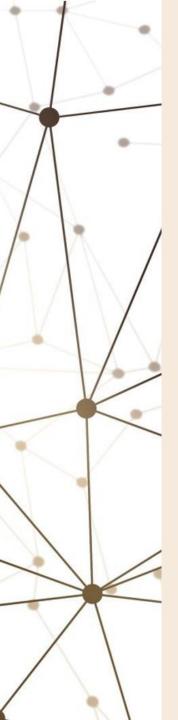
Consortium of Academic and Research Libraries in Illinois







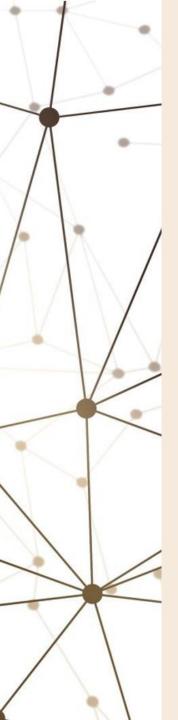
GREETINGS!

- Retired in October 2020 but couldn't give it up!
- Past: Lead Information Design Specialist, founder of IT Accessibility Liaisons, co-author of the Campus Accessibility Policy, UIUC Webmaster Godfather.
- *Present:* Extra Help! Doing accessibility review of UIUC campus websites and applications, like the Library's suite of applications.
- Thanks to Nicole Swanson for the invitation.



AM I ACCESSIBLE?

- Are there problems with my web site?
- What are some ways I can find out quick?
- What are some good tools that will help?
- Can I trust what the tool says?



MANUAL & AUTOMATED

- Both are important
- Automated catches about 40 to 60% of the issues
- Manual catches human interaction errors
- Logic errors does this make sense?
- User interface is this easy or hard to use?



STEP 1 WHAT DO YOU SEE?

- Are things organized for good eye flow?
- Links Read More..., Click here, URL links
- Consistent navigation
- Strong contrasting colors
- Readable type





STEP 2 USE YOUR INDEX FINGER!

Start with the Keyboard and the TAB key

- TAB to go forward
- Shift+TAB to go back
- Return/Enter key to activate
- Space Bar to select
- Arrow keys to move within a popup window
- ESC key to exit a window





WHAT DOES THIS TELL US?

- Visual focus can you see where you're at on the page?
- Focus order is it logical?
- Interaction can you work with the web page? Open/close windows, etc.
- Form controls can you fill out a form, activate the buttons, select checkboxes?
- Videos can you start, pause, control the video?



DRAWBACKS

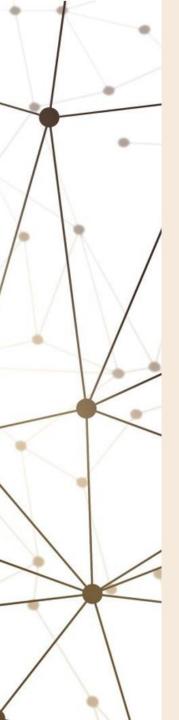
- Tab key only shows you things like links (focusable)
- Difficult to do if Visual Focus is weak or missing (depends on Browser)
- Does not create the same interaction as users with assistive technology
- Majority of screen reader users rely on HEADERS and LANDMARKS to navigate the page



TAKE A LOOK

ILLINOIS





STEP 3

A WORD ABOUT SCREEN READING

SOFTWARE (1 OF 3)

JAWS, NVDA, VoiceOver

- JAWS (Job Access With Speech) 55% market share, Windows only, free 40-minute trial
- NVDA (NonVisual Digital Access) 30% market share, Windows only, free
- VoiceOver Mac product, integrated into OS/iOS









A WORD ABOUT SCREEN READING SOFTWARE (2 OF 3)

- Learning curve on any screen reader is not trivial
- Screen Readers provide a lot of helpful navigation tools/lists
- Different then page readers
- JAWS has several hundred keyboard commands
- NVDA open source, easiest to use
- VoiceOver lots of helps, reasonably easy to use.



A WORD ABOUT SCREEN READING SOFTWARE (3 OF 3)

Mobile Screen Readers

- VoiceOver for iOS
 - Easy access through settings Triple click
- TalkBack for Android
 - Hold Volume key for 3 seconds
- Quickly shows whether or not your site is accessible



STEP 4 AUTOMATED TOOLS

- Authored by humans
- Subject to interpretation of WCAG
- Can miss major errors
- These are just the FREE tools
- This review is NOT exhaustive
- Many are hooks to get you to sign up for their service

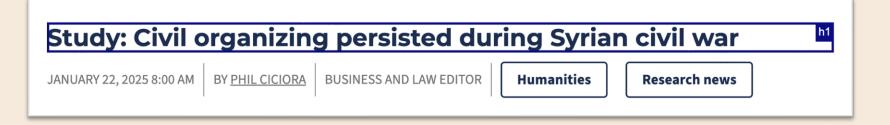




BOOKMARKLETS

- Available Bookmarklets
- Easy to install, just click and drag to your
 Bookmarks bar
- Doesn't work on sites behind a firewall
- accessibility-bookmarklets.org/



