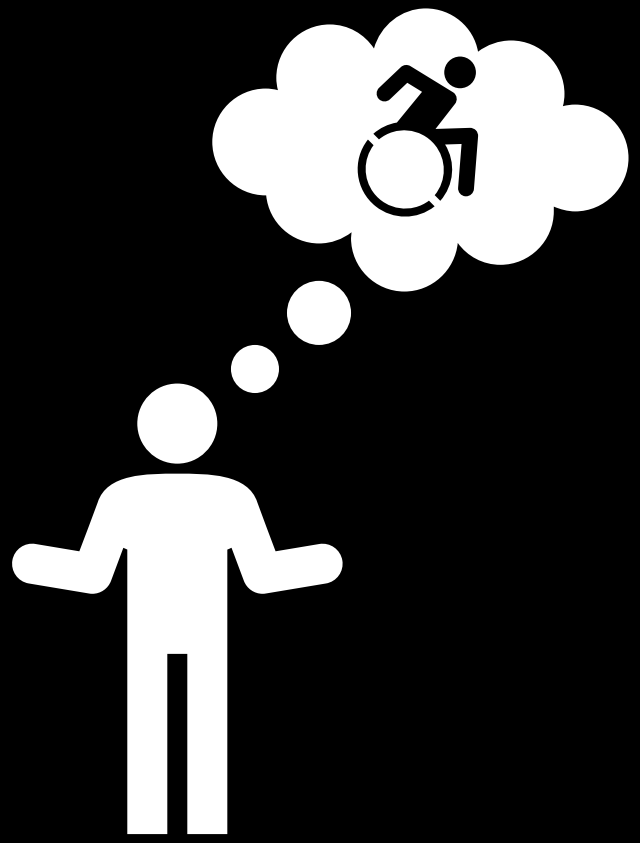
ACCESSIBILITY TESTING 101

AGENDA

- What is Accessibility?
- Why make things Accessible?
- How do we decide what is Accessible?
- Building Accessibility Test Plans
  - Example Test Plans
- Tools & Resources

WHAT IS ACCESSIBILITY?

- Accessibility
- Disability
- Assistive Technology
- A11y



WHAT IS ACCESSIBILITY - CONTINUED

Types	Time	Visibility
Hearing Vision Mobility Comprehension	Temporary Situational Permanent	Visible Invisible

WHY MAKE THINGS ACCESSIBLE?

By creating an experience where people can all access the same information and services, we help people:

- make more informed choices for themselves and their communities
- Feel more welcome (employee/customer retention)
- Encourage diversity in our communities and workplaces
- Be more innovative
- Don't miss out on the market
  - A Hidden Market: The Purchasing Power of Working-Age Adults With Disabilities | American Institutes for Research (air.org)

HOW DO WE DECIDE WHAT IS ACCESSIBLE?

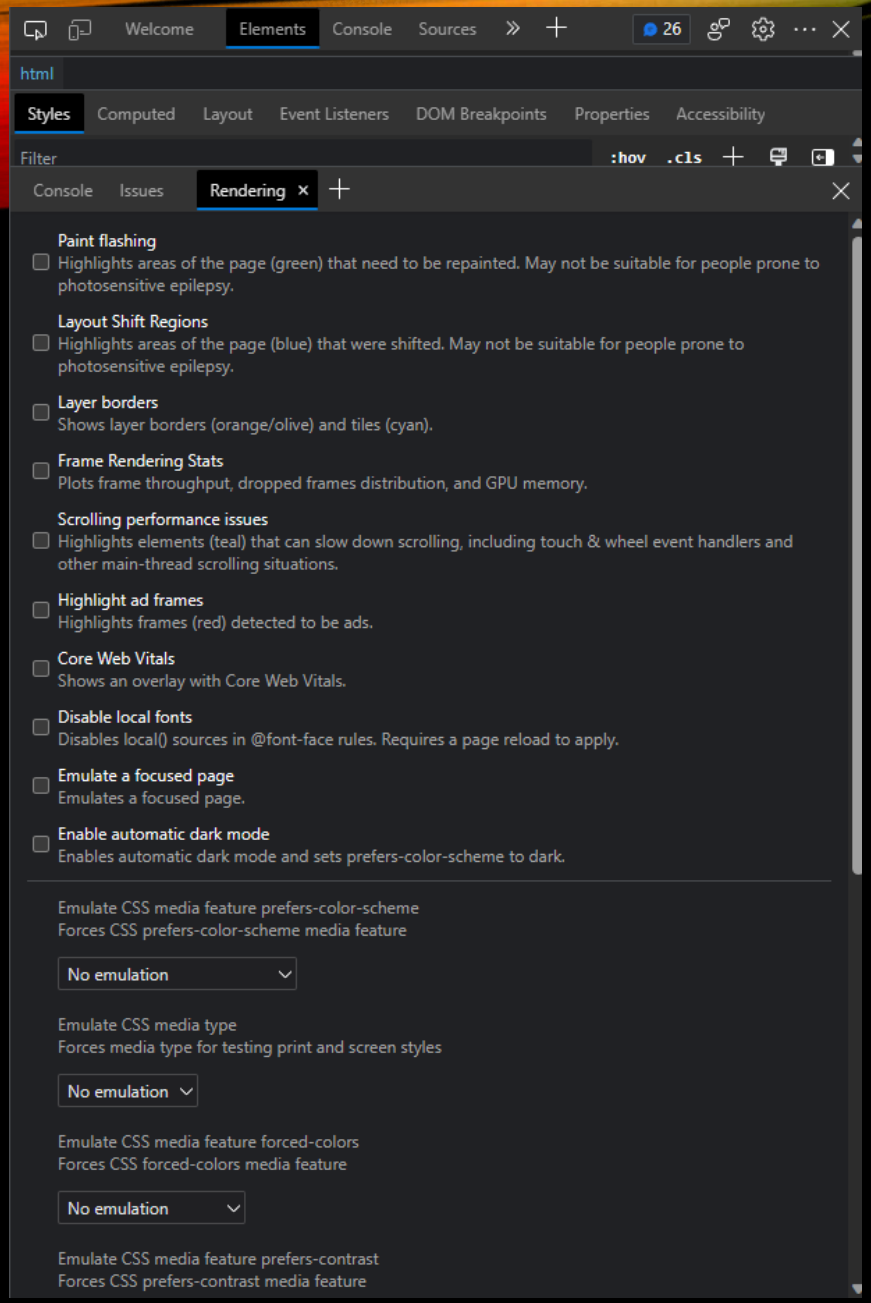
- **Experience**
- **User Feedback**
- **Guidelines**
  - Web Content Accessibility Guidelines (WCAG)
  - Authoring Tools Accessibility Guidelines (ATAG)
  - User Agent Accessibility Guidelines (UAAG)
  - Accessible Rich Internet Applications (ARIA)
  - Accessible Electronic Documents Community of Practice (AED COP)
- **Regulations**
  - Americans with Disabilities Act (ADA)
  - Section 508 of the Rehabilitation Act of 1973
  - Accessibility for Ontarians Act (AODA)
  - Learn more at: Web Accessibility Laws & Policies | Web Accessibility Initiative (WAI) | W3C

