Digital Access Basics: Break I.T. Down

1. Digital Access Basics: Break I.T. Down

Marsha Schwanke Presentation for Wisconsin ADA Coordinators – January 2024

IMAGES

- Starting point dot with curvy line going to access open heartshaped lock.
- People with disabilities, represented by four icons in a cube.
 - Top left: blind/visual disability: person using a white cane.
 - o Top right: mobility disability: outline of person in wheelchair.
 - o Bottom left: d/Deaf: outline of two hands signing.
 - Bottom right: Hard of hearing: ear with small sound waves entering and larger sound waves exiting.

2. Disclaimer

The information, materials, and/or technical assistance provided are intended solely as informal guidance and are neither a determination of your legal rights or responsibilities under the Americans with Disabilities Act (ADA), nor binding on any agency with enforcement responsibility under the ADA. Accessibility cannot be guaranteed for external websites. These links are provided as a courtesy, and are neither intended to, nor do they constitute, an endorsement of the linked materials.

The ADA National Network and its ten regional ADA Centers are funded by a grant from the the National Institute on Disability, Independent Living, and Rehabilitation Research (NIDILRR) to provide information, training, and technical assistance on the Americans with Disabilities Act (ADA).

For more information and questions on the ADA, contact your regional ADA Center in the ADA National Network via the national website at adata.org or by phone 1-800-949-4232.

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3. Why Digital Access?

Disability

- Aging and anytime.
- "Hidden" over Web.

Basic human right

 United Nations (UN) Convention on the Rights of Persons with Disabilities (CRPD)

Benefits

- · Essential for some, useful for all.
- Save \$\$, time, stress vs. retrofit.
- The Law avoid litigation.
- Flexible to tech, environment, and content not static.

IMAGE: World circled by four children holding hands.

IMAGE: Seven icons for disabilities: blind, visual, physical, learning/dyslexia, cognitive, d/Deaf, hard of hearing.

Left to Right:

- 1. Icon for blind: outline of person walking with white cane.
- 2. Icon for visual disability: outline of partially covered eye.
- 3. Icon for physical disability: outline of person pushing a wheelchair.
- 4. Icon for learning/dyslexia: question mark over outline of book.
- 5. Icon for cognitive disability: outline of head with brain.
- 6. Icon for d/Deaf: outline of two hands signing.
- 7. Icon for hard of hearing: ear with small sound waves entering and larger sound waves exiting.

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4. The "Word" on Digital Access

- Digital vs. Web accessibility.
- Search Engine Optimization (SEO)
- Define terms so on "same page."
 - #a11y = accessibility
 - AI = artificial intelligence
 - AT = Assistive Technology
 - CMS = Content Management System
 - LMS = Learning Management System
 - UD = universal design

IMAGE: Handheld magnifying glass.

5. WCAG: Web Content Accessibility Guidelines

- Four "P O U R" principles (<u>P</u>erceivable, <u>O</u>perable, <u>U</u>nderstandable, <u>R</u>obust)
- Guidelines
- > Success criteria Three compliance levels (A, AA, AAA)
- > Techniques

W3C Web Accessibility Initiative (WAI)

Web: w3.org/WAI

6. Digital Access and Americans with Disabilities Act (ADA)

- ➤ Is there an ADA compliance obligation for web access?
- ➤ **1990:** No technical standards as ADA passed before Internet widespread.
- No way to eval "ADA-compliant".
- But ADA is about:
 - non-discrimination
 - effective communication
 - equal access and equal opportunity

Guidance for Web Accessibility and ADA (March 2022)
Web: ada.gov/resources/web-quidance

IMAGES (2)

- ADA 34 (1990-2024). Americans with Disabilities Act. Celebrate the ADA! July 26, 2024.
- Seal for the U.S. Department of Justice (DOJ).

7. Digital Access and Legal Landscape: Cases and "Surf-By" Lawsuits

- Varying outcomes across state and federal courts.
 - Nexus between physical location and website.
 - WCAG often used or referenced as the standard.
- Some states and courts: "serial filings", "standing to sue."

