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Supporting the design phase with accessibility heuristics evaluations

CSUN 2019 – Anaheim, CA Aparna Pasi & Denis Boudreau – Deque Systems March 13th, 2019

Supporting designs with accessibility heuristics **Planning is everything**

When you explicitly fail to plan, you implicitly plan to fail.



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Speakers

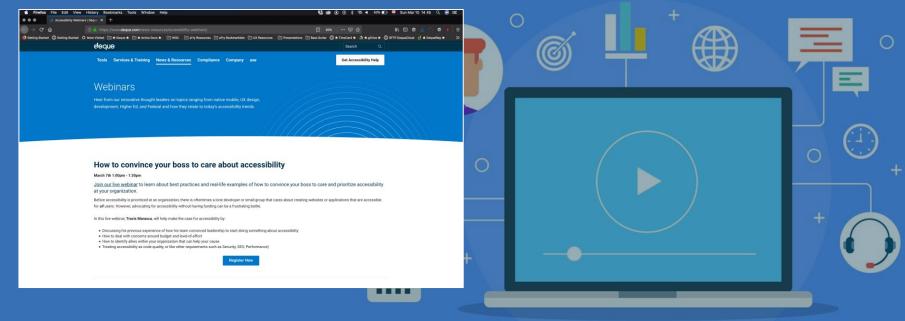
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Supporting designs with accessibility heuristics **Archives to past webinars**



Resource

nttps://www.degue.com/news-resources/accessibility-webinars,



What are accessibility heuristics?

Accessibility-specific rules of thumb inspired from WCAG, and built for the purpose of evaluating design assets for accessibility.



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Supporting designs with accessibility heuristics Inspired by usability heuristics



Accessibility heuristics are inspired by a set of simple, efficient rules of thumb, created by Jakob Nielsen and Rolf Molich in 1995, to help designers create more usable user interfaces.

Reference

https://www.nngroup.com/articles/tenusability-heuristics/



Why? Because WCAG is hard!

WCAG is notoriously difficult to interpret, and a bunch of it doesn't apply to designs or designers anyway....



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Supporting designs with accessibility heuristics **Accessibility heuristics**

Bringing accessibility upstream

Ten general rules of thumb to integrate accessibility considerations directly into your design process.

Reference http://bit.ly/a11y-heuristics

9	ACCESSIBILITY HEURISTICS, V1.4 10 GENERAL RULES OF THUMB FOR ACCESSIBLE DESIGN
CONTACT INFO	HEURISTICS
DENIS BOUDREAU Principal al ly consultant db@deque.com @dboudreau	INTERACTION METHODS AND MODALITIES Users can efficiently interact with the system using the input method of their choosing (i.e. mouse, keyboard, touch, etc.).
APARNA PASI Accessibility team lead Aparna.pasi@deque.com @satyaaparnap	NAVIGATION AND WAYFINDING Users can easily navigate, find content, and determine where they are at all times within the system.
PAST CONTRIBUTORS Caitin Geiar @caitingeier	 STRUCTURE AND SEMANTICS Users can make sense of the structure of the content on each page and understand how to operate within the system. ERROR PREVENTION AND STATES Interactive controls have persistent, meaningful instructions to help prevent mistakes, and provide users with clear error states which indicate what the problems are - and how to fix them - whenever errors
	CONTRAST AND LEGIBILITY Text and other meaningful information can be easily distinguished and read by users of the system.
	LANGUAGE AND READABILITY Content on the page can easily be read and understood by users of the system. PREDICTABILITY AND CONSISTENCY The purpose of each element is predictable, and how each element relates to the system as a whole is clear and meaningful, to avoid confusion for the users.
	 TIMING AND PRESERVATION Users are given enough time to complete their tasks and do not lose information if their time (i.e. a session) runs out. MOVEMENT AND FLASHING Elements on the page that move, flash, or animate in other ways can be stopped, and do not distract or harm the users.
	VISUAL AND AUDITORY ALTERNATIVES Purely visual or auditory content that conveys information has text- based alternatives for users who can't see or hear.



Supporting designs with accessibility heuristics Heuristics evaluation primer

- 1. Scope assessment
- 2. Recruit evaluators
- 3. Define your ranking scale
- 4. Evaluate against heuristics
- 5. Debrief and prioritize issues
- 6. Report findings for improvement

Reference

https://www.nngroup.com/articles/how-to-conduct-a-heuristic-evaluation/







Supporting designs with accessibility heuristics Why do heuristics evaluations work?

