deque

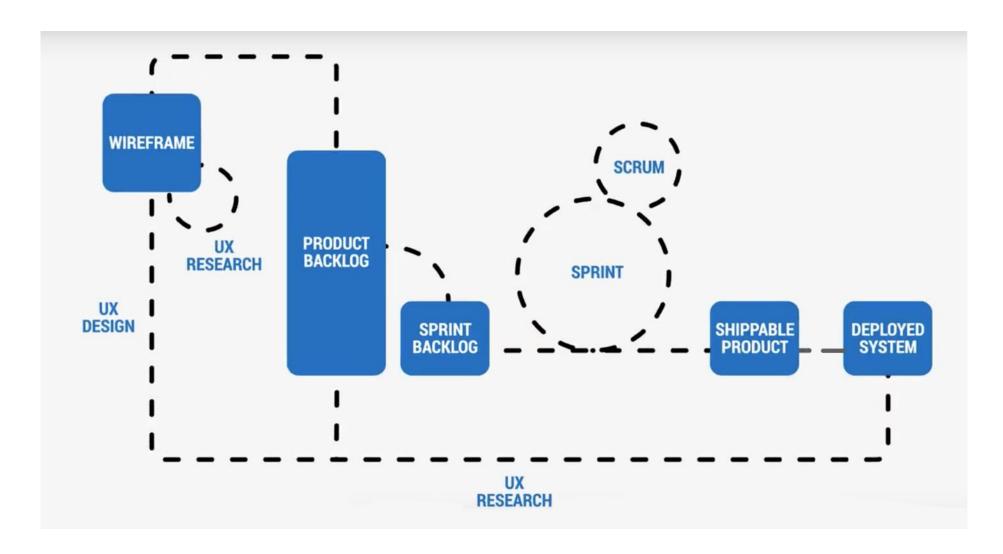


Innovative Accessibility

Shifting Manual Testing Left to Development Teams

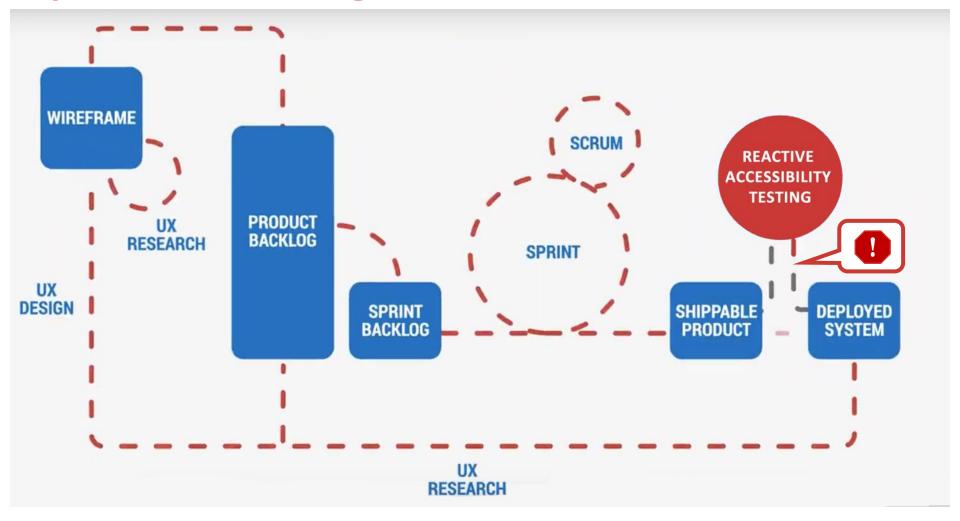


Where do YOU want to catch bugs in the SDLC?

