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1

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2

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3

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4

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5

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6

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7

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8

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9

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- Email: info@adaconferences.org; or
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10

Welcome

This webinar is part of a series showcasing "Best Practices in Federal Section 508 Implementation". Other presentations can be viewed at:

- www.adaconferences.org/CIO/archives and
- www.fedlink.org/allqual/resource-shared-webinars.htm

- A best practice is a policy, process, procedure or technique proven effective over time and repeatable by multiple agencies.
- A best practice is generalized so that diverse agencies may use it in their own organizations but specific enough to provide useful guidance and instruction.
- The CIO Council's Accessibility Community of Practice has published a library of 508 Best Practices at www.Section508.gov.

11

Section 508 Best Practices Webinars

Webinars are bi-monthly:

- January, March, May, July, September, November

Next Webinar: July 30, 2019

- Topic: Accessible Documents-- PDF
- Time: 1:00 to 2:30 p.m. Eastern

This webinar series is a collaborative program between the Accessibility Community of Practice of the CIO Council and The U.S. Access Board.

12

This webinar is brought to you by



13

Trusted Tester Version 5.0

Cynthia Clinton-Brown
Cynthia.Clinton-Brown@hq.dhs.gov

Kathy Eng
eng@access-board.gov

14

Agenda

- DHS Trusted Tester
- Why Trusted Tester v5?
- Approach to developing TTv5 and Goals
- TTv5 Highlights and ANDI
- Where are we today?
- More about the Baseline

15

DHS Trusted Tester

- 2013
 - DHS & SSA established how to determine Section 508 conformance of Web and Software
- 2014
 - Instructions for Web and Software testing
 - Supported IE (then added Chrome and Firefox)
 - Instructions for test tools: WAT, CCA, WAF, etc.
 - Test Results report tool
- Over 1300 Trusted Testers
 - Instructor-led classroom until 2015
 - Online 2014 to 2018

16

DHS Trusted Tester 3.x/4.x

- Manual Section 508 Conformance Test Process for Web and Software
 - Aligned to original Section 508 requirements
 - Decommissioned online training and certification on **9/30/2018**
- Federal CIO Council Accessibility Best Practice Subcommittee approved the Harmonized Baselines and Trusted Tester Processes
- 1300+ Trusted Testers worldwide

17

Why DHS Trusted Tester v5?

- Section 508 Standards Refresh in Jan 2017
- Growing preference for broader range of operating environments
- Growing need for collaboration and growth of open-source tools
- HTML5 and ARIA advancement

18

Approach to developing DHS TTv5

1. Establish Interagency Workgroup
2. Align to Revised Section 508 Standards
3. Create new Baseline to align with Revised Standards
4. Identify/develop test tools
5. Create new Test Process
6. Develop online training and certification exam tracks

19

DHS Trusted Tester v5 Goals

- Adherence to the WCAG Success Criteria and conformance requirements
- Development of tool-agnostic requirements (Harmonized Baseline)
- Development of a tool-specific test process (Trusted Tester)
- Comprehensive test coverage of the requirements
- Unambiguous test result determinations
- Breakout Web and Software components to create separate test processes

20

DHS TTv5 Highlights

21

DHS TTv4 Testing Approach

- Each accessibility coding technique checked for an element
- Example: element
- Tools used: WAT and WAF, aria favelet
- Check EACH techniques used to achieve conformance with a different tool:
 - ALT
 - ARIA (aria-labelledby, aria-label, aria-describedby)
 - TITLE
 - LONGDESC

22

Accessible Name and Description

- Properties of an element computed by browser and provided for assistive technology
 - **Accessible Name:** the name of the user interface element
 - **Accessible Description:** provides additional information about an interface element, complements the accessible name
- W3C Specifications
 - HTML Accessibility API Mappings
 - (<https://www.w3.org/TR/html-aam-1.0/>)
 - Accessible Name and Description Computation
 - (<https://www.w3.org/TR/accname-1.1/>)
 - Accessible Rich Internet Applications (ARIA)
 - (<http://www.w3.org/TR/wai-aria-1.1/>)

23

Accessible Name - img

img Element Accessible Name Computation

1. (ARIA) The **img** element's valid [aria-labelledby](#) attribute.
 - Next is a non empty [aria-label](#) attribute.
2. (ALT) Otherwise use **alt** attribute
3. (TITLE) Otherwise use **title** attribute
4. If none of the above yield a usable text string there is no [accessible name](#)

24

Accessible Description - img

img Element Accessible Description Computation

1. (ARIA) The element's valid [aria-describedby](#) attribute.
2. (TITLE) Otherwise use the [title](#) attribute if it wasn't used as the [accessible name](#).
3. If none of the above yield a usable text string there is no [accessible description](#).

(Note: LONGDESC is not a part of the computation.)

25

ARIA-ROLE in HTML

- The ROLE of an element determines the accessible name and description computation that will be used.
- These attributes hide an `` from assistive technology and should only be used for decorative images:
 - `Role="presentation"`
 - `Role="none"`
 - `Aria-hidden="true"`
- `Role="img"` assigns properties of an image to an element

26

Tester, compute the accessible name and description...of everything



27

ANDI to the Rescue!

