# Todd Rose's video file

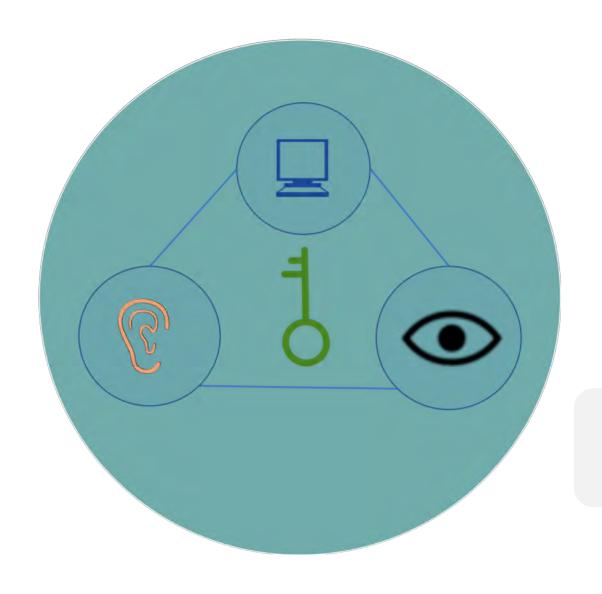


Limited Hearing, Limited Vision: Help Students Succeed in Your Class

A partnership of the Office of the Provost and the College of Liberal Arts and Social Sciences

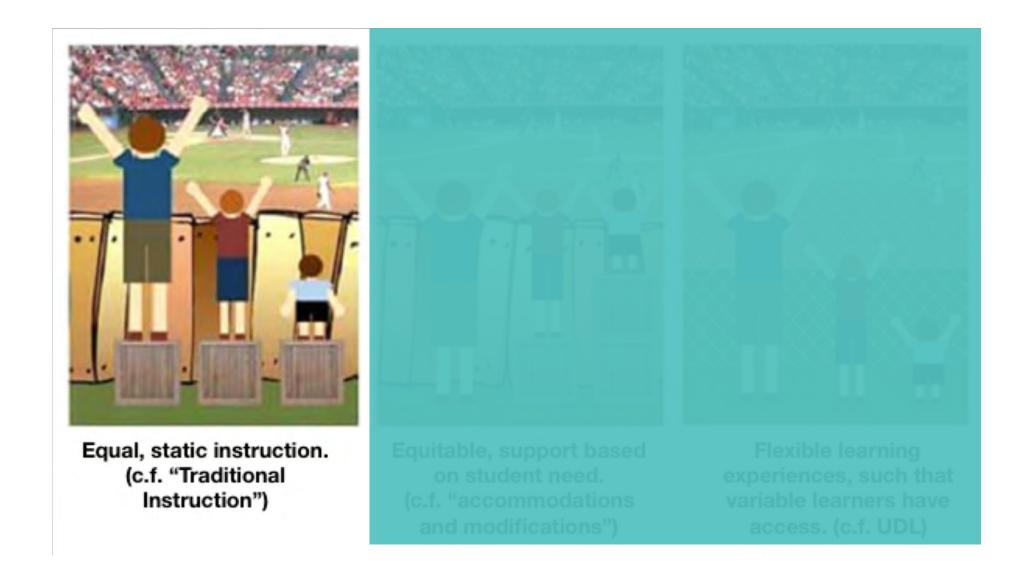


UNIVERSITY of HOUSTON | CLASS
Office of Educational Technology



Limited Hearing, Limited Vision: Help Students Succeed in Your Class







Equal, static instruction. (c.f. "Traditional Instruction")



equitable, support based on student need. (c.f. "accommodations and modifications")

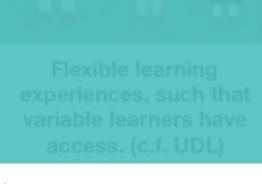


Image resource: <a href="http://jewishspecialneeds.blogspot.com/2013/07/fair-isnt-equal.html">http://jewishspecialneeds.blogspot.com/2013/07/fair-isnt-equal.html</a>



Equal, static instruction. (c.f. "Traditional Instruction")



equitable, support based on student need. (c.f. "accommodations and modifications")



Flexible learning experiences, such that variable learners have access. (c.f. UDL)

Image resource: http://jewishspecialneeds.blogspot.com/2013/07/fair-isnt-equal.html