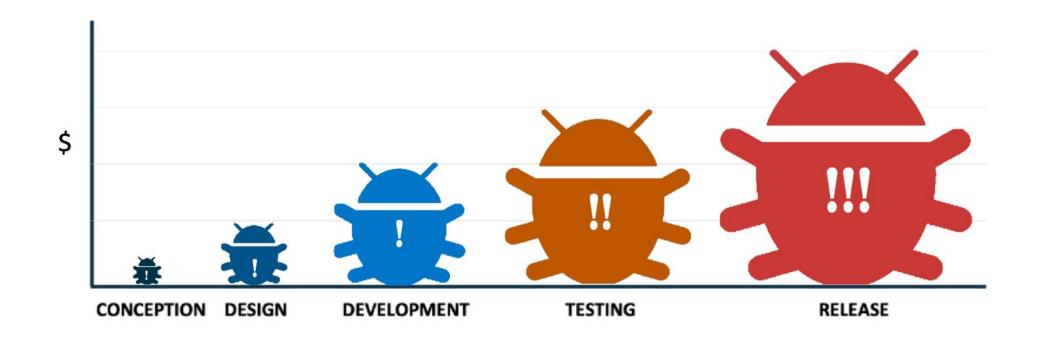


Reactive Accessibility Testing

= Surprise, Risk, Higher Cost

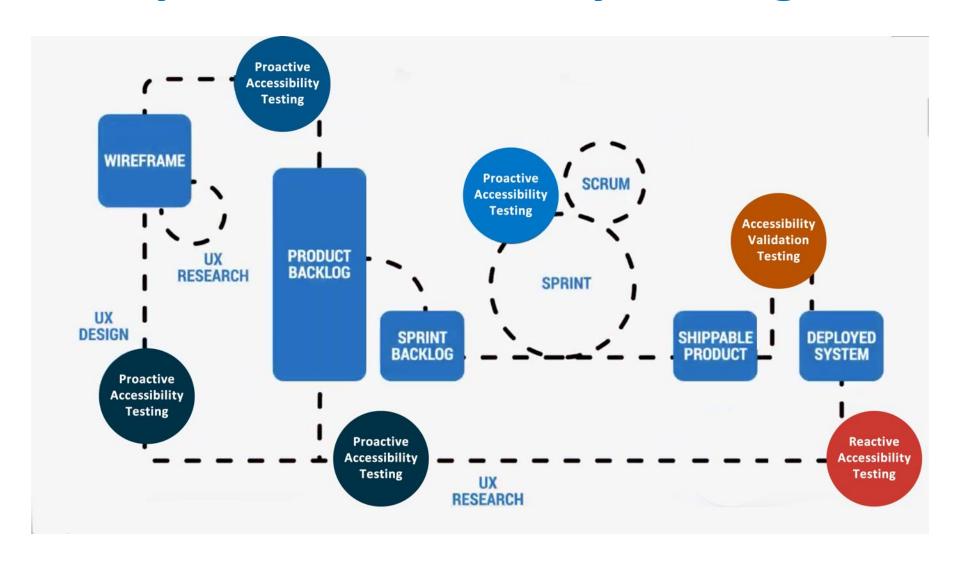


Cost of Accessibility Bugs



The longer it takes to discover an accessibility bug, the more it will cost your organization to fix it.

Efficiently Shift Accessibility Testing Left



Smart A11Y Testing for Web Devs



Efficient A11Y Testing for Devs

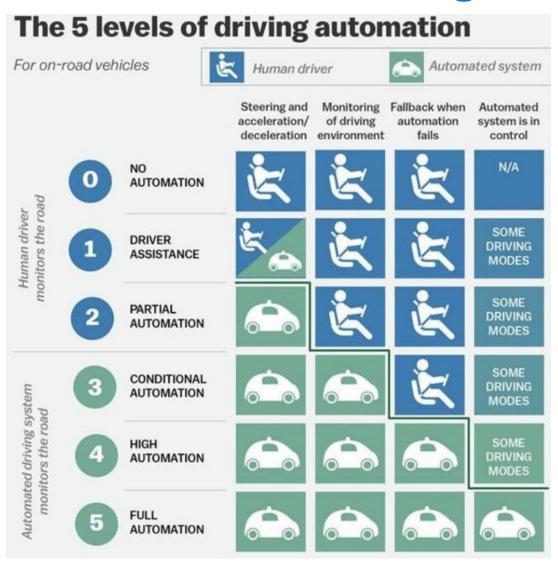
- Automated
- Smart Manual Testing



1. Rear Jack 2. Rear Tyre Off 3. Tyre Gunner 4. Rear Tyre On 5. Stabiliser 6. Front Tyre On 7. Tyre Gunner 8. Front Tyre Off/Stop Marker 9. Front Wing Adjuster 10. Backup Front Jack 11. Front Jack 12. Front Wing Adjuster 13. Front Tyre Off / Stop Marker 14. Tyre Gunner 15. Lollipop Man 16. Front Tyre On 17. Stabiliser 18. Rear Tyre Off 19. Tyre Gunner 20. Rear Tyre On 21. Driver

Who owns a self-driving car?

