

Accessibility Testing for Everyone

Alli and Zakiya



Illustrations by Allison Keagy

Introduction

Minimum state requirements

- Accessibility is important
- WCAG 2.2
- Biannual certification



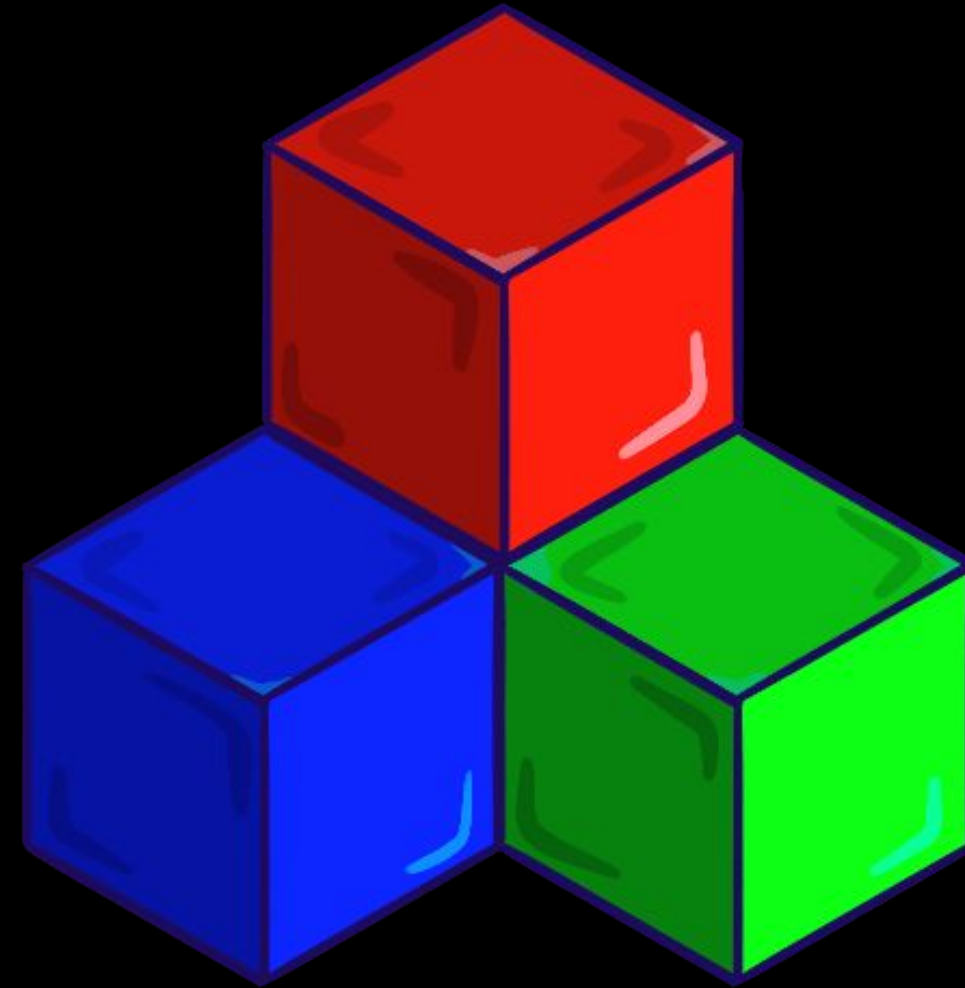
Who's responsible?

- Accessibility specialists
- IT Specialists
- Software engineers
- Designers
- Program managers
- Project managers
- **EVERYONE**



What's your role?

