

OKLIS Virtual Session

Preparing for the ADA Compliance Deadline

Retrofitting Basics with UDL in Mind

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Objectives



Introduce
Universal
Design for
Learning
(UDL)

Demonstrate
how AI tools
can help
faculty retrofit
courses for

Provide
actionable
steps for
faculty new to
AI and digital

Why Accessibility Matters



Compliance

ADA digital regulations require accessible digital content.



Inclusivity

Accessibility supports ALL learners, including those with disabilities.



Impact

Improved learning outcomes and engagement for diverse student populations.

Challenges in Retrofitting

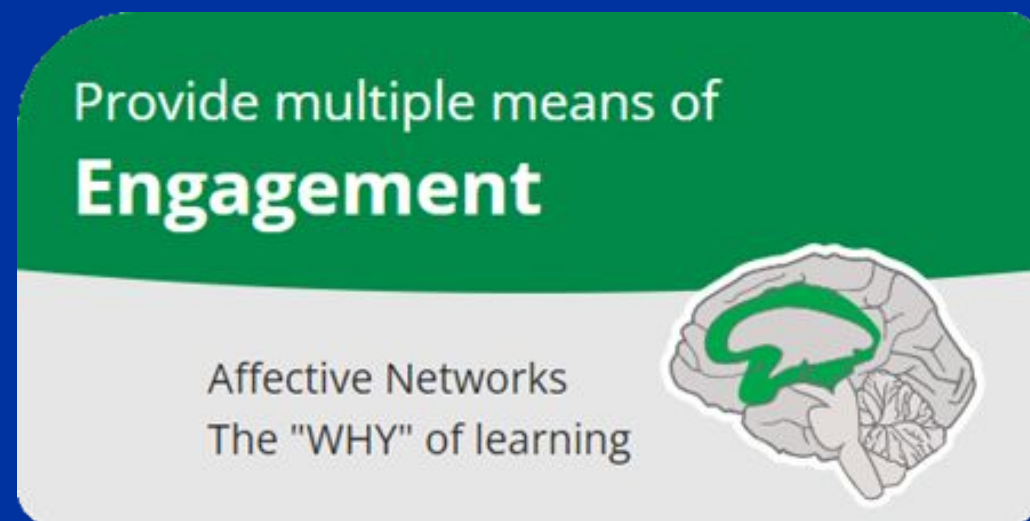


Time constraints for faculty.

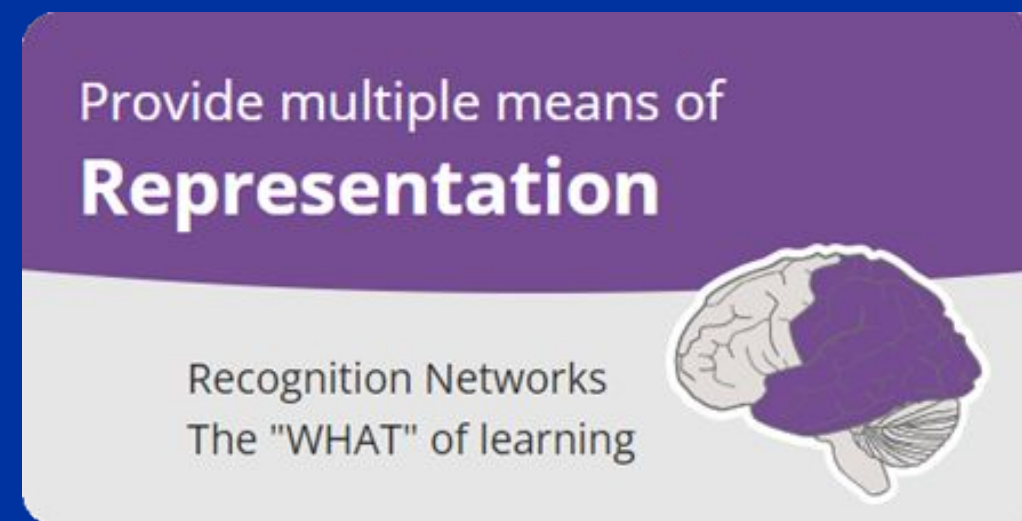
Lack of familiarity with accessibility tools.