Levels of Self-Driving Cars & A11Y for Web Devs

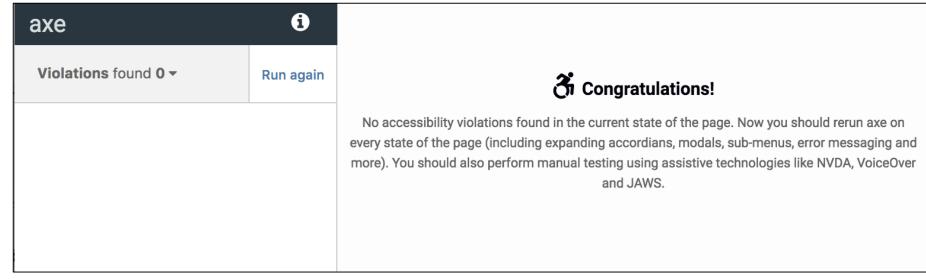


- 0: No A11Y Automation
- 1: Dev Assistance
- 2: Partial Automation
 - Auto A11Y
 - Integrate into every unit test
 - Default part of Formal Integration Testing
 - Dev Assistance
 - Run auto testing tool in browser
 - Perform targeted manual tests with best ROI

How do you stop 50% of a11y bugs in Development?

Run axe. Fix all Violations. = 50% fewer WCAG Failures at QA!





commit to axe your a11y bugs

axe: quick free auto test in browser

- axe: The Accessibility Engine
 - easy to install and use
 - zero false positives
 - able to find up to 50% of your WCAG failures
 - Automated testing for 25% of types of issues
 - Proven to help you STOP more than 50% of your issues
 - explains how to fix the issues
 - browser extension flavors:
 - Chrome
 - Firefox



A11Y in Automation Integration Testing Framework

- Defect prevention
- Catch 50% or more of accessibility issues in Sprint
- Flavors:
 - Open Source: axe-core library on github
 - Professional Grade: Worldspace Attest (built in integration support)

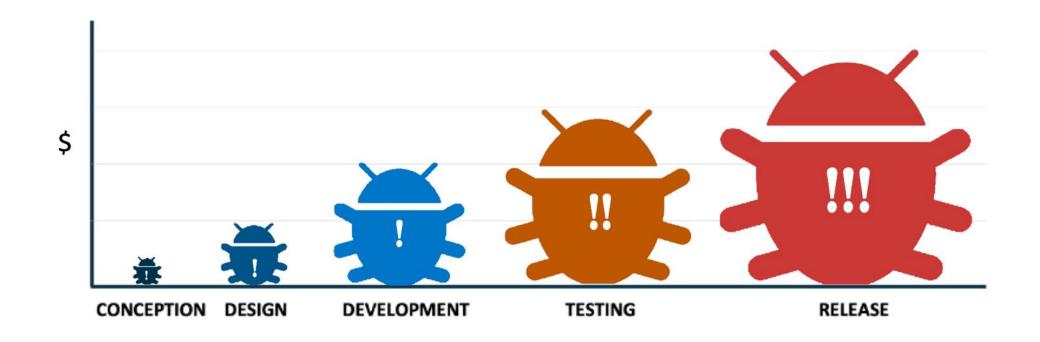








Cost of Accessibility Bugs



The longer it takes to discover an accessibility bug, the more it will cost your organization to fix it.

