

Accessibility Testing in the Enterprise

The Accessible Technology Webinar Series is sponsored by the Great Lakes ADA Center and the Pacific ADA Center, both members of the ADA National Network.

The Session is Scheduled to begin at 1:00 pm CT We will be testing sound quality periodically

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Webinar Features

- Closed captioning click CC icon (located in the Audio/Video Panel) or control-F8 (command-F8) and adjust your screen.
- Questions Highlight "Great Lakes" in the participant list and "right click" on your
 mouse to send a private message. Type your message into the chat area that
 appears. The question will be viewed by all moderators. (Keyboard F6, Arrow up
 or down to locate "Great Lakes" and select to send a message)
- Customize your view You can change the size and location of any of the panels
 (Chat, etc.) by hovering your mouse over the = icon at the right of each panel and select "Detach Panel". Each panel can be repositioned and resized.
- Please do not use emoticons or hand-raising features during this session

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Accessibility Testing in the Enterprise

Automated and Manual Testing Tools for today's businesses.

Barry Johnson Senior Accessibility Consultant Deque Systems, Inc www.deque.com



Accessibility Overview

- Section 508
 - Part of the Rehabilitation Act of 1973
 - Amended in 1998
 - Required Federal IT to be accessible starting June 2001
 - There is a refresh coming (we hope)



Accessibility Overview

- Web Content Accessibility Guidelines (WCAG)
 2.0
 - Internationally accepted guidelines
 - Just accepted by International Organization for Standardization as a standard



WCAG 2.0

- Four Basic Principles of Accessibility
 - Perceivable Information and user interface components must be presentable to users in ways they can perceive.
 - Operable User interface components and navigation must be operable.
 - Understandable Information and the operation of user interface must be understandable.
 - Robust Content must be robust enough that it can be interpreted reliably by a wide variety of user agents, including assistive technologies.
- 12 Guidelines
- 61 Success Criteria



What is Disability?

People with disabilities are first

PEOPLE

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What is Disability?
...but is a disability strictly
a personal characteristic
of the body?



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Disabling Environments

- Buildings without elevators (disabling for wheelchair users)
- **Desks and water fountains** with no room underneath (disabling for wheelchair users)
- Microwaves and other appliances with only touch screens (disabling for blind people)
- Theaters, concerts, speeches, sports, and other live events without interpretation or captions (disabling for deaf people)



Digital Technology can be an accessibility barrier...

But it is also one of the best solutions ever invented.



How can a Person with Very Little Mobility Go Shopping?



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Our Responsibility

As Digital Content Providers is to ensure that our content is available to EVERYONE

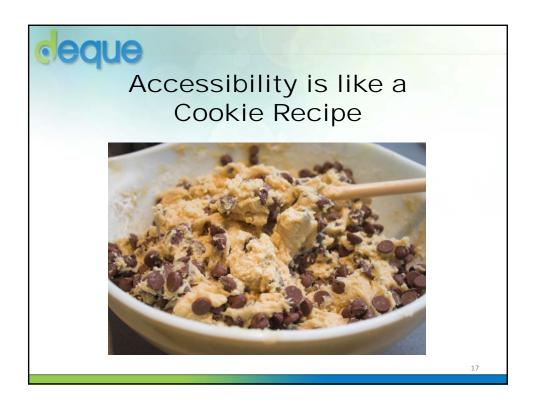


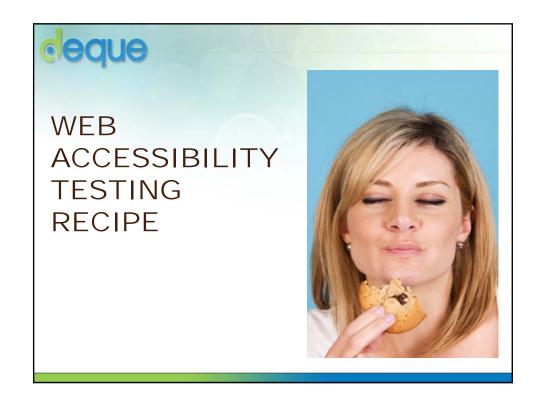
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Testing for Accessibility

With 61 Success Criteria, how on Earth do we test for accessibility?

