in contracted or uncontracted braille
- In the Fall Creators update, we also added the highly requested ability to perform keyboard shortcuts like Ctrl+S or Alt+Tab via commands on a braille keyboard

[Link to braille support in narrator user guide](#)

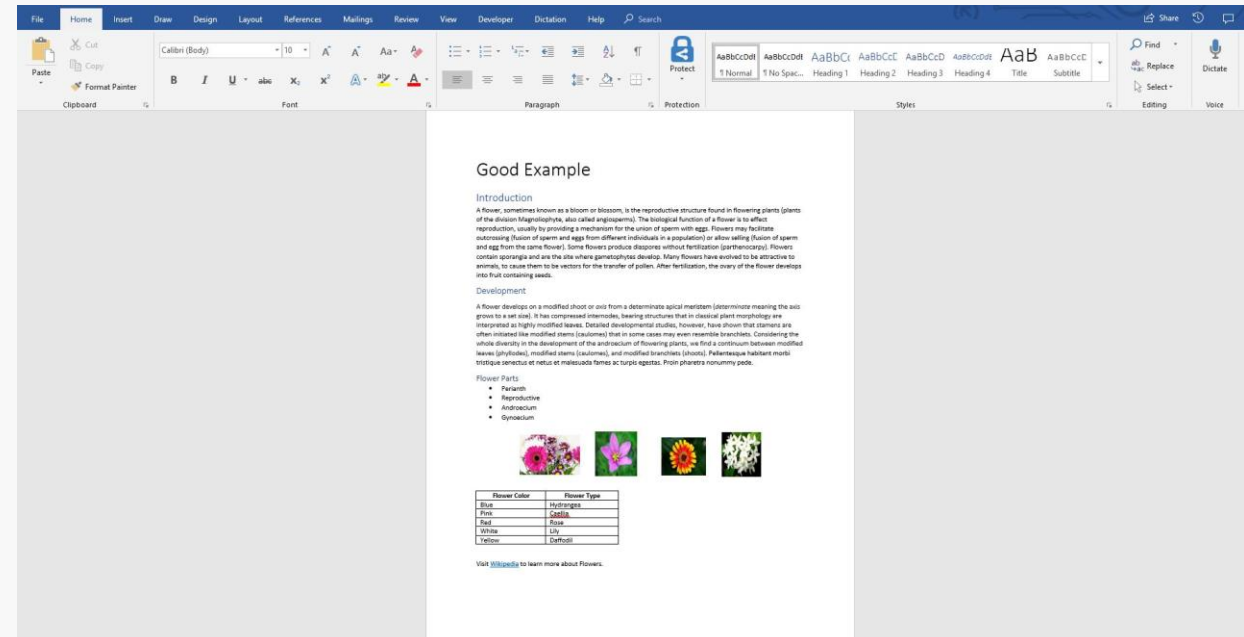
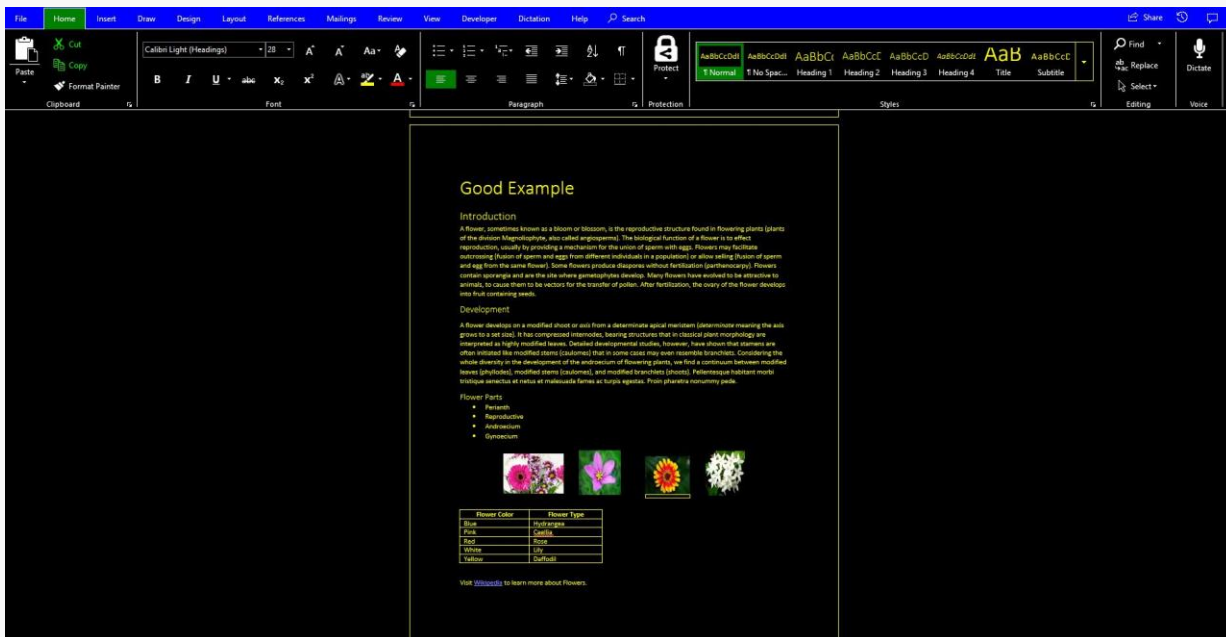
Magnifier



