

Using Universal Design for Learning (UDL) principles to create inclusive learning environments

ReadSpeaker 

D2L



Today's speakers



Dr Sambhavi Chandrashekar

D2L



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ReadSpeaker 



Richard Risholm

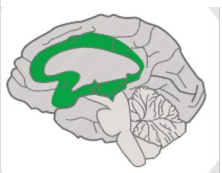
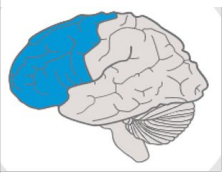
ReadSpeaker 



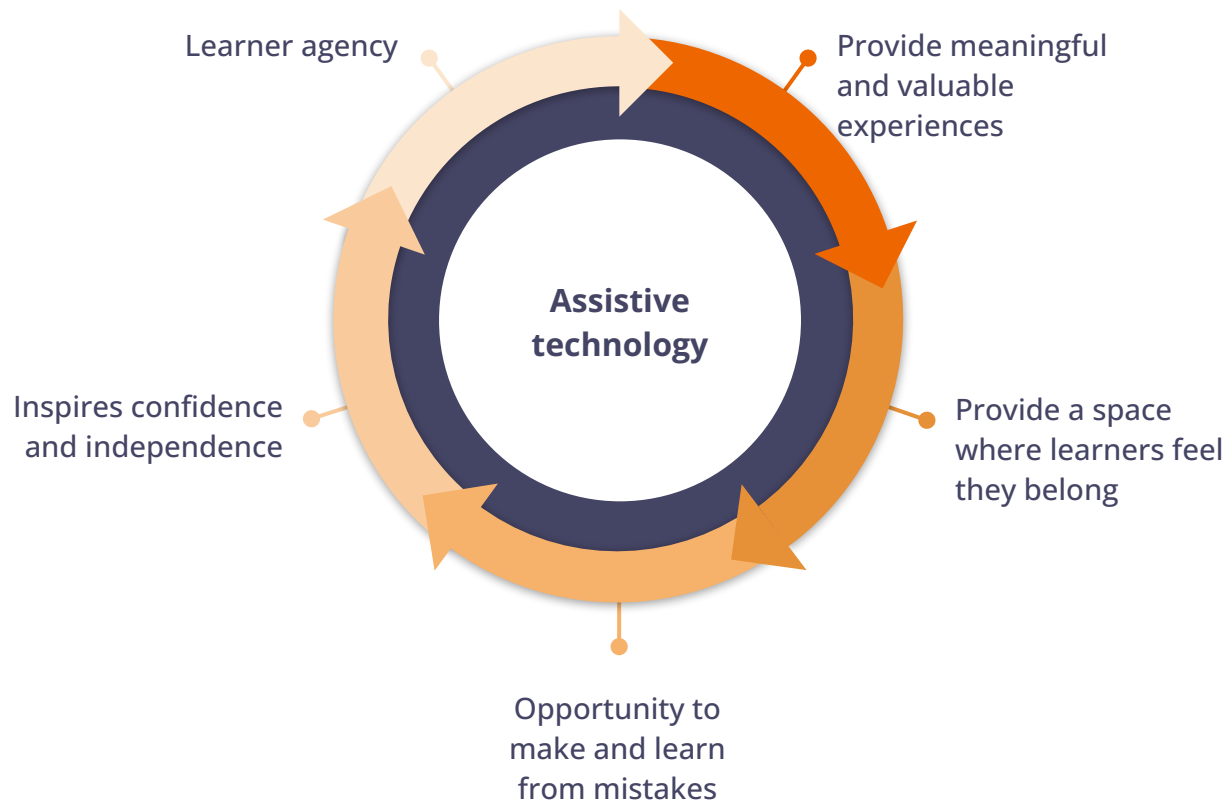
What is UDL?

