

Universal Design for Learning: An Inclusive Approach to Teaching

GTA Orientation, August 17, 2015

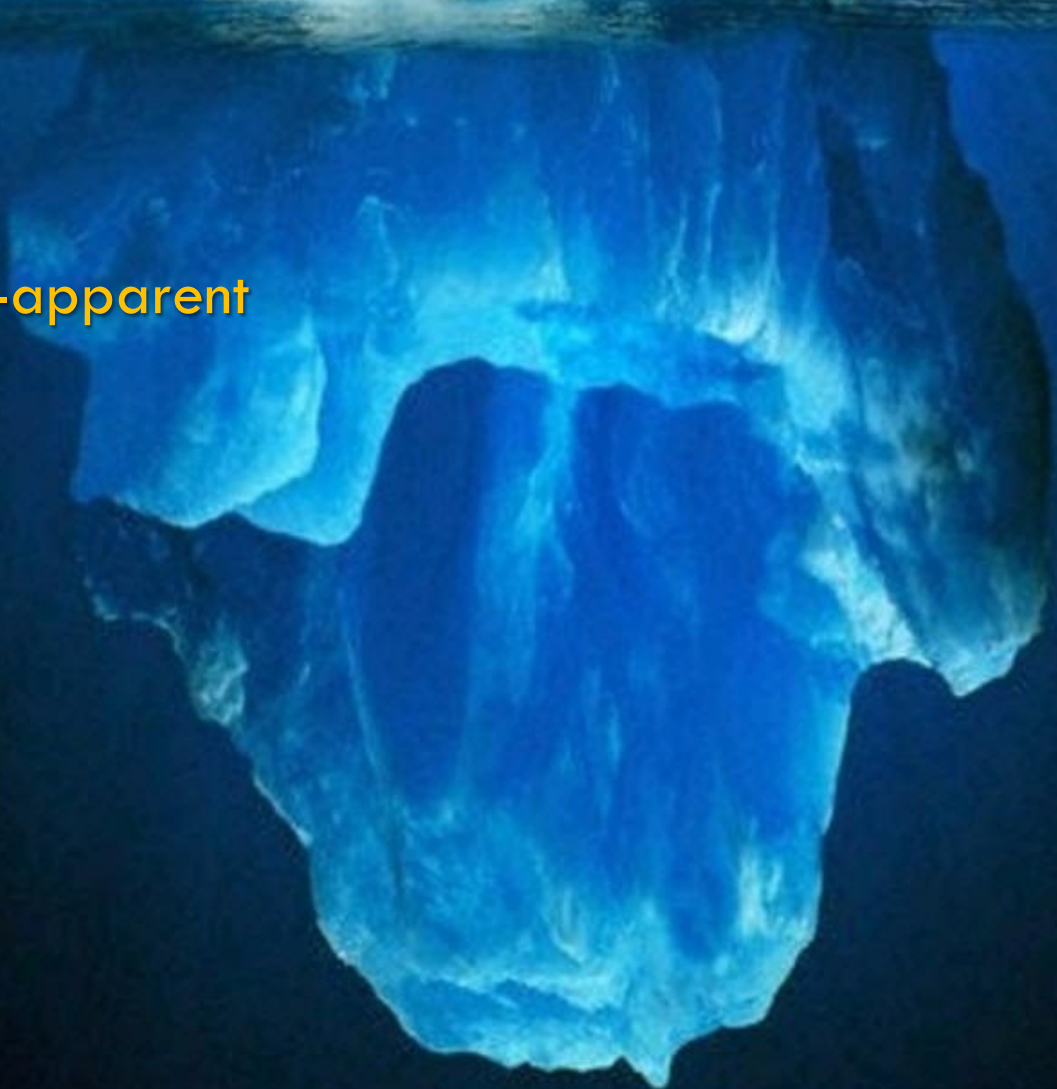
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- Apparent disabilities



- Non-apparent



$\frac{2}{3}+$

What is Electronic Accessibility?

