

Web Accessibility Deep Dive

BOB CONF '23



Josefine Schaefer



GirlCode Ambassador



Google Developer Expert



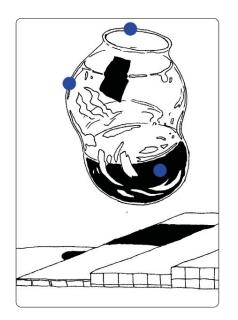
Developer Relations Engineer



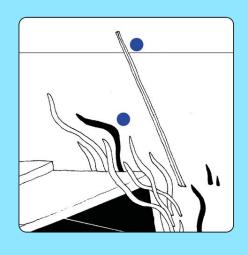
Accessibility Advocate

Outline

- What is Web Accessibility?
- Why should you care?
- What can you do?
- How to get started?
- How to keep going...



Josefine Schaefer



17 03

2023

What is Web Accessibility?

WHAT IS WEB ACCESSIBILITY

A11Y ACCESSIBILITY

WHAT IS WEB ACCESSIBILITY

WCAG

Web Content Accessibility Guidelines

Internationally shared standard for web accessibility

Different levels of Accessibility

A

AA

AAA

WHAT IS WEB ACCESSIBILITY

POUR Principles



Perceivable



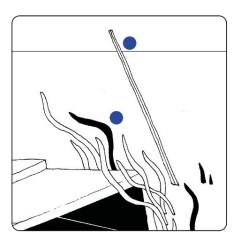
Operable

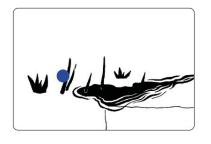


Understandable

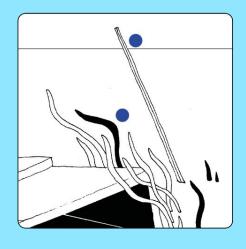


Robust





Josefine Schaefer



Why should you care?

WHY SHOULD YOU CARE



Accessibility = Human Right



Accessible Code = "Good" Code



New Laws for Accessibility Compliance

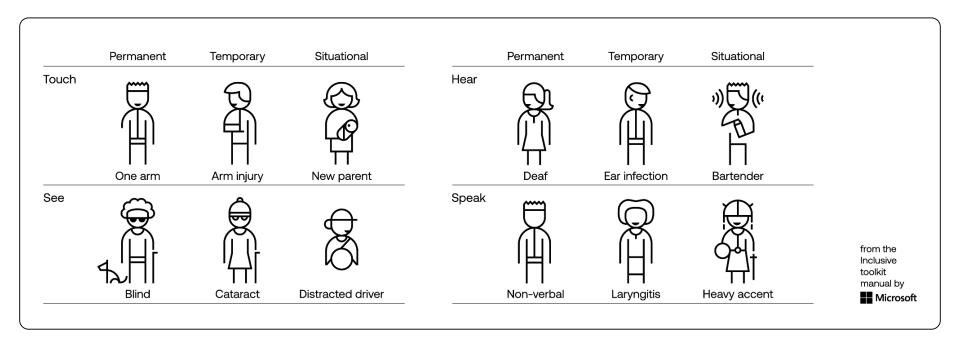


Wider Audience



Accessibility benefits all of us

WHY SHOULD YOU CARE

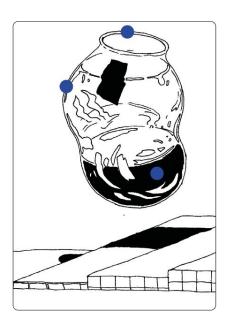


Let's dive in

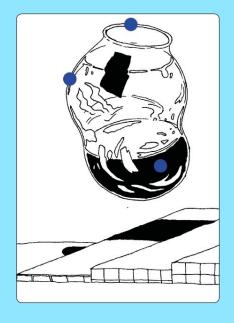


Outline

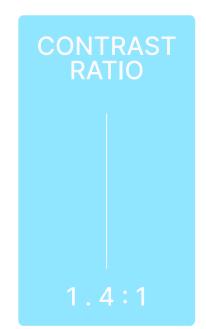
- Color Contrast
- **III** Keyboard Accessibility
- Semantic HTML