- System Wide "Enterprise" Testing and Monitoring
- Local browser based page by page testing

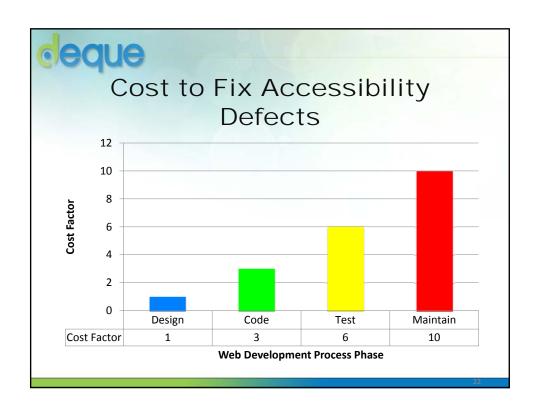




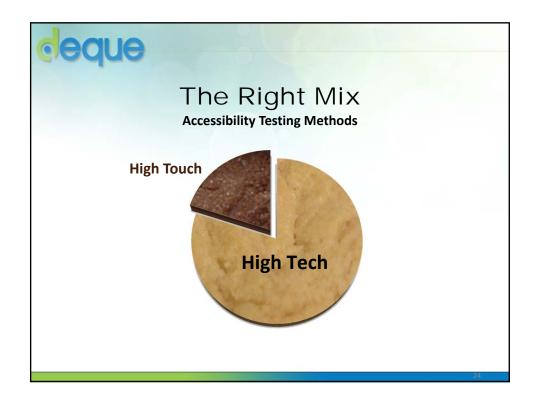




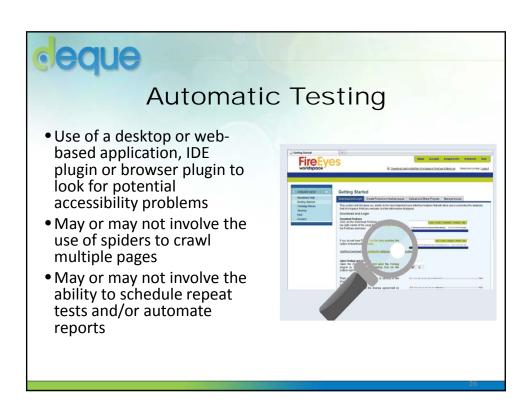














Benefits of Automated Tools

- Ability to scan large volumes of code on a single page, site wide and anything in between
- Ability to automatically generate reports
- Ability to catch errors which do not need humans to review
- Configurable to include / exclude specific guidelines and checking methods

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Issues with automated tools

- Passing items which should fail
- Failing items which should pass
- Difficulties with content dependent on user interaction with forms







Issues with automated tools (con't)

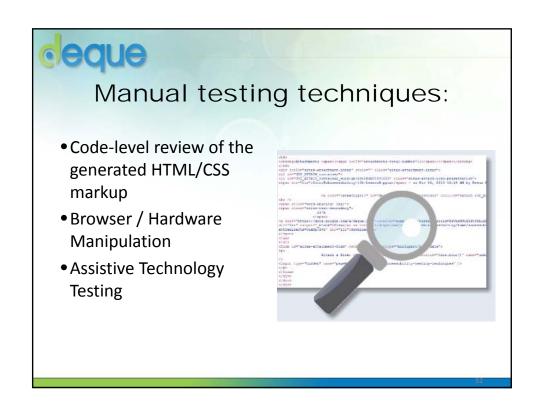
- Difficulties with pages that utilize JavaScript to render content
- Questionable checking rules "failing" a document for items which have no real-world impact on access.
- The tools test markup, but not non-text formats
- Tools often test only the markup itself without assessing DOM structure

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Issues with automated tools (con't)

- Security restrictions may not allow the automated tool to access the site
- Security restrictions may disallow installation of the automated tool on the client system
- Many accessibility compliance requirements are things which cannot definitively be tested for via automatic means







Benefits of Manual Testing

- High level of accuracy
- Errors are not just flagged but repairs can be suggested