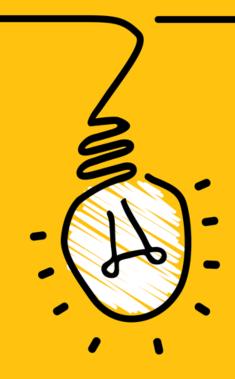
Great for accessible design!

- 1. Simple to conduct
- 2. Easy to learn

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- 3. Generate low overhead
- 4. Provide new view points

The earlier you can identify accessibility issues, the easier it gets for your team to create an inclusive experience. **It begins as early as your design phase!**





Supporting designs with accessibility heuristics A word to the wise...

We spend an awful lot of time designing the bridge, but not nearly enough time thinking about the people who are going to cross it.



Dr. Prabhjot Singh Director of Systems Design, The Earth Institute



Supporting designs with accessibility heuristics Heuristics example

Navigation & wayfinding

Users can easily navigate, find content, and determine where they are at all times within the system.

Supporting designs with accessibility heuristics **Heuristics statements**

Navigation & wayfinding	★ (+2)	√ (+1)	X (-1)	N/A (+0)
Is there a clear, visible indicator set on all active elements as they receive focus?				
Does the page have meaningful title text, with page-specific information going first?				
Are the page title element and H1 the same or similar?				
Does the page have meaningful headings for each major section?				
Can the links' purpose be defined from link text alone, or their immediate context?				
Is a "skip link" provided as the very top of the page, and is it revealed on focus?				
Does the organization of navigational elements facilitate wayfinding?				
TOTAL				



Supporting designs with accessibility heuristics **Defining rating values**



RATING SCALE (heuristics evaluation)

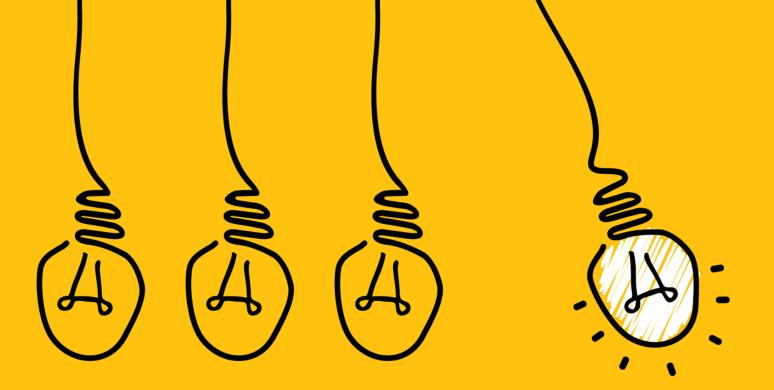
Whether or not the design asset successfully integrates the concepts covered by the heuristic. Possible options include:

- +2pts: Beyond expectations (★)
- +1pt: Positive or pass (\checkmark)
- -1pt: Negative or fail (x)
- +0pt: Not applicable (N/A)



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WorldSpace Attest An automated testing tool for both front and back- end developers. Based on a power law download the library fail runs on your local development server is the same browser as your Institute dates. Second and the second sec	Security Donec ullamoorper nulla non metus auctor tringilla. Prasent commodo cursus magna, vel societrisque nisi consectetur ef, Aenean eu leo quam. Petertesque omare sem lacinia quam venenatis vestibulum.	S. Problems Solved The common product solves. Appeals the page training more account solves. Appeals theyre hypics account in them their role (designer vs developer, etc) Litecycle Fit An indepaptic feating where a product fits within a typical development sprint or file cycle.						
Try II Now Prising	Case Study	S. Role Fit A breakdown of common roles that are a good fit for the given product. Appeals to users who have been tasked with finding a solution but are unsure of what producms specificatly need solving or where in the life cycle the product						
TRUSTED BY THE WORLDS MOST TRAFFICKED WEBSITES	Motrè leo risus, porta ac consectetur ac, vestitulum at eros. Donec sed dio da, Fauce dapteux, tetina ac cunus commode, torter munis condimientem mèt, ut termentem massa junto at amet risus. Nuttem ut doter id nehr utricies vehicula ut id etit.	Fusce 6. Shift Left A all out describing how Deque (and this product) helps you for mauris Shift Left and why its more effective than addressing (Dist)						
Problems WorldSpace Attest Solves	120 102 74 armet risus." STAT STAT Client Name, Company	 How It Works A dynamic incident hold, as user through how the product busines who characterized the statement of decorption: Appendix to users who characterized the product before they by a demo. Case Study 						
		Add credibility by showcasing an example of where the product was used within an organization and the outcomes.						



Using these heuristics is a fantastic way to move accessibility upstream in your product lifecycle! **Start using them today!**



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Thank you for your time.

Any questions? Now's your chance!



Supporting designs with accessibility heuristics **Connect with us!**







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