Resources

- Research Briefs: Digital Access: ADA Title III, Higher Education Web: adata.org
- Court Decisions Briefs
 Web: adasoutheast.org
- Webinar Series: ADA Legal, Section 508

Web: accessibilityonline.org

• ADA Title III News & Highlights

Web: adatitleiii.com

Accessibility Legal Updates

Web: Iflegal.com

8. What is the User Experience?

Paragraph of four sentences with all words having mixed-up, out of order letters, except the first and last letter of each word are in the right place.

The text of the paragraph says: According to a researcher at Cambridge University, it doesn't matter in what order the letters in a word are, the only important thing is that the first and last letters be at the right place. The rest can be a total mess and you can still read it without problem. This is because the human mind does not read every letter by itself, but the word as a whole. Amazing huh!

The paragraph with the mixed-up letters in each word: Aoccdrnig to a rscheearchr at Cmabrigde Uinervtisy, it deosn't mttaer in waht oredr the ltteers in a wrod are, the olny iprmoetnt tihng is taht the frist and lsat ltteres be at the rghit pclae. The rset can be a tatol mses and you can sitll raed it wouthit porbeslm. Tihs is bcuseae the huamn mnid deos not raed ervey lteter by istlef, but the wrod as a wlohe. Amzanig huh!

IMAGE

 Curvy road leading to jumbled letters flowing from a stack of open books to a computer screen.

9. Videos: Web Accessibility Perspectives

- Video: 10 Web Accessibility Perspectives (7:36 min.)
 Web: youtube.com/watch?v=3f31oufqFSM
- > W3C WAI Web Accessibility Perspectives Videos Web: w3.org/WAI/perspective-videos/

IMAGE: Six photos collage of people with disabilities using the Web with various tools and in various environments.

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10. Checkpoints (8)

Road to digital access with eight checkpoints:

- > File ID
- > Writing
- > Structure
- > Color
- > Images
- > Links
- > Media
- Navigate

IMAGES: Eight checkpoints on yellow diamond-shaped signs. Top row (left to right)

- 1. File ID with icon: circled question mark.
- 2. Writing with icon: outline of sharpened pencil.
- 3. Structure with icon: four bulleted straight lines in a square.
- 4. Color with icon: rainbow with a cloud at each end.

Bottom (left to right)

- 5. Images with icon: outline of sun and mountains on top of two overlapping rectangles.
- 6. Links with icon: square with arrow pointing out from the center to the top right corner.
- 7. Media with icon: rectangular comment bubble with six straight lines.
- 8. Navigate with icon: four arrows pointing out to top, right, bottom, left.

11. File ID: Source and Properties

> From the start, accessibility depends on the program and structure in creating the file.

> Add/Edit File Properties

- **Title:** descriptive and must be completed for accessibility.
- Author: auto-populates with username from which file created; review for accuracy.
- · Language

IMAGE: Road leading to yellow diamond-shaped sign with the words: File ID and an Icon: circled question mark.

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12. Writing: Plain Language

- Use clear, concise, well-organized writing.
- Check readability (built-in, free tools)
- Keep it simple and standard K.I.S.S. Principle

Resources

- <u>Plain Language Guidelines</u> plainlanguage.gov
- Archive: Plain Language: Accessibility for Content digital.gov
- <u>Easy Read Resources Guide</u>
 Web: autisticadvocacy.org/resources/accessibility/easyread/

IMAGE: Road leading to yellow diamond-shaped sign with the words: Writing and an Icon: outline of sharpened pencil.

13. Writing: Font

- > Limit: ALL CAPS "shouting", italics and scripts
- > Size
 - Body text: minimum 12 pt (16 px)
 - Footer: minimum 9 pt (12 px)
 - PowerPoint: minimum 24 pt (32 px)
 - Large print: 18 pt (24 px) or larger
- > **Font:** serif vs. sans-serif

IMAGE: The letter F in two different fonts. Left: The letter F in serif font with the serifs of the letter circled in red. Right: Letter F in sans-serif font. Credit: Serif vs. Sans for Text in Print | Fonts.com

14. Road Block 1: Hearing vs. Seeing.

IMAGE: Example for visual eye tracking of a webpage. There are red dots connected by lines to different sections and information. The pattern of dots and lines is like letter the Z, going from left to right, top to bottom.

