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A collaborative program between the
ADA National Network and the
U.S. Access Board

The Session is Scheduled to begin at 2:30pm Eastern Time
We will be testing sound quality periodically

Audio and Visual are provided through the on-line webinar system. This session is closed captioned. Individuals may also listen via telephone by dialing 1-712-432-6297 code 510110# (This is **not** a Toll Free number)

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www.AccessibilityOnline.org

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OR

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**The accessibility of the mobile app is limited for voice over users and no captioning is displayed.

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- **If you are listening by phone and not logged in to the webinar, you may ask questions by emailing them to webinars@accessibilityonline.org**

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AccessibillityOnline Webinar Series
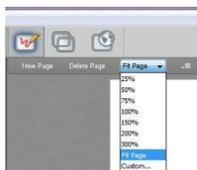Accessible Education Facilities
August 1, 2019

Customize Your View

- Resize the Whiteboard where the Presentation slides are shown to make it smaller or larger by choosing from the drop down menu located above and to the left of the whiteboard.   The default is "fit page"

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Customize Your View *continued*

- Resize/Reposition the Chat, Participant and Audio & Video panels by "detaching" and using your mouse to reposition or "stretch/shrink". Each panel may be detached using the ▫ icon in the upper right corner of each panel.

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- Depending on your system settings you may receive visual and audible notifications when individuals enter/leave the webinar room or when other actions are taken by participants. This can be distracting.
- To turn off notifications (audible/visual)
  - Select "Edit" from the tool bar at the top of your screen
  - From the drop down menu select "Preferences"
  - Scroll down to "General"
    - select "Audible Notifications"   Uncheck anything you don't want to receive and "apply"
    - Select "Visual Notifications" Uncheck anything you don't want to receive and "apply"
  - For Screen Reader User – Set preferences through the setting options within the Activity Window (Ctrl+slash opens the activity window)

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Technical Assistance

- If you experience any technical difficulties during the webinar:
  1. Send a private chat message to the host by double clicking "Great Lakes ADA" in the participant list. A tab titled "Great Lakes ADA" will appear in the chat panel. Type your comment in the text box and "enter" (Keyboard - F6, Arrow up or down to locate "Great Lakes ADA" and select to send a message); or
  2. Email webinars@accessibilityonline.org ; or
  3. Call 877-232-1990 (V/TTY)

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Evaluating Websites for Accessibility

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Today's Presenters

Bruce Bailey
IT Specialist, Access Board

Jared Smith
Associate Director, WebAIM, USU

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Session Agenda

- Overview of How People with Disabilities Use the Web
- Why we are talking about 508
- Why we are talking about WCAG
- How can I tell if my website has accessibility issues?
- If my site has issues, what do I do?

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Overview of How People with Disabilities Use the Web

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How do People with Disabilities Use the Web?

- How do people use the web?
  - Windows, Mac, mobile phone
  - Web browser of choice, e.g.:
    - Chrome
    - Firefox
    - Internet Explorer
    - Safari
    - Edge
- Same for people with disabilities!

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How People with Disabilities Use the Web

- Platform of choice (i.e., a mainstream web browser)
  - Most people with disabilities use hardware and software "as-is"
    - Some PWD customize settings
  - Some people with disabilities also use "assistive technology"
    - E.g., "Screen reading" software adds speech output

- For more and better examples:
  - www.w3.org/wai/people-use-web
  - www.w3.org/wai/fundamentals/accessibility-intro

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Accessibility of *platforms* is very good!

- Microsoft Windows
- Apple (OS X, iOS)
- Google Android

- On Desktop:
  - OS and web browsers work well using only the keyboard
- On Mobile:
  - Platform web browser works well with phone's accessibility features

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So what is the problem?

- Hardware has good accessibility
- OS has good accessibility
- Web browsers (the software) have good accessibility

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Content is the problem!

- The author of the web page mostly controls the accessibility
- Example: If the author adds a meaningful and informational graphic or image
  - Author needs to add description identification or text equivalent

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Why we are talking about 508

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Web accessibility is not new!

- Trace Center initiated "Unified Web Site Accessibility Guidelines"
  - Central Reference Document, June 1997, version 7.2

- Web Content Accessibility Guidelines 1.0
  - W3C Recommendation, May 1999
    - www.w3.org/tr/wcag10

- Original Section 508 Standards, December 2000
  - 1194.22 Web-based intranet and internet information and applications
    - www.federalregister.gov/d/00-32017

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Standards Refresh

- Web Content Accessibility Guidelines 2.0
  - W3C Recommendation, December 2008
    - www.w3.org/tr/wcag20

- U.S. Access Board
  - Revised Section 508 Standards, January 2017
    - Phrase we have been using is "ICT Refresh"
    - www.access-board.gov/508

- W3C work continues (does not effect 508)
  - WCAG 2.1 W3C Recommendation, June 2018
    - www.w3.org/tr/wcag21

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Are non-federal websites required to comply with Revised 508 Standards?

- Section 508 applies only to federal agencies when they procure, use, develop, or maintain ICT
  - Section 508 itself does not apply beyond the federal government
- In some cases, compliance with the 508 Standards may be required by other rules and regulations
- The 508 Standards can serve as useful guidance for other entities in providing access

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Why we are talking about WCAG

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Revised 508 Incorporation By Reference (IBR) of WCAG 2.0

508
Standards

WCAG
2.0

A

AA

AAA
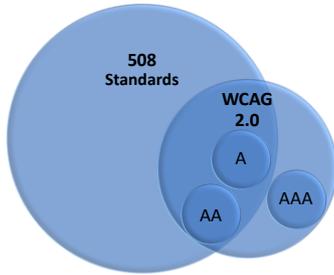
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Revised 508 Standards: Broad Application of WCAG 2.0

WCAG 2.0 Level A and AA Success Criteria and Conformance Requirements applied to:

– Web content (e.g. online instructional materials)
– Covered non-Web documents (e.g. instructional materials)
– Software user interfaces (e.g. learning management systems)

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WCAG 2.0: An International Standard

WCAG 2.0 background and development
– Represents an international, multi-stakeholder consensus
– Adopted or referenced by many countries and organizations
– Endorsed by International Standards Organization
  • ISO/IEC 40500:2012

Standards harmonization advances accessibility

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WCAG TOC is a Top ~~10~~ 12 List!