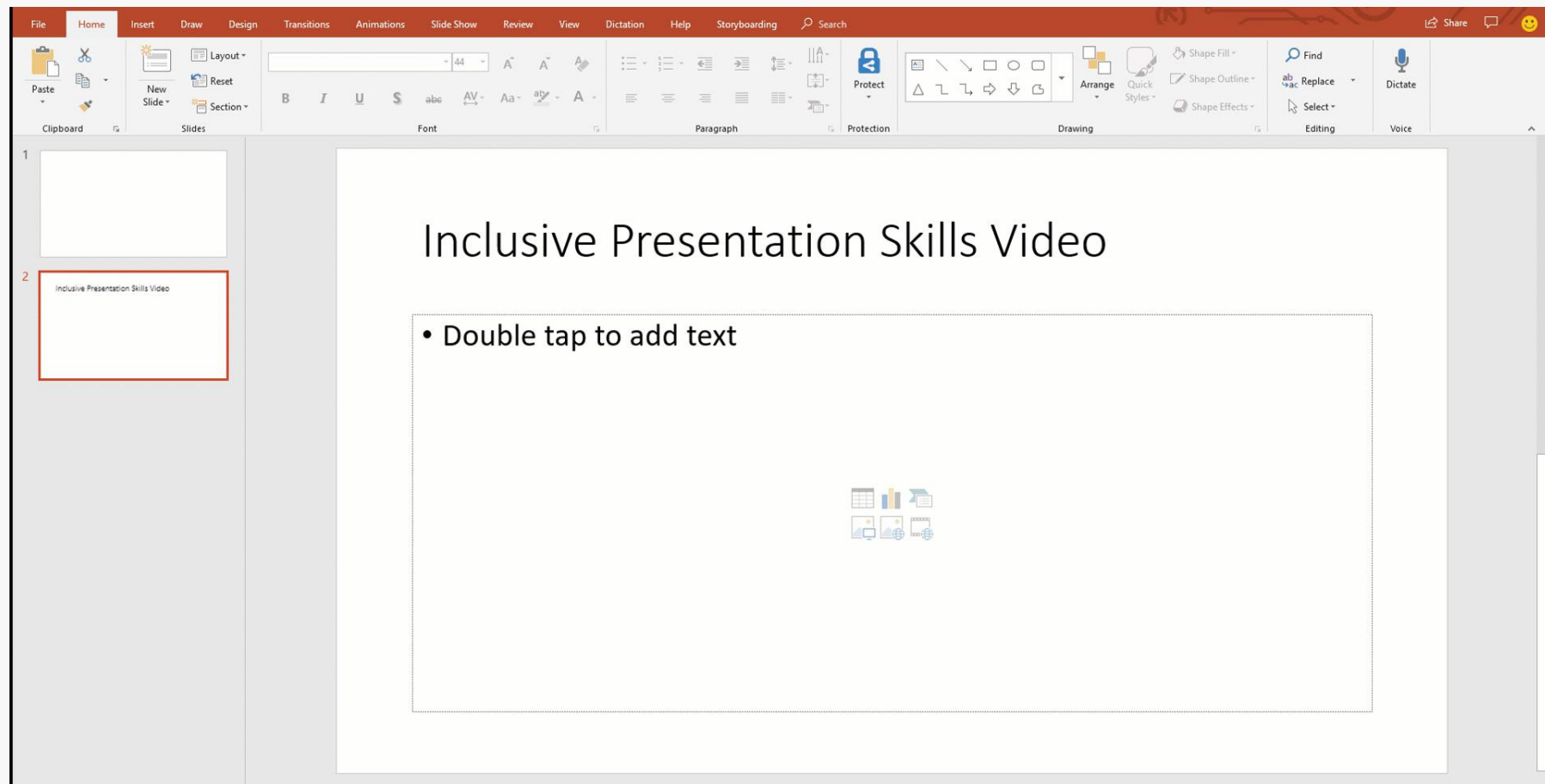
Seeing AI



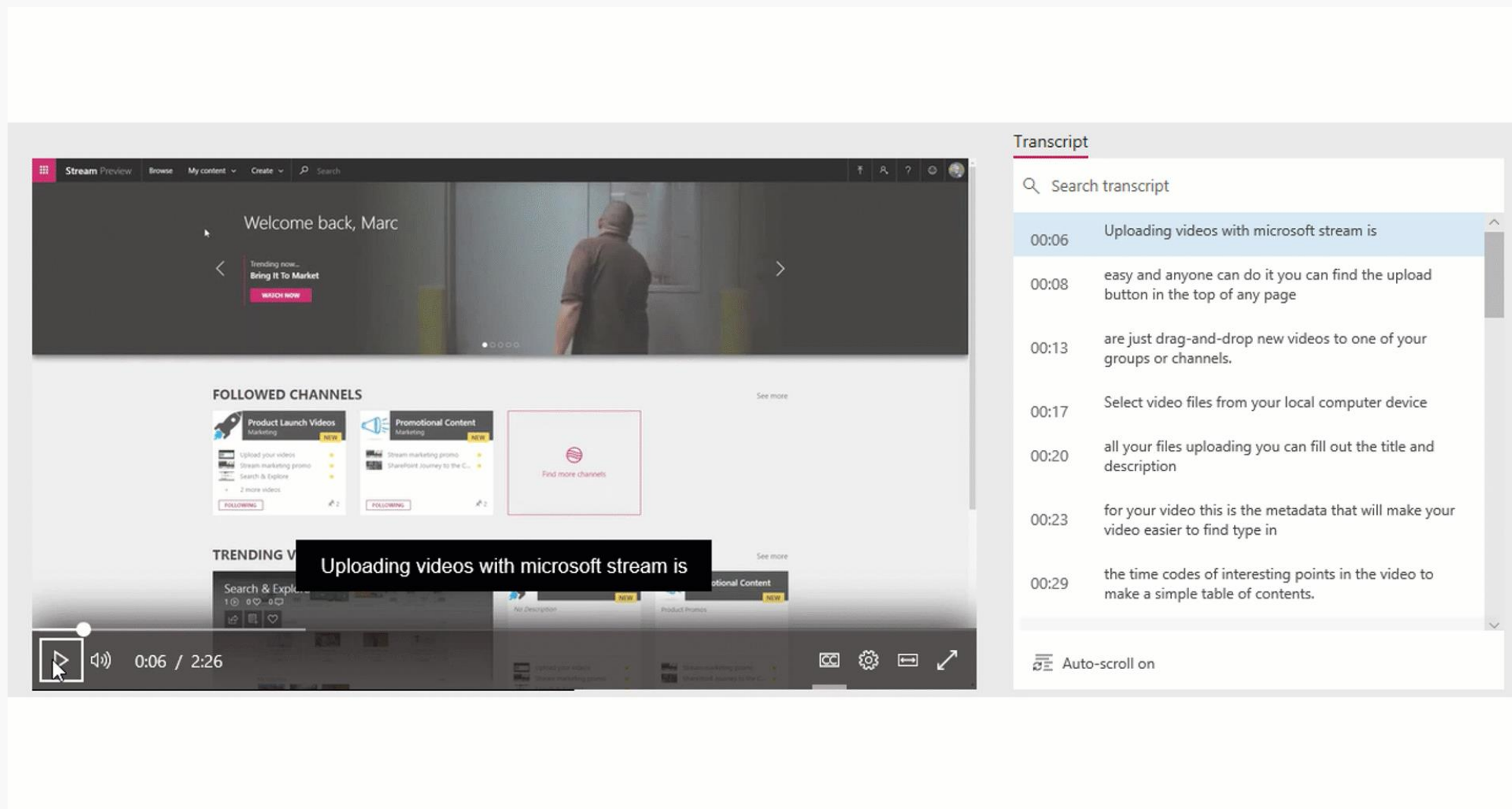
High Contrast



Closed Captions



Stream



The screenshot displays the Microsoft Stream web application. At the top, a navigation bar includes 'Stream', 'Preview', 'Browse', 'My content', 'Create', and a search icon. Below this, a large video player shows a man in a brown shirt standing in front of a whiteboard. The player has a 'Welcome back, Marc' message and a 'Trending now... Bring It To Market' video thumbnail. Below the player, there are sections for 'FOLLOWED CHANNELS' and 'TRENDING VIDEOS'. A red box highlights a 'Find more channels' button. A black text box with white text 'Uploading videos with microsoft stream is' is overlaid on the video player. On the right side, a 'Transcript' panel is open, showing a search bar and a list of time-coded text segments. At the bottom of the video player, a control bar shows the video is at 0:06 / 2:26, with icons for play, volume, and other controls.

Stream Preview Browse My content Create Search

Welcome back, Marc

Trending now...
Bring It To Market
WATCH NOW

FOLLOWED CHANNELS

Product Launch Videos
Marketing
NEW
Upload your videos
Stream marketing promo
Search & Explore
2 more videos
FOLLOWING 2

Promotional Content
Marketing
NEW
Stream marketing promo
Sharepoint Journey to the C...
FOLLOWING 2

Find more channels

TRENDING VIDEOS

Uploading videos with microsoft stream is

Transcript

Search transcript

00:06 Uploading videos with microsoft stream is

00:08 easy and anyone can do it you can find the upload button in the top of any page

00:13 are just drag-and-drop new videos to one of your groups or channels.

00:17 Select video files from your local computer device

00:20 all your files uploading you can fill out the title and description

00:23 for your video this is the metadata that will make your video easier to find type in

00:29 the time codes of interesting points in the video to make a simple table of contents.