- Designer
- Builder
- Advocate
- Tester

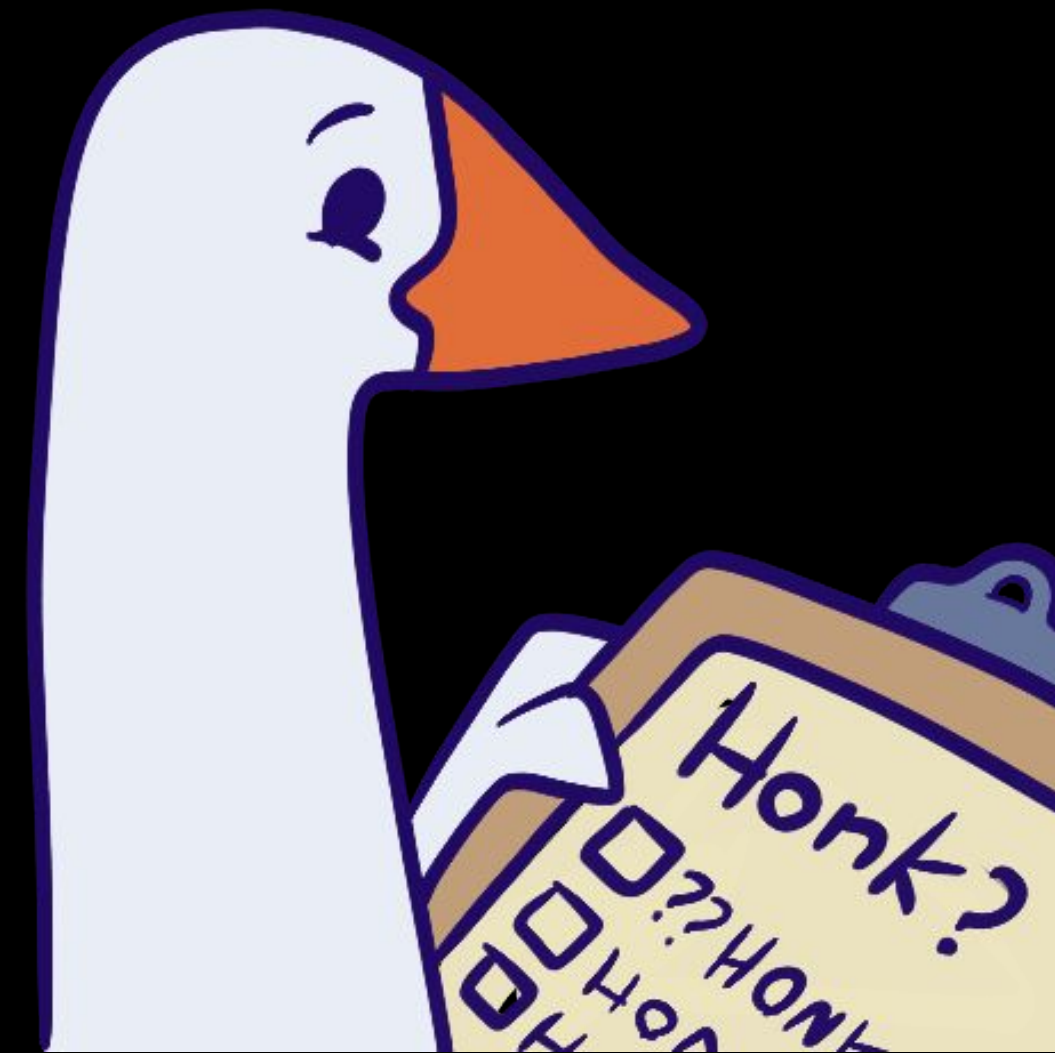


Poll #1

Which of the following are you comfortable using to check web accessibility?

Check all that apply.

- Wave
- Axe
- Lighthouse
- Keyboard navigation (tabbing)
- JAWS
- Voice Over
- Other _____
- None of the above



What is WCAG?

- WCAG is
 - Web Content Accessibility Guidelines
 - Produced by World Wide Web Consortium
- WCAG is not
 - Specific to one kind of disability
 - Specific to one kind of device

Windows 11

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Automated testing

How to use Edge Inspector

1. Open Microsoft Edge browser
2. Right click*
3. Choose *Inspect*
4. In the new sidebar, click + (*plus*) to Add Tool to Activity Bar
5. Choose *Lighthouse*
6. Click *Analyze page load*
7. Click *Accessibility*



