

The Americans with Disabilities Act (ADA) and Web Sites: What is Required?



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Information, Guidance and Training on the American with Disabilities Act



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- Real-time captioning is provided during this webinar.
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- If you are listening by phone you will be instructed by the Operator on how to ask a question.
- Webinar participants may type and submit questions in the Chat Area Text Box or press Control-M and enter text in the Chat Area. You will not be able to see the question after you submit it but it will be viewable by the presenters.
- If you are connected via a mobile device you may submit questions in the chat area within the App
- Questions may also be emailed to webinars@ada-audio.org



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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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The Americans with Disabilities Act (ADA) and Web Sites: What is Required?


web accessibility in mind

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8.5% of the population has a disability that affects computer use

...does not include those with cognitive/learning disabilities, color blindness, etc.

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Google is blind

...and deaf

...and can't use a mouse

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Do you use a form of assistive technology?

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WCAG 2

- Principles based
 - Perceivable
 - Operable
 - Understandable
 - Robust
- Principles (POUR) > Guidelines > Success Criteria
- Success Criteria are assigned levels – A, AA, or AAA
- WCAG 2.0 finalized in 2008
- WCAG 2.1 finalized June 2018.

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WCAG 2 Checklist

Principle 1: Perceivable
Web content is made available to the senses - sight, hearing, and/or touch

Guideline 1.1 Text Alternatives
Provide text alternatives for any non-text content

Success Criteria	Recommendations
1.1.1 Non-text Content (Level A)	All images, form image buttons, and image map hot spots have appropriate, equivalent alternative text. Images that do not convey content, are decorative, or contain content that is already conveyed in text are given null alt text. For implemented as CSS backgrounds, all linked images have descriptive alternative text. Equivalent alternatives to complex images are provided in context or on a separate linked page. Form buttons have a descriptive value. Form inputs have associated text labels. Embedded multimedia is identified via accessible text. Frames and iframes are appropriately titled.

Guideline 1.2 Time-based Media
Provide alternatives for time-based media

NOTE: If the audio or video is designated as an alternative to web content (e.g., an audio or sign language version of a web page, for example), then the web content itself serves as the alternative.

Success Criteria	Recommendations
1.2.1 Documented Prerecorded Audio (Level A)	A descriptive text transcript that includes relevant auditory content is provided for non-live audio-only (audio podcasts, MP3 files, etc.).
1.2.2 Documented Prerecorded Video (Level A)	A descriptive text transcript or audio description is provided for non-live video-only (e.g., video that has no audio track), unless the video is decorative.
1.2.3 Documented Live Video (Level AA)	Synchronized captions are provided for non-live videos (YouTube videos, etc.).

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Your site can be compliant,
yet inaccessible

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Your site can be technically accessible,
yet functionally inaccessible

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Accessibility > Compliance

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Section 508

- Applies to federal government.
- Agencies may require compliance for recipients of federal funds.
- Many states have adopted Section 508 guidelines as state law
- Updated January 2018 to incorporate WCAG 2.0 A/AA
- VPAT – Voluntary Product Accessibility Template

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Americans with Disabilities Act

- Pre-dates the web
- Title I – Employment
- Title II - State and local governments
 - Including education
- Title III - Public and commercial facilities
 - “Places of public accommodation”

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What is required?

Don't discriminate based on disability!

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Americans with Disabilities Act

- Does not define technical standards for web accessibility
- Lawsuits, complaints, and DOJ settlements require WCAG 2.0 A/AA
 - Are starting to shift to WCAG 2.1 A/AA

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ADA Compliant?

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Legal Requirements – WCAG 2.1

- California GC § 11546.7
 - State agencies and entities
 - WCAG 2.0 “or a subsequent version”
 - July 2019
- European Union EN 301 549
 - New websites: September 2019
 - All websites: September 2020

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Minimizing Risk

- Ensure your content is accessible
- Have a policy and implementation plan in place
 - Samples at ncdae.org/goals
- Address automatically detectable errors

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Auditory Disabilities



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1. Provide captions for video & live audio.
2. Provide text transcripts for all audio content.

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Transcription Methods

- Typing
- Stenographer or "Shadow Speaker"
- Automated captioning



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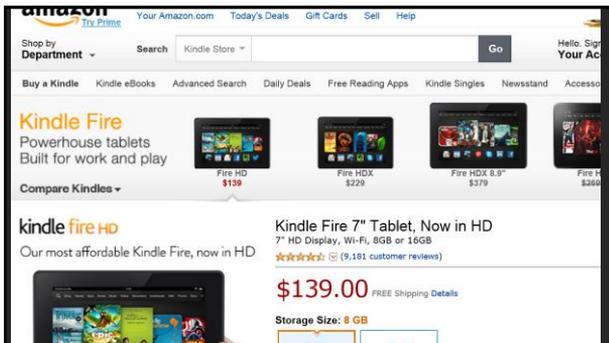
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What are additional benefits of captions and transcripts?