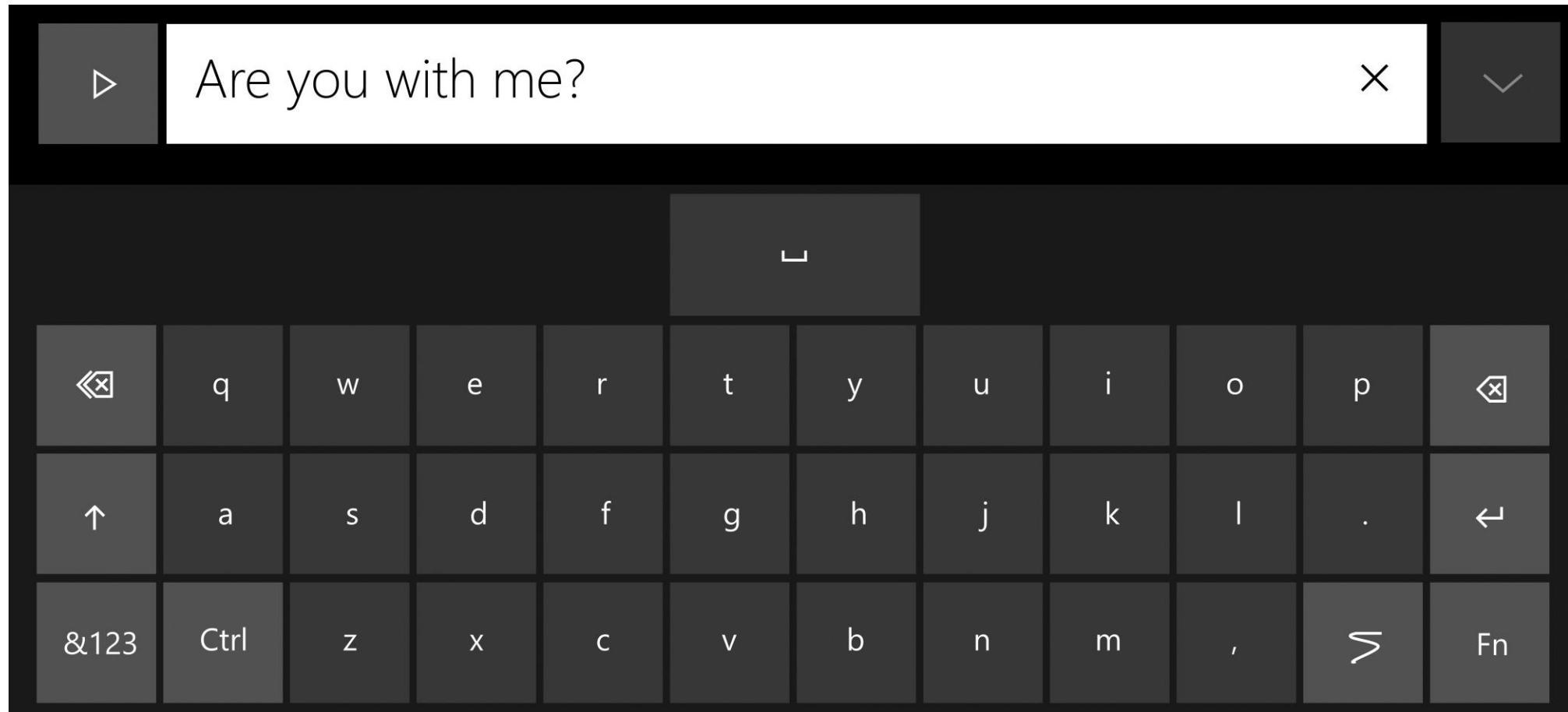
Auto-scroll on

0:06 / 2:26

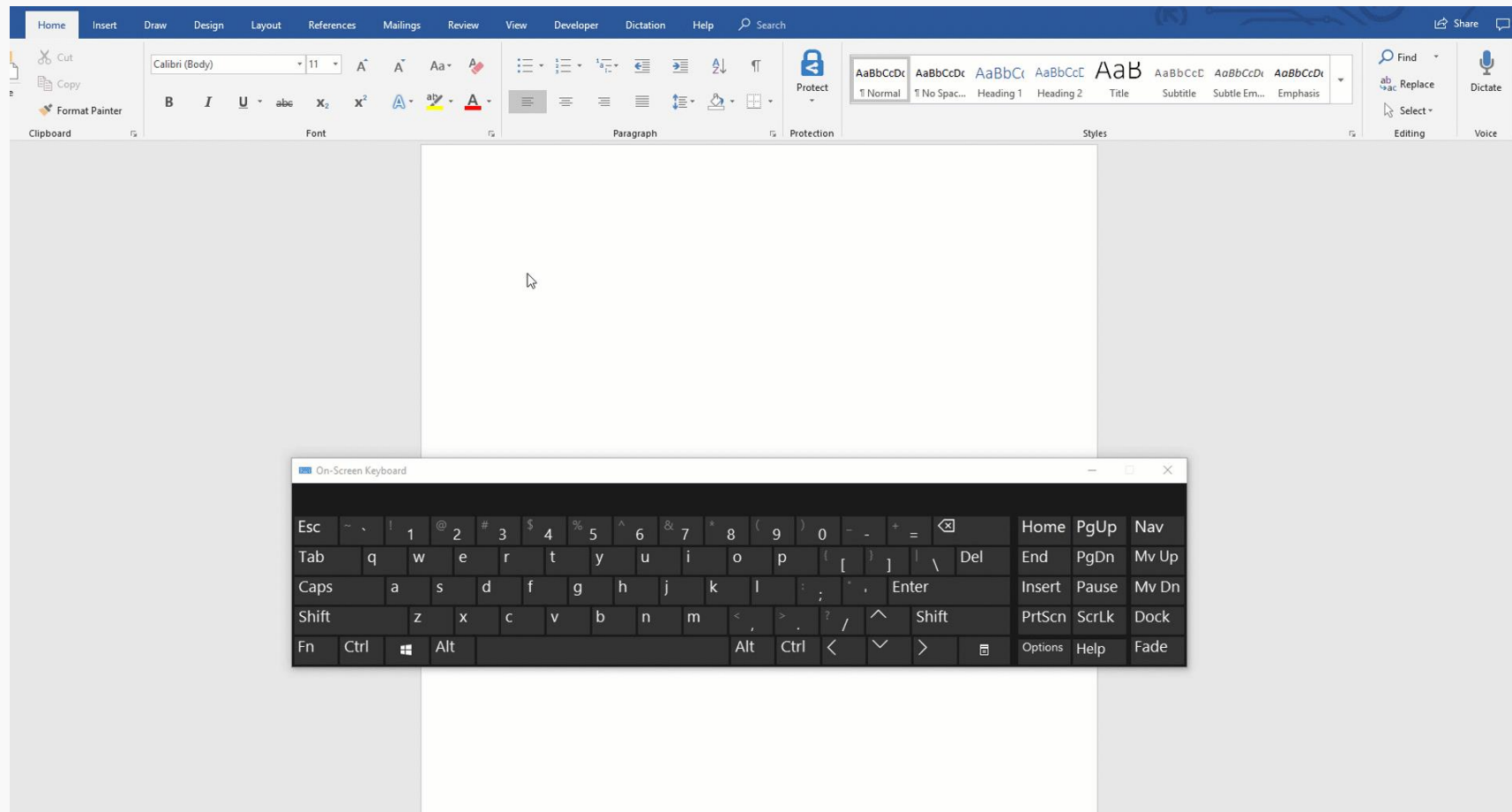