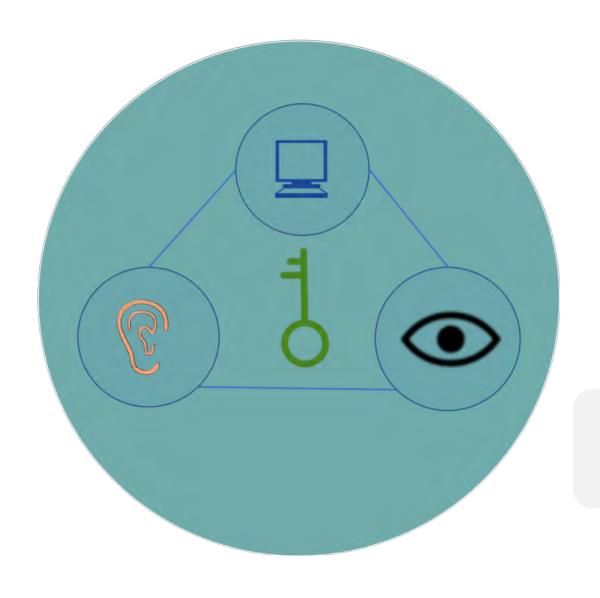
# Warm-up quiz



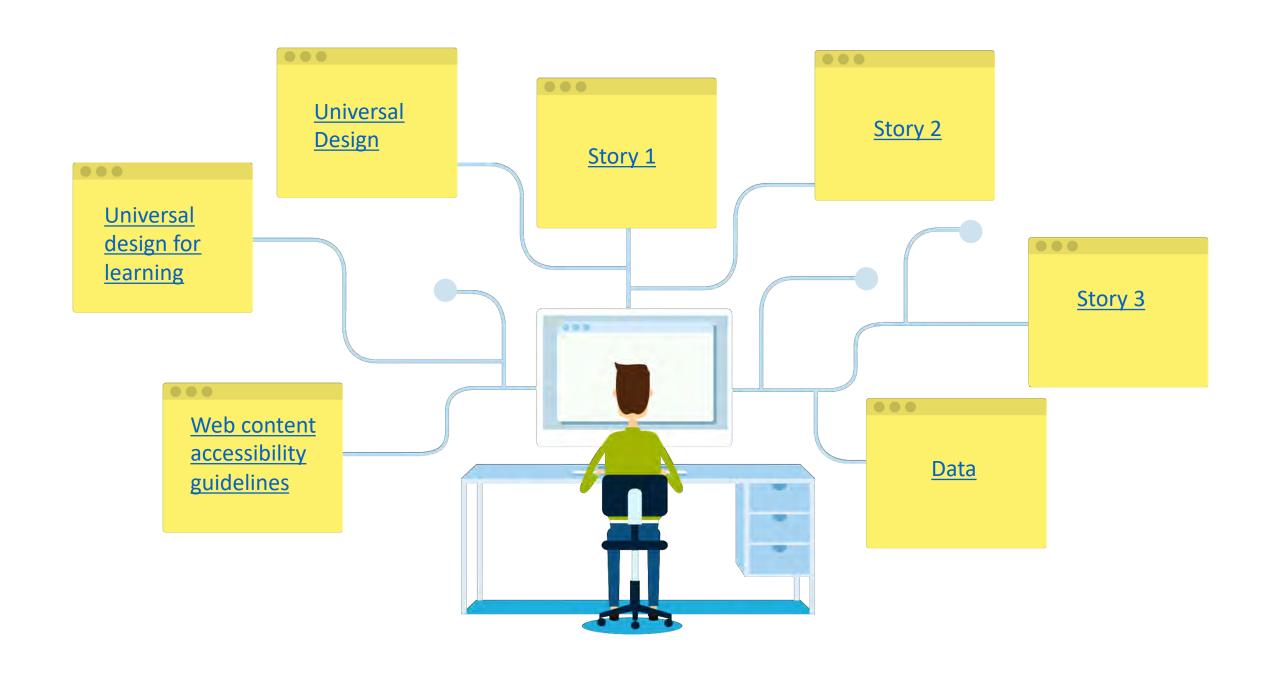
URL: bit.ly/2EXQrMq

### Related Laws

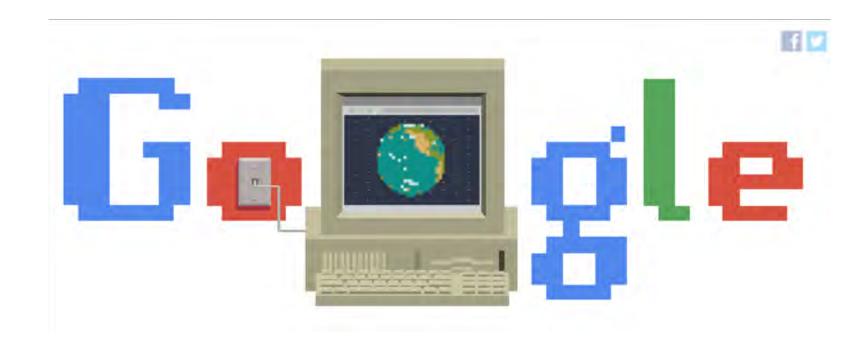
- Title II of the Americans with Disabilities Act
- Section 504 of the Rehabilitation Act
- Section 508 of the Rehabilitation Act