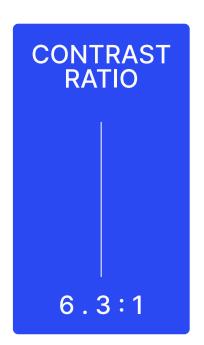


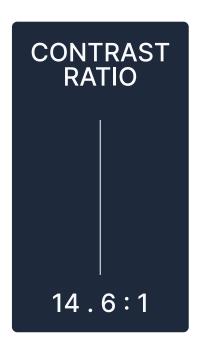
Color Contrast

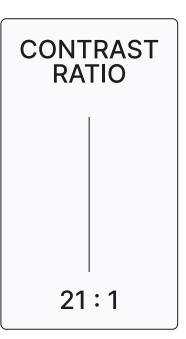


COLOR CONTRAST



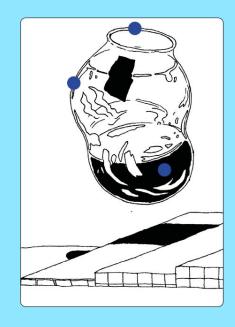


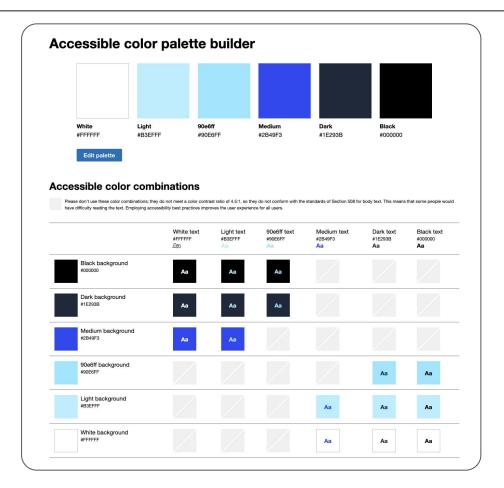




WCAG AA requires 4.5:1 contrast ratio

What can you do?





COLOR CONTRAST

https://toolness.github.io/accessible-color-matrix/

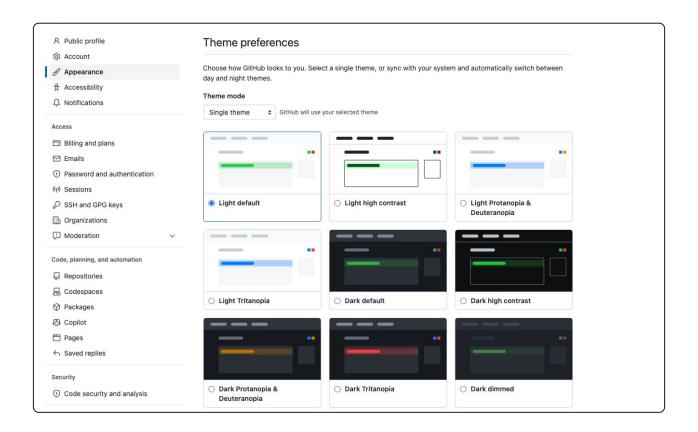
Let's try it



COLOR CONTRAST

- Don't use color as the only indicator of change
- Don't forget about hover & focus styles
- Think about your audience:
 - What about neurodivergent folks?

LIGHT & DARK MODE



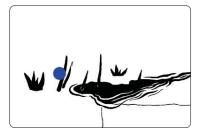
<header class="w-full h-24 bg-[#2b49f3] dark:bg-slate-800">

COLOR CONTRAST

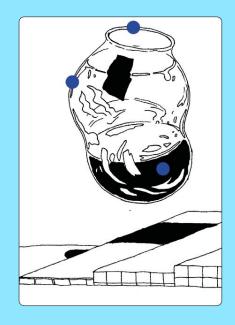
TailwindCSS

- Pre-flight mode
- Consistent styles across browsers

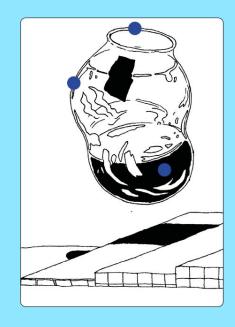
- 'sr-only' & 'not-sr-only'
- Some built-in support for aria-* attributes



Keyboard Accessibility



What can you do?