Universal Design for Learning (UDL) principles: An overview

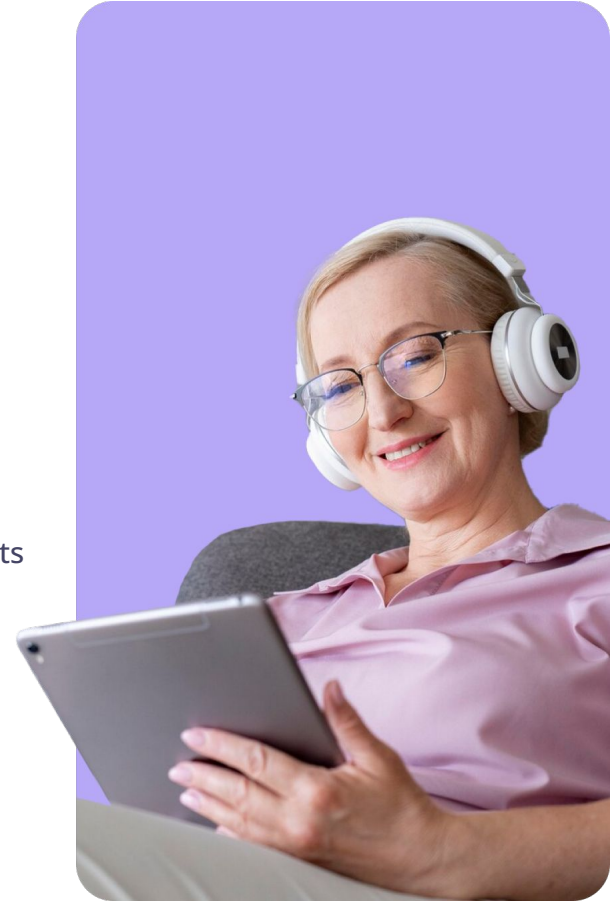
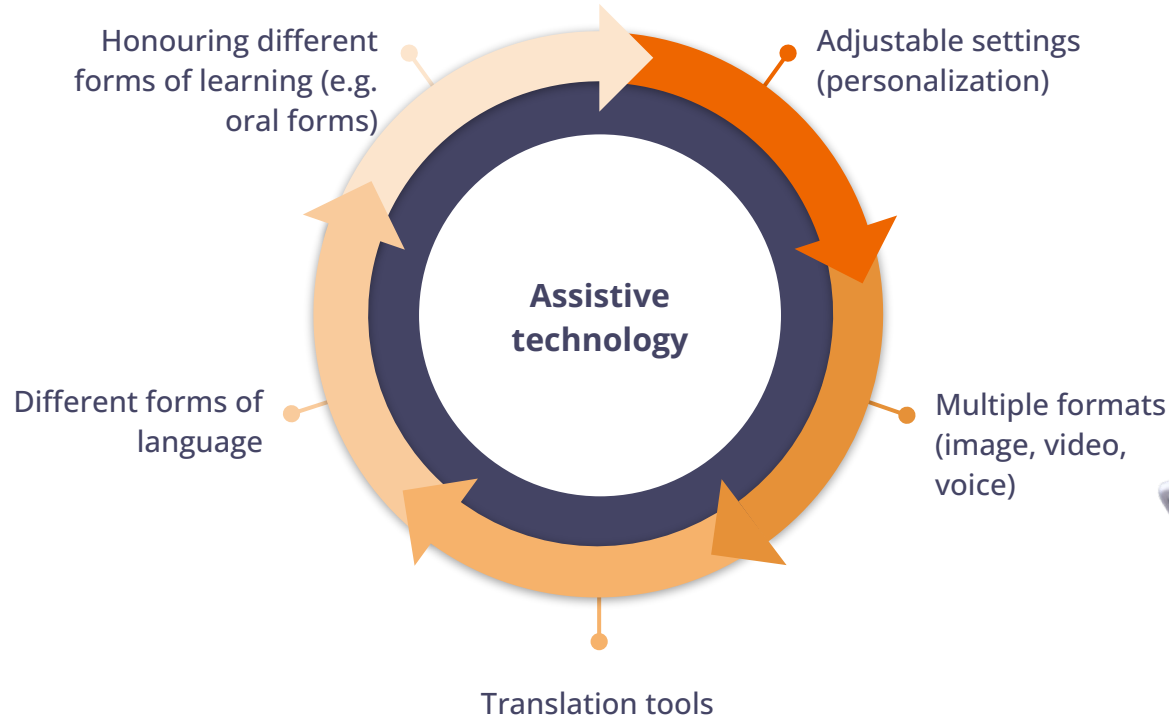