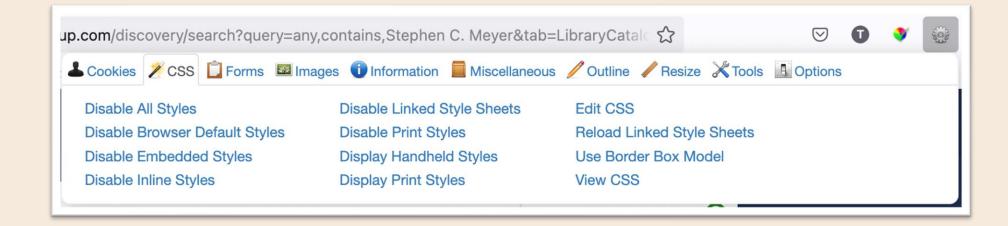




Web Developer

Adds a toolbar button with various web developer tools.

- Excellent tool for displaying what's behind the scenes
- Availability varies per browser
- chrispederick.com/work/web-developer/





COLOUR CONTRAST ANALYSER

- Stand alone application
- Shows the precise contrast ratios
- Shows type-size violations
- References specific WCAG 2.1 AA and AAA Success Criteria
- www.tpgi.com/color-contrast-checker/







- One of the original accessibility tools
- Overlays page with lots of icons
- Flags everything, whether it's a violation or not
- Lots of False-Positives
- Not recommended
- wave.webaim.org/



ANDI

Tutorial Modules Alerts FAQ Developer Tips Install

- Developed by Social Security Administration to encourage compliance with Sect. 508.
- Interface overlays the page
- www.ssa.gov/accessibility/andi/help/install.html



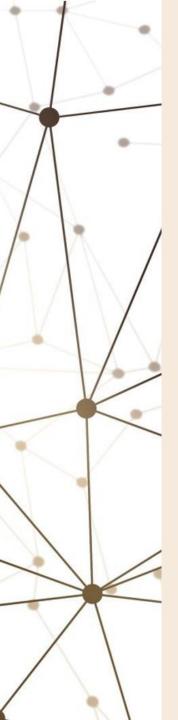


ANDI

Tutorial Modules Alerts FAQ Developer Tips Install

- Does a nice job highlighting focusable elements
- Modules has a TABLE highlighter which is handy
- Developer Tips has a lot of good information.

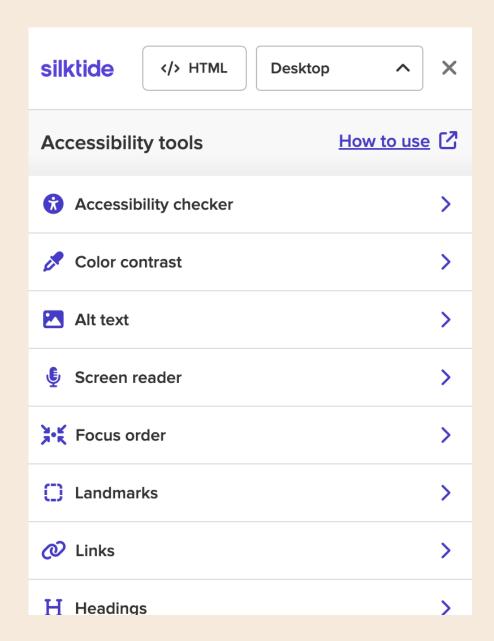
Search for event... Search





SILKTIDE

- Add as an extension
- Provides a wide array of tools
- Highlights issues and gives good explanations
- https://silktide.com/





ARC Toolkit Version: 5.7.6

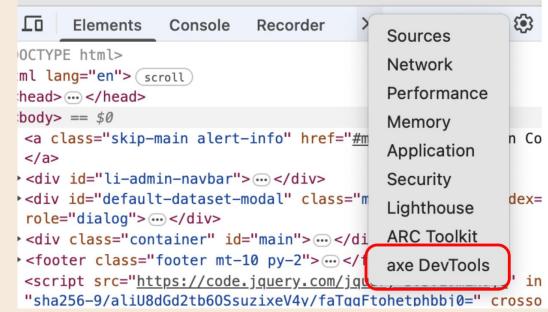
- Effective display and description of the issues
- Highlights where the issues are found
- chromewebstore.google.com/search/ARC%20Toolkit







