Accessibility

What is it, Why care about it, and How to add it

Why I got into Accessibility

~1 year ago...

Found documentation for ADA Compliance...

Before that...

- RIT - Rochester Institute of Technology
- Work with Deaf co-workers
- Deaf Theatre

What is Accessibility?

"Web accessibility means that websites, tools, and technologies are designed and developed so that people with disabilities can use them."

- WAI - Web Accessibility Initiative

Four major parts:
- Perceivable
- Operable
- Understandable
- Robust

Three Levels of Accessibility:
- A
- AA
- AAA

Why do we want to do this?

It's the Right Thing to Do! It Helps People

- The World Bank's Disability Inclusion Overview states that "one billion people, or 15% of the world's population, experience some form of disability…"
- There is also temporary disabilities that accessible design can help

Why Not Use a Medical Solution to assist?

Few issues…

- Is not there
- Is not compatible
- Isn't being adopted

Business Value

- More people can access your site
- Legal concerns
  - ADA
  - EN 301 549
  - ACAA

There were 2258 digital accessibility lawsuits in 2018, almost triple the number in 2017

-Seyfarth Shaw, LLC

IAAP Certifications

- Certified Professional in Accessibility Core Competencies (CPACC)
- Web Accessibility Specialist (WAS)

How do we actually do this?

(What everyone is really interested in)

What can Designers do?

- Alt Text for Images
- Control Size
- Text size
- Language
- Contrast

This fails at contrast ratio 2.64:1

This fails at contrast ratio 1.58:1

This passes at contrast ratio 8.59:1

This passes at contrast ratio 4.64:1

What can Developers do?

- Semantic HTML
- ARIA
- CSS

```
<button
    aria-haspopup="true"
    aria-label="Submit your order">
    Submit
</button>
```

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```css
.hiddenVisually {
    width: 1px;
    height: 1px;
    overflow: hidden;
    position: absolute;
    clip: rect(1px 1px 1px 1px);
    clip: rect(1px, 1px, 1px, 1px);
}
```

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    width: 1px;
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    clip: rect(1px, 1px, 1px, 1px);
}
```

```
<link
    id="SkipToContent"
    class="hideVisually"
    href="#ContentHeader">
    Skip to Content
</link>
```

```html
<link
    id="SkipToContent"
    href="#ContentHeader">
    Skip to Content
</link>
```

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```

```
<link
    id="SkipToContent"
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    Skip to Content
</link>
```

```html
<h1
    id="ContentHeader"
    tabindex="-1"
    >
    Welcome to the Content!
</h1>
```

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```

```
#SkipToContent:focus {
    width: auto;
    height: auto;
    position: fixed;
    background: #ffffff;
    clip: unset;
}
```

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#SkipToContent:focus {
    width: auto;
    height: auto;
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    background: #ffffff;
    clip: unset;
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```css
#SkipToContent:focus {
    width: auto;
    height: auto;
    position: fixed;
    background: #ffffff
    clip: unset;
}
```

```css
#ContentHeader:focus {
    outline: 2px solid blue;
}
```

```css
#ContentHeader:focus {
    outline: 2px solid blue;
}
```

Important! Common Mistakes

- ARIA is a tool, not a magic wand
  - Semantic html tags first, then bolster with ARIA
- Buttons vs. Links
- Heading Levels (h1, h2, h3...)

What can Quality Assurance do?

- Browser Extensions
- Screen Readers
- Personas

WAVE
web accessibility evaluation tool

Styles | No Styles | Contrast

Summary

WAVE has detected the following:

- 32 Errors
- 34 Alerts
- 0 Features
- 5 Structural Elements
- 2 HTML5 and ARIA
- 6 Contrast Errors

Panel Options

DETAILS: A listing of all the WAVE icons in your page.

DOCUMENTATION: Explanation of the WAVE icons and how you can make your page more accessible.

OUTLINE: The heading structure of the web page.

h? STIR TREK - COLUMBUS, OH
h? 26 APRIL 2019
h? TICKETS SOLD OUT - CLICK FOR WAIT LIST INFO

The five boxing wizards jump quickly.

The five boxing wizards jump quickly.

The five boxing wizards jump quickly.

The five boxing wizards jump quickly.

Screen Readers

- JAWS - Job Access With Speech
- NVDA - Non-Visual Desktop Access
- Apple VoiceOver

Be Accessible
Be Inclusive

Follow Up - Resources

- IAAP - International Association of Accessibility Professionals
  - https://www.accessibilityassociation.org

- Level Access
  - https://www.levelaccess.com/

- WAI - Web Accessibility Initiative
  - https://www.w3.org/WAI/

- WCAG - Web Content Accessibility Guidelines
  - https://www.w3.org/TR/WCAG21/

Follow Up - Contact & Questions

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