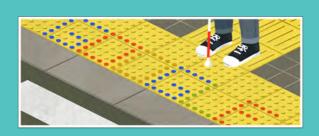
**Conceptual Frameworks** 



# Google Doodle



Seiichi Miyake, a Japanese inventor of tactile blocks







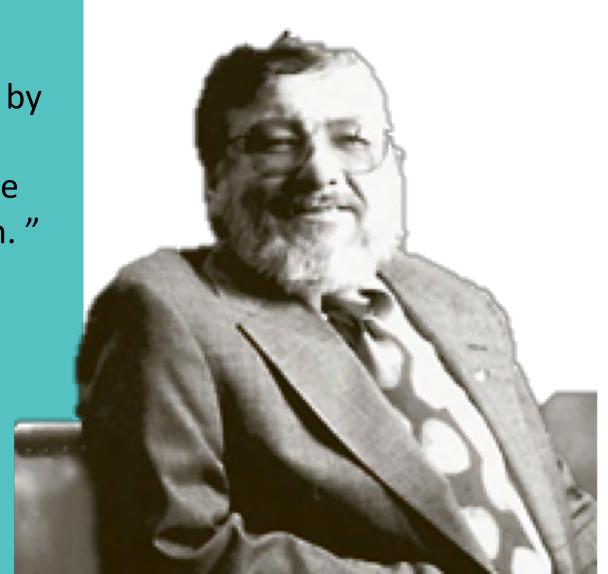
## Dr. Anne-Marie Womack's problem

- Ph.D at Texas A & M
- A professor of practice and director of writing at Tulane University



"Design of products and environments to be usable by all people, to the greatest extent possible, without the need for special adaptation."

- Ronald Mace -



# Curb cuts, Accessible Ramp, and Tactilc Blocks





Curb cuts



Tactile Blocks

Accessible Ramp

# Universal Design for Learning

"UDL is a framework to reduce barriers in the design of the learning environment to make accessible instruction for all."

- David Rose-



## Universal Design for Learning: 3 principles

#### Multiple Engagement

to attract the easily bored or easily distracted learners

#### Multiple Presentation

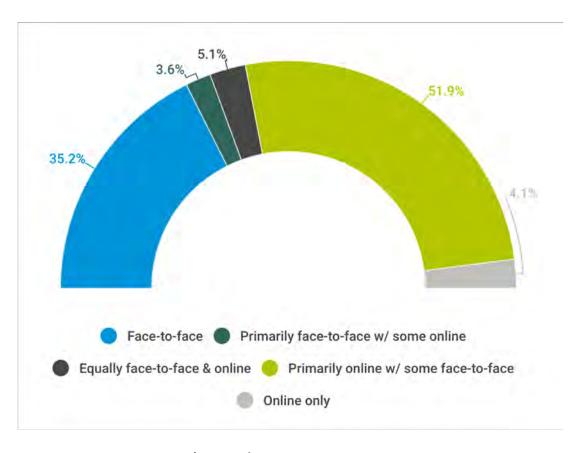
to present
information and
content in different
ways to support
understanding

Show a math concept in both text, storytelling, and graphic modes

# Action & expression

to allow learners to present in different formats

## Modality & Video Use



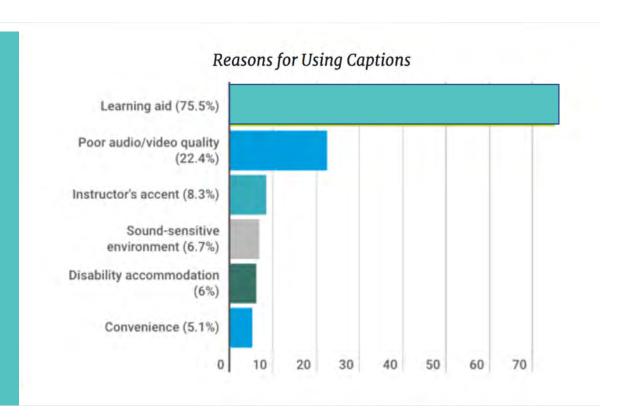
99.7%
have courses that include videos

What **kind** of course modality?

## Why do students use captions?

75% of Students

that use captions said they use captions as a learning aid



First Year Writing Spring 2014 Professor Section 29 ©MWF 9-9:50, Section 30 MWF ©10-10:50, Section 31 ©MWF 12-12:50 🚊 RM 202

#### REQUIRED TEXTS AND TECHNOLOGIES

- Blackboard, check daily for schedule and assignments http://University.blackboard.com
- If you have a smartphone, get the Blackboard App—it makes life so much easier.
- Class Notebook; Bring to Class Daily. We are writing our own textbook, you will not purchase one.
- Class Text System: Text @text2014 to (555) 555-5555; then text back your name when prompted
- Class Facebook Page: https://www.facebook.com/class "Like" page
- Oxford English Dictionary, www.oed.com (Off campus? From library.edu, go to top right corner and click OFF CAMPUS LOGIN. After logging in, you will be brought back to the library homepage and you can use subscription databases.)