- Electronic content (e.g. Word, PPT, PDF, and Web) is accessed using a wide variety of devices and software
 - Includes Assistive Technology used by students with disabilities, mobile devices, etc.
- Content must be designed to interact well with these technologies.
 - Documents that work are Accessible
 - Universal Design – Create with accessibility up front instead of fixing it later

Top Tips for Universally Designed Documents

- Make Scanned PDFs Searchable
- Use Headings and Slide Layouts
- Add Alternative Text to Images
- Add Captions to Videos

1. Make PDFs Searchable

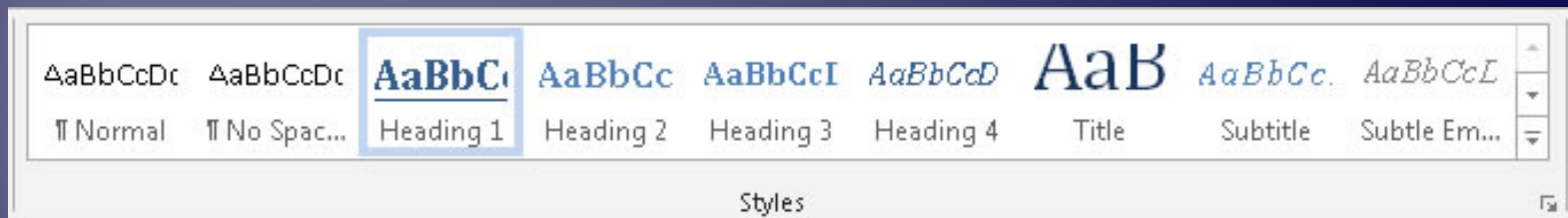
- Scanned PDFs are images, not text
- Use OCR (Optical Character Recognition) Software
 - Software that converts the image to text
- Creates a PDF with text that is:
 - Selectable – Copy and Paste
 - Searchable
 - Text-to-Speech Capable
 - More Readable for Everyone

Ways to Make a Searchable PDF

- OCR with Adobe Acrobat Professional
 - Very simple and easy process.
 - Can be automated to run on batches of PDFs
 - After the PDF has been created
 - Check with College I.T. for installation – site licenses are available.
- OCR at the Scanner or Copier
 - Look for “Searchable PDF” or “OCR” options before scanning.
- Morgan Library Course Reserves
 - Library staff can locate articles or chapters for your course
 - They scan, OCR, and post the PDF online for your class to access
 - [Morgan Library Course Reserves \(http://reserve.colostate.edu\)](http://reserve.colostate.edu)

2. Use Headings and Slide Layouts

- Benefits:
 - Generates a Table of Contents
 - Provides Visual Structure / Hierarchy
 - Allows Easier Navigation for Listeners



- Use built-in headings, styles, and slide layouts on all types of documents
 - Word, PPT, PDF, Canvas, Web
- Hierarchical – like an outline
 - Heading 1 is the highest level
 - Don't skip levels

3. Add Alternative Text to Images

- For students who cannot view visual content
 - Word, PPT, PDF, Canvas, web, etc.
 - All types of non-text elements – graphs, charts, tables, etc.
- Benefits:
 - Listeners will hear the description
 - The description will display if the image cannot load due to bandwidth, etc.

Good Alt Text:

- Describes the image concisely
- Avoids repetition
- Considers context – the purpose and meaning conveyed

Writing Good Alternate Text

- Alternative text for images should describe the meaning of the image in its context



- [Ice Cream Manufacturer](#)
- [Girl Scouts of America](#)
- [My Niece's Blog](#)
- [Diversity Website](#)