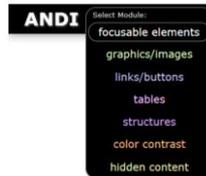
- ANDI (Accessible Name & Description Inspector) is a free tool to test web content for accessibility.
- U.S. Social Security Administration



28

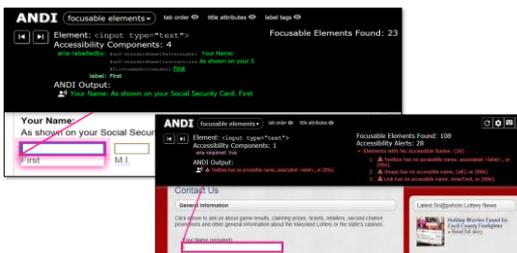
ANDI Features

- Browser bookmarklet
- Computes accessible name and description
- Accessibility Alerts for Developers
- Modules for testing



29

ANDI: focusable elements



30

ANDI: graphics/images



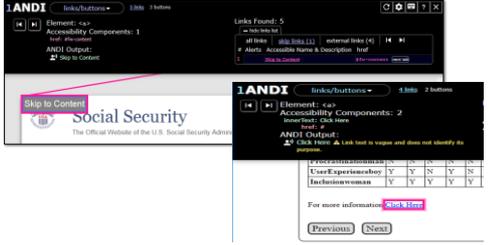
31

ANDI: tables



32

ANDI: links/buttons



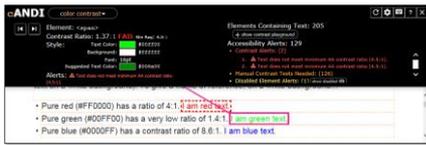
33

ANDI: structures



34

ANDI: color contrast



35

Get ANDI

Install ANDI

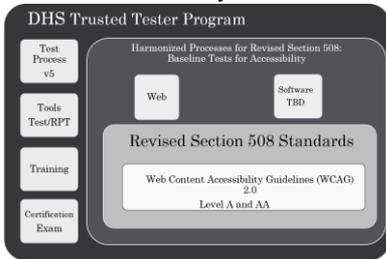
- <https://www.ssa.gov/accessibility/andi/help/install.html>

ANDI is open source

- <https://github.com/SSAgov/ANDI>
- Contribute to the project
- Secure networks and opting out of auto-updates
- Integrate into existing tools

36

Where are we today?



37

DHS Trusted Tester Program Status

2018

- Trusted Tester Process v5.0 created
- Online training Self-Registration and Enrollment
- Trusted Tester Track created
 - FAC049 – "What is Section 508" course
 - FAC051 – "WCAG Standards" course

2019 Spring

- Trusted Tester Process training course for Web
- Tools installation course for Web
- Practice Exam and Certification Exam for Web
- Accessibility Conformance Reporting Tool (ACRT)

38

More about the Baseline

39

Harmonized Baseline for Web

- Interagency effort
- Documented understanding of Revised Section 508 Web requirements
- What to Test
 - Evaluation guidance for test results
 - For development of test processes
 - No testing tools identified
- Draft status
 - <https://section508coordinators.github.io/ICTTestingBaseline/>

40

What's in the Baseline?

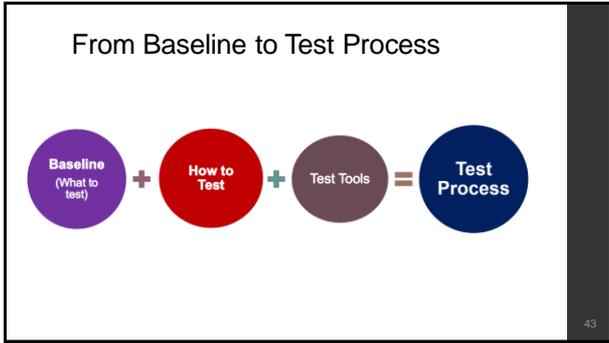


41

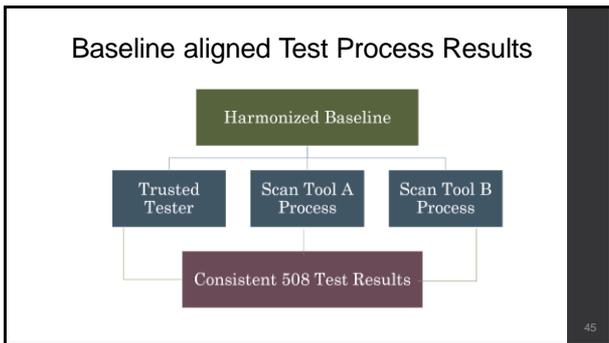
Baseline Tests

- Grouped requirements
 - Element categories (where possible)
 - Identify applicable requirements
 - What to check for each applicable requirement
- Some examples:
 - Images (3 WCAG SCs)
 - Forms (7 WCAG SCs)
 - Synchronized Media (4 WCAG SCs and Section 508 503.4)
 - Timed Events (3 WCAG SCs and Conformance Req 5)
- Helpful for developing a test process

42



- ### Baseline-aligned test processes
- Validated with Baseline test cases (in progress)
 - Consistency across test processes
 - Must cover all requirements
 - Yield the same test results for all requirements
 - Automated scan tool processes possible
 - Identify which tests are automated
 - Include manual evaluation procedures where needed
- 44



Contacts and Resources

- DHS Online Training site (Self-Register/Enroll)
 - <https://training.section508testing.net/>
- Office of Accessible Systems and Technology (OAST)
 - accessibility@hq.dhs.gov (Email)
 - <https://www.dhs.gov/accessibility> (Website)
- U.S. Access Board – Section 508 Standards
 - 508@access-board.gov
- ANDI help and how-to
 - <https://www.ssa.gov/accessibility/andi/help/howtouse.html>

46



Contact us!

U.S. Access Board

800-872-2253 (voice), 800-993-2822 (TTY)
508@access-board.gov

47

Thank you for participating in
today's webinar



Next session:

July 30, 2019

Accessible Documents – PDF

48