KEYBOARD ACCESSIBILITY

- Interactive elements have to be reachable via keyboard
- Tab order
- Visible focus
- Don't trap focus



Let's try it

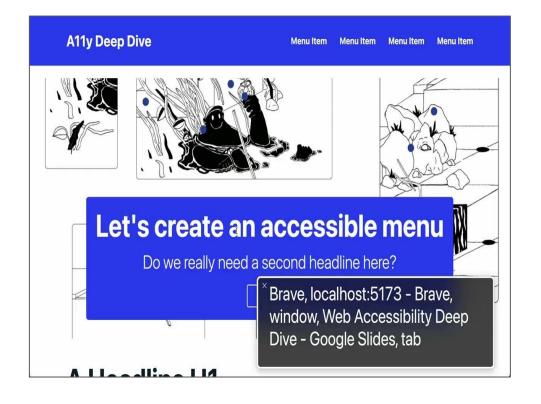


SKIPLINK

```
<a href="#main" class="skip">Skip to main content</a>
<style lang="css">
    .skip {
        position: absolute;
        left: -10000px;
        top: auto;
       width: 1px;
        height: 1px;
        overflow: hidden;
    .skip:focus {
        position: static;
        width: auto;
        height: auto;
</style>
```

KEYBOARD ACCESSIBILITY

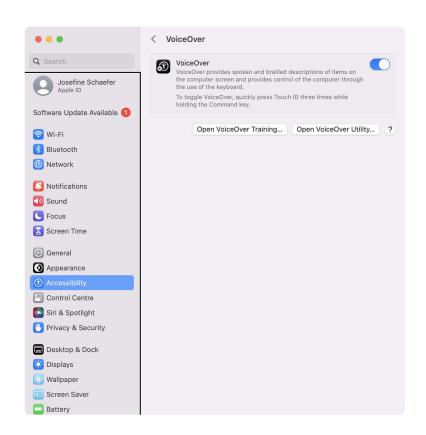
- Provide a skip link
- Hierarchical headline structure
- Aria-landmarks



2023

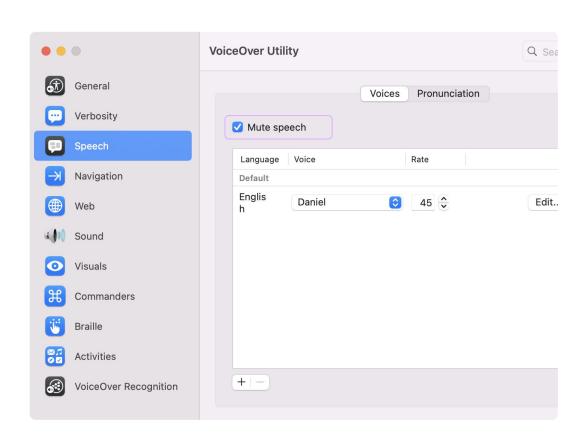
VoiceOver Rotor

On Mac, turn on VoiceOver.