15. What is a screen reader?

Translates text, code (markup), functions

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- Text-to-speech (TTS)
- Refreshable Braille display
- Control by keyboard, tactile or voice.
- > Examples of screen reader
 - Stand-alone: JAWS, NVDA (only Windows)
 - "Built in": VoiceOver (Mac), Narrator (Windows)
 - Mobile: Talkback (Android), VoiceOver (Apple iOS)

IMAGES (2)

- Left: The word "Hi" is spoken from the text "Hi" displayed on a computer screen.
- Right: Refreshable Braille Display.

16. Road Block 1A: Wall of Text

Excerpt of text with no formatting or structure: What is the Americans with Disabilities Act (ADA)? The ADA became law in 1990. The ADA is a civil rights law that prohibits discrimination against individuals with disabilities in all areas of public life, including jobs, schools, transportation, and all public and private places that are open to the general public. The ADA is divided into five titles (or sections). Title I (Employment) Equal Employment Opportunity for Individuals with Disabilities. This portion of the law is regulated and enforced by the U.S. Equal Employment Opportunity Commission. Title II (State and Local Government). Nondiscrimination on the Basis of Disability in State and Local Government Services. This title outlines the administrative processes to be followed, including requirements for self-evaluation and planning; requirements for making reasonable modifications to policies, practices, and procedures where necessary to avoid discrimination; architectural barriers to be identified; and the need for effective communication. This title is regulated and enforced by the U.S. Department of Justice...

Source: ADA National Network - What is the ADA?

Web: https://adata.org/learn-about-ada

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17. Structure: Headings (slide 1 of 2)

Use to organize and navigate content.

IMAGES (4)

- ➤ How a document appears visually styled with headings and paragraphs layout compared to how a documents appears using a screen reader as a single long block of text with no formatting.
- ➤ Outline of Heading 1 (largest) to Heading 5 (smaller). Each heading level is smaller sized font and below the previous heading level.
- ➤ A conceptual line showing a document with a start and an end with numerous types of markers on the line showing how AT jumps to and from headings, images, and tables.
- Yellow diamond-shaped sign with the word: Structure and an Icon: four bulleted straight lines in a square.

18. Structure: Headings (slide 2 of 2)

Required use

WCAG Web Accessibility Tutorials > Page Structure >
 Headings
 w3.org/WAI/tutorials/page-structure/headings/

> Tips in Writing

- Users often read only first 3-4 words of headline.
- Lines: 60-100 characters.
- Sentence: <= 20 words.
- Paragraph: <= 5 sentences.
- Plain Text Document format so structure can be determined.
 - Double blank lines before titles, headings.
 - *Asterisks to indicate list items.
 - Other standard formatting conventions.

IMAGES: Road leading to yellow diamond-shaped sign with the word: Structure and an Icon: four bulleted straight lines in a square.

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19. Structure: Styles Pane, Tools, Templates

> Headings/Content.

Example: Styles Pane in Microsoft Word with six different styles (Clear Formatting, Heading 1, Heading 2, Heading 3, Normal, List).

> Lists.

Example: Icons for Lists (numbered, bulleted) circled in toolbar of Microsoft Word.

- Templates and Slide Master
- Style Sheet (cascading style sheet CSS)

20. Structure: Email Tips

- > **Subject lines**: make descriptive.
- > **Font:** minimum font size (14px), sans serif fonts
- > **Spacing:** 1.15 to 2 and left-justify
- > Check: Zoom-in to 200%
- Use built-in functions and tools.
 - Example: Screenshot: Toolbar in Microsoft Outlook.

21. Navigate: PowerPoint Slide Order

Reading Order Pane

- > Toolbar: Review > Check Accessibility > Reading Order Pane
- > REVIEW: Top to Bottom reading order

Selection Pane

- > Toolbar: Arrange > Selection Pane.
- > **REVIEW: Bottom to Top** reading order

IMAGES

Reading Order Pane

- A red box around the Reading Order Pane tools in the dropdown menu of Check Accessibility in PowerPoint.
- Reading Order Pane in PowerPoint with red arrow pointing down (top to bottom) to show reading order of the numbered elements in the slide.

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Selection Pane

- A red box around the Selection Pane tools in the dropdown menu of Arrange in PowerPoint.
- Selection Pane in PowerPoint with red arrow pointing up (bottom to top) to show reading order of elements in the slide.