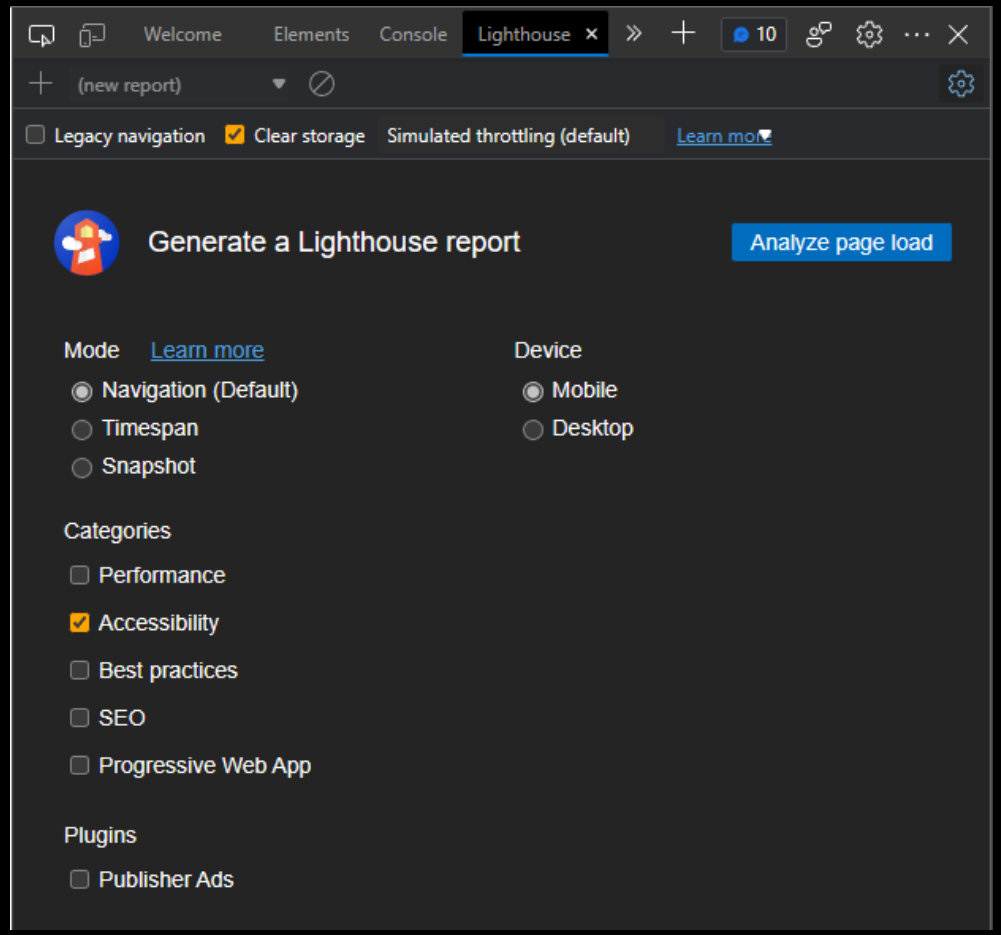
BUILDING ACCESSIBILITY TEST PLANS

- Shift left
- Manual and Automated
- Nothing without us
- Screen reader and Keyboard accessible
- Usually based around WCAG Guidelines
- Customize test methods for different environments:
  - Desktop, Mobile, Mobile Web, Native App
  - Chrome, Firefox, Edge, or other browsers
- **Example Test Methods/Plans:**
  - **VGAR** – Visa Global Accessibility Requirements
  - **Section 508 ICT Testing Baseline for Web** - This Baseline identifies the minimum requirements of any test process used to determine conformance of web content with the Revised Section 508 of the Rehabilitation Act of 1973, as amended (29 U.S.C. 794d)

