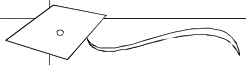



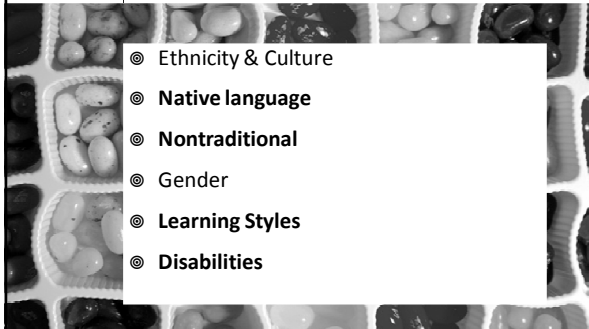
Creating Universally Designed eLearning Materials




The ACCESS Project
 Jesse Hausler, UDL/Accessibility Coordinator
 Marla Roll, Director of the Assistive Technology Resource Center



Today's Students are Diverse






- ⊙ Ethnicity & Culture
- ⊙ Native language
- ⊙ Nontraditional
- ⊙ Gender
- ⊙ Learning Styles
- ⊙ Disabilities







Universal Design for Learning

“ Universal Design for Learning is a set of principles and techniques for ~~creating inclusive classroom instruction~~ **teaching** ~~and accessible course materials~~ **technology** ”



	UDL: a framework for inclusive pedagogy
	<ol style="list-style-type: none">1. Information and concepts are represented in multiple ways and in a variety of formats.2. Students are given multiple ways to express their comprehension and mastery of a topic.3. Students engage with new ideas and information in multiple ways.


	What Makes a Document Universally Designed?
	<ul style="list-style-type: none">● Search-ability● Select-ability for Copy and Paste● Bookmarks or an Interactive TOC● Text to Speech capability● Accessibility

	Content, Structure, and Presentation
	<ul style="list-style-type: none">● Content<ul style="list-style-type: none">○ The actual information you are providing in a document. This can include Text, Images, Videos, or Multimedia.● Structure<ul style="list-style-type: none">○ The organization of content is <i>structure</i>. This includes headings, lists, tables, emphasis, etc.● Presentation<ul style="list-style-type: none">○ One can add style rules to structural elements to give documents a particular appearance.


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Images and Alt Text

● Alternative text for images should describe the meaning - based on the it's context



- Ice Cream Manufacturer
- Girl Scouts of America
- My Niece's Blog
- Diversity Website




○

Let's Make Our Own PDFs

● **Microsoft Word as the Native Editor**


1. Print to PDF
2. Save As PDF
 - <http://www.microsoft.com/downloads/details.aspx?familyid=F1FC413C-6D89-4F15-991B-63B07BA5F2E5>
3. Adobe Acrobat Plugin for PDF



○

Make Your Own PDF Results


	Accessibility	Search-Ability	Copy/Paste	Bookmarks	Text to Speech
Print to PDF	✗	✓	✓	✗	✓
Save As PDF	✓	✓	✓	✓	✓
Adobe PDF Plugin	✓	✓	✓	✓	✓



○

Let's Look at Scanned PDFs


- Scanned PDF
- Scanned PDF with Optical Character Recognition
- Scanned PDF with OCR and Tags added



○

Scanned PDF Results

	Accessibility	Search-Ability	Copy/Paste	Bookmarks	Text to Speech
Scanned PDF	✗	✗	✗	✗	✗
Scanned PDF with OCR	✗	✓	✓	✗	✓
OCR and Tags	✓	✓	✓	✓	✓



○

UDL and Multimedia

Transcripts


- A written or text-based record of dictated or recorded speech. May contain additional relevant information, such as descriptions or comments.



Captions



- A transcript is timed to display with the video track, it displays on screen as a caption.



Descriptive Audio

- The narration of key visual elements in a video or multimedia product.



	<h2>Video Captioning</h2>
	<ul style="list-style-type: none">● AutoMatic Sync<ul style="list-style-type: none">○ Upload audio track and transcript○ http://www.automaticsync.com/caption/index.htm● YouTube videos<ul style="list-style-type: none">○ Upload transcript in text format○ Machine Automated captions○ http://www.youtube.com● MAGpie<ul style="list-style-type: none">○ Works with most major video formats○ http://ncam.wgbh.org/webaccess/magpie/

	<h2>Lecture Presentation Systems</h2>
	<ul style="list-style-type: none">● Captions and/or Transcripts● Search-ability● Navigation Options● Keyboard Accessibility● <u>Example 1</u>● <u>Example 2</u>

	<h2>UDL Modules</h2>
	<ul style="list-style-type: none">● Teaching● Technology<ul style="list-style-type: none">○ Microsoft Word○ Adobe PDF○ HTML○ E-Text● http://accessproject.colostate.edu/udl/modules

	<p>Thank you!</p>
	<p>The ACCESS Project accessproject@colostate.edu http://accessproject.colostate.edu</p>