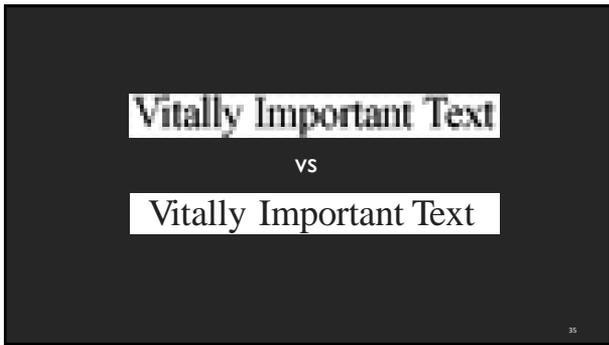
30

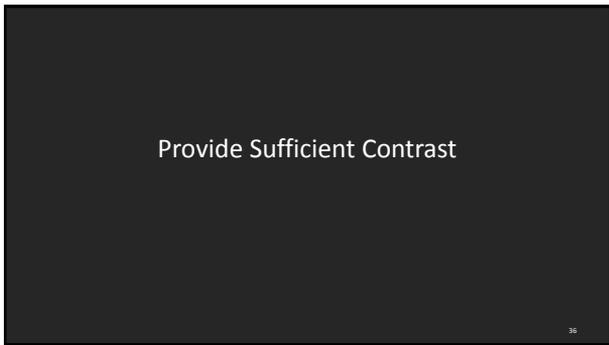












Inverted and High Contrast



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WCAG Contrast Formula

$$(L1 + 0.05) / (L2 + 0.05)$$

where

$$L = 0.2126 * R + 0.7152 * G + 0.0722 * B$$

where

R, G, and B =

$$R_{sRGB} \leq 0.03928 \text{ then } R = R_{sRGB} / 12.92$$

$$\text{else } R = ((R_{sRGB} + 0.055) / 1.055) ^ 2.4$$

where

$$R_{sRGB} \leq R_{8bit} / 255$$

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21:1

21:1

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Level AA Contrast Examples

4.5:1

3:1 – “Large” text

Gray (#767676) on White

≥18pt (24px)

Purple (#CC21CC) on White

Red (#F30000) on Yellow (FFFF00) **BOLD: ≥14pt (18.67px)**

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WebAIM Contrast Checker

webaim.org/resources/contrastchecker/

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WCAG 2.1: Non-text Contrast

- Level AA
- 3:1 contrast of:
 - User Interface Components
 - Including states (keyboard focus indicators, hover states, etc.)
 - Graphical Objects
 - Images, icons, etc.

I have read and agree to the [Terms of Use](#)



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Color Reliance

The green mushrooms listed here are okay to eat. The red mushrooms will kill you.

- Amanita
- Chanterelle
- Porcini
- Shiitake
- Tylopilus

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Color Reliance

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Screen Reader Users

- Not all screen reader users are completely blind.
- Most have low vision.
—45% of respondents to our low-vision survey use a screen reader.
- Some users have a reading or cognitive disability.

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Structure and Semantics

- Provide proper alternative text for images
 - Content and Function
- Use headings appropriately
- Define page regions (header, footer, main content, navigation, etc.)

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Structure and Semantics

- Associate label text to form inputs
- Associate table headers to data cells
- Provide a descriptive page title
- Define the document language

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Operable

- Ensure functionality is available via the keyboard
- Make keyboard accessibility efficient
- Ensure keyboard users can see where they are at within the page – provide focus indicators/outlines

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Operable

- Provide meaningful link text (avoid “click here”, “more”, etc.)
- Provide a “skip” link to facilitate keyboard navigation

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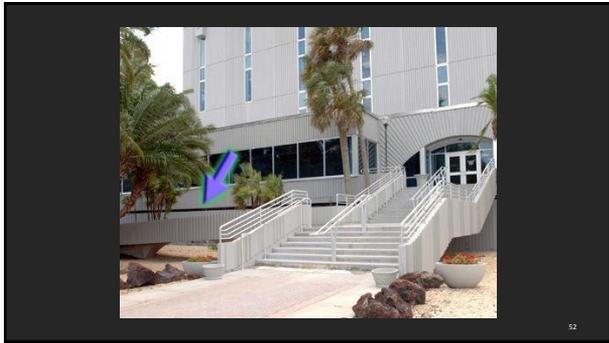
Understandable

- Consider reading level and legibility. Use good design.
- Simplify and be consistent
- Avoid animation, carousels, and auto-playing video
- Conduct usability testing with users with disabilities

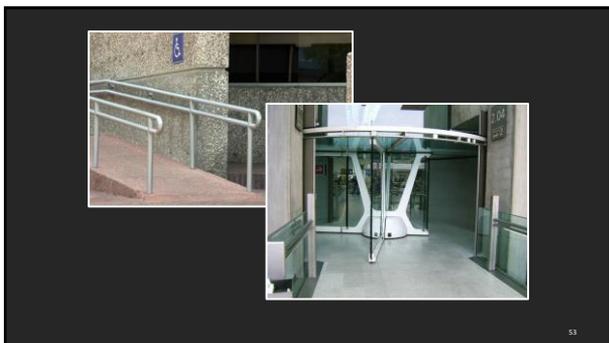
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“For people without disabilities, technology makes things convenient, whereas for people with disabilities, it makes things possible.”
- Judy Hueman

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Thank You!

<http://webaim.org>

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Next Webinar

April 16, 2019

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