The Keys To An Accessibility Mindset

DANIEL YUSCHICK

Table Of Contents

- 1 Relating To Accessibility
- What Is Web Accessibility?
- The POUR Principles Of Accessibility
- The Keys To An Accessibility Mindset
- 5 Questions & Resources



Relating To Accessibility

Accessible design is good design



What Is Web Accessibility

Daily life is digital

- → Banking / Taxes
- → Residence Permit / Driver's License
- → Shipping / Tracking
- → Restaurant QR Code Menus
- → Shopping (Clothing, Medication, Groceries)

Web accessibility ensures our digital world includes those with disabilities



The benefits of responsive design

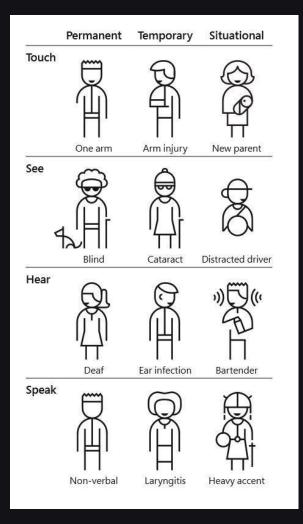
are the benefits of accessible design

- → Requires cross-team collaboration
- → Is never 'done'
- → Benefits an ever-expanding audience
- → Directly impacts conversion and sales
- → A person expects their hardware to be supported
- → Products only require responsive design

Tell me why



Web accessibility is fundamentally misunderstood



An estimated 1 in 6 people worldwide experience significant disability

World Health Organization, 2022

- → Up to 26% adults in the United States have some type of disability
- → Around 80 million people in the European Union (EU) currently have a disability
- → Approximately, 300 million people in the world have a color vision deficiency
- → More than 466 million people worldwide have a hearing disability
- These numbers only reflect permanent disability, undercounting temporary and situational needs.

We are failing

- → 96.8% of home pages had detectable failures
- → 84% of home pages had low-contrast text
- → 23% of images had missing alternative text
- → 39% of the 4.4 million form inputs detected were not properly labeled
- → 90% of websites are inaccessible to people with disabilities who use assistive technologies
- People with disabilities control \$1.9 trillion in disposable income

The POUR Principles Of Accessibility



The POUR Principles Of Accessibility

Р

Perceivable

Providing content that can be interpreted in layers by multiple senses.



Operable

Ensuring content and experiences are interactive for multiple device types.

- → Images with descriptive alternative text
- → Videos with captions and/or subtitles
- → Indicating state with more than just color

- → All functionality available by mouse must be available by keyboard
- → Visible and consistent focus states on all interactive elements
- → All pages have clear titles with descriptive, sequential headings

The POUR Principles Of Accessibility



Understandable

An experience that can be reliably navigated with simple content written for the audience.



Robust

Creating content that can be accessed by a wide set of devices and platforms.

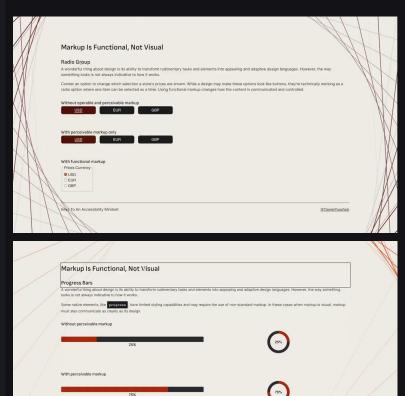
- → Defining content language(s)
- → Consistent landmarks, like navigations
- Error messages are descriptive and, when possible, actionable

- → Validating the rendered HTML to ensure it can be reliably interpreted by devices
- → Using markup to assign names and roles to non-native elements

The Keys To An Accessibility Mindset

Markup is functional

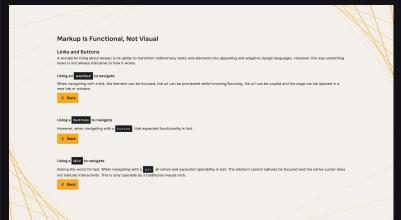
not visual



With functional markup

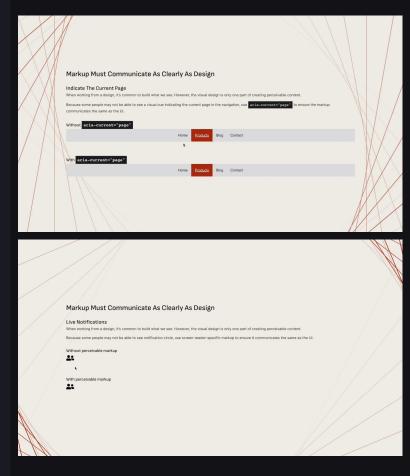
If you can do it with a mouse

You can do it with a keyboard



Visit CodePen Demo

Markup must communicate as clearly as design



How To Know When Content Needs Perceivable Markup

- 1 When design visually communicates state

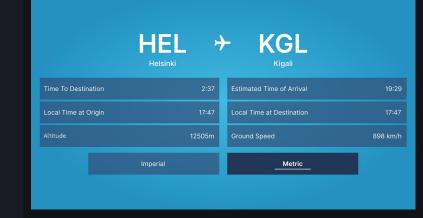
 E.g. Active page, active tab, loading, disabled
- When information is outside the flow of content E.g. Toast message, dialogs, error messages, tooltips
- When content is dynamic or live *E.g. Notifications, chat, tabs*
- 4 When recreating standard elements

 E.g. Progress bars, accordions, select menus



Use more than color to indicate state





Recap

Recap

- 1 Perceivable, Operable, Understandable, Robust
- Markup Is Functional, Not Visual
- If A Mouse Can Do It, So Must A Keyboard
- 4 Markup Must Communicate As Clearly As Design
- 5 Use More Than Color To Indicate State



Questions & Resources

Resources

- <u>CodePen Demos Collection</u>
- W3 Understanding WCAG 2.2
- W3 Web Accessibility Principles
- <u>33 Accessibility Statistics You Need To Know In 2023</u>
- The WebAIM Million
- Layman's Accessibility Checklist
- Accessible Error Messaging Wix
- <u>Microsoft Inclusive Design</u>
- Axe Dev Tools
- Axe VSCode Linter
- <u>A11y Color Contrast Figma Plugin</u>
- <u>Build & Test Accessible Web Apps Course Marcy Sutton</u>
- <u>Learn Accessibility Course Carie Fisher</u>
- <u>Practical Accessibility Course Sara Soueidan</u>



Thank You!

@DANIELYUSCHICK