TOOLS AND RESOURCES

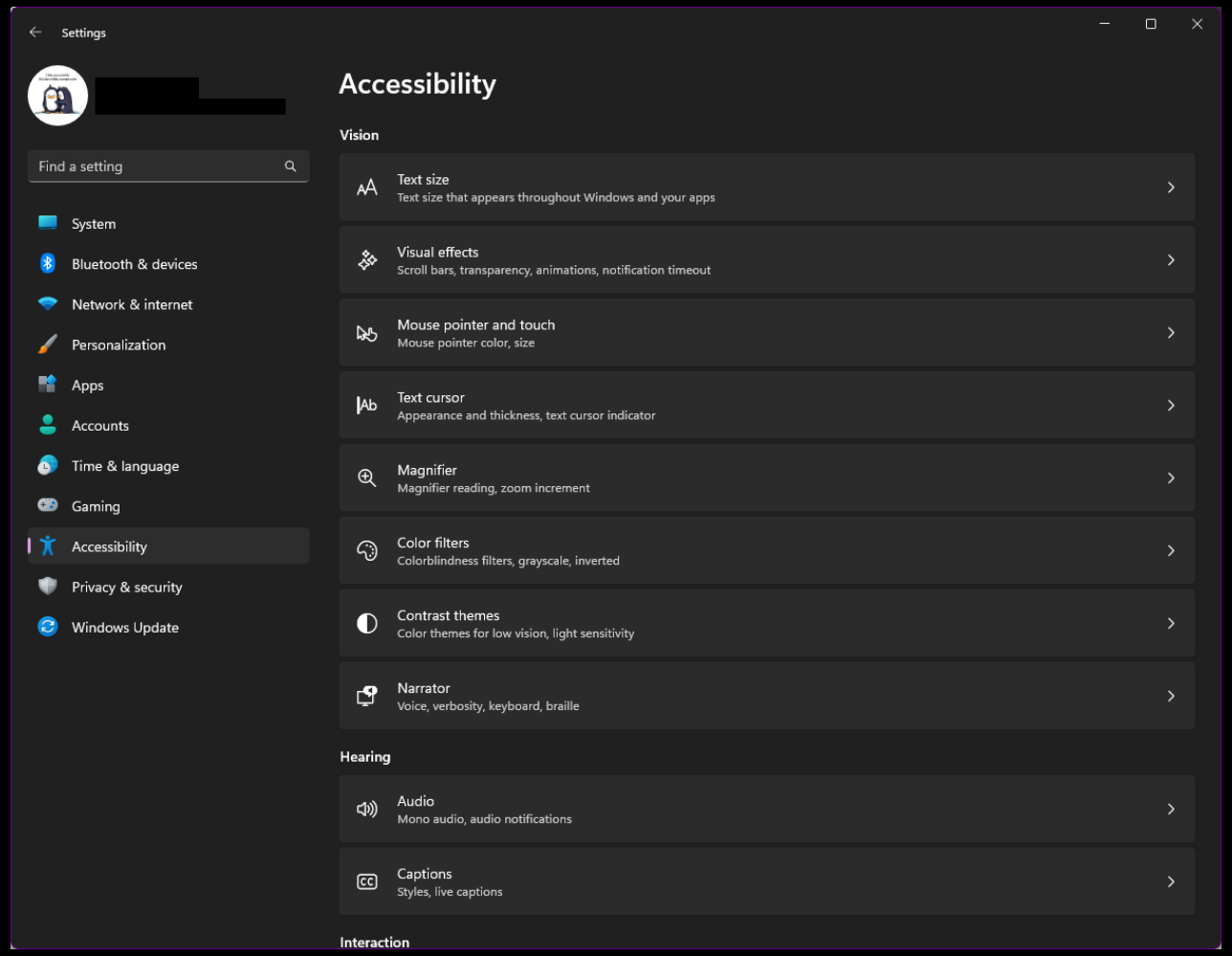
BUILT-IN TO BROWSERS

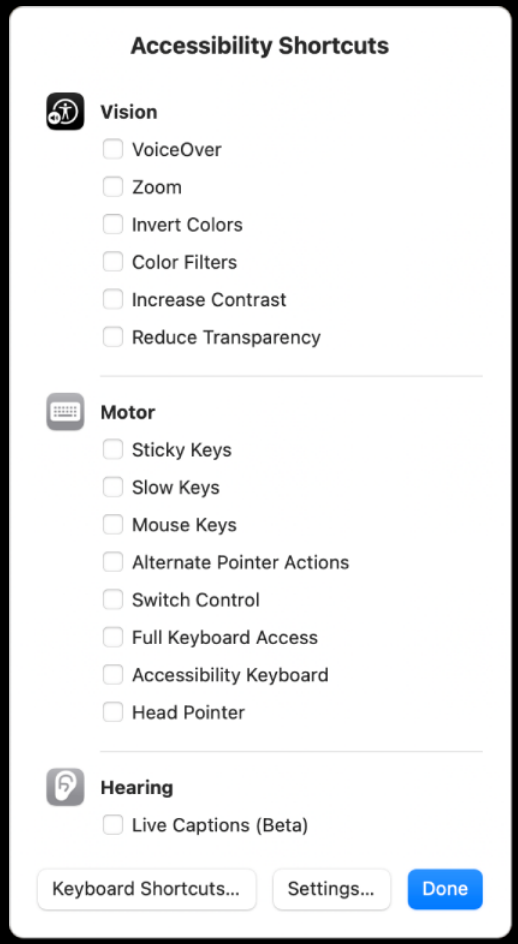




TOOLS AND RESOURCES