#### COURSE DESCRIPTION (FROM ENGLISH DEPARTMENT)

English 101 is designed to help you write clearly and organize complex arguments that engage in a scholarly way with expert knowledge. Toward that end, you will learn to conduct independent bibliographic research and to incorporate that material appropriately into the sort of clear, complex, coherent arguments that characterize academic discourse. Specifically, you'll learn that:

- To write clearly means that you must take a piece of writing through multiple drafts in order to eliminate any grammatical errors or stylistic flaws that might undermine the author audience relationship,
- . To write with meaningful complexity, you must learn to practice a variety of invention strategies (e.g., the five classical appeals, freewriting, reading and analysis, and library research) and to revise continuously the materials generated by these methods;
- To make coherent arguments without sacrificing complexity, your practice of revision must be guided by certain principles of style and arrangement, and you must grow adept in the genre of argument itself through work. with models and templates established by standard persuasive rhetorics;
- To create effective arguments, you must cultivate strategies for positioning texts against each other to familiarize yourself with the arguments of others before developing your own claims, and grow adept at using warrants, evidence, counter-claims, and other rhetorical tropes to craft your own arguments. You will learn strategies for active, critical reading, strategies for deciphering why a text might be arranged a certain way and what that arrangement might mean;
- . To conduct effective research means utilizing the library, evaluating sources, and incorporating the work of others into your texts using the proper conventions of citation endorsed by the Modern Language Association (MLA). You will also learn strategies and conventions for summarizing, paraphrasing, and quoting others' work to support and develop original claims.

To develop the skills mentioned above En lish 101 bal nees seminar style discussions with heavy student participation; brief lectures; hands-on productive we ... wr mg or shops an g ded lab exercises; and regular one-on-one conferencing with your professor.

Grade Determination: I am required to enforce a grading policy uniform with the standards of the university and the English department because this is a multi-section class in which many students must be graded similarly. At the same time, I want to work with you to ensure you earn the highest grade of which you are capable. That's why I have daily work so you build toward papers and earn completion points; that's why I give reading quizzes and notes so you get credit for your work and stay on top of the reading; and that's why I create revision assignments so you always have thorough comments before you turn in the most heavily weighted version of the paper. I've set up this class to make it possible for you to do well while still maintaining ethics in grading, similarity across sections, and integrity at the university.

Unit 1: Analysis Paper	15%	Unit 2: Analysis Paper - Extension & Revision	20%
Unit 3: Research Paper	15%	Unit 4: Hybrid Argument Paper	20%
Group Work	10%	Low-Stakes & In-Class Writing / Quizzes / Homework	15%
(Approx. 20 activities, calculated at end of semester)		Handwritten Notes (Submitted periodically)	5%

Figure 1.0ld syllabus.



#### First-Year Writing: Rhetoric and Research in the Digital Era

#### **Table of Contents**

Course Description	2
Course Values	3
<u>Grades</u>	4
Absences & Make-Up	4
Official English 1010 Policies	5
Course SchedulePosted or	Canvas

#### What Students Say

- . "Dr. Womack is unlike other teachers ... Traditionally, teachers teach topics and send you home to practice. Dr. Womack does this in reverse, you take notes at home and then you practice in class."
- "Come to class everyday ... discussions are crucial for success. Review old notes while writing essays to add elements we learned in class. This will boost your grade significantly."
- "Don't write off Dr. Womack's teaching style right off the bat because you're not used to it. Her method seems strange at first, but in the long run it will make you a better writer...you learn to become your best critic and analyze writing."

#### Course Resources



Dr. Anne-Marie Womack Awomack1@tulane.edu



Google Drive





Figure 2. Revised syllabus.



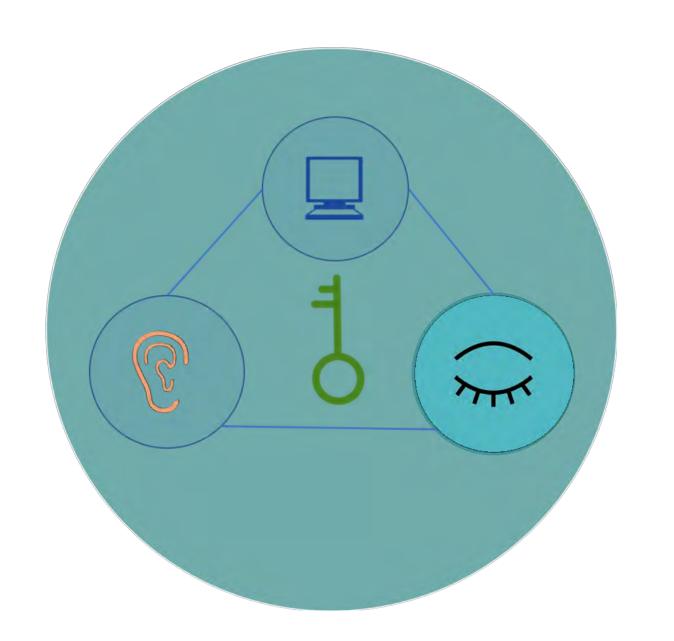
# **SYLLABUS**

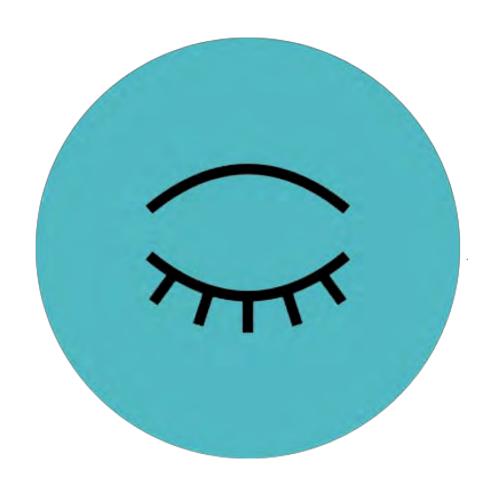
Accessible classroom resources promote student engagement and agency