Add Captions to Videos

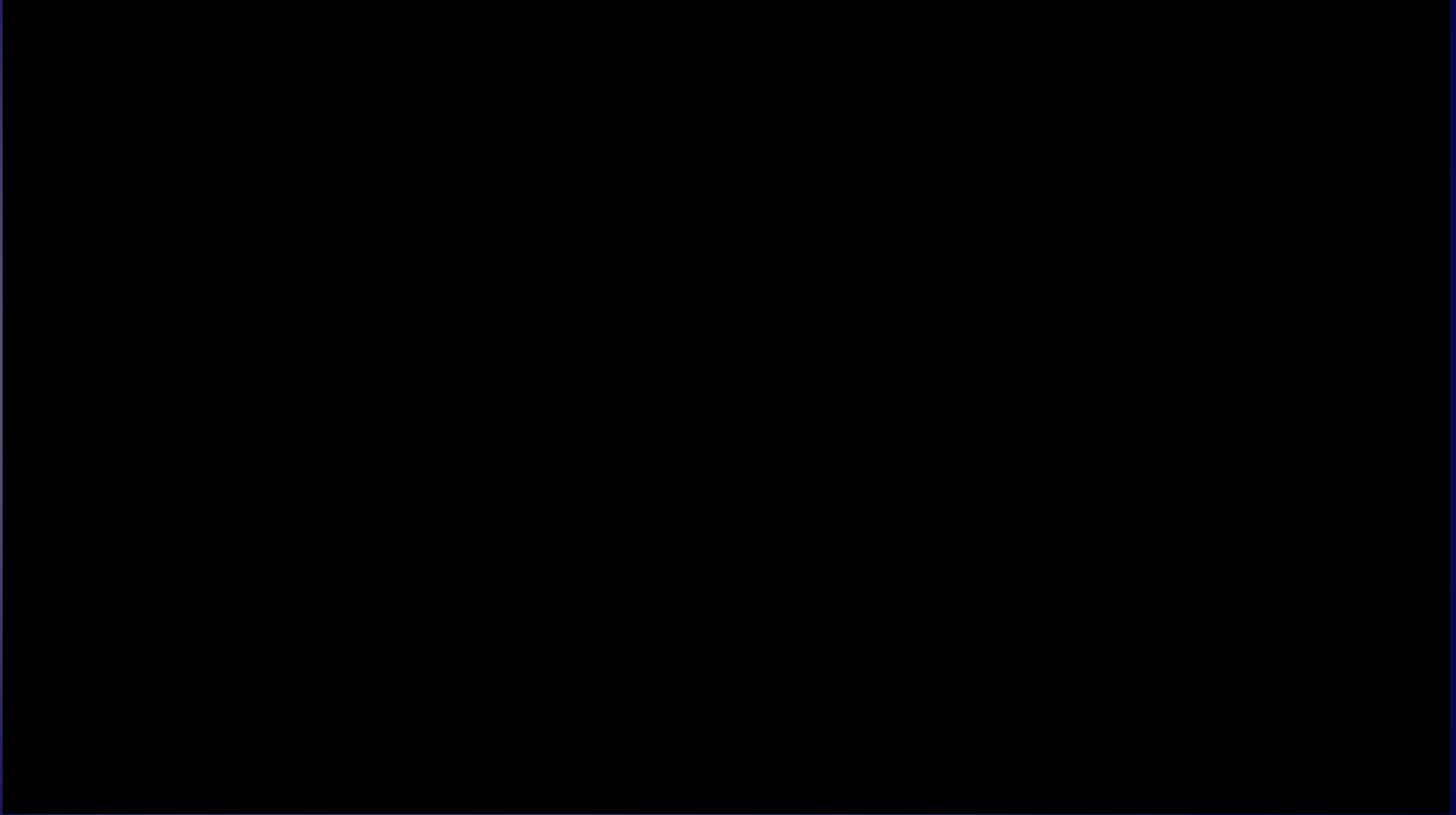
- Captions benefit many users, including those who:
 - Have Hearing Impairments
 - Don't have speakers / headphones
 - Are in a quiet workspace
 - Are in a loud workspace
 - Are learning English
 - Have difficulty understanding different accents
 - Want to search and jump to a specific point in the video
- YouTube Auto-Captions – A good start, but make sure you edit for accuracy.
- Amara – manually type captions while watching video. Canvas has links to Amara to add a transcript to video.

YouTube Auto-Caption Example



Source: [Funniest YouTube Captions Fails \(CLONED\)](http://www.huffingtonpost.com/2010/03/29/funny-youtube-caption-fail_n_516866.html) (http://www.huffingtonpost.com/2010/03/29/funny-youtube-caption-fail_n_516866.html)

Captioned Video – Bad and Good



Source: [Good, Bad, and Ugly: Closed Captioning and Video Description](https://www.youtube.com/watch?v=VyA5mkhCzRA)
(<https://www.youtube.com/watch?v=VyA5mkhCzRA>)

Campus Resources and Supports

- Services for CSU students and employees with disabilities
 - Students need to register with Resources for Disabled Students first
 - [ATRC Website \(http://atrc.colostate.edu\)](http://atrc.colostate.edu)
 - (970) 491-6258
 - atrc@colostate.edu
- ATRC Resources on Universal Design and Accessibility
 - Allison.Kidd@colostate.edu – Accessibility Specialist
 - Trainings offered throughout the year (PDI, MTI) and by request
 - Tips and Guides at [Accessibility By Design \(http://accessibility.colostate.edu\)](http://accessibility.colostate.edu)
 - Video Tutorials at [Atomic Learning \(http://atomiclearning.com\)](http://atomiclearning.com) (Contact ATRC for an account)