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Issues with manual testing

- Outcome reliant on skillset and experience of reviewer
- Very time intensive
- Increased code complexity = increased likelihood of mistakes





Issues with manual testing (con't)

- Code inspection limited mostly to markup
- Some issues should be tested by machine
- Some issues cannot be found by automatic no manual means





High TechTouch Testing

www.verybestbaking.com

Wave

wave.webaim.org

Jim Thatcher's Favelet's

• jimthatcher.com/favelets

Web Developer (Firefox Extension)

addons.mozilla.org/en-US/firefox/addon/60

Accessibility Evaluator

 addons.mozilla.org/en-US/firefox/addon/accessibilityevaluation-toolb/

Juicy Studio Accessibility Toolbar

 addons.mozilla.org/en-US/firefox/addon/juicy-studioaccessibility-too

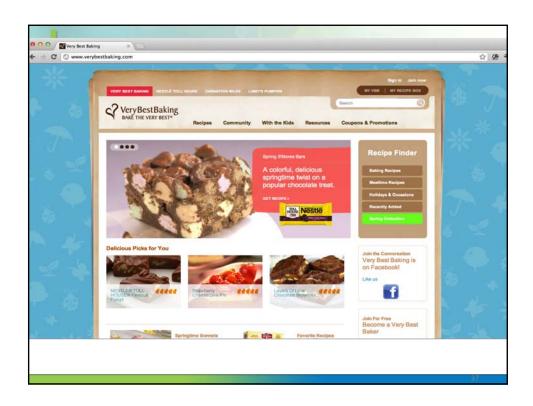
Headings Map

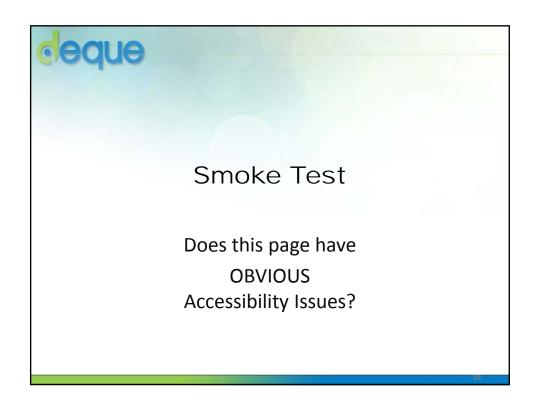
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FireEyes

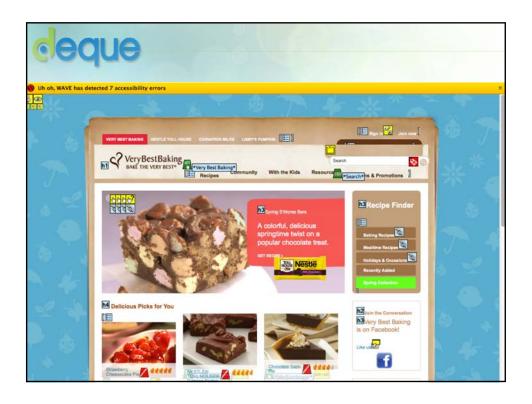
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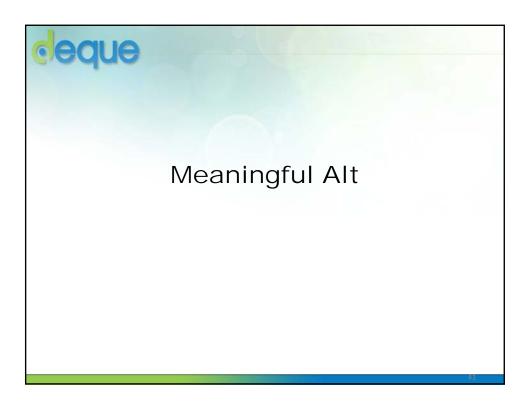
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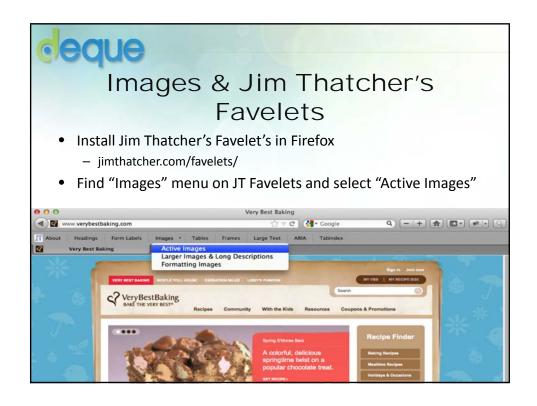


