Section 508 Awareness

Web Accessibility

Presented by: Flo Wolfe Sharp Phyllis Ennist Vandana Rola

Objectives

- State the basic requirements of the law.
- Identify the various disabilities students might have and how those disabilities affect students' online learning experience.
- Use an online service to test a Web page for accessibility.
- Create accessible learning activities for online information that is problematic.

Introduction

- Statistics: US Census Bureau
- Web use in the US
- Accessibility initiatives

Legislation

- Americans with Disabilities Act
- Rehabilitation Act
 - Section 504
 - Section 508

Exceptions

- National security systems
- Public Web pages of a vendor
- Products used that are incidental to a contract
- Systems used for routine administrative and business applications
- Undue burden

Undue Burden

- When compliance with the provisions of these standards imposes an undue burden, agencies shall provide individuals with disabilities with the information and data involved by an alternative means of access that allows the individual to use the information and data.
- Undue burden means significant difficulty or expense; analogous to the term "undue hardship" in Title I of the ADA.

Legal Issues

- ADA case law has established that Web sites are places of public access
- Colleges and universities are subject to the ADA and Section 504
- DOJ, DOE, and OCR are using Section 508 to judge equal access and effective communication
- Reauthorization of Rehabilitation Act may make 508 mandatory for 504 subject entities

Using the Web

- Types of disabilities:
 - Visual
 - Aural
 - Motor
 - Cognitive
 - Emotional/Neurological
- Accommodating disabilities

Exercises

- Keyboard navigation
- WebAIM simulations
- JAWS demo

Break

Different ways of making PowerPoint accessible



Use PowerPoint presentation

- Use PowerPoint presentation and HTML– based version for accessibility
- Drawback: Huge file size
- Benefit: Printer friendly

Drawbacks of Traditional PowerPoint presentation

- Not accessible. Not read by the reader.
- If the student does not have PowerPoint plugin or PowerPoint installed on their computer, they can't access them.

Save as Webpage

- Save as ppt web page and HTML-based version for accessibility **Drawbacks:**
 - Not fully accessible as Images are not read by the reader.
 - The contents read by the reader are very confusing. Why?
 - Frames. Reader reads left frame before reading right frame.
 - First read the content and then textboxes
 - Not printer friendly. One slide at a time
- **Benefit:**
- Small file size

Flash Slides

• Use Flash to create slides show for presentation and HTMLbased version for accessibility

Drawbacks:

- Not printer friendly
- Time consuming

Benefits:

- Small file size
- Not cluttered information like saving as web page

PowerPoint ADD-ON

 The University of Illinois has created an add-on to PowerPoint that does a good job of converting PowerPoint slides into an accessible HTML format, but requires lot of clean up in the HTML file.
 <u>http://www.webaim.org/techniques/powerpoint/</u>

Conclusion

- PowerPoint is a good tool for classroom teaching not online teaching.
- For online teaching there isn't a single method which produces satisfactory results.
- Lot of cleaning needs to be done to make them accessible to the students.
- Discourage using PowerPoint presentations in online teaching.

PDF Accessibility

PDF is Accessible

• Using Acrobat 6.0

Flash Accessibility

Yes – No – Maybe?

Flash is Accessible

Flash Demo

- 1. Flash writes HTML for accessibility.
- 2. Keyboard Access.

What is Required?

- Separate Text File
- Keyboard Access

Structure Vs. Presentation

- An *element* (e.g., P, STRONG, BLOCKQUOTE in HTML) that specifies document structure is called a structural element.
- An *element* that specifies document presentation (e.g., B, FONT, CENTER) is called a presentation element.
 - The presentation of a document is how the document is rendered (e.g., as print, as a twodimensional graphical presentation, as a text-only presentation, as synthesized speech, as Braille, etc.)

Structure

Within the document body, structural markup includes such things as:

- Headers
- Paragraphs and breaks
- Lists, Blockquote
- Tables (especially when used as intended: for tabular data)
- Strong
- em

Presentation

- Alignment values (right, left, center, justify)
- Color values
- Fonts,size(pt)
- Borders
- Table Linearization

Why is it Important?

- For the person with a disability.
- Content in a user friendly method.
- Future adaptation to new technology.
- We want the user to have an experience that is as clear as possible.