BUILT-IN TO OPERATING SYSTEM





TOOLS AND RESOURCES

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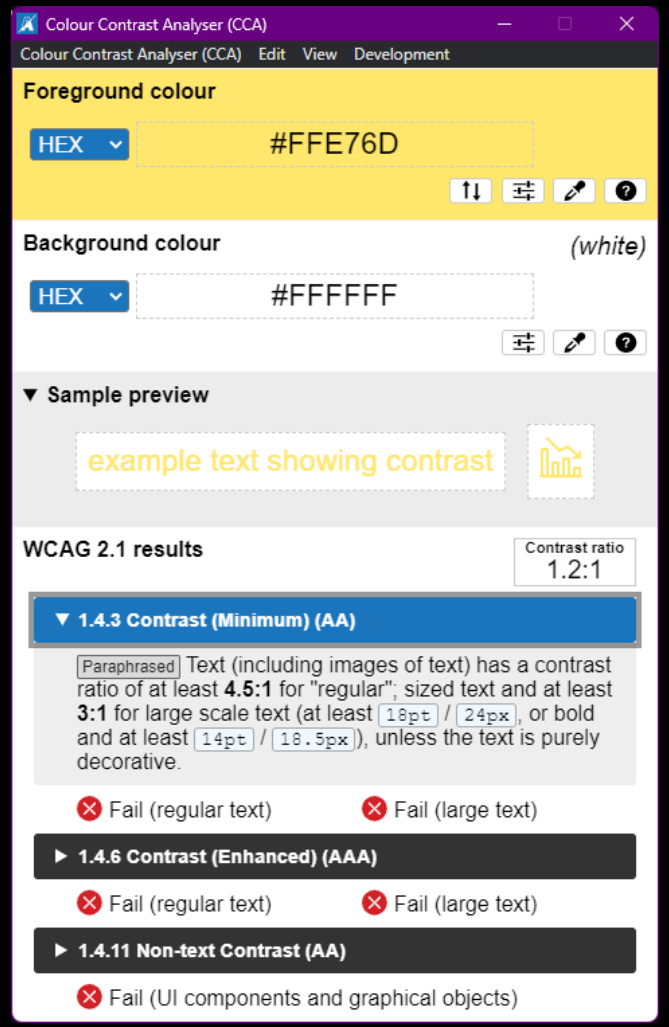