22. Structure: PDF Tips

- > **Start:** accessible source file.
- > **Tags pane:** check reading order and structure.
- > **Save often!** Changes made cannot be undone.
- > **Reflow view:** single-column layout based on content order.
- > Table Inspector
- > Images (decorative)
 - Use background / artifact in Reading Order tool vs. setting under alternate text.
- > Accessibility Checker: built-in feature.

Make Accessible Action Wizard: if scanned or untagged PDF

23. Road Block 1B: Table without Structure

Where do I go for Biology 205?

Table with 10 columns and 7 rows. Department Code, Class Number, Section, Max Enrollment, Current Enrollment, Room Number, Days, Start Time, End Time, Instructor, BIO, 100, 1, 15, 13, 5, Mon., Wed., Fri., 10:00, 11:00, Magde, 100, 2, 15, 7, 5, Tue., Thu., 11:00, 12:30, Indge, 205, 1, 15, 9, 6, Tue., Thu., 09:00, 10:30, Magde, 315, 1, 12, 3, 6, Mon., Wed., Fri., 13:00, 14:00, Indge, BUS, 150, 1, 15, 15, ...

Source: WebAIM Tables

Web: https://webaim.org/techniques/tables/

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24. Structure: Tables

> Best Practices

- Only use for data, not for layout.
- Avoid split or merged table cells.
- Design: color contrast, line styles, spacing
- > **Description:** summary, caption, alt-text
- > **Identify:** header row(s), colspan and rowspan

Example: Family Birthdays

Table with 3 columns and 3 rows. The name, age, and birthday for Fred and Pebbles. Fred, 55, 5/5/55. Pebbles, 2, 2/21/2021. The table header row has a green background with bold white text. The table data rows have black text on alternate background colors of light green and gray. The first table data cell in each row has bolded text and is marked as a table header.

IMAGE: Screenshot of table design checkboxes from Microsoft Office. Arrow from checked box of header row pointing to header row in table. Two arrows from checked box of banded rows pointing to the two data rows in the table with different background colors.

25. Road Block 2 Images without alternative text

Order your free food. kwajex.gif [INLINE] [INLINE] [INLINE] [INLINE] [INLINE] [INLINE] IMAGE

- The filename of kwajex.gif displays for an image with no alt-text.
- All images with no alt-text display only as repeated lines of [INLINE] [INLINE] [INLINE] [INLINE] [INLINE]

26. Images: Alternative-text (alt-text) is required.

- > Read by screen readers.
- Displays if image unavailable due to disability, technology, environment, or situation.

IMAGE: Screenshot of header image for Federal Concepts Module with arrow pointed to "alt-text" of this image - Federal Court Concept

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27. Images: If "Decorative" (no information)

Don't describe

- If spacer, background, or bullet image.
- If image repeats surrounding text.
- If image would be same as link text.

Mark as decorative, set to be "null"

Example: Red arrow pointing right to a checkbox "mark as decorative" from Microsoft Office when set Alt Text for Images, Objects, and Non-Text Elements.

28. Images: Testing and Writing Alt-Text

- Think about Three C's Convey, Concise, Context
- Use proper punctation.
- > Check with tool and user review.

Source: W3C WAI Images Tutorial and alt Decision Tree

IMAGE: Decision Tree:

- Image Purpose. Decorative or Informative?
- If decorative: Two options:
 - Use alt = ""
 - Use CSS
- If informative: Five options:
 - Picture: Use a name or a short description.
 - o Text: Repeat text word-for-word.
 - Complex Data: Provide an overview.
 - Symbol: Identify essence or purpose.
 - o Functional Image: Emphasize action or link purpose.

29. Images: Avoid AI / automatic

- ➤ Example: Red arrow pointing right to a button to "Generate a description for me" from Microsoft Office when set Alt Text for Images, Objects, and Non-Text Elements.
- > Examples:

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- Alt Text that was AI-generated for an image = "A person wearing a suit and tie" Description automatically generated [Actual image: The man in the image is not wearing a tie nor a suit. Man is wearing a blue jacket over blue-striped white shirt and gray pants.]
- Alt Text that was AI-generated for an image = "A QR code with a green text"
 Description automatically generated [Actual image: QR code - scan to register for webinar.]
- Alt Text that was AI-generated for an image = "A close up of text on a white surface" Description automatically generated [Actual image: Job Descriptions - white label on a brown file folder.]
- Alt Text that was AI-generated for an image = Logo Description automatically generated [Actual image: ADA 34 (1990-2024) Americans with Disabilities Act - Celebrate the ADA! July 26, 2024]

30. Road Block 3: Color Contrast

My food allergies are highlighted in red.