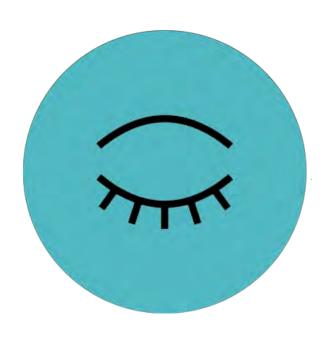
## Web Content Accessibility Guidelines Four principles

- Perceivable
- Operable
- Understandable
- Robust



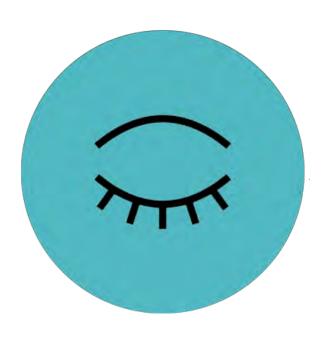


**Visual Impairment Simulation and Guidelines** 



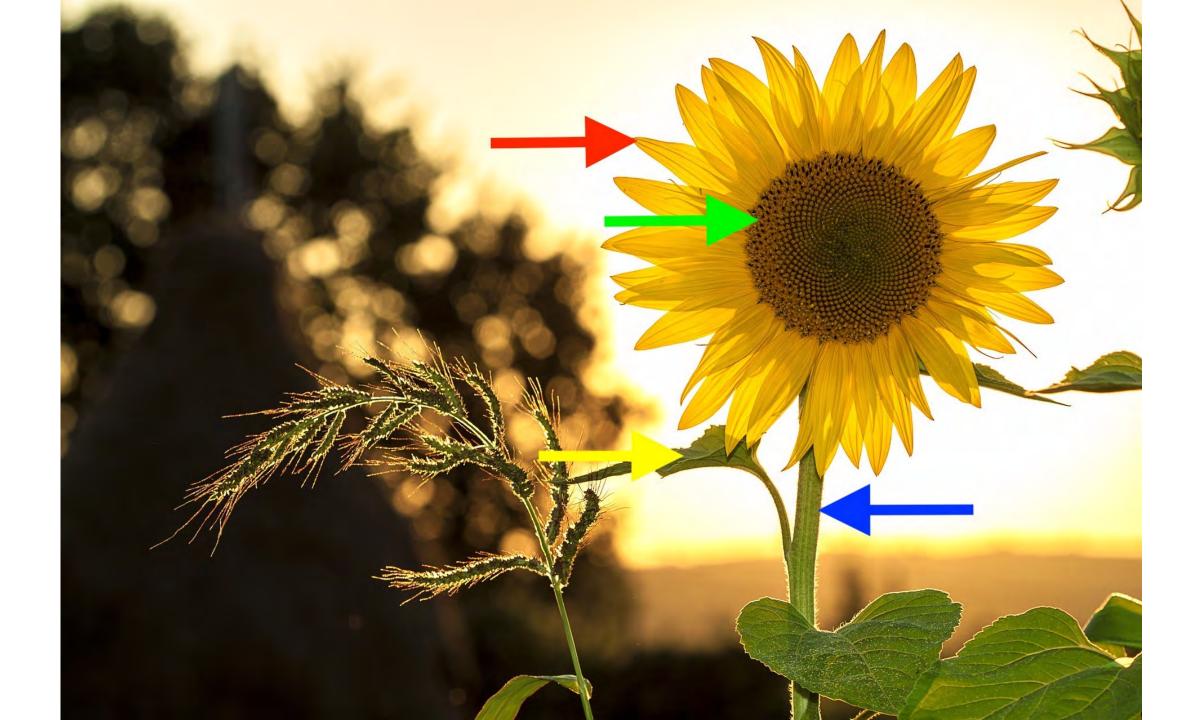
## Visual Impairment Simulation

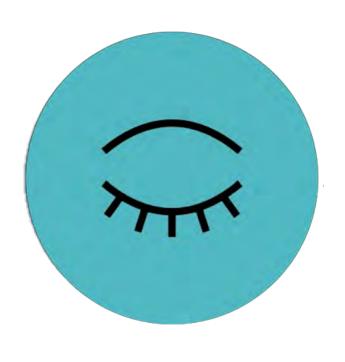
- What is like to be color blind?
- More simulations of vision loss



# Visual Impairment Web User's Technology

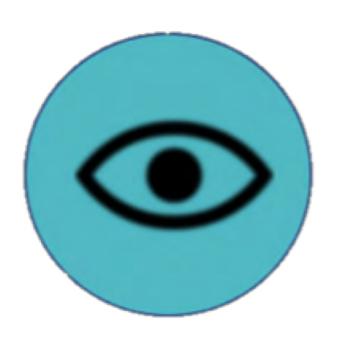
- Screen Reading Software (<u>Demo</u>)
- Special Browsers
- Screen Magnification