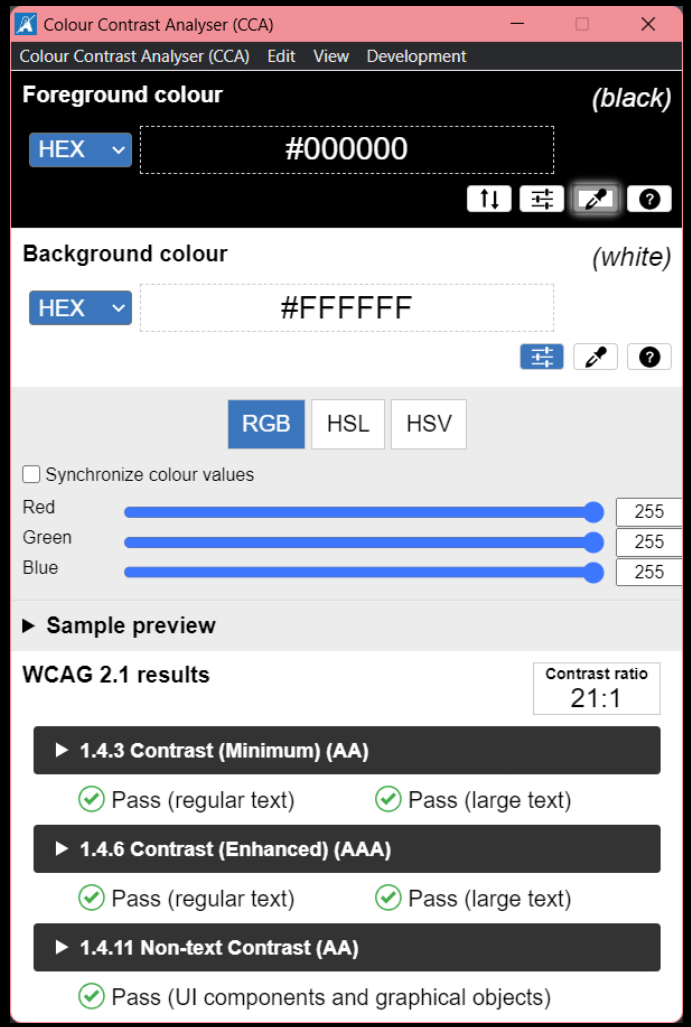
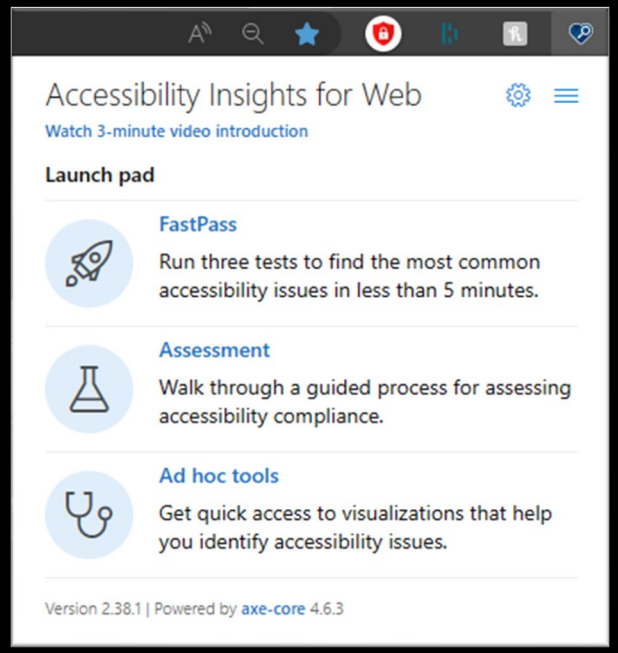
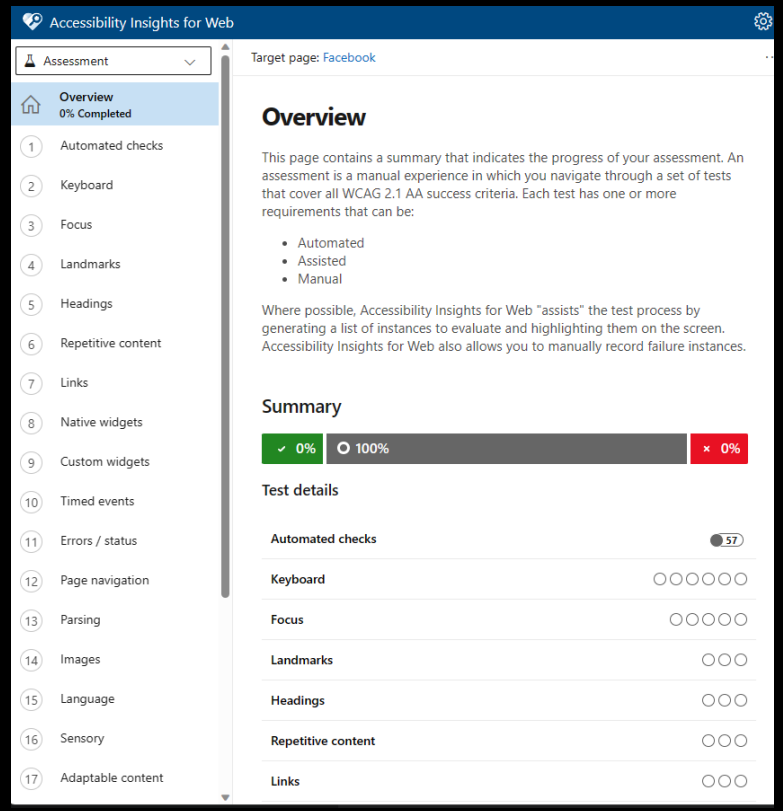