Microsoft Translator



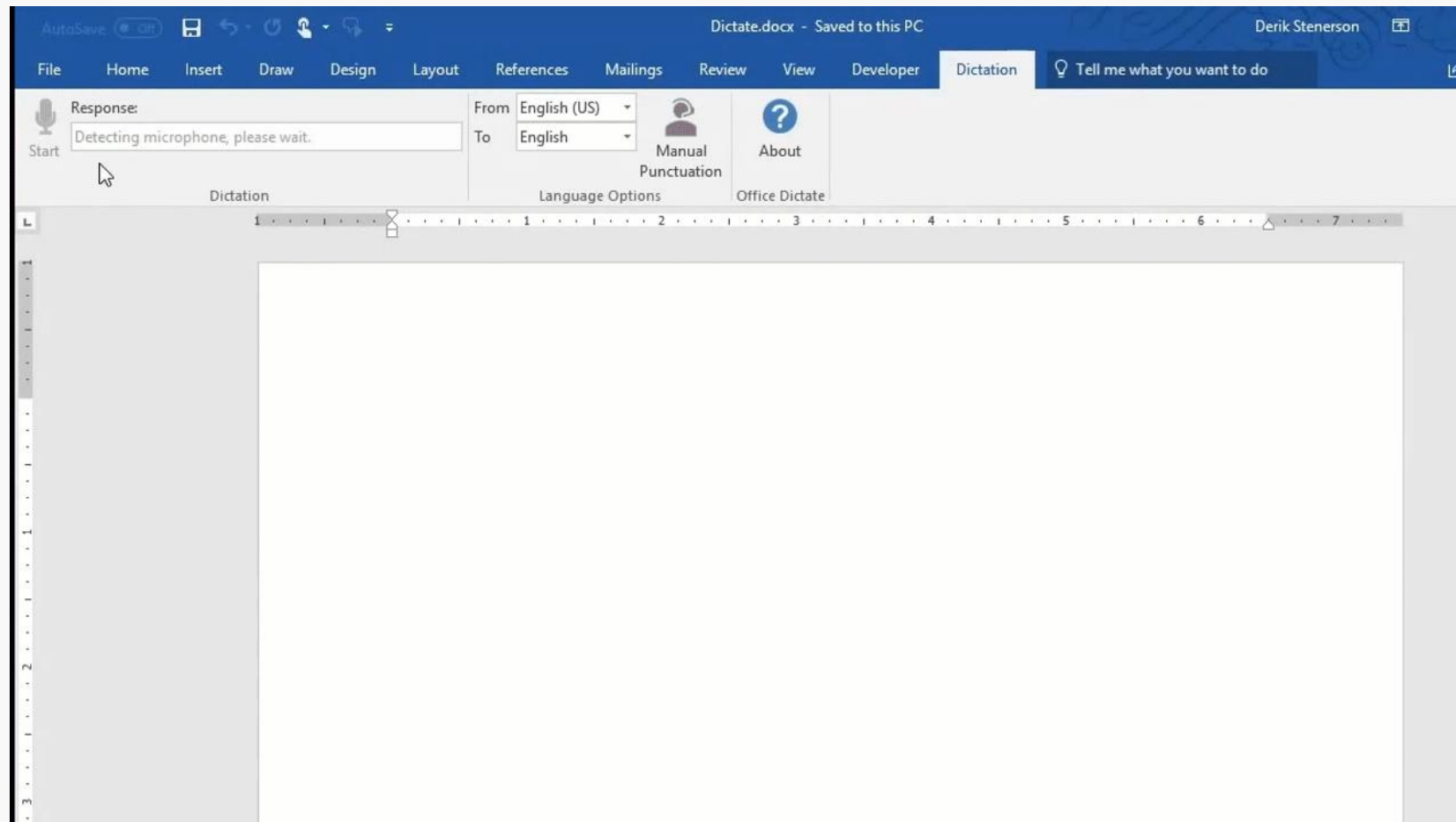
Windows 10 Eye Gaze



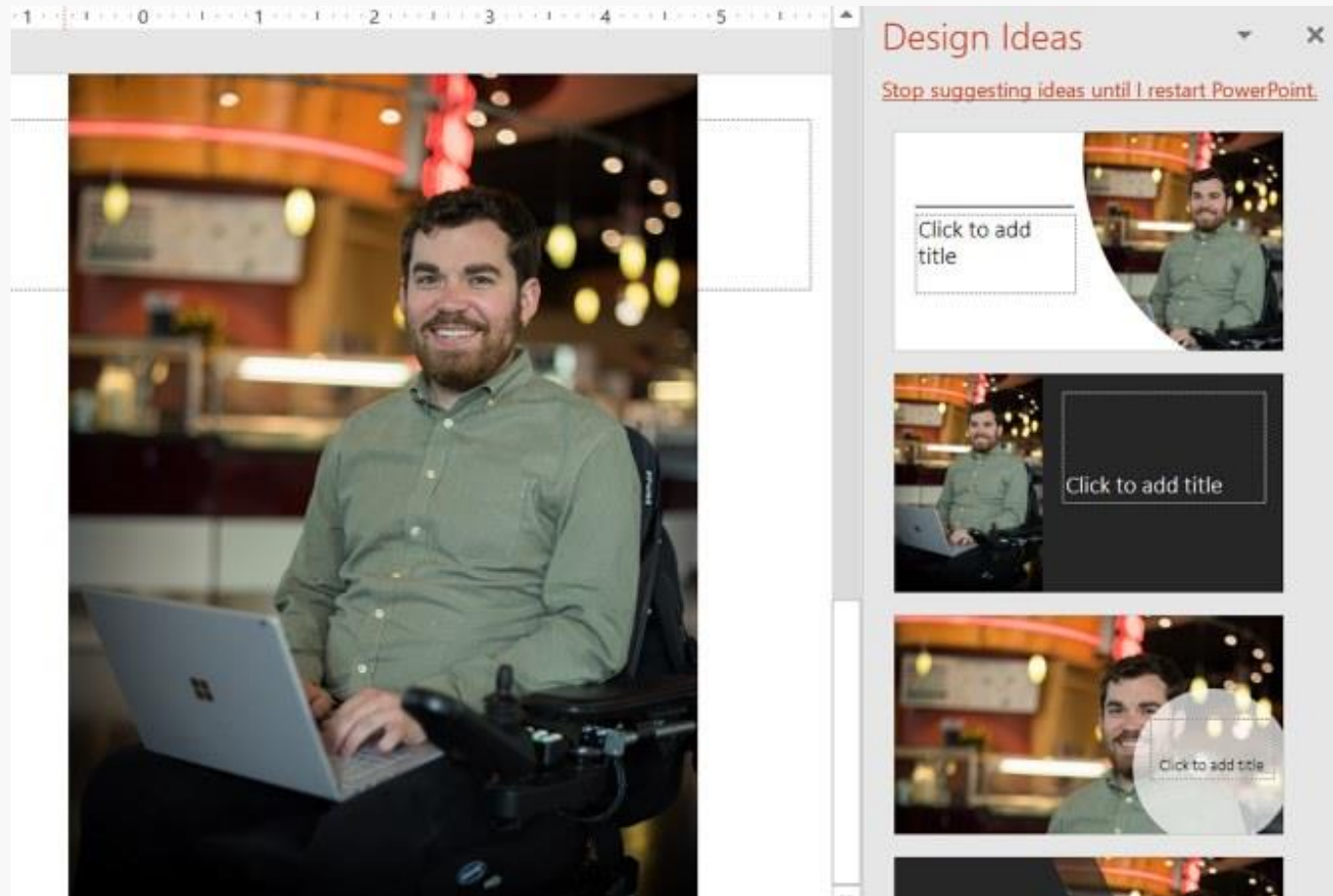