Keyboard Testing

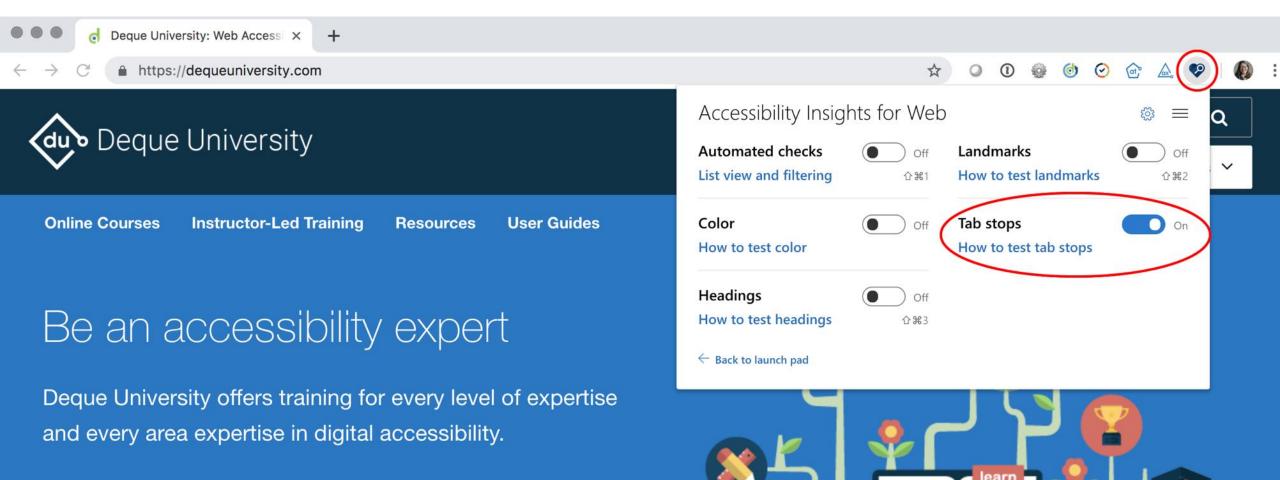
Make Sure Everything Works using Keyboard Alone



Is the Tab Order Logical

Testing for Logical Tab Order

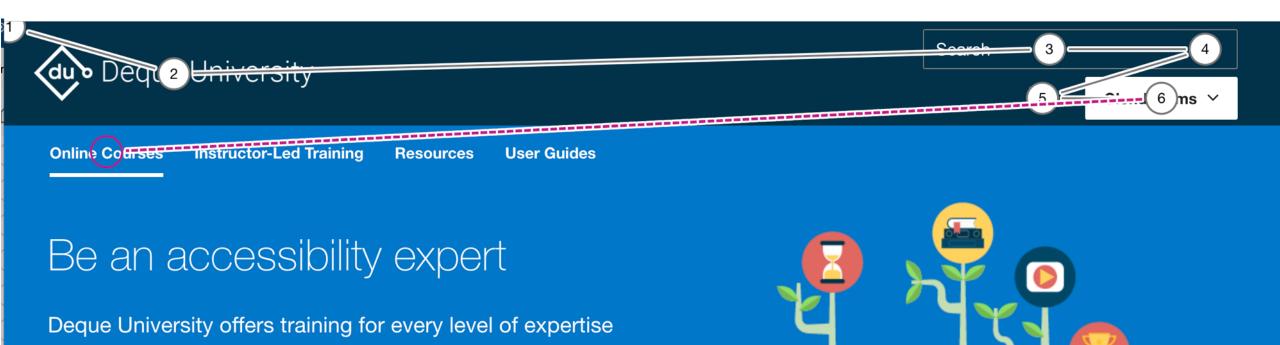
- Use Microsoft's Accessibility Insight extension for Chrome
- Open Ad Hoc Tools and turn on the Tab stops option.