Other Online Issues

- Clear and simple language
- Intuitive Navigation
- Meaningful (contextual) hyperlinks
- Explicit email links (using addresses vs. description)
- Good visual contrast

Resources

- Template Demo
- Developer's Guide

Validation

- Checklists
- Online Web page validation tools
 - Choices
 - Usefulness
 - Limitations

Bobby

- Free service from WatchFire
- Tests against WCAG -- or- Section 508
- Limited to 1 page per minute
- Pages must be on public Internet
- Desktop version is available

Service Assignments (10 points each) Homework exercises (10 points each) Mid-term Lab Assignments (10 points each) Final Exam Solution Solut	o 🛛 Links 🎽 📆 🔹 🗍 🌀 SnagI	output=Submit≷=sec508&test=#g9 🗾 (~Go	general%2Fsyllabus_demo.htm	F%2Fpeople.sinclair.edu%2Fflorencesharp%2Fspringconf%	Address 🙋 %2F
ASSIGNMENTPOINTSHomework exercises (10 points each)50Mid-term50Lab Assignments (10 points each)50					
Homework exercises (10 points each)50Mid-term50Lab Assignments (10 points each)50				Grading Policy:	& ?
Mid-term50Lab Assignments (10 points each)50		POINTS		ASSIGNMEN	
Mid-term50Lab Assignments (10 points each)50		50		Homework exercises (10 points each)	
		50			
Final Exam 100		50		Lab Assignments (10 points each)	
		100		Final Exam	
Participation 25		25		Participation	
Database project 100				Database project	
Total Points 375		375	Total Points		

Click the link below to view policies such as important college dates, dropping a course, withdrawing from college, late registrations, change of schedule, administrative withdrawal, grades, student behavior guidelines, safety and security, academic and other counseling.

Understanding these policies is the responsibility of every student. View important Sinclair policies in a new browser window

Honor Code:

The <u>Sinclair Community College Honor Code</u> sets forth the ethical values and practices expected of all Sinclair faculty, staff, and students. Please take a few moments to review and understand this information.

Sinclair Proctor Policy:

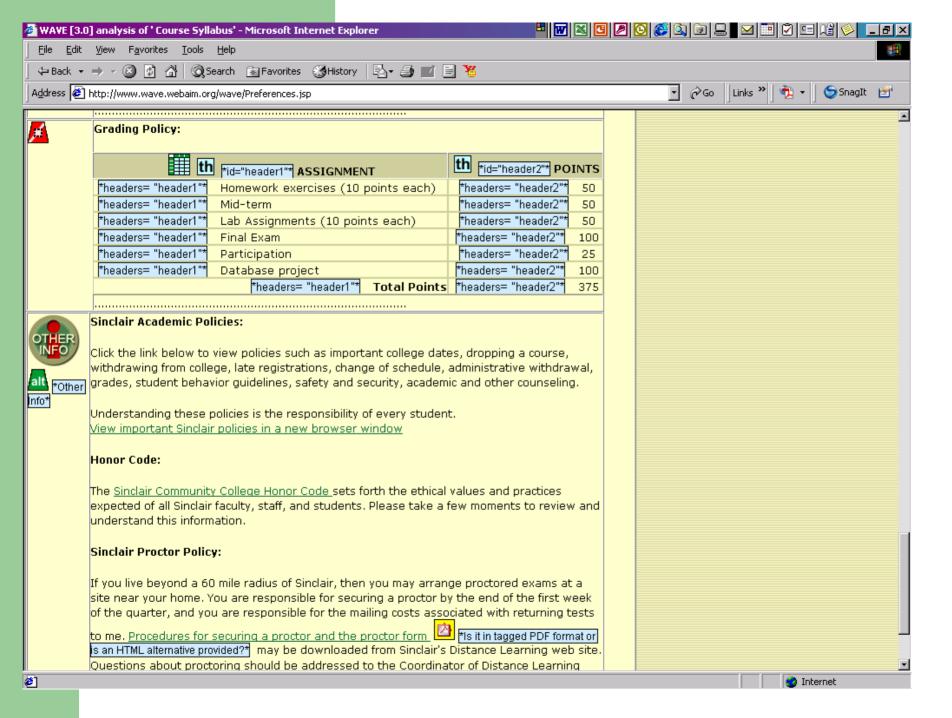
If you live beyond a 60 mile radius of Sinclair, then you may arrange proctored exams at a site near your home. You are responsible for securing a proctor by the end of the first week of the