# Accessibility Guidelines for Visual Impairment - Printing

- Readable typeface/font (height for low vision people to improve readability)
- Color selection
- Spacing and white space
- File structure: headings and subheadings, lists and bullets
- Avoid all caps or all bold for large amount of text
- Background: plain color for text
- Paper: light color



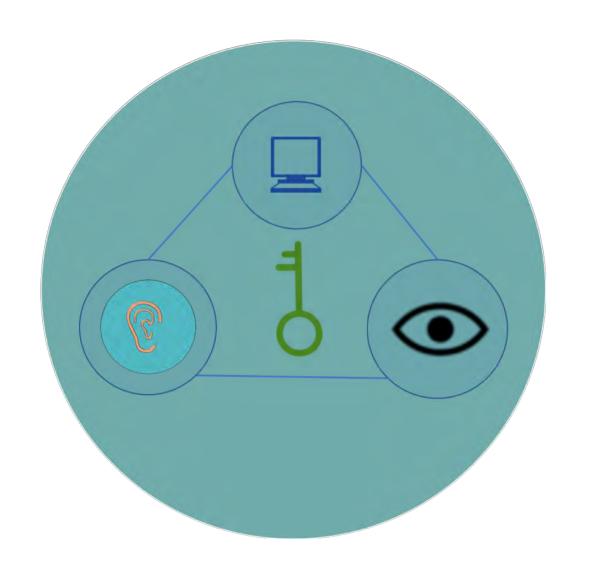
# Accessibility Guidelines for Visual Impairment – Online Content

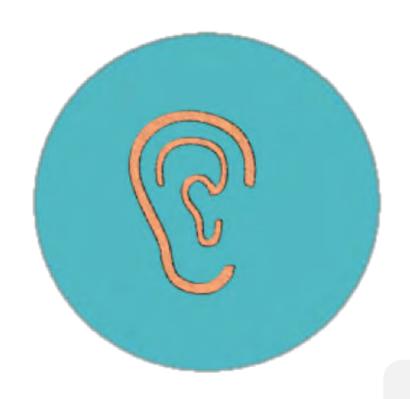
- Provide text alternatives: label graphics and images explicitly
- Do not solely rely on sensory characteristics to convey info or build content structure
- Select right elements: such as text font, size, spacing, background color, etc.
- Brightness



## Tips for Checking Accessibility

- Accessibility self-check: <u>Cheatsheet</u>
- Web Accessibility Evaluation Tools





**Hearing Impairment Simulation and Guidelines** 



### The Four Levels of Hearing Loss

- 1. Mild Hearing Loss
- 2. Moderate Hearing Loss
- 3. Severe Hearing Loss
- 4. Profound Hearing Loss





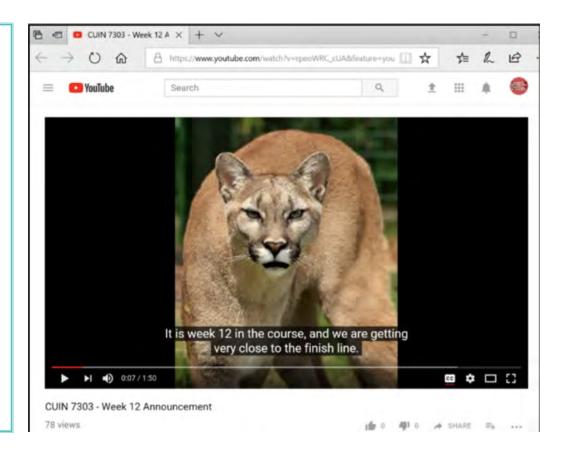
# **Hearing Impairment Simulation**





# Guidelines Based on WCAG 2.1 (Web Content Accessibility Guidelines)

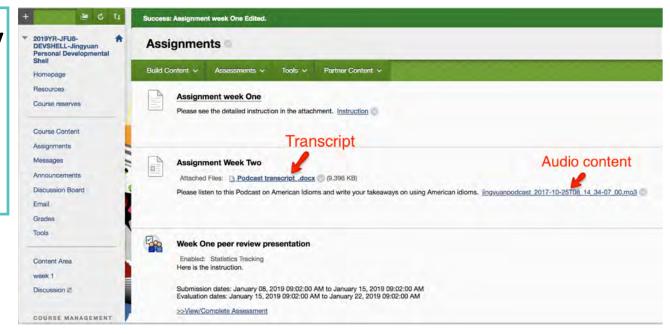
- 1. Provide Captions for Video Content.
  - Make sure the accuracy of captions
  - Make sure that captions are synchronized with the video