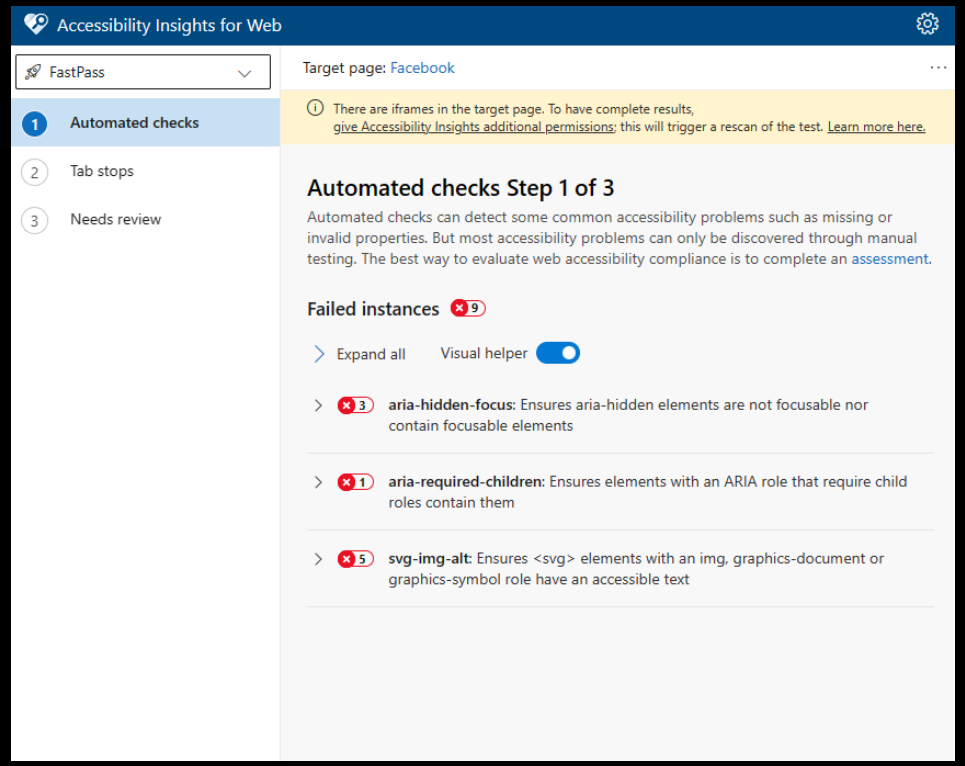


TOOLS AND RESOURCES

MICROSOFT ACCESSIBILITY INSIGHTS

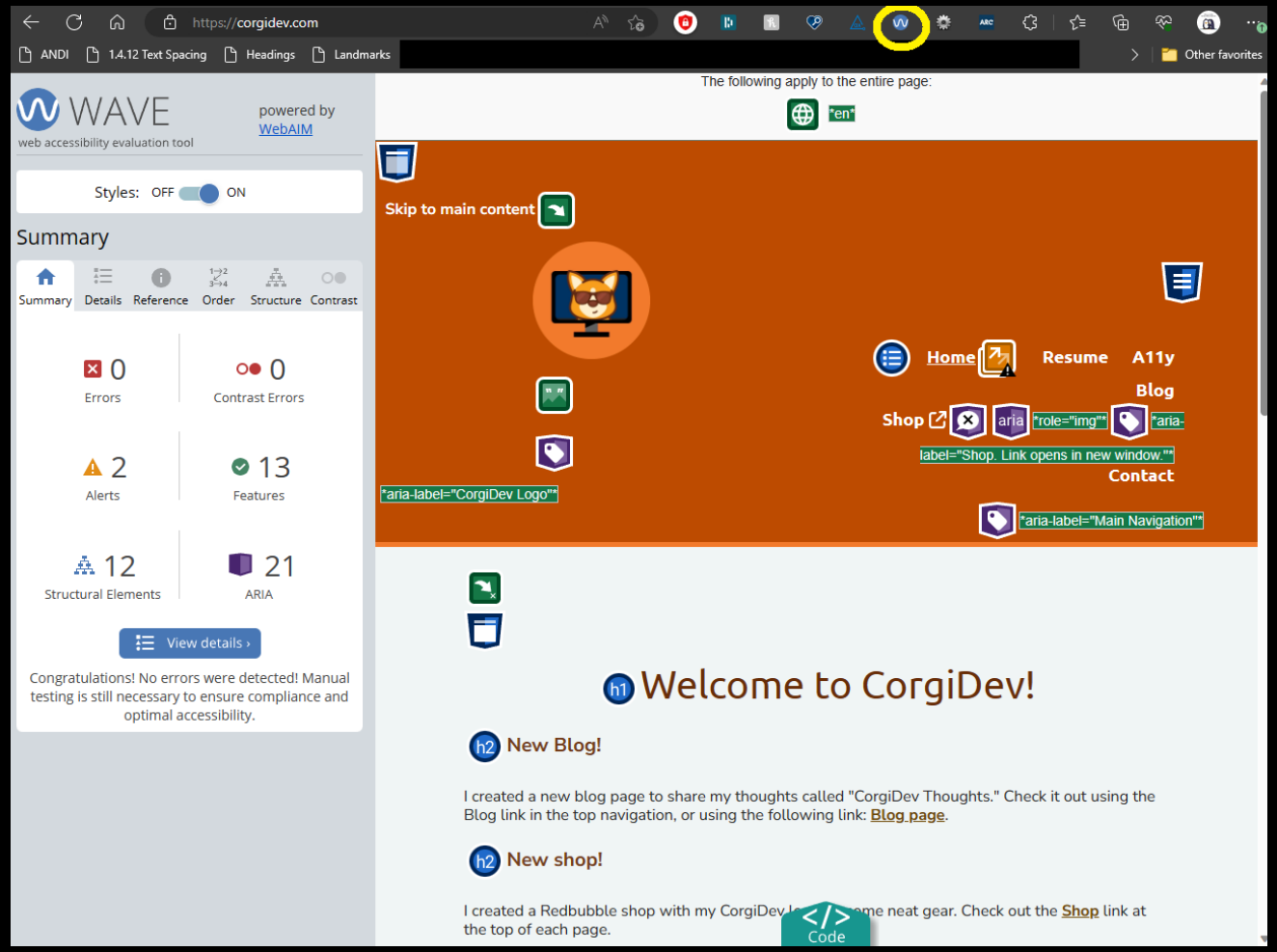


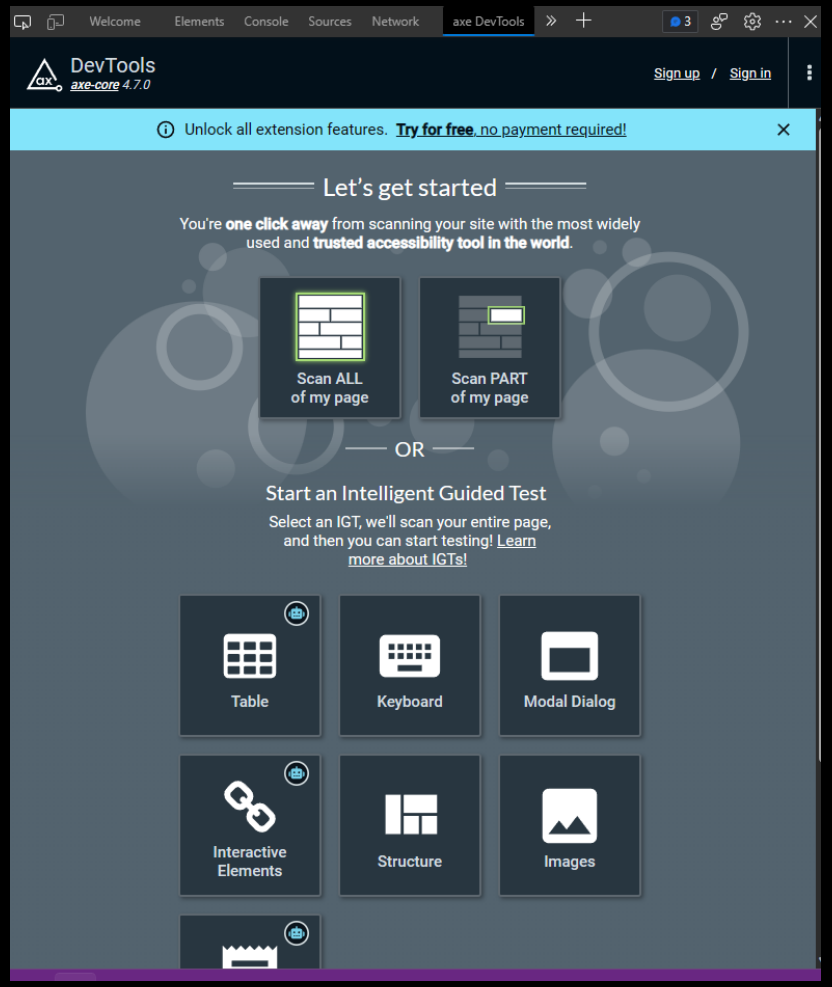