 A lateral view of a human brain with the limbic system highlighted in green, representing affective networks.	Affective Networks: The “ why ” of learning	Multiple Means of Engagement: Different ways to encourage excitement and interest in the topic / learning. (e.g., hooks, choices, teamwork)
 A lateral view of a human brain with the occipital and temporal lobes highlighted in purple, representing recognition networks.	Recognition Networks: The “ what ” of learning	Multiple Means of Representation: Present information in different formats (e.g., text, images, audio)
 A lateral view of a human brain with the frontal and parietal lobes highlighted in blue, representing strategic networks.	Strategic Networks: The “ how ” of learning	Multiple Means of Action and Expression: Demonstrate learning in different ways (e.g., writing, speaking, podcasts, videos, drawing).

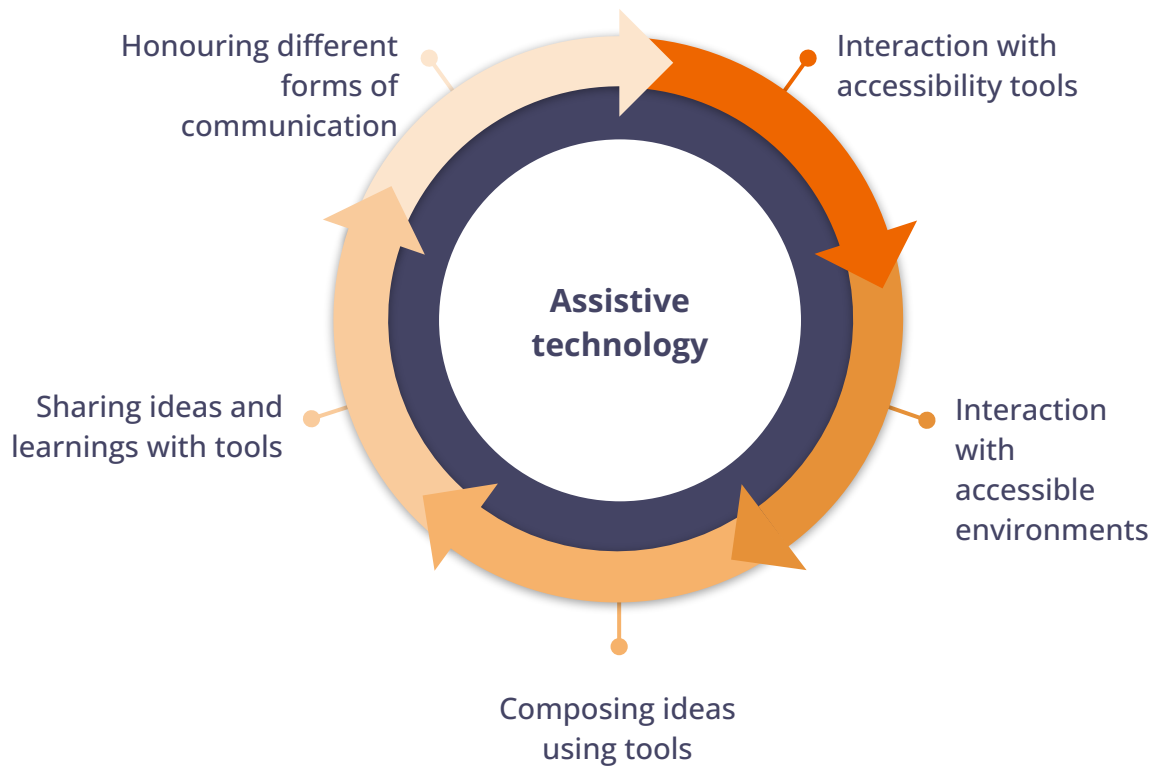
Engagement



Representation



Action and Expression



UDL in action

Success stories of UDL implementation

- [Case studies of UDL in action](#)
- [Sheboygan Falls school district in Wisconsin](#)
- [Goodwin College](#)
- [Stories from individuals](#)
- [CAST webinars](#)