• Nuts, Gluten, Tomates, Bananas, Peppers

IMAGE: Text is white on green background. No red is displayed as cannot be seen due to color blindness.

31. Color: Testing

- Check color alone not required to understand content.
 - Bad: Information in **green** is required.
 - Good: *Required fields
- > WCAG 2.1 AA: 3:1 large text and 4.5:1 normal text
 - Normal text: 12 pt /16 px or bold, 9 pt /12 px
 - Large Text: > 18 pt / 24px or bold, 14 pt /18 px

IMAGES (2)

- Icon for bad (red X).
- Icon for good: green checkmark

32. Color: Testing Tools

- Check for text, links, images.
 - View in grayscale
 - Color contrast checker
 - Color blindness simulator
 - Accessible color palettes
 - Built-in tools
- > Example:

Colour Contrast Analyzer (CCA)

Web: tpgi.com/color-contrast-checker/

 Screenshot of Colour Contrast Analyzer Tool showing Foreground and Background colours (HEX #, RGB numbers and sliders to adjust for red/green/blue/alpha), Sample preview and WCAG 2.1 results.

33. Color: Alternatives

- > Line Styles
- Fill Colors (Contrast)
- > Fill Pattern
- Fill Texture
- Labels
- > Shapes
- Alt-text / Actual Text

34. Color: Example: Bar Graph with Fill Textures

IMAGES (2)

- 1. LEFT: Bar graph of three series of three categories. Each category has a different fill color (red, green with diagonal lines, white). The fill texture of diagonal lines for green category provides contrast to the adjacent red category.
- 2. RIGHT: Grayscale view of Bar graph of three series of three categories. Each category has a different fill color (dark gray, gray with diagonal lines, white). The fill texture of diagonal lines for the middle category provides contrast to the adjacent dark gray and white categories.

35. Color: Example: Map

IMAGES (3)

- 1. Left: Map of United States with different colors for ten regions and U.S. territories of Virgin Islands, Puerto Rico, and Pacific Basin.
- 2. Top Right: Greyscale view of United States map with different shades of gray for ten regions and U.S. territories of Virgin Islands, Puerto Rico, and Pacific Basin.
- 3. Bottom Right: Greyscale view of U.S. map with circled region number and space between the ten regions and U.S. territories of Virgin Islands, Puerto Rico, and Pacific Basin. The spacing between each region and having the region number in white color on a dark circle provides increased contrast to easier id the different regions.

36. Road Block 4: Links that are not descriptive

Note: The links in this example are not active links.

You are a winner!

- > Click here
- > To learn more
- > And here
- > Download

> Form: www.register-pdf.com

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37. Links

- > #1 interaction visually scanned and in content underlined
- Is link distinct & informative on its own?
- > Avoid web address as the link.
- > Are users informed if opening new window?
- Broken? Run link checkers to identify and fix.
- Is the file type in the link if goes to non-web files?
 Registration Form [PDF]

IMAGES (2)

- Icon for PDF file visually displayed and located before the link to "Registration Form [PDF]"
- Road leading to yellow diamond-shaped sign with the word: Links and an Icon: square with arrow pointing out from the center to the top right corner.

38. Road Block 5: Media with no alternative.

Video with no sound or captions and only American Sign Language.

IMAGE: Screenshot from FEMA video: Person wearing a dark blue collared shirt with words FEMA and the FEMA logo. In the background is the United States flag and the logo for FEMA on a blue background.

NOTE: For presentation: sound and captions of video are turned off. Video Source: Federal Emergency Management Association (FEMA).

Web: https://www.youtube.com/watch?v=Dx7qPoCTdaE

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39. Media: Captioning (CC)

- > Captions: synchronized, equivalent, available
 - Captioning box: contrast and position not overlap.
- > **Transcript:** text alternative to audio.
 - Identify speakers and include sounds.
 - Most tools have option to export plain text transcript.
 - Format to make more useful (lists, paragraph, headings).
- > Interactive transcripts: text highlighted when spoken
 - If select text in transcript, then go to that point in media.
 - · Feature of media player uses captions file.