TOOLS AND RESOURCES

BROWSER EXTENSIONS & WEB APPS





TOOLS AND RESOURCES

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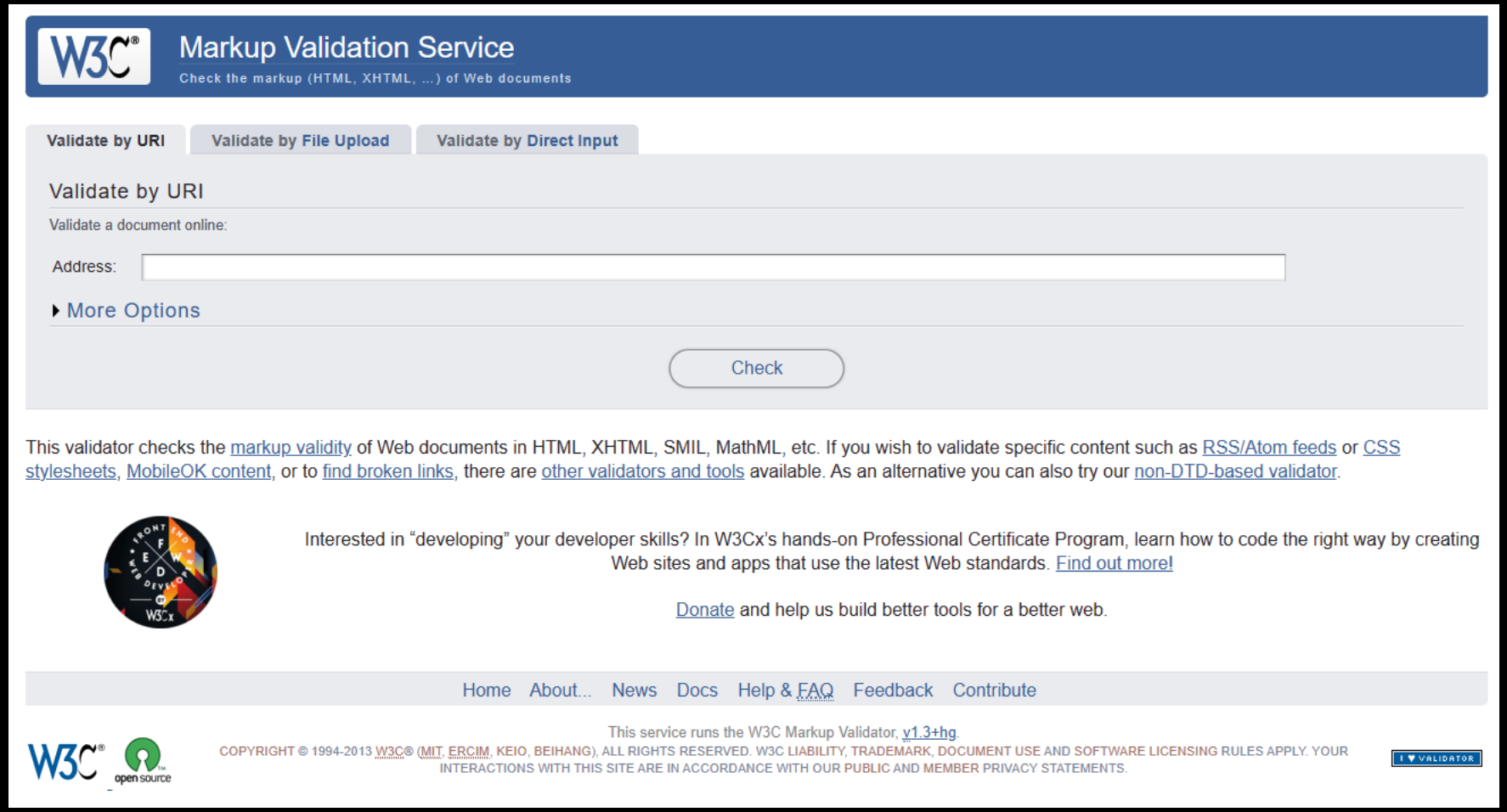