## Guidelines Based on WCAG 2.1

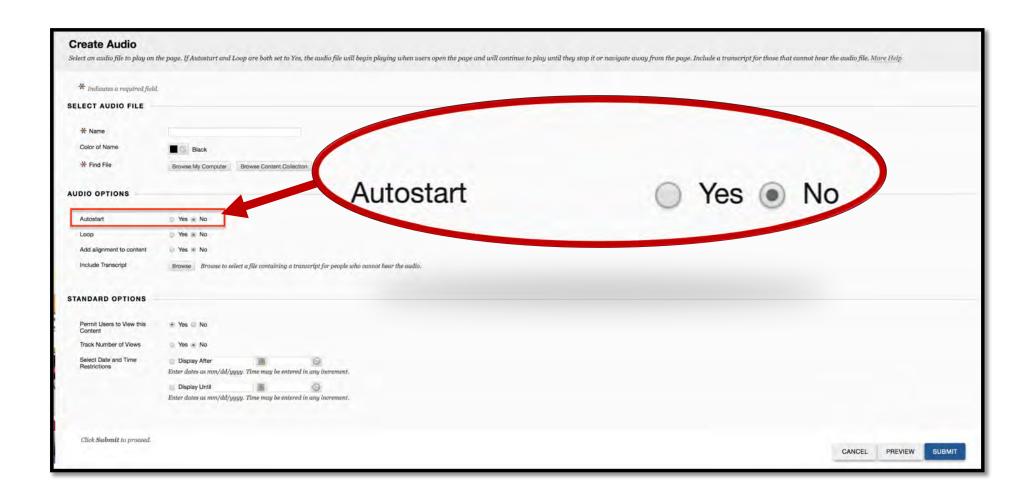
- 2. Provide a transcript/summary of audio/video content.
- Transcribe your audio/video using Google docs.





# Guidelines Based on WCAG 2.1

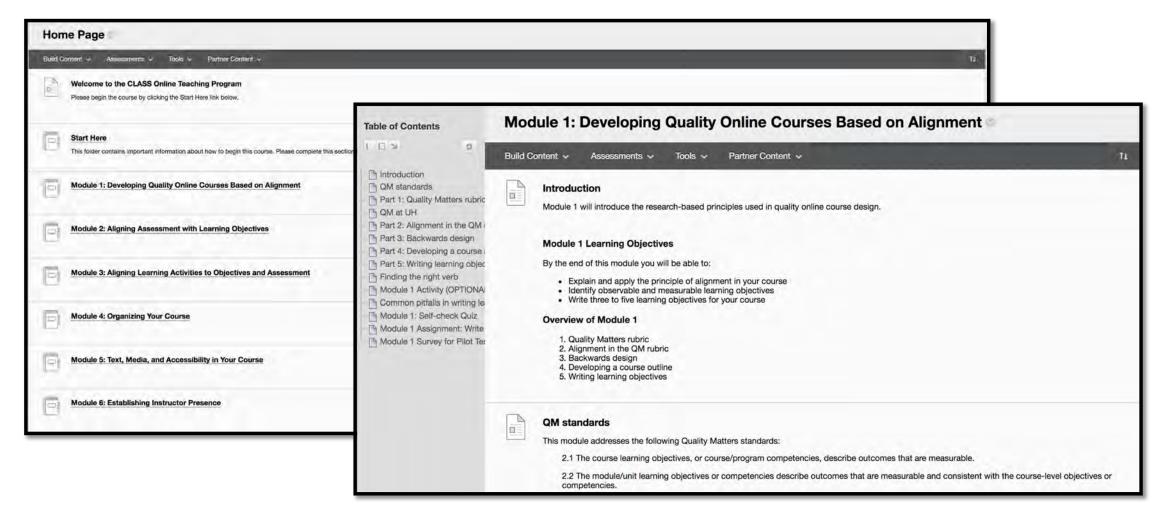
3. Make sure that audio/video doesn't play automatically





### Guidelines Based on WCAG 2.1

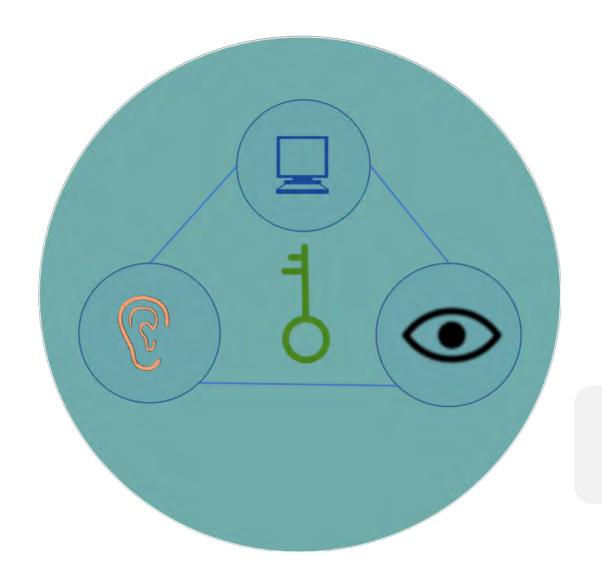
4. Make your content structured and organized.