> Video player

IMAGE: Video player with accessible controls. Able Player is accessible cross browser video player that supports audio and video.

- + Play= one triangle pointing to right
- + Replay = half circular pointing arrow
- + Go Back = two triangles pointing left
- + Fast Forward = two triangles pointing right
- + Slow speed = turtle icon
- + Fast speed = rabbit icon
- + Captioning = two letters, CC
- + Audio description = letter D with three curved sound wave lines
- + Transcript = square with 3 straight lines

IMAGE: Road leading to yellow diamond-shaped sign with word Media and an icon: rectangular comment bubble with six straight lines.

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40. Media: Audio Description

Example: Pip [Audio Description] [YouTube, 4:04 min..] youtube.com/watch?v=KqANNQDqkAc

Resources

- Video: Audio Description in a Couple Minutes
 Source: YouTube Channel Rooted in Rights
- Best Online Video Players for Audio Description
 Note: Limited support.
- How to Add Audio Description (W3C Approved Technique)
 Source: 3playmedia.com

IMAGE: Screenshot from video - Pip: Animation of white dog with blue eyes facing forward and standing on a sidewalk. In the background, there is a blue sky, two trees, and construction signs on a road.

41. Media: Example: Transcript with Visuals Description

Two column table with text transcript of audio and visual descriptions for the Video: Web Accessibility Perspectives: Video Captions.

- Web Accessibility Perspectives: Video Captions.
 Visual: Web Accessibility Perspectives: Video Captions.
- Video isn't just about pictures, it's also about sound. Without the audio, you would have to guess what this film is about. Visual: A man sat at a desk starts watching a video on his computer.
- ➤ [no sound] Visual: The video on his computer shows a person speaking to the camera. It is playing with no audio.
- > Frustrating, isn't it? Not knowing what's going on. That's the situation for everyone who can't hear.

 Visual: The man watching the video has a hearing aid.
- Captions make videos accessible.
 Visual: He turns on captions for the video playing.

Web: w3.org/WAI/perspective-videos/captions/#transcript

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42. Media: More Captioning

- > Real-time or Live Captioning
 - Communication Access Realtime Translation (CART)
- > Social media captions
 - About 85% of people watch videos ON MUTE.
- > Video conferencing captioning
 - Within platform or external in web browser (StreamText)
- Auto-generated intelligence (AI)
 - Review and edit so don't have "craptions."

43. Social Media

- > **Message:** Be brief and consistent across platforms.
 - + Think: what you post may disclose disability.
- > Images: alt-text
- Links: put near end of post; shorten web address
- ➤ **Hashtags:** use CamelCase #ADANetwork

Tool Kit:

Improving Accessibility of Social Media in Government

Web: digital.gov/resources/

IMAGE: Collage of social media icons.

44. Road Block 7: Accessibility Testing

Accessibility Tool Evaluation

100% Passed = **100%** Accessible

Congratulations! No errors were detected.

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45. Passing the Access Test

- User testing and actual human review.
- Check to accessibility standards (WCAG, Section 508).
 - Include from start and as continual process.
- Tools good start but can't do EVERYTHING.
- Access snapshot vs. "one and done."
- > Avoid "quick-fix" overlays.
 - Often conflicts and duplicative of assistive technology.
 - Doesn't really address access at its core.

IMAGE: Curvy road leading to sign for "passing the test" - a red circle with green checkmark in gray checkbox.

46. Passing the Access Test: Manual Quick Checks

- Everyone has role not just the "techie."
- Do manual checks.
 - Check file properties (title, author, language).
 - "Run a tab" keyboard only (no mouse).
 - Zoom in (+) / out (-) view to 200%.
 - · View on different devices and screen sizes.

47. Navigate: Test with Screen Reader

- Check order and features to access.
 - Headings
 - Links
 - Form Fields
 - Menus
- Resources
 - <u>Using NVDA to Evaluate Web Accessibility</u>
 Web: webaim.org
 - Getting Started Testing with NVDA Web: accessibility.huit.harvard.edu

48. Navigate: Test forms and CAPTCHA

- Completely Automated Public Test to tell Computers and Humans Apart (CAPTCHA)
- > Types: image, word, audio, logic ?s, challenge
- > Examples of CAPTCHA
 - reCAPTCHA
 - Audio Verification
 - Image with distorted letters
 - Word Verification (text)

IMAGES (3)

- Left: Screen shot of simple CAPTCHA with a single checkbox.
- Right: Screen shot of visual captcha.
- Bottom: Screen shot of window with interface for audio CAPTCHA.