On Screen Keyboard



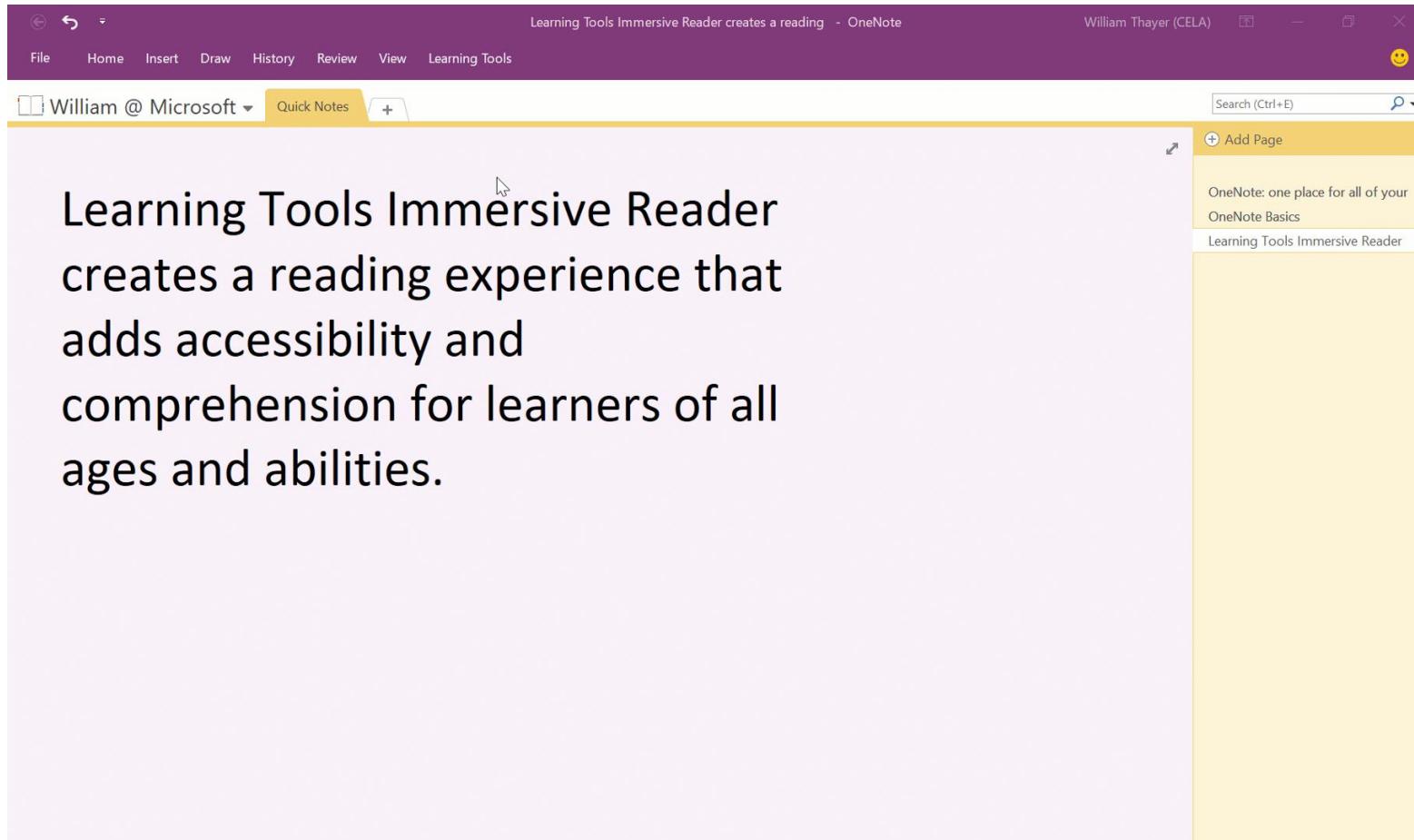
Dictation



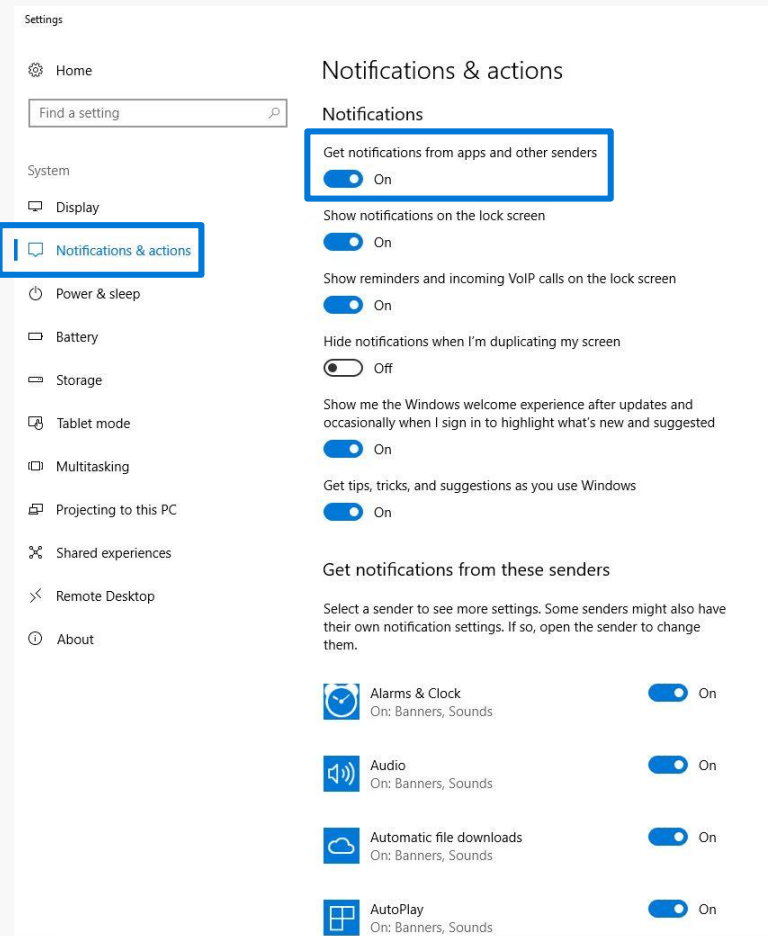