Identifying and addressing barriers in existing course materials.

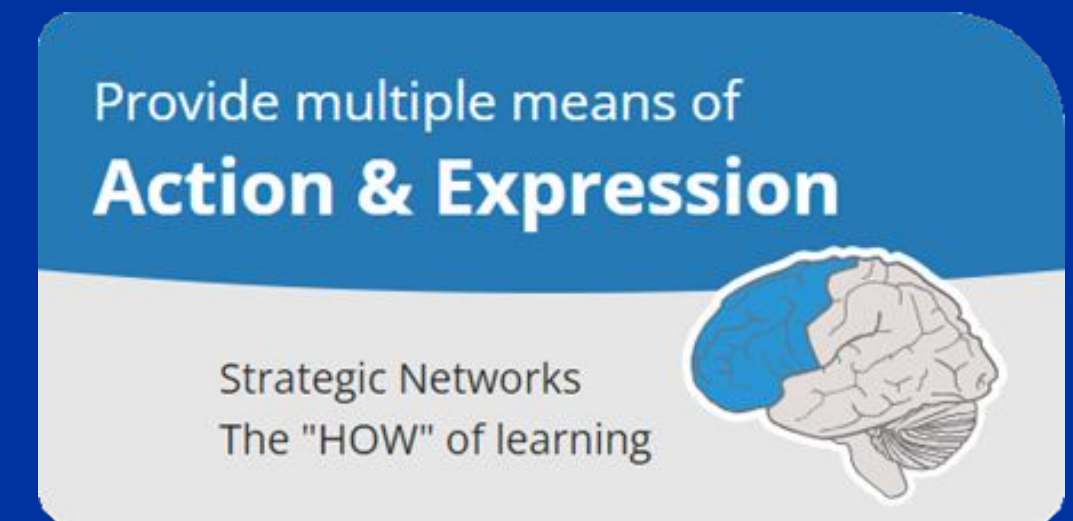
Introduction to UDL Principles



Engagement:
Multiple ways to
motivate and
involve students.

