

Introduction to Web Accessibility

Instructional Demo by Zak Brinlee

What is web accessibility?

Making websites without barriers that make the use of them difficult or impossible for some individuals.

Visual



Motor



Auditory



Cognitive



What are some critical websites that you use?



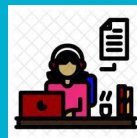
Bill Pay



Banking



School



Work

How to build accessible websites?

Getting Started

W3C's Intro

- [Introduction to Web Accessibility](#)

Review the fundamentals

- [Accessibility Fundamentals Overview](#)

MDN Accessibility

- [Introduction + Guides](#)

Learn WCAG standards

- [Web Content Accessibility Guidelines](#)

W3C Principles

Perceivable

- Visitors can understand and be aware of the content that is presented on your website

Navigable

- Visitors can use the entirety of your website without disruption.

Understandable

- Organized and content of every type (graphic and written) is easily understood.

Web accessibility fundamentals – Semantics

Modern website structured with HTML5

- Use the correct element for the purpose
- Headings are in the correct order
- Grouping elements accordingly
 - Lists
 - Navigation
 - Content

Reference Resource:

[HTML: A good basis for accessibility](#)

Accessibility Exercise!

<https://zakbrinlee.github.io/>

<https://github.com/ZakBrinlee/zakbrinlee.github.io>

Tips for building with accessibility in mind!

Utilize Semantic HTML!

- A button for a button
- A link for a link

Understand ARIA (Accessible Rich Internet Applications)

- Roles
- Properties
- States

Testing!

Contrast Checker

- [WebAIM Contrast Checker](#)

Accessibility Code Linter

- [axe Accessibility Linter](#)

Web Testing

- [axe DevTools- Web Accessibility Testing](#)

Google Lighthouse

- [Lighthouse overview](#)
- [Lighthouse Accessibility scoring](#)

Additional learning opportunities?

Attempt to place an order on your favorite website using only your keyboard!

Task: Navigate to a website that you normally make a purchase. Once you are on the homepage you are only able to use your keyboard to navigate the site, add the product to the cart, and checkout. No mouse or other peripheral device is allowed.

Learning Exercise: Were you able to place an order on your intended product? If not, what part of the purchase flow were you not able to advance from? Can you identify the element and reason?

Extra: Do the same exercise, but with the follow restrictions.

1. Select a different website to place an order
2. Enable Voice Over or Voice Assist after the homepage loads
3. Keep your eyes closed for the entire exercise, use a blindfold if neccessary

Thank you!!