DrupalCon

SEATTLE 2019 APRIL 8-12





Inclusive Digital Products: Why Web Accessibility Matters

Kara Gaulrapp, Message Agency



Hi, there! I'm Kara Gaulrapp.



- Front-end Developer at Message Agency
- Web Accessibility advocate
- Drupaling since 2012





Outline

- What is web accessibility?
- Why should I care?
- Where do I start?
- How do I get people to care?
- Questions and answers





The power of the Web is in its universality.

Access by everyone regardless of disability is an essential aspect.

Tim Berners-Lee



WCAG Principles





е



Operable



Understandable



Robust





Nothing can be invisible to all of a user's senses





- Nothing can be invisible to all of a user's senses
- Text equivalents, captions, and transcripts, oh my!





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- Color contrast for all the things





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- Text equivalents, captions, and transcripts, oh my!
- Color contrast for all the things
- Flexible, responsive design





Operable

• Must be keyboard-friendly and useable by all input mechanisms





Operable

- Must be keyboard-friendly and useable by all input mechanisms
- Properly structured site architecture and content





Operable

- Must be keyboard-friendly and useable by all input mechanisms
- Properly structured site architecture and content
- Controls over animation, auto-updating or moving content





- Must be keyboard-friendly and useable by all input mechanisms
- Properly structured site architecture and content
- Controls over animation, auto-updating or moving content
- Give enough time for actions





Understandable

Language of page and parts





Understandable

- Language of page and parts
- No surprises from interactions





Understandable

- Language of page and parts
- No surprises from interactions
- Clear instructions and definitions of elements and errors





- Language of page and parts
- No surprises from interactions
- Clear instructions and definitions of elements and errors
- Consistent navigation and naming





Robust

Backwards compatible and futureproof





Robust

- Backwards compatible and futureproof
- Components' names, roles, states, properties, and values must be available to all assistive technology (AT)





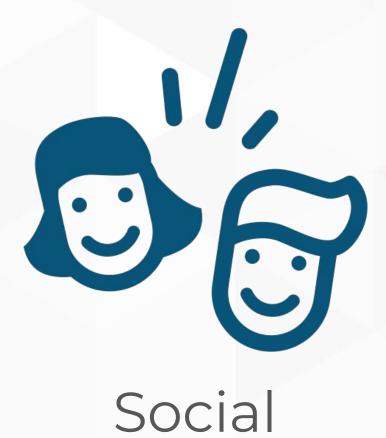
Robust

- Backwards compatible and futureproof
- Components' names, roles, states, properties, and values must be available to all assistive technology (AT)
- AT alerted to status messaging, but not interrupting the user





Why should I care?







Legal





Solve for one, extend to many





- Solve for one, extend to many
- Decrease the digital divide





- Solve for one, extend to many
- Decrease the digital divide
- Friendly to first-time internet users



First-time Internet Users



1.1 billion

worldwide



23 million

in America





- Solve for one, extend to many
- Decrease the digital divide
- Friendly to first-time internet users
- Account for low-literacy and fluency levels





Increase website use and market share





Financial

- Increases website use and market share
- Makes Google love you (SEO)





Financial

- Increase website use and market share
- Makes Google love you (SEO)
- Be eligible for more contracts





Americans with Disabilities Act (ADA) compliant





- Americans with Disabilities Act (ADA) compliant
- And you likely need to be compliant





- Americans with Disabilities Act (ADA) compliant
- And you likely need to be compliant
- And check with your state





Teamwork makes the dream work

Standardize your interpretation, goals and tools.



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 - Are we working towards a minimum, optimized, or idealized solution?



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- Identify your Achilles' heel.



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 - Are we working towards a minimum, optimized, or idealized solution?
 - Are we using the same tools and testing methods?
- Identify your Achilles' heel.
- Share knowledge (and responsibility).



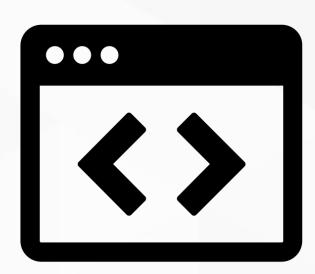


Planning



Discovery &

Design



Development



Content

Creation





Build in, not bolt on.





- Build in, not bolt on.
- Accessibility as a requirement





- Build in, not bolt on.
- Accessibility as a requirement
- Plan for training





Discovery & Design

Universal and Inclusive Design





Discovery & Design

- Universal and Inclusive Design
- Personas with limitations





Discovery & Design

- Universal and Inclusive Design
- Personas with limitations
- Vet mockups





Web extensions and command-line tools





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- Semantic markup (ARIA if absolutely necessary)





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- Semantic markup (ARIA if absolutely necessary)
- Responsive framework and compression





- Web extensions and command-line tools
- Semantic markup (ARIA if absolutely necessary)
- Responsive framework and compression
- Test, test, test!





Use CKEditor's Accessibility Checker





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- Be mindful of image size





- Use CKEditor's Accessibility Checker
- Be mindful of image size
- Learn to write awesome alt-text (especially for complex images)





- Use CKEditor's Accessibility Checker
- Be mindful of image size
- Learn to write awesome alt-text (especially for complex images)
- Check your content's reading level





Getting Buy In



As an Investment



Ask Questions



Share Responsibility









Friday, April 12, 2019

Mentored Contribution

> 9:00-18:00 Room: 602

First Time Contributor Workshop

> 9:00-12:00 Room: 606

General Contribution

> 9:00-18:00 Room: 6A

#DrupalContributions





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