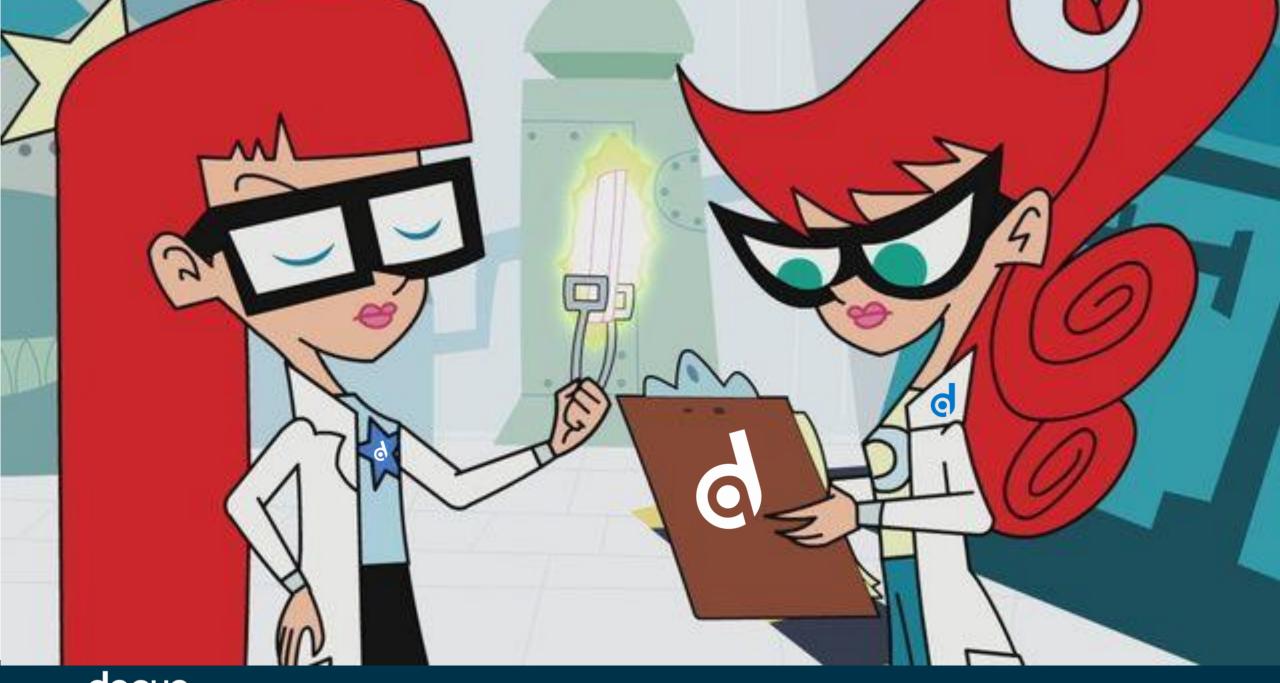


Visualize Tab Stops

- Press tab to visualize the tab stops.
- No fair using your mouse. Just use tab on the keyboard.
- Is the tab order logical?

and every area expertise in digital accessibility.





WorldSpace Attest HTML Extension

earch Q

Tools Services & Training News & Resources Compliance Company axe

<h1>

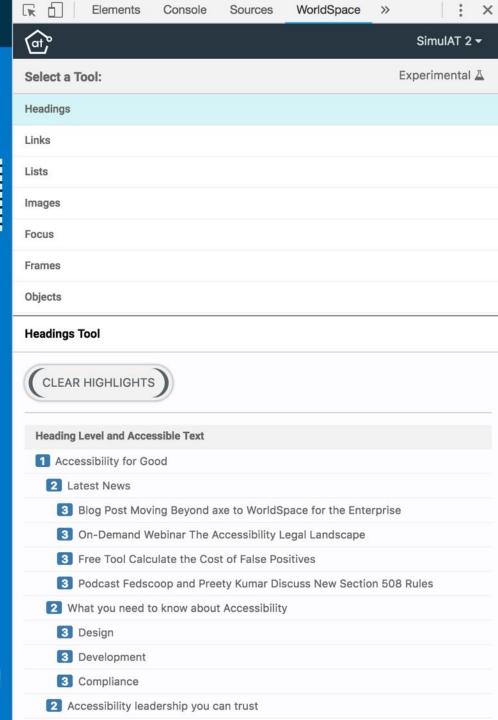
Accessibility for Good

Meet your compliance goals and help make the web a better place.

Learn More

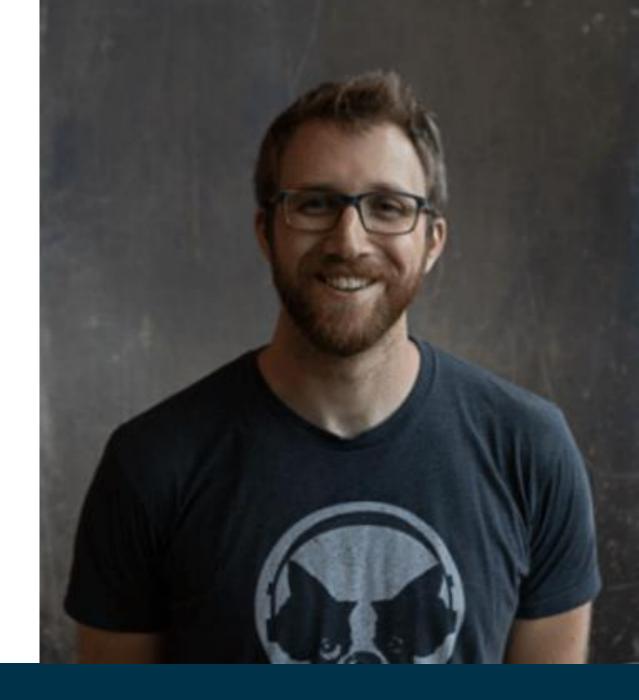
Talk to an expert





Meet one of our Awesome Tool Engineers

- Combining Automated Testing Tools with Comprehensive Audits
 - Friday at 1:20 PM
 - Matt Isner