Get a [**Digital Badge for UDL**](#) from UCD

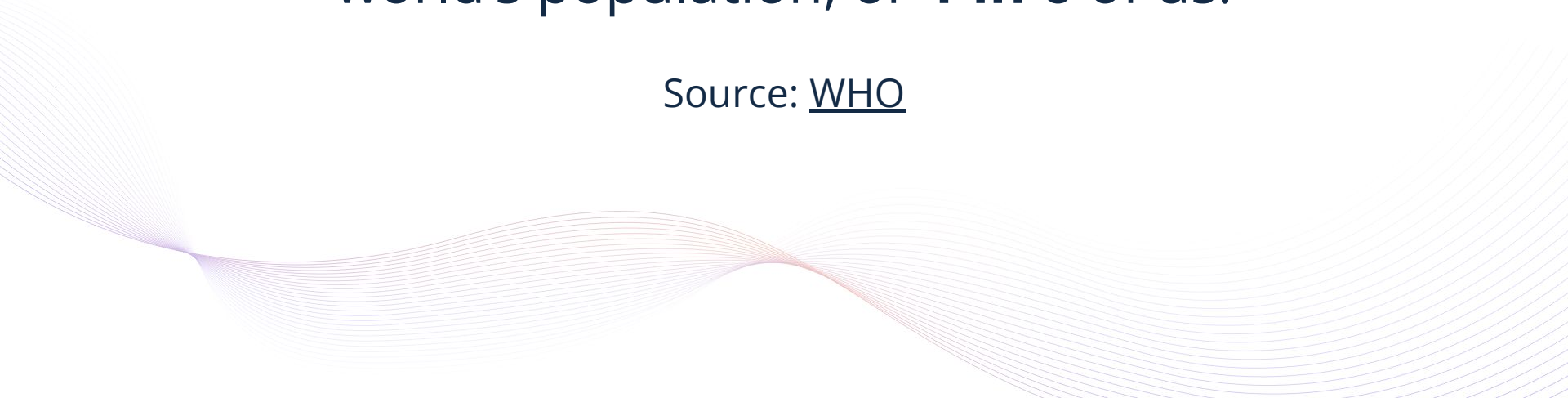
A decorative graphic at the bottom of the slide consisting of numerous thin, overlapping, wavy lines in shades of purple and blue, creating a sense of motion and depth.



Why UDL?

An estimated **1.3 billion** people experience significant disability. This represents **16%** of the world's population, or **1 in 6** of us.

Source: WHO

A decorative graphic at the bottom of the slide consisting of multiple thin, wavy lines in shades of purple and blue, creating a sense of movement and depth.