PowerPoint Designer



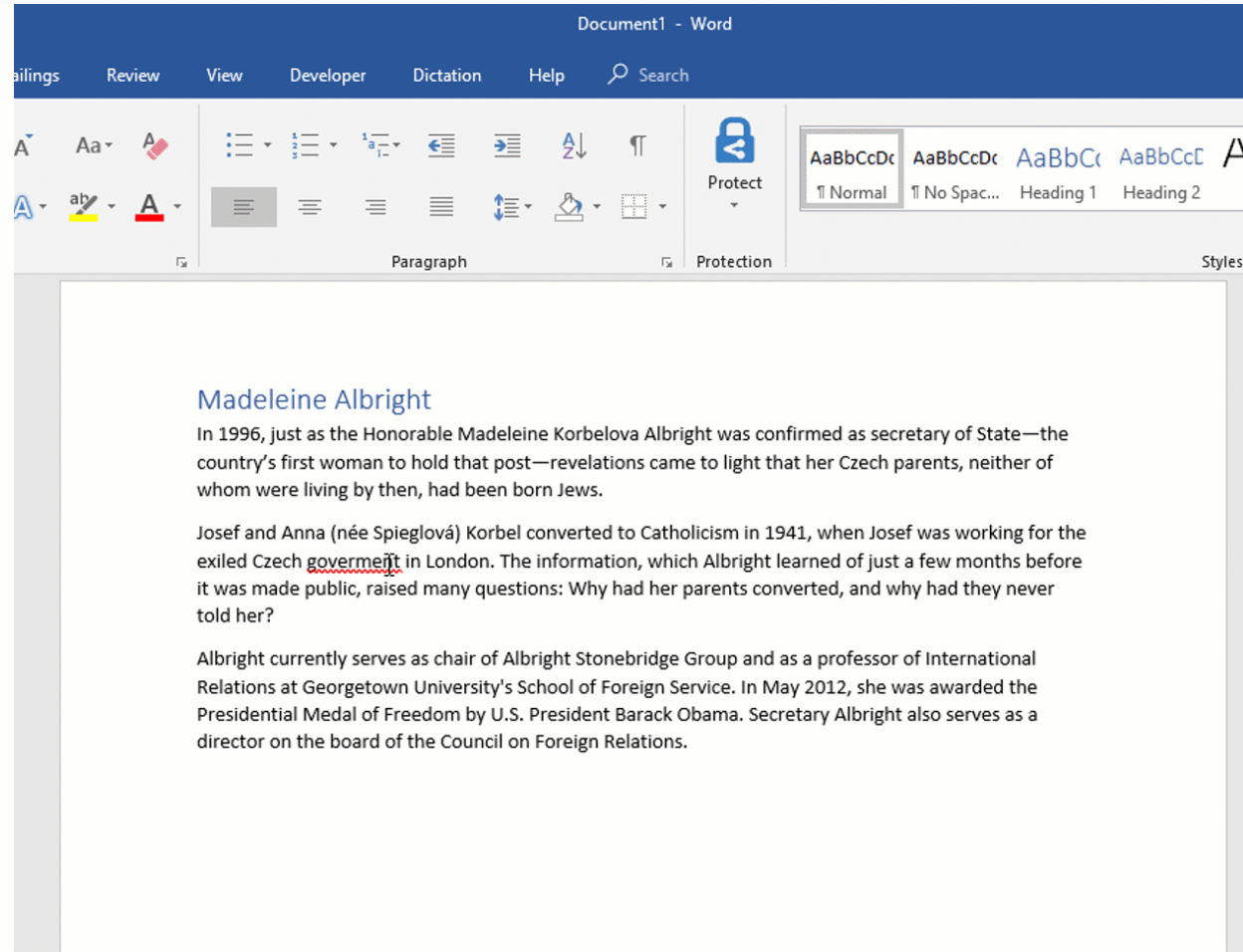
Learning Tools, Read Aloud, and Reading Mode