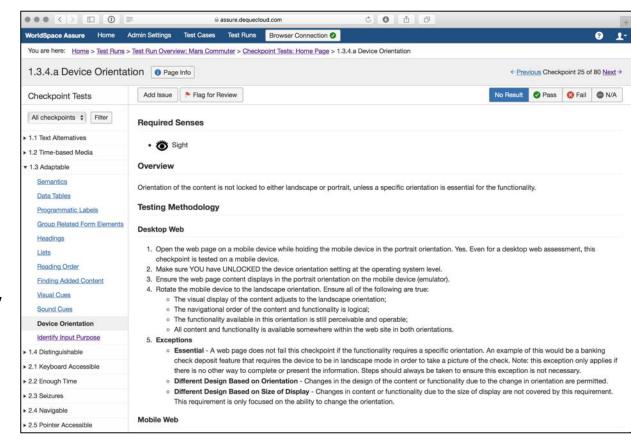


WorldSpace Assure

Guided Manual Testing with rocket boosters

WorldSpace Assure

- Integrated axe-core testing
- Guided manual testing
 - Detailed Methodology
 - Accurate for WCAG 2.0 and 2.1 Normative
- Issue Description Library
 - Vetted by Deque Experts
- Remediation Recommendation Library
 - Integrated with Deque University Content



How many A11Y testing tools do YOU have in your toolbox?

A Few Commonly Used Free Tools

- axe html extension
- accessibility extensions with axe-core rules built in
 - Google Chrome Dev Tools / Lighthouse
 - Microsoft Accessibility Insight
 - ACE by Daisy
 - Pa11y
 - and more...

independent tools

- Andi https://www.ssa.gov/accessibility/andi/
- Functional Accessibility Evaluator https://fae.disability.illinois.edu/
- Wave https://wave.webaim.org/
- and more...

javascript bookmarklets

- Paul J. Adam's Bookmarklets http://pauljadam.com/bookmarklets/
- Faulkner's WCAG Parsing Only Bookmarklet https://s.codepen.io/stevef/debug/VRZdGJ
- and more...

Bookmarklets Beware

- Did you know, a bookmarklet can:
 - see everything on the page
 - read cookies and local storage
 - interact with the server the page came from
 - make cross-domain requests
- If your IT Security Team knew you had installed boo
 - They would be very likely to remove your admin prividges



How Will You Win the A11Y Race?

<<Shift Left<< **ACCESSIBILITY**

Commit to Shift Left

- 1. Run axe extension. Fix all violations.
- 2. Use automated unit & integration testing
- 3. Targeted Manual Testing
 - Keyboard
 - Focus Order

Want to Do More?



Testing for Accessibility

The Deque Team developed this Accessibility Checklist to help your developers, designers, QA testers, and content creators get a head-start on 12 core accessibility requirements. These checks are a subset of WCAG 2.0 AA requirements that provide the most ROI in a very short time frame.

This Accessibility Checklist does not replace the need for a complete WCAG 2.0 review by an expert. It does however empower your team to begin testing for these accessibility requirements right away!

Pro Tip! A11y is an abbreviation for accessibility (which has 11 letters between "a" and "y") commonly used as shorthand for digital accessibility.



Before you get started...

Make sure you visit www.deque.com/ale to download the free ale browser extension to perform automated accessibility tests on your website. ale is easy to install and to run, and there's a short tutorial video on the ale to you need any help.

TOP 12 ACCESSIBILITY CHECKS



- Is color alone used to convey important information?
 - How to check: View the page in gray-scale. Can you still understand all the information and perform all page functions?
 - · Primarily Benefits: Colorblind
 - Requirement: WCAG 2.0 SC 1.4.1
- 2. Is the color contrast of text readable by people with low-vision?
 - . How to check: aXe should not detect any issues related to color contrast.
 - Primarily Benefits: Low-Vision
 - Requirement: WCAG 2.0 SC 1.4.3

Images 🖾

3. Do all images have alternative text?

- . How to check: aXe should not detect any issues related to missing alt text.
- · Primarily Benefits: Blind
- Requirement: WCAG 2.0 SC 1.1.1

https://www.deque.com/info/



Connect with Deque





@dequesystems



dequelabs



in deque-systems-inc



dequesystemsinc