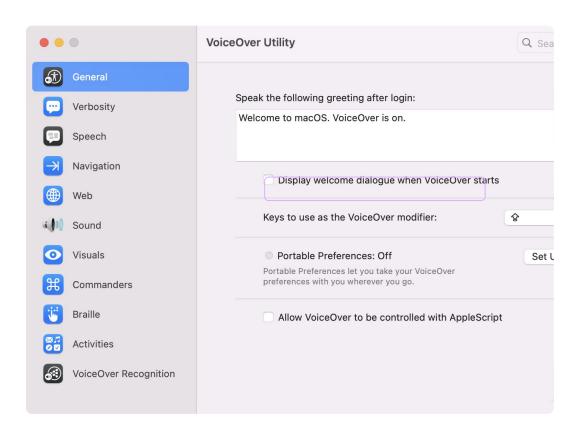
VoiceOver Rotor

You can turn speech off



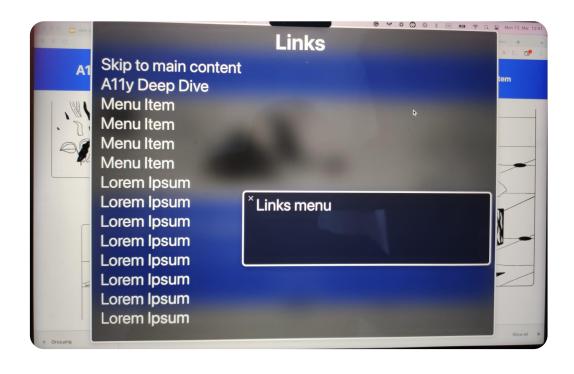
VoiceOver Rotor

Press your VO command + U.



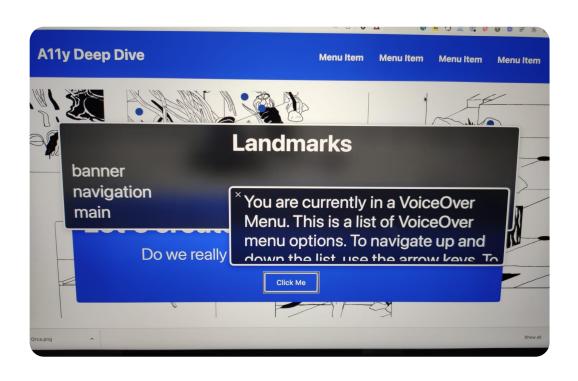
VoiceOver Rotor

Different way to navigating web pages.

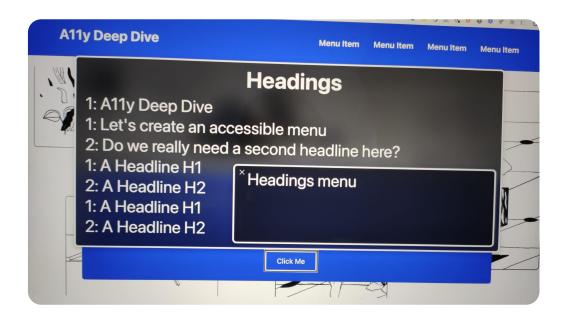


VoiceOver Rotor

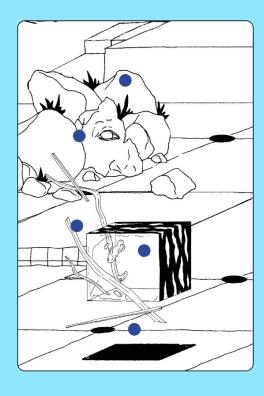
List all landmarks, links or headlines.



VoiceOver Rotor



Semantic HTML



SEMANTIC HTML

- Alternative text
- No empty links
- Use elements for their given purpose
- Suitable input type
- Headline hierarchies



HTML HELL





https://www.htm hell.dev/

Let's try it



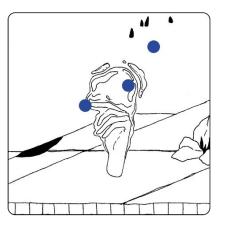
This was a lot ...



WHAT ELSE CAN YOU DO?

... but of course, there is always more...

• Test for different screen readers



SCREEN READERS







Narrator



Jaws



NVDA

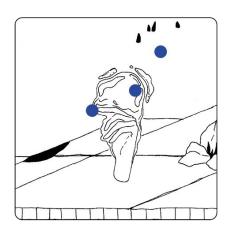


Orca

WHAT ELSE CAN YOU DO?

... but of course, there is always more...

- Test for different screen readers
- Test on mobile
- Accessible Fonts
- Audio and Video Transcripts
- Language Accessibility



APPROACHING ACCESSIBILITY

How to get started

- Integrate accessibility from the start
- Accessibility audit
 - Requirements & resources
- Quick wins



AUTOMATED TESTING

Automation is your friend

- Accessibility linters & pipelines
- Educate your team
- Remove barriers
- Hire specialists, if you can



Questions?



CONTACT



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Thank you so much!







Beautiful illustrations by @nicolaidiekmann

Thank you so much 🩌



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- @Josefine Schfr
- storyblok.com