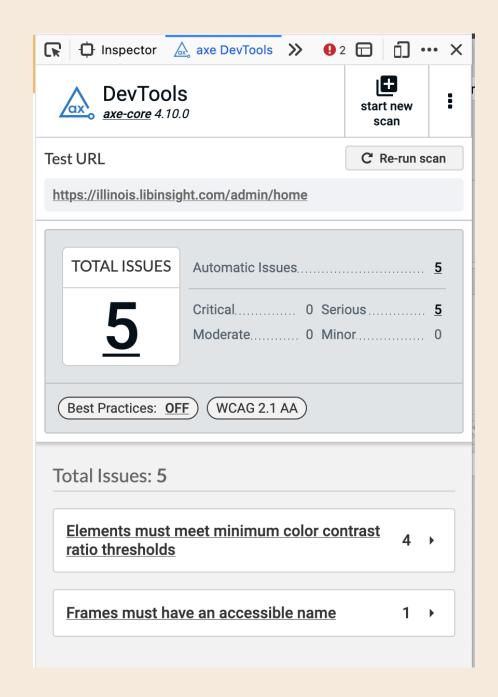
- U of I has a license to this tool
- Load as an extension
- Cumbersome to get to







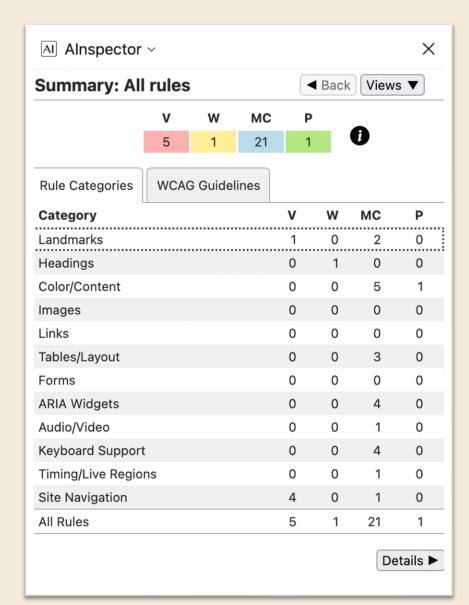
- Intuitive interface
- Robust evaluation
- Good explanations of violations found





AINSPECTOR (1 OF 3)

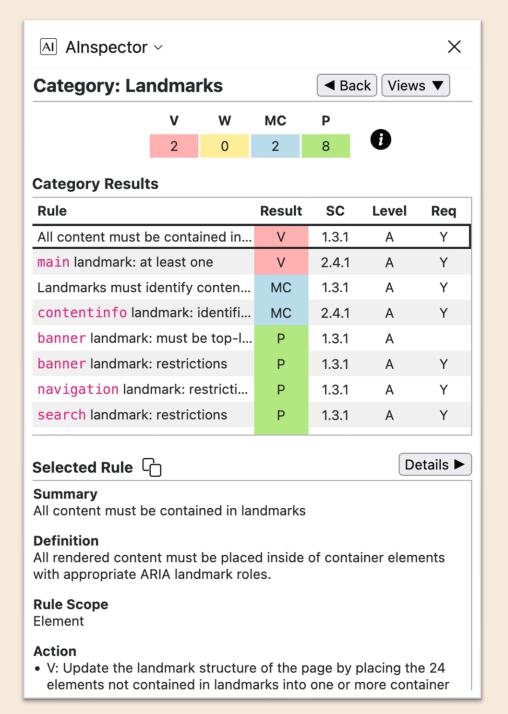
- Developed at University of Illinois
 Urbana-Champaign
- Jon Gunderson & Nick Hoyt
- Works only in Firefox
- Install through Mozilla's Add-ons
- ainspector.disability.illinois.edu/





AINSPECTOR (2 OF 3)

- Updates automatically
- Good connection to related
 WCAG Success Criteria
- Gives excellent summation of the issues.





AINSPECTOR (3 OF 3)

- Highlights where the violation can be found
- Technically oriented
- Strong support of ARIA

Element	Result	Pos	Action	All items ▼	that contain my query words ▼ ar	
h1.accessibl	V	121 Move	h1 element into an appropriat			
span.md-he	V	276 Move	span element into an appropr			
р	V	278 Move	p element into an appropriate	Whata	What am I searching? The Library Catalog is our discovery search tool for Books (electronic and print)	
li	V	281 Move	e li element into an appropriat	vviiat a		
li	V	282 Move	e li element into an appropriat	■ The Libra		
li	V	283 Move	e <mark>li</mark> element into an appropriat	'		
li	V	284 Move	e <mark>li</mark> element into an appropriat	• Bo		
li	V	285 Move	li element into an appropriat	• Joi	urnals, magazines, and newspapers	
	1			• DV	Ds. CDs. and scores	



WRAP UP

- Automated checkers are fallible
- They have their strengths and weaknesses
- Great way to get a quick overview
- Helps you communicate better with your audiences



COMMENTS/QUESTIONS/FEEDBACK?