49. Roadmap to Digital Access Is...

"... is in its universality. Access by everyone, regardless of disability, technology, or environment is an essential, integral aspect of life."

Source: Tim Berners-Lee, W3C Director, Inventor of Web IMAGES (4)

- Hand in hand with usability and inclusion.
 - Shown by two hands interlocking above the text: Usability & Inclusion.
- ➤ Everyone not just the "techie Each person can help and is a connection in communication.
 - Shown by 6 circles with different color outlines of people connected by black lines.
- " Not a one-time checkbox Include from the start & as continual process.
 - Shown by green checkmark in a box covered by circle with diagonal line which indicates "no."

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- > Think outside the box.
 - Shown by the word THINK in bold upper-case letters above a solid color box.

50. Heart of Digital Access

First and foremost is real people.

Access to: Get information. Learn. Work. Communicate.

IMAGES (5)

- Center: Red heart above the graphic: Get Information. Learn.
 Work. Communicate.
- Top Left: Learn: Three students gathered around a computer screen, two of the students are wearing headphones with mics.
- Bottom Left: Get Information: Older man and older woman smiling and looking at each other.
- Top Right: Communicate: A man using sign language.
- Bottom Right: Work: A man wearing a suit walking through a library while holding the harness of a service animal.

51. Contact

ADA National Network

Phone: 1-800-949-4232 **Web**: <u>adata.org</u>

Connect & Follow

- <u>LinkedIn @ada-national-network</u>
- Facebook @ADANetwork
- Twitter @ADANational

Great Lakes ADA Center

Phone: 312-413-1407 Web: <u>adagreatlakes.org</u>

Connect & Follow

- <u>LinkedIn @great-lakes-ada-center</u>
- Facebook @ADAGreatLakes
- Twitter @ADAGreatLakes

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More Resources for Digital Access and Testing Resources: ADA National Network

 Guidance on Web Accessibility and the ADA Web: ada.gov/resources/web-guidance/

ADA National Network

Web: adata.org

- Digital Access and ADA Title III
- Digital Access for Students in Higher Education and ADA
- OCR Video Series: Digital Access in Education Web: adata.org/ocr-videos
- ADA Title II Action Guide for State and Local Government Web: adaactionguide.org
- <u>Digital Access Think. Explore. Learn. Share.</u> Web: adasoutheast.org

Navigate: Quick Access Review

- 1. What is title or name (site, page, file)?
- 2. What are the major sections (headings)?
- 3. What are my options at this level (menu, links)?
- 4. Where am I in the scheme of things (page, breadcrumb)?
- 5. How can I search?
- 6. Is there easily to find contact information?
- 7. How to report access problems or request accessible services and information?

Resources: Passing the Access Test

- Built-in Tools" to program or system to check accessibility"
- W3C Web Accessibility Test & Evaluate
 Web: 3.org/WAI/test-evaluate
- <u>Easy Checks First Review of Web Accessibility</u>
 Web: w3.org/wai/test-evaluate/preliminary
- Quick Reference: Testing Web Content for Accessibility
 Web: webaim.org/resources/evalquickref

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Examples: Auxiliary Aids and Services for People Who Are Blind or Visually Impaired

- Qualified readers
- Audio recordings
- Braille materials and displays
- Screen reader software
- Magnification software
- > Large print materials
- > Accessible electronic and information technology

IMAGE: Curvy road.

Examples: Auxiliary Aids and Services for People Who Are Deaf or Hard of Hearing

- Qualified interpreters (on-site or via video remote interpreting (VRI) services).
- Exchange of written notes.
- Real-time computer-aided transcription services (CART).
- Assistive listening devices and/or systems.
- Open and closed captioning (CC).
- > Accessible electronic and information technology.

IMAGE: Curvy road.

Disclaimer

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For more information and questions on the ADA, contact your regional ADA Center in the ADA National Network via the national website at adata.org or by phone 1-800-949-4232.

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