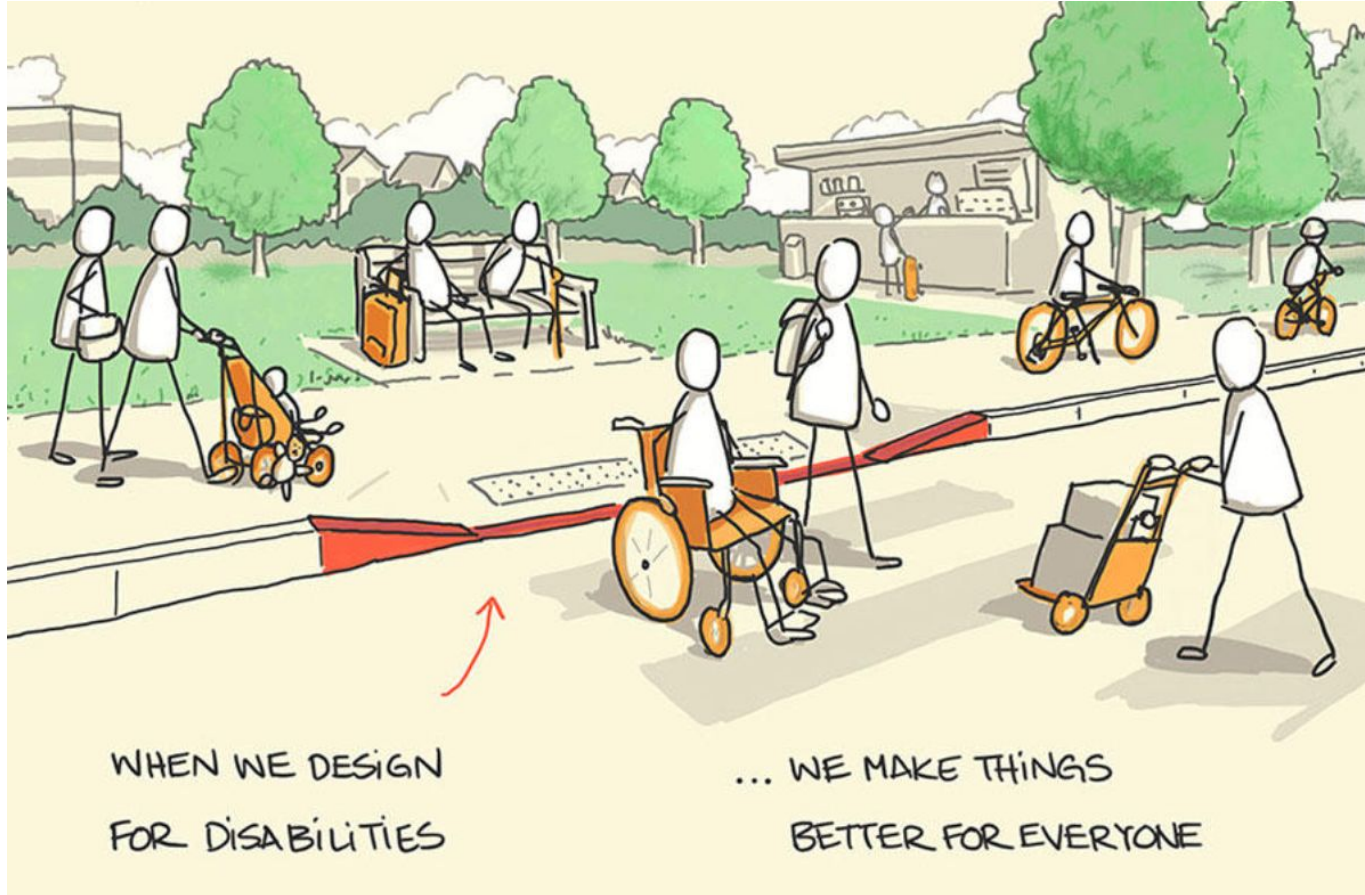
Larger impact of UDL



Moving from 'disability services' to 'access for all'



Curb cut effect



A survey of university students found at least 18% of students without a disability considered accessibility technologies like TTS technology “necessary.”

Source: [Educause](#)

“After a long day reading gets more demanding, it can be nice to have a tool that reads the text aloud for you. So it’s not only for students who have trouble reading; it’s also for all students who prefer to listen to text instead of reading.”

University of
Applied Sciences

Windesheim



**Text to Speech is an essential element of
Assistive Technology, creating an audio
version of content, supporting ALL learners**

The bottom of the slide features a decorative graphic consisting of multiple thin, overlapping wavy lines. These lines create a sense of motion and depth, with colors ranging from light purple on the left to a soft pinkish-red in the center, and then back to a light blue/purple on the right. The lines are most concentrated in the lower half of the image, creating a flowing, wave-like effect that spans the width of the slide.

Who benefits from ReadSpeaker Text-To-Speech?



Accessibility

Neurodiverse learners
Dyslexia
Learning disability
Foreign born
Multilingual learners
Cognitive load



Engagement

Bimodal presentation
Comprehension
Inclusion
Online learning
Learning choice



Convenience

Student workload
Teacher workload
All devices
Exam mode
All content types

**Leveraging technology creates a superior
user experience for ALL users**

ReadSpeaker can be used by ALL learners



ReadSpeaker

- Listen with one click
- 200 + voices, 50 + languages
- Speech-enhanced learning tools
- Assessment and accommodations support
- Access to usage statistics
- WCAG, GDPR compliant
- Easy integration
- Experienced support team

Listen Button and Player

Listen to content, read along with the highlighted text, adjust the reading speed and volume, and more