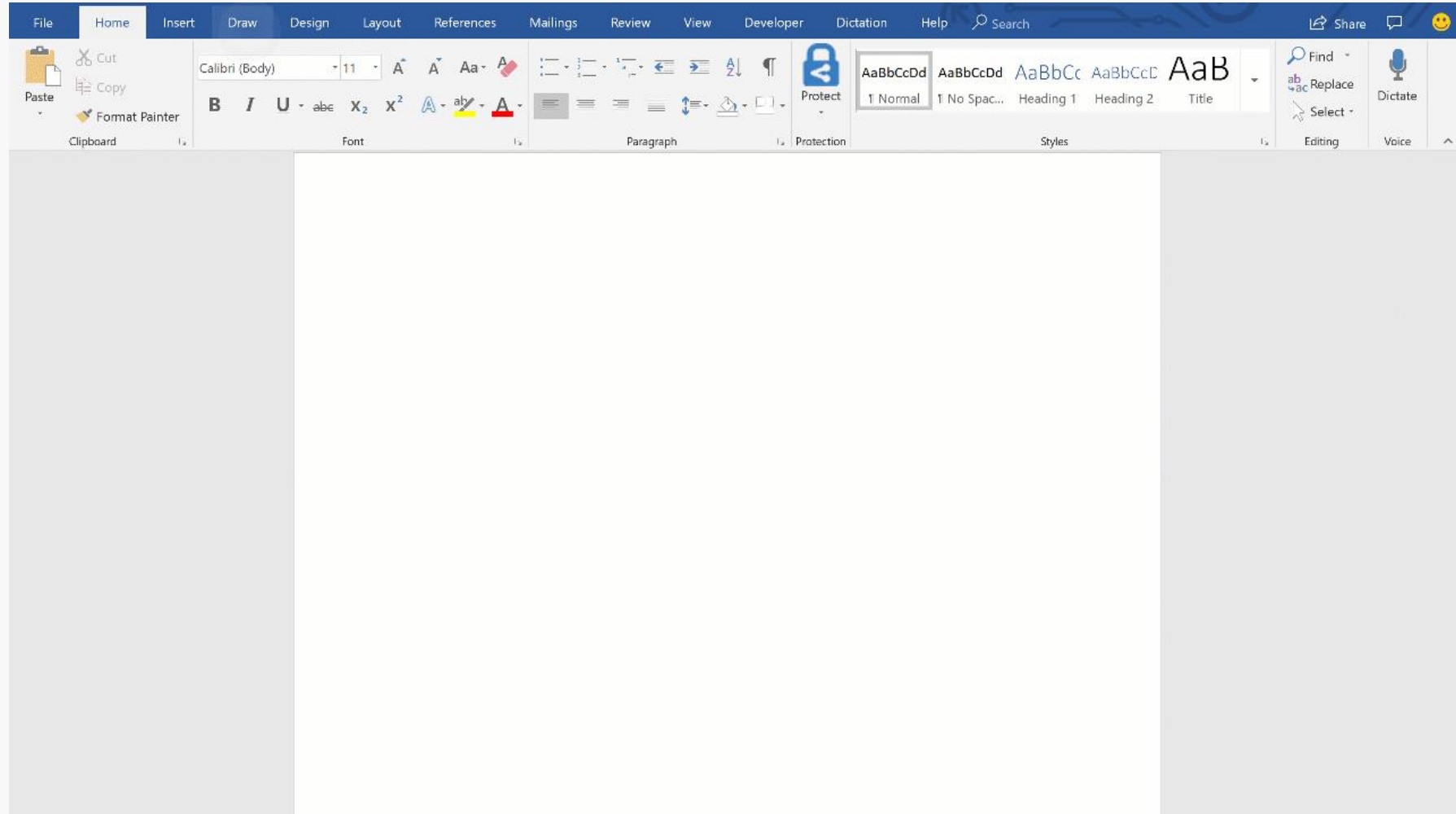
Turn Off Notifications



Editor



Inking





All day



Across devices



For a life time





TD Bank

By using Office 365 and Windows 10, we're making it simple for our employees to create inclusive content for each other and for our customers, opening a new world of opportunity.



Julie Branscombe



Senior Inclusion and Diversity Lead,
TD Bank Group



Let's Connect



@rimatswagner










Add profile section ▼

More...



 Microsoft

Ricardo Wagner 

Microsoft Accessibility Lead - Canada

Oakville, Ontario, Canada · [500+ connections](#) · [Contact info](#)



Microsoft