🗿 Internet

🚰 Course Syllabus - Microsoft Internet Explorer	
<u>File E</u> dit <u>V</u> iew F <u>a</u> vorites <u>T</u> ools <u>H</u> elp	
🖙 Back 🔹 🤿 🖉 🙆 🚮 📿 Search 🕋 Favorites 🛛 History 🛃 🗉 📑 📰	æ
Address 🙋 %2F%2Fpeople.sinclair.edu%2Fflorencesharp%2Fspringconf%2Fgeneral%2Fsyllabus_d	emo.htm&output=Submit&g =sec508&test=#g9 💽 🔗 Go 🛛 Links 🎽 📆 🗸 🛛 🈏 SnagIt 📷
пе вообу перон.	
Follow the links in guideline titles for detailed information about the error.	
Section 508 Accessibility	
section 508 Accessionity	
This page does not meet the requirements for Section 508 Approved status. Below :	is a list of 1 Section 508 accessibility error(s) found
1. Provide alternative text for all images. (2 instances)	
Lines 175, 280	
Section 508 User Checks	
User checks are triggered by something specific on the page; however, you need to	determine manually whether they analy and if analycable, whether your nace
meets the requirements. Bobby Section 508 Approval requires that all user checks p	
Please review these 6 item(s):	
1. If you can't make a page accessible, construct an alternate accessible version.	
2. If style sheets are ignored or unsupported, are pages still readable and usable	
3. If this is a data table (not used for layout only), identify headers for the table re	ows and columns. (3 instances)
 Lines 12, 24, 56, 98, 324 4. If you use color to convey information, make sure the information is also represent the informa	ecented another way (h inclances)
Lines 26, 58, 100, 175, 280, 326	<u>senied anomer way.</u> (0 <i>mounces)</i>
5. If an image conveys important information beyond what is in its alternative tex	t, provide an extended description. <i>(6 instances)</i>
Lines 26, 58, 100, 175, 280, 326	, , , , , , , , , , , , , , , , ,
6. If a table has two or more rows or columns that serve as headers, use structure	al markup to identify their hierarchy and relationship. (8 instances)
Lines 12, 24, 56, 98, 173, 278, 324, 10	
The following 1 item(s) are not triggered by any specific feature on your page, but ar Approved status.	e still important for accessibility and are required for Bobby Section 508
Approved status.	
7. If a timed process is about to expire, give the user notification and a chance to	extend the timeout.

WAVE

- Free tool from WebAIM
- Tests 3 levels of WCAG, Section 508, or both
- Lets you set preferences
- Tests pages on the Internet, uploaded from your computer, or on-the-fly if you install a browser tool



Cynthia Says

- Free from HiSoftware
- Tests 3 levels of WCAG or Section 508
- Tests about 1 page per minute
- Pages must be on the public Internet
- Desktop version is available

🚰 Cynthia Says Report - Microsoft Internet Explorer	8 W 🛛 🖸 🖉 🚱 🖓 🖗 🗖 🗹 🖻 🖄 🌾 💶 🗗
<u>File E</u> dit <u>V</u> iew F <u>a</u> vorites <u>T</u> ools <u>H</u> elp	
📙 🖙 Back 🔹 🤿 🚽 🙆 🚰 🥘 Search 🛛 🕋 Favorites 🛛 🖓 History 🛛 🛃 🚽 📑 🎽	
Address 🛃 http://www.cynthiasays.com/mynewtester/cynthia.exe	💽 🧀 Go 🛛 Links 🎽 👘 🕶 🗍 🈏 SnagIt 📷
	[
Cynthia™ Says - Web Content Accessibility Report	
Powered by <u>HiSoftware Content Quality</u> Technology	-
If you like this we think you will like HiSoftware Web Site Link Validation Utility only	<u>/ \$29.99!</u>

Verified File Name: <u>http://people.sinclair.edu/florencesharp/springconf/general/syllabus_demo.htm</u> Date and Time: 3/23/2004 4:02:38 PM Failed Automated Verification Emulated Browser: MS Internet Explorer 5.0

The level of detail setting for the report is to show all detail.

🥭 🔁 Do

Verification Checklist

Checkpoints		Passe	
508 Standards, Section 1194.22	Yes	No	Othe
A. 508 Standards, Section 1194.22, (a) A text equivalent for every non-text element shall be provided (e.g., via "alt", "longdesc", or in element content).		No	
 Rule: 1.1.1 - All IMG elements are required to contain either the alt or the longdesc attribute. Failure - IMG Element at Line: 175, Column: 65 Failure - IMG Element at Line: 280, Column: 65 Rule: 1.1.2 - All INPUT elements are required to contain the alt attribute or use a LABEL. No INPUT Elements found within document Rule: 1.1.3 - All OBJECT elements are required to contain element content. No OBJECT elements found in document body. Rule: 1.1.4 - All APPLET elements are required to contain both element content and the alt attribute. No APPLET elements found in document body. Rule: 1.1.6 - All IFRAME elements are required to contain element content. No IFRAME elements found in document body. Rule: 1.1.7 - All Anchor elements are required to contain elements are required to contain the alt attribute. No MAP elements found in document body. Rule: 1.1.7 - All AREA elements are required to contain element content. No MAP elements found in document body. Rule: 1.1.7 - MI Anchor elements found within MAP elements are required to contain the alt attribute. No MAP elements found in document body. Rule: 1.1.8 - All AREA elements are required to contain the alt attribute. No AREA elements found in document body. Rule: 1.1.9 - When EMBED Elements are used, the NOEMBED element is required in the document. No EMBED elements found in document body. 			
3. 508 Standards. Section 1194.22. (b) Equivalent alternatives for any multimedia preseptation shall be synchronized with the			N/A
	🥑 I	interne	et

Support

- Web resources
- WCDT
- Disability Services