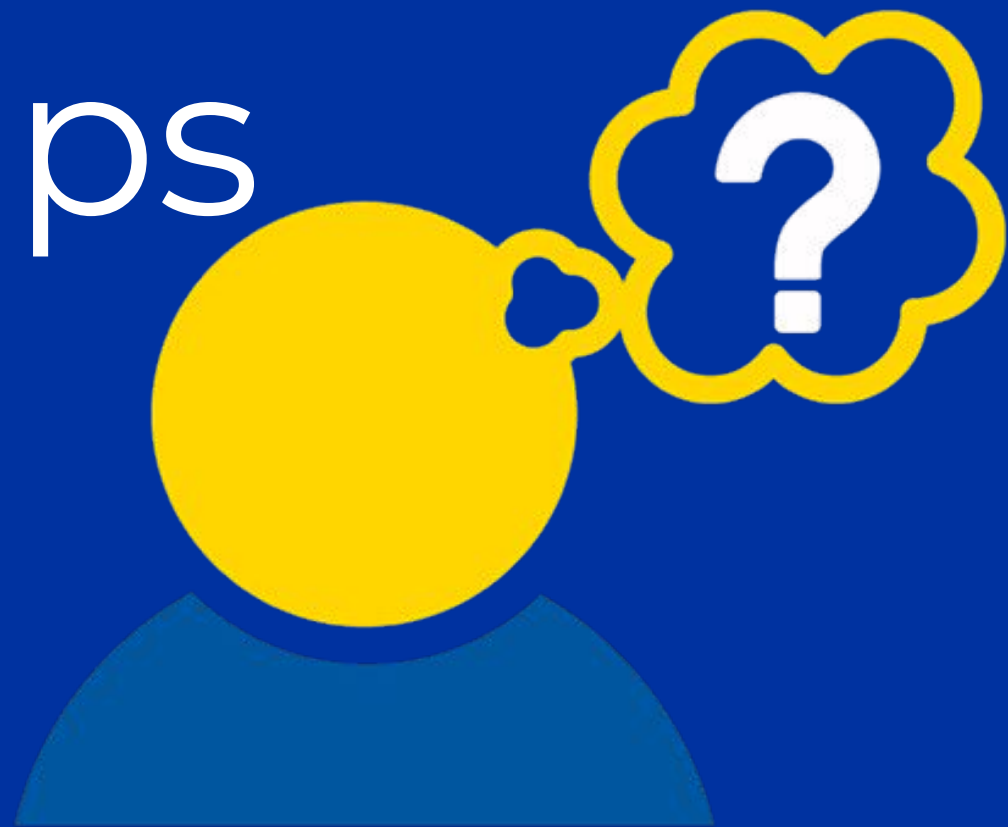


Representation:
Present information
in diverse formats.



Action & Expression:
Allow students to
demonstrate
learning in varied
ways

UDL: Easy Start Tips



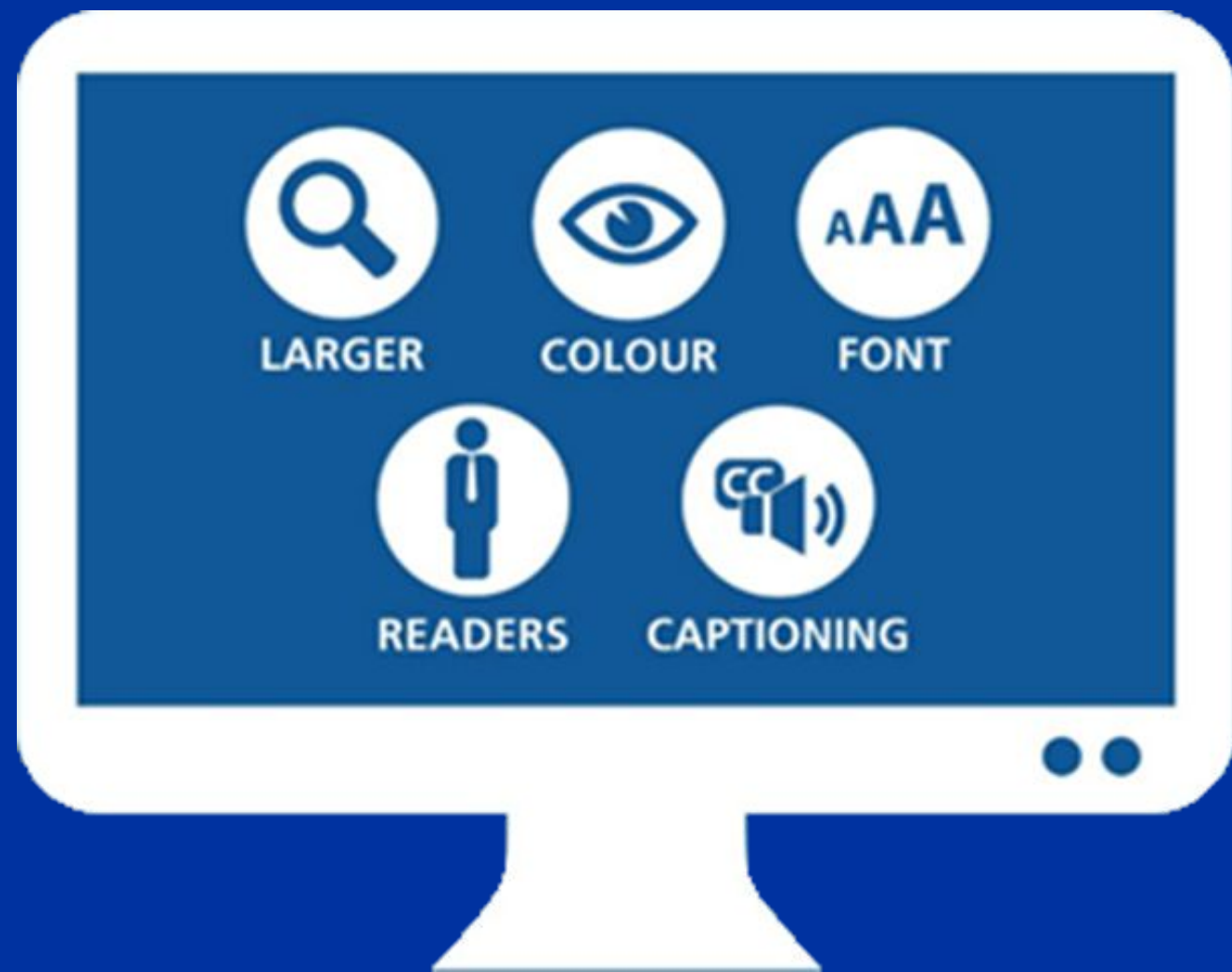
Instructor: Add a video introduction to your course

Student: Option to add video response to Discussion posts.