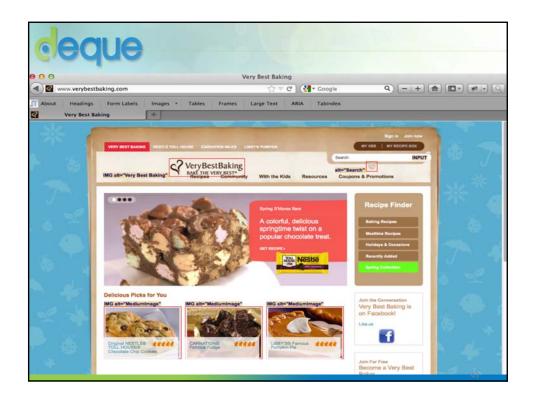




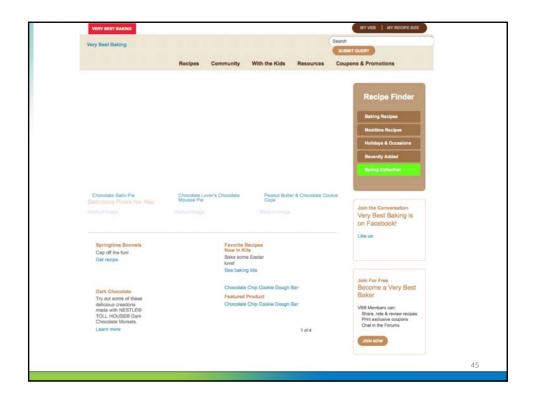








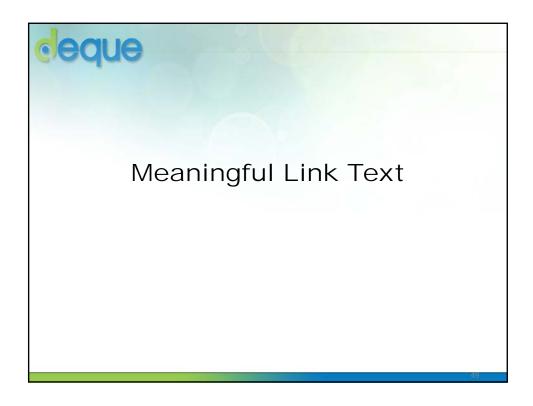


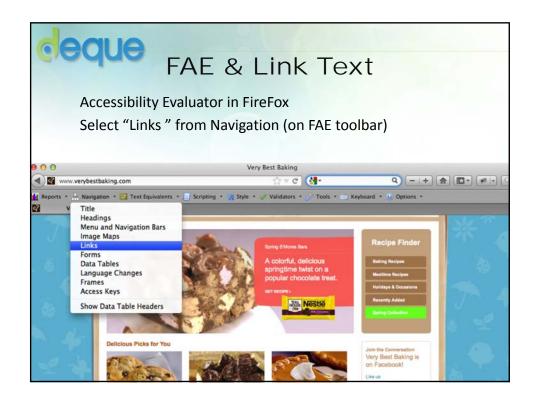


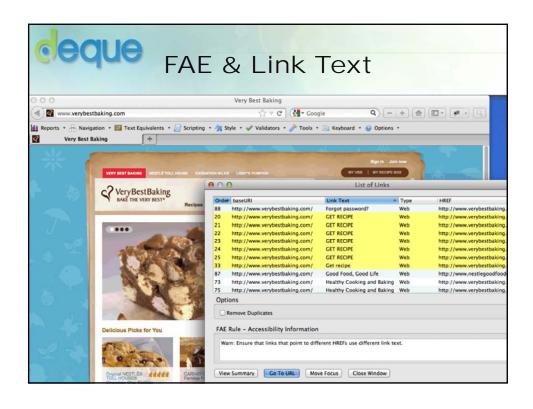


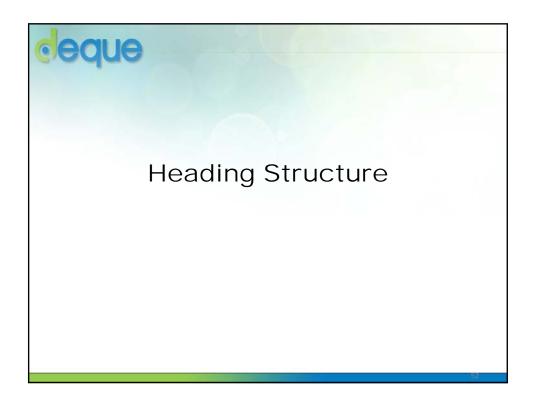


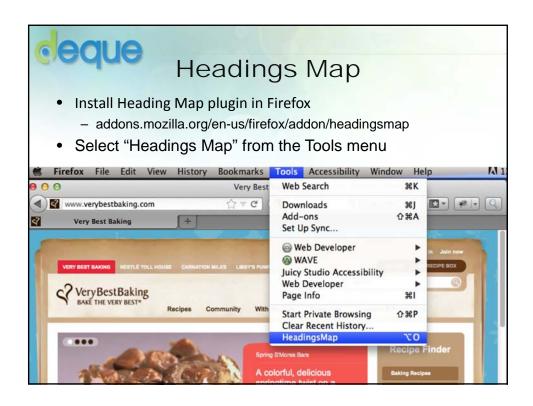












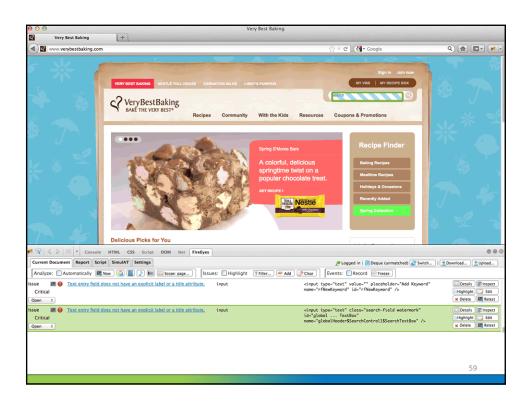


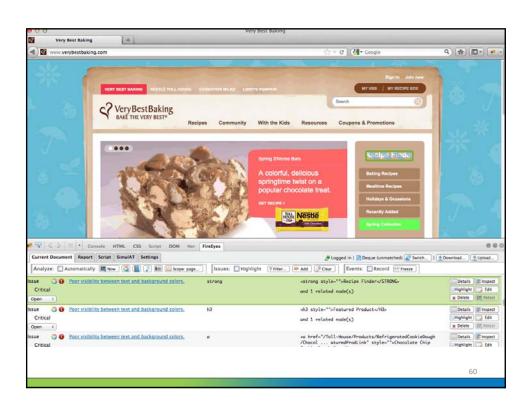


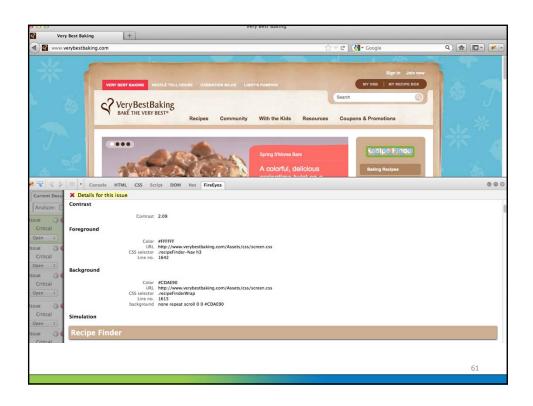


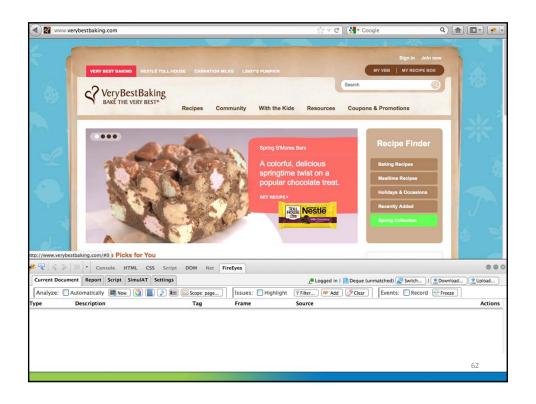




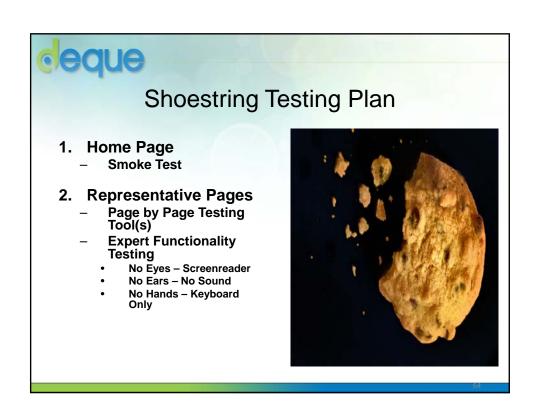




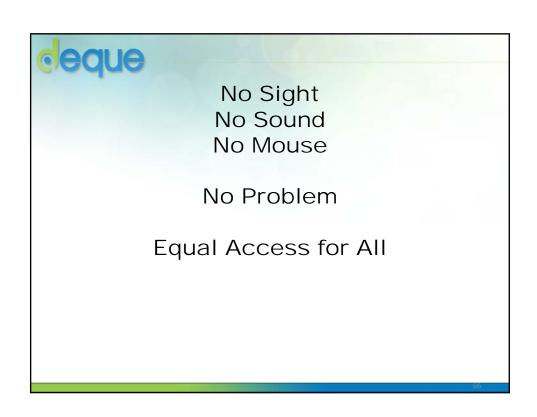














Resources

Enterprise:

- Compliance Sheriff from HiSoftware http://www.hisoftware.com/products/hisoftwarecompliance-sheriff.aspx
- AMP (Accessibility Management Platform) from SSB Bart
 - https://www.ssbbartgroup.com/amp/index.php
- Accenture Digital Diagnostics Engine (ADDE) http://www.accenture.com/us-en
- Worldspace from Deque Systems http://worldspace.deque.com



Resources

Local to your computer

Wave

wave.webaim.org

Jim Thatcher's Favelet's

· jimthatcher.com/favelets

Web Developer (Firefox Extension)

• addons.mozilla.org/en-US/firefox/addon/60

Accessibility Evaluator

 $\bullet \quad \text{addons.mozilla.org/en-US/firefox/addon/accessibility-evaluation-toolb/}\\$

Juicy Studio Accessibility Toolbar

• addons.mozilla.org/en-US/firefox/addon/juicy-studio-accessibility-too

Headings Map

addons.mozilla.org/en-us/firefox/addon/headingsmap/

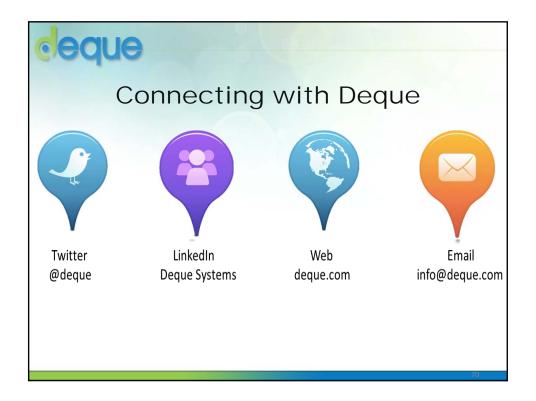
FireEyes

• www.deque.com/deque-fireeyes



Questions?

- Thank you for coming today
- Are there any questions?





Thank you for participating!

NEXT SESSION IS MAY 23, 2013
ACCESSIBILITY WITH WORDPRESS

This session was recorded and will be archived in two days at

http://www.adaaudio.org/Webinar/AccessibleTechnology/

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