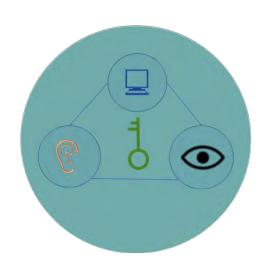


# Cheatsheet Practice for Video Files

Captioning YouTube Videos

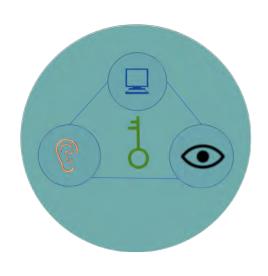


**Tips for Enhancing Accessibility** 



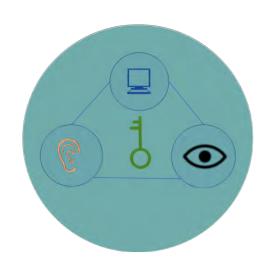
#### **Best Practices for Documents**

- Use legible fonts, e.g. Arial, Calibri, Georgia, Helvetica, Tahoma, Verdana
- Ensure sufficient color contrast between text and background
  - Color Contrast Checker
- Use descriptive anchor text for active hyperlinks
  - Museum of Fine Arts vs. <a href="https://www.mfah.org/">https://www.mfah.org/</a>
- Tag PDF files to ensure they can be read by screen readers
  - PDF Accessibility Standards
- Use appropriate tools to create headings, sections, and lists, instead of bold and italics
- For tables, use headers for rows and columns and captions for table titles and avoid merged cells
- Use <u>MathJax</u> for compatibility with screen readers



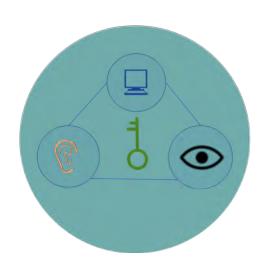
#### **Best Practices for Multimedia**

- Include captions and transcripts for video and audio and alt text for images
- Avoid using color to convey information, if unavoidable, use a color contrast checker
- Avoid animations, but if using them, describe sufficiently
- Avoid flashing graphics that may cause <u>photo epileptic seizures</u>



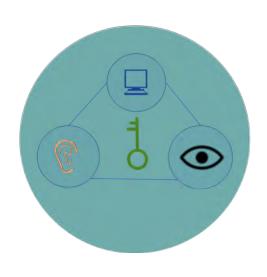
#### **Best Practices for General Instruction**

- Provide clear directions and expectations to help students focus and succeed
- Present content in multiple ways, such as, combination of text, video, audio and image format
- Choose options for communication and collaboration suitable for individuals with disabilities
- Provide options for demonstrating learning, such as, different types of test items, portfolios, presentations, discussions
- Check your web sites and web applications for accessibility
  - E.g. <u>WAVE</u> web accessibility evaluation tool



# Get Help!

- Would you like to incorporate these tips and learn more about accessibility?
- Contact <u>Instructional Designers</u> in your college.



#### Resources

Accessibility and Universal Design

Universal Design: Process, Principles, and Applications

**Equal Access: Universal Design of Instruction** 

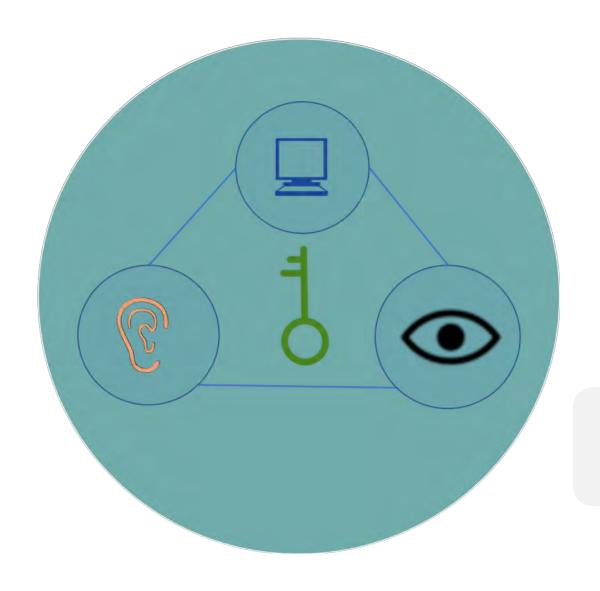
**Universal Design Online Content Inspection Tool** 

Difference between accessible, usable and universal design

The concept of Universal Design

Making Progress on Course Content Accessibility

Accessibility Blog on Instruction@UH



Sammy's conclusion and Q&A

# Key Issues in Teaching and Learning

•EDUCAUSE Learning Initiative (ELI) recognized their importance, ranking UDL and accessibility together as the NO. 4 in 2017 and number 2 in 2018

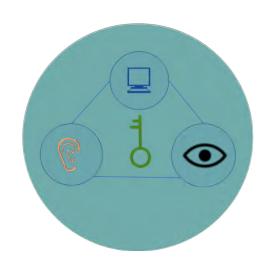
2017



2018



**EDUCAUSE Survey** 



## Q&A

- •What is your take away?
- •What are some of the practices you can incorporate in your teaching, research, and publication?