Content: Create accessible materials: by adding captions and transcripts to videos, or audio book options.

Web Content Accessibility Guidelines (WCAG)

Organized under four principles:



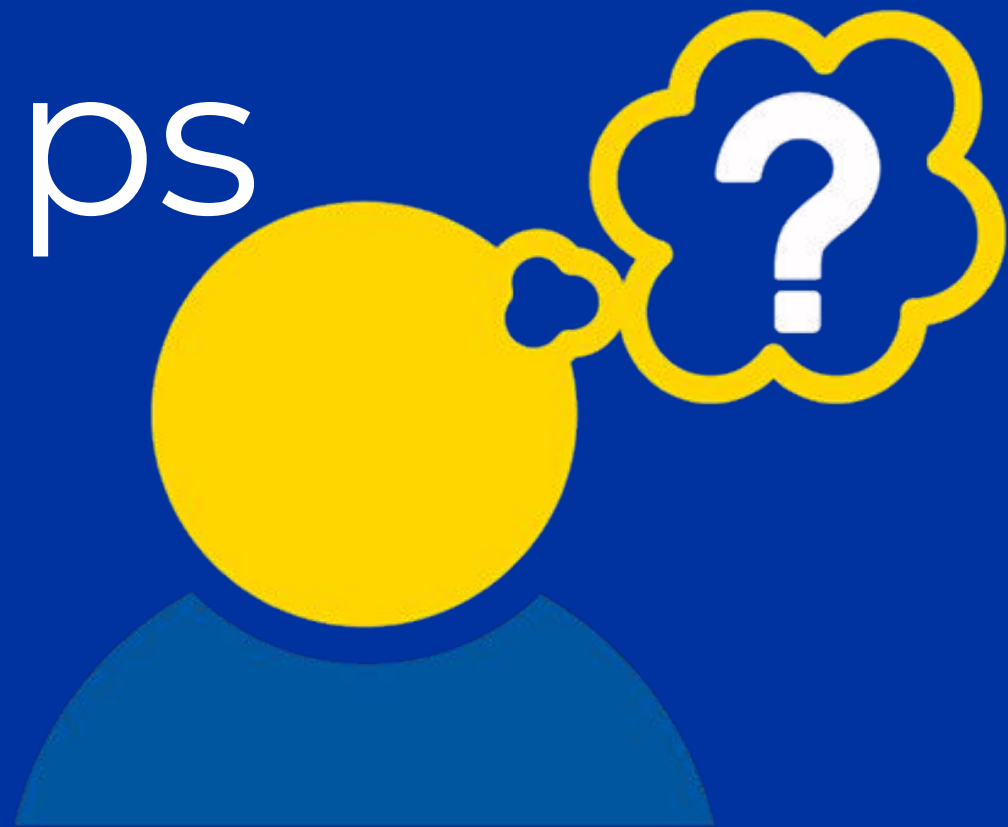
Percievable

Understandable

Operable

Robust

WCAG: Easy Start Tips



Avoid using color to convey meaning

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Provide additional alternatives for images and media. Add Alt text, and captions or transcripts.

Role of AI in Retrofitting

Why AI?