- Provide **text alternatives** for non-text content
- Provide **captions and other alternatives** for multimedia
- Create content that can be **presented in different ways**, including by assistive technologies, without losing meaning
- Make it easier for users to **see and hear content**
- Make all functionality available from a **keyboard**
- Give users **enough time** to read and use content…

Source:
- www.w3.org/tr/wcag20/#contents

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WCAG Top 12 Cont.

…
- **Avoid content that causes seizures** or physical reactions
- Help users **navigate and find content**
- Make text **readable and understandable**
- Make content appear and operate in **predictable** ways
- Help users **avoid and correct mistakes**
- Maximize **compatibility** with current and future user tools

Source:
- www.w3.org/wai/standards-guidelines/wcag/glance

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Getting Started Using WCAG 2.0

- W3C Web Accessibility Initiative (WAI) homepage:
  - www.w3.org/wai
- Recommend the WCAG 2.0 Overview:
  - www.w3.org/wai/standards-guidelines/wcag
- The standard is written to be a good starting point:
  - WCAG 2.0 introduction and layers of guidance:
  - Principles, guidelines, success criteria, techniques
  - Each success criterion has contextual links for "Understanding" and "How to Meet"

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WCAG Features

- WCAG 2.0 success criteria (SC) are written as testable statements that are not technology-specific

- Each SC assigned a Level: A, AA, AAA
  – Revised 508 adopted Level AA (which includes Level A SC)

- WCAG structures provide built-in prioritization plan:
  – Four SC associated with CR5 for Non-Interference
  – Other Level A SC
  – Then the AA SC
  – Address AAA SC as resources allow

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WCAG Organization

- SC organized in four categories ("principles"):
  – Perceivable
  – Operable
  – Understandable
  – Robust

- SC numbering comes from those four principles
  – One or more "guidelines" under each principle
  – One or more SC under each guideline

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WCAG 2.0 Conformance

- Satisfy all success criteria at a given level
- Not applicable success criteria satisfied by default
- Conformance applies to entire page
- Some SC apply to multi-page processes

Conformance at AA, or even AAA, does not mean 100% accessibility!

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How can I tell if my website has accessibility issues?

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Triage Website Accessibility

- Easy Checks First
  - www.w3.org/wai/test-evaluate/preliminary

- Quick Reference: Testing Web Content for Accessibility
  - www.webaim.org/resources/evalquickref

- WCAG Conformance Requirement for Non-Interference
  - www.w3.org/tr/wcag20/#cc5

- Scanning Tools

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WCAG CR 5 for Non-Interference

- WCAG CR 5 for Non-Interference
  - 1.4.2 Audio Control
    - Is there sound or music that plays automatically?
  - 2.1.2 No Keyboard Trap
    - Can you tab through the page and back to the beginning?
  - 2.2.2 Pause, Stop, Hide
    - Be careful with any animation or automatic movement!
  - 2.3.1 Three Flashes or Below Threshold
    - Any non-trivial blinking or flashing?

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Other Easy Checks

- Poor contrast between text foreground and background
- Missing and bad text alternative ("alt text") for images and graphics
- Improper heading structure (or none at all)
- Loss of meaning when screen magnified (at least up to 200%)
- Lack of form input labels
- Ambiguous links, redundant links, and empty links

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Scanning Tools

- Functional Accessibility Evaluator (FAE) from University of Illinois
  - http://fae.disability.illinois.edu

- ANDI (Accessible Name and Description Inspector) from SSA
  - www.ssa.gov/accessibility/andi

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WebAIM's WAVE
Web Accessibility Evaluation Tool

http://wave.webaim.org

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WAVE Facilitates Human Evaluation

Automated tools cannot tell you if a page is accessible or compliant, but they can help identify impactful issues

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If my site has issues, what do I do?

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Number One Strategy:
Be Proactive!

- Need commitment from leadership
- Designation of responsible individual(s)
- Make plans:
  – Assess
  – Remediate
  – Maintain
- Obtain necessary expertise
- Provide interim alternative access and services

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Remediating Your Website

- Accessibility is inexpensive if addressed in planning stage
- Develop a priorities remediation plan
  - Most visited pages?
  - Key services?
  - Can you address many pages with single template?
  - What issues have users raised?
- Develop maintenance plan

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Consider Third-Party Services

- What do you do for security, privacy, copyright?
  - Accessibility expertise can be developed in-house
- Numerous accessibility products, consultants, and firms available
  - Get a few quotes
- There is no formal credentialing

- W3C WAI offers guidance on selecting web accessibility evaluation tools
  - www.w3.org/wai/test-evaluate/tools/selecting

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Questions?

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and enter text in the Chat Area**

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Accessible Education Facilities
August 1, 2019

U.S. Access Board

(800) 872-2253 (voice)

(800) 993-2822 (TTY)

E-mail: 508@access-board.gov

www.access-board.gov

Advancing Full Access and Inclusion for All

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ADA & Websites

Department of Justice

800-514-0301 (voice)

800-514-0383 (TTY)

www.ada.gov

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**Thank you for participating
in today's webinar**

Next session (508 Series):

*Advanced Session: Evaluating Websites for
Accessibility under the Section 508 Standards*

September 24, 2019

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