* Mac shortcut: Command + Shift + C
PC shortcut: Ctrl + Shift + I

Automated testing

Other tools

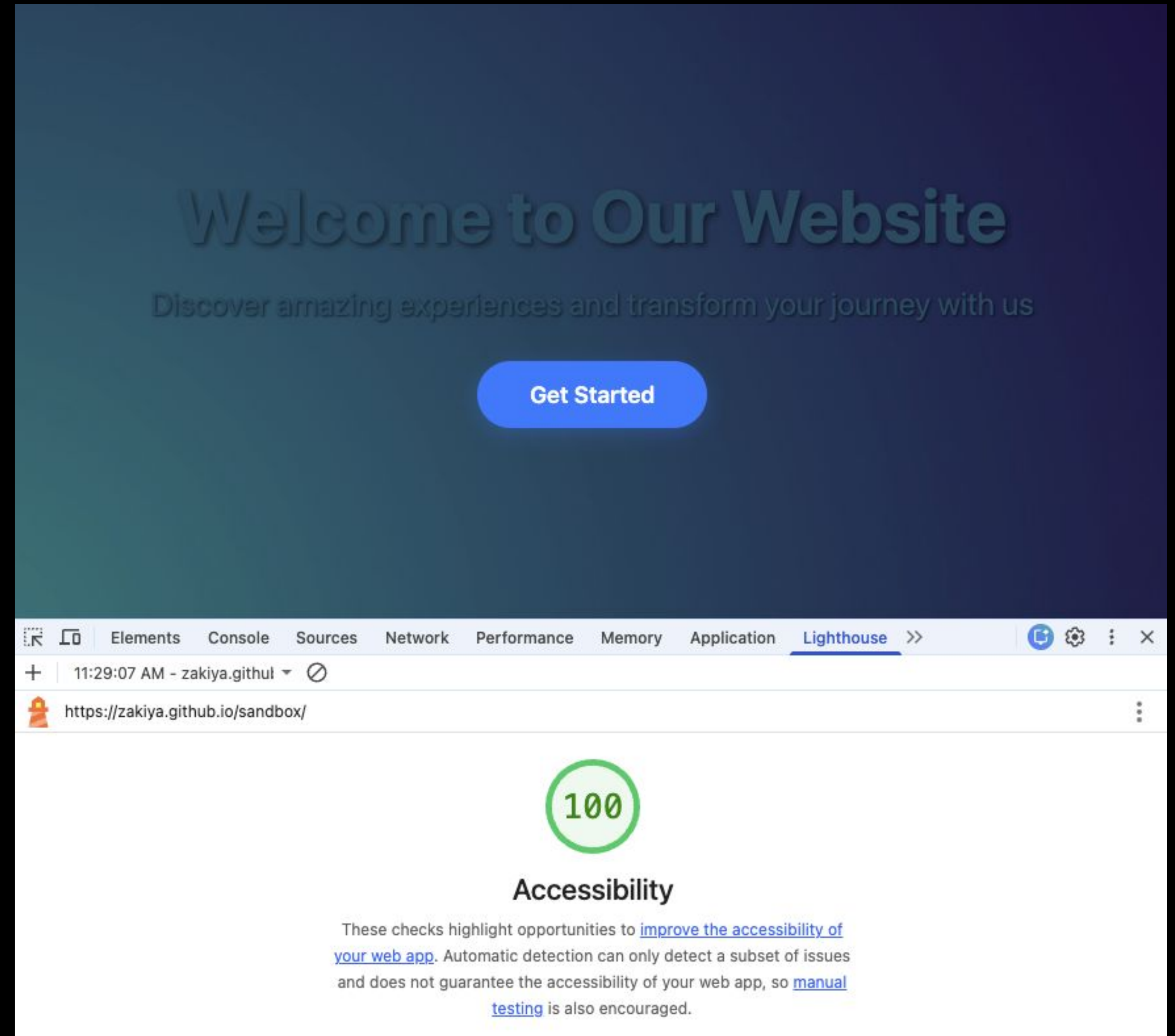
- Axe
- WAVE
- Playwright (for developers)



Automated testing

Limits

- Machines can't "see" contrast
- Automated tests can't detect things like keyboard traps



Automated testing

Limits - Alt Text

Bad alt text:

A satirical pamphlet

Good alt text:

This is a satirical learning pamphlet stating “It’s FREE, Geese are GIVING you a POND, It’s FREE GEESE ESTATE” with several geese pointing and honking at a pond.



Keyboard-only navigation

- Instructions
 - Use Tab to move around the web page
 - Use Shift+Tab to go backwards
 - Do NOT touch your mouse
- Ask yourself
 - Is there a Skip to Content function?
 - Can you reach all the menu items on the page?
 - If you click an accordion or other interactive element, can you do the reverse?

Poll #2

True or false: I know how to use the screen reader on my **work computer**



Poll #3

True or false: I know how to use the screen reader on my **mobile device**



Screen readers

- Narrator (Built into windows OS)
- NVDA (Open source software)
- JAWS (Freedom scientific software)
- Voiceover (IOS Screen reader both mobile and non-mobile)
- Talkback (Android OS Screen Reader)



Voice Recognition Software

- Windows Speech Recognition (Built into windows OS)
- Dragon Naturally Speaking
 - Dragon Anywhere (IOS/Android)
- Apple Dictation



Reporting and making change

- Chat with the experts in your department
- Find an ally (or ally)
- Talk with your supervisor
- Develop a QA plan that includes rigorous testing
- Share your findings

Resources

- [Colour Contrast Analyzer](#) (TPGi)
- [Contrast Checker](#) (WebAIM)
- [Create Accessible Digital Products](#) (Section 508)
- DOR's [Getting Started with Accessibility](#)
- DOR's [Seven Steps to Creating Accessible Documents](#)
- [Mozilla Aria Database and Guide](#)
- [Universal Design and Accessibility](#) (Section 508)
- [Web Content Accessibility Guidelines \(Quick Reference\)](#)

Resources 2

- [Documents Authoring Guide \(Section 508\)](#)
- [W3C 2.2 Coding Examples and Techniques](#)
- [Accessibility Techniques \(WebAIM\)](#)
- [The A11y Project Checklist](#)

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Q&A