Speeds up accessibility audits

Simplifies retrofitting tasks



AI Tools

Accessibility checkers: Blackboard Ally, Yuja Panorama, MS Word Accessibility Checker

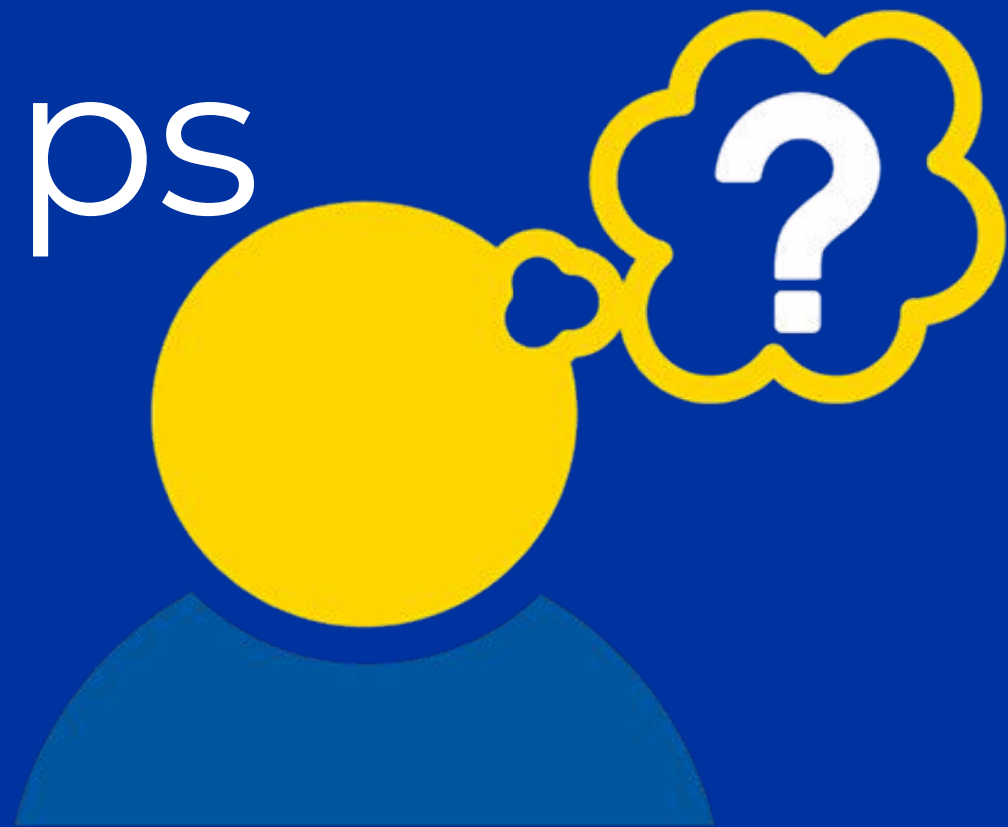
Captioning: Otter.ai, YouTube Studio

Screen-reader optimization: ReadSpeaker

AI:

Easy Start

Tips



Create quizzes for your class
or for an individual student

Create closed captions for a
video

Create a rubric or a study
guide for your students

Practical AI Applications

Content Accessibility

Detect contrast issues, missing alt text, and improper headings.



Video/Audio

Automatically generate captions and transcripts.



Course Navigation

Ensure screen-reader compatibility.



Personalized Learning

Adaptive quizzes based on student needs.



Retrofitting Workflow

Audit

Use AI tools
to identify
accessibility
gaps

Prioritize

Address
critical
barriers
first

Revise

Apply UDL
principles
to redesign
materials

Test

Validate with
accessibility
checkers and
student
feedback

Repeat

Accessibility
is an
ongoing
process

Benefits of Retrofitting



Compliance:

Meet regulatory requirements



Student

Success:

Improved
engagement and
outcomes



Inclusivity:

A course that
works for
everyone

Resources

- UDL Guidelines (CAST): <https://udlguidelines.cast.org/>
- WCAG: <https://www.w3.org/WAI/standards-guidelines/wcag/>
- WAVE: <https://wave.webaim.org/>
- ANDI: <https://www.ssa.gov/accessibility/andi/help/install.html>
- OTTER AI: <https://otter.ai/>
- YOUTUBE STUDIO: <https://studio.youtube.com/>
- PERPLEXITY: <https://www.perplexity.ai/>
- MAGIC SCHOOL: <https://www.magicschool.ai/>
- Yuja Panorama: <https://www.yuja.com/panorama/>

Q&A

Thank you!

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