Options for Selected Text

Listen to or translate selected text or look up words



Settings

Personalize highlighting colors, keyboard shortcuts, and more

Click and Listen

Click on text to have it read aloud

Form Reading

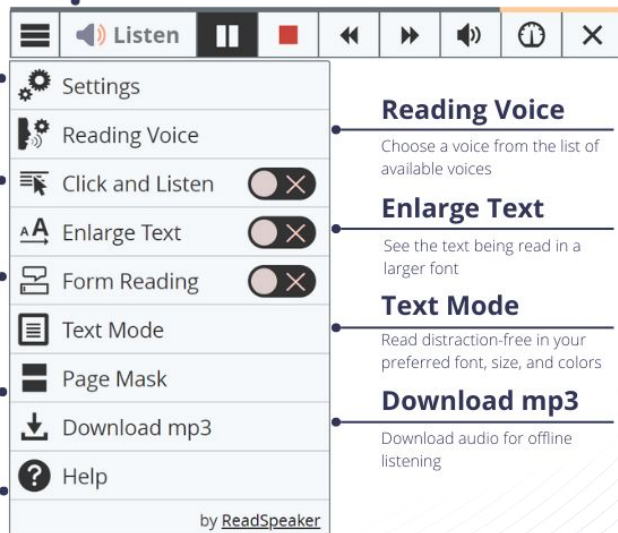
Online forms read aloud, including text you enter and options you choose.

Page Mask

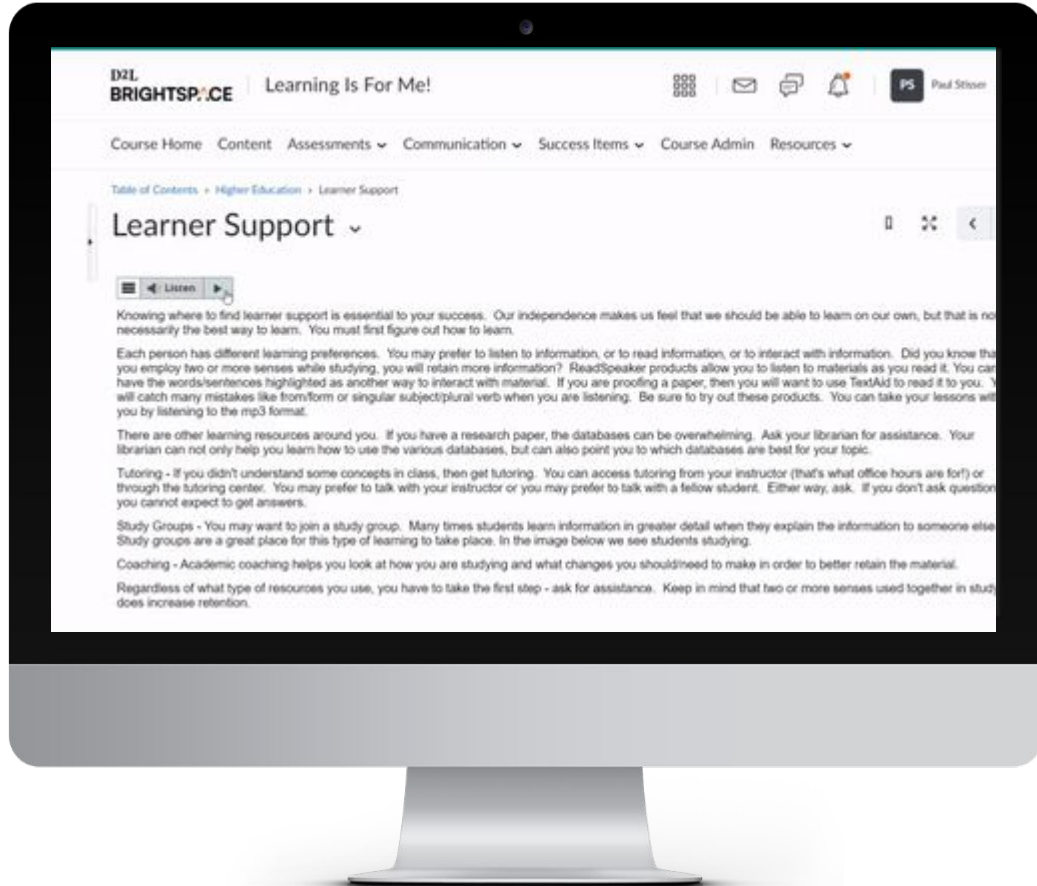
Read along as you listen with a moveable focus bar

Help

Easy-to-understand instructions for all features



D2L BRIGHTSPACE



- Accessibility bundle
- Seamless integration of accessibility features
- Engaging and personalized learning experiences

Q&A

Contact us for more
information or to
set up a demo