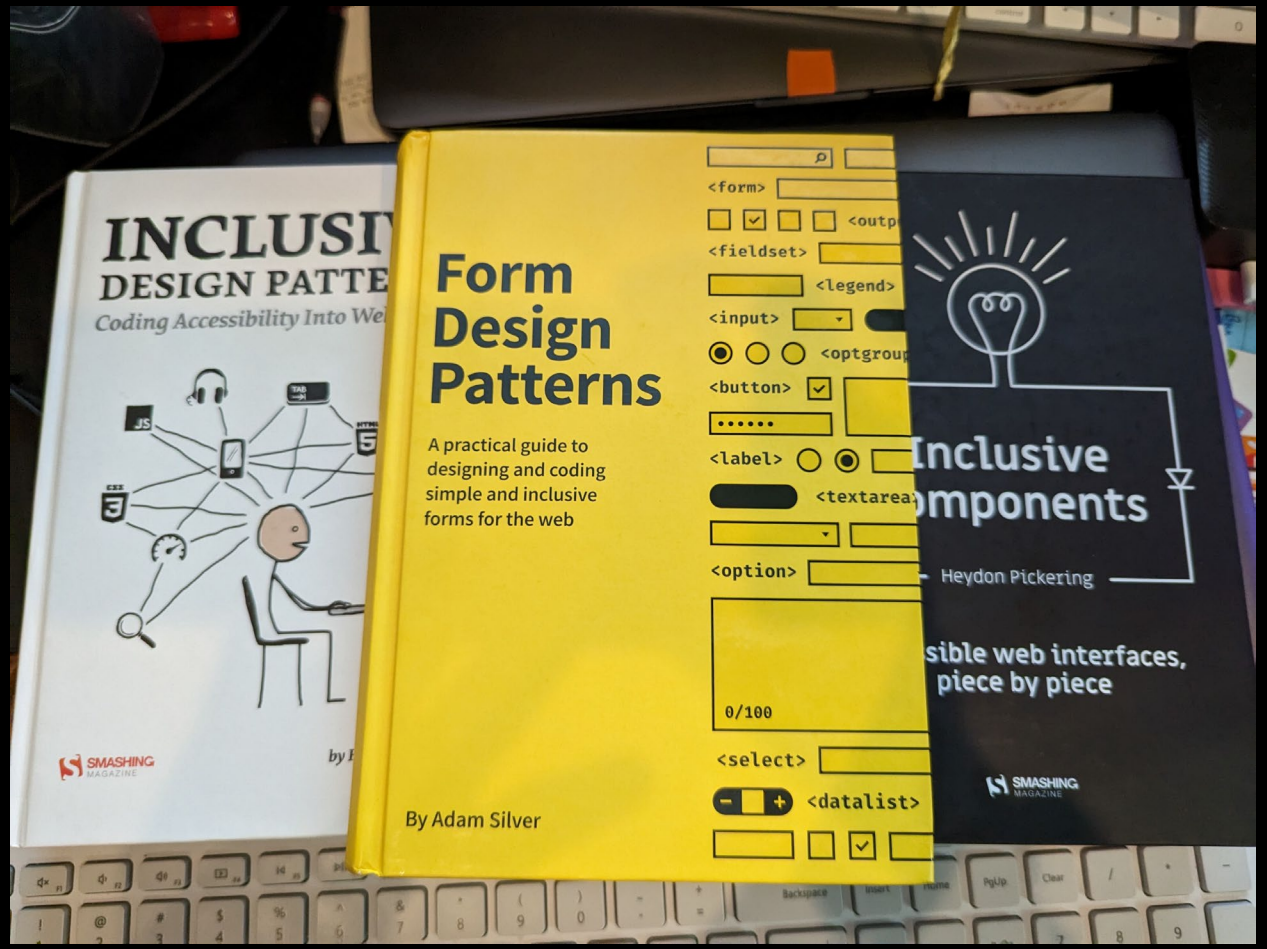
TOOLS AND RESOURCES

BOOKMARKLETS

- Find Landmarks on Web Page with A11Y Bookmarklet | HolisticA11Y
- Forms Bookmarklet for Accessibility Testing (pauljadam.com)
- ARIA Bookmarklet for Accessibility Testing (pauljadam.com)
- Text spacing bookmarklet - Bookmarklets (dylanb.github.io)
- Assorted Accessibility Bookmarklets for Landmarks, Headings, and more: Accessibility Bookmarklets (accessibility-bookmarklets.org)
- ANDI - Accessibility Testing Tool - Install (ssa.gov)

TOOLS AND RESOURCES

BOOKS (PHYSICAL AND EBOOK)



TOOLS AND RESOURCES

ADDITIONAL RESOURCES

- **Accessibility Insights** – Accessibility testing tool made by Microsoft
  - Has browser extension and desktop application versions
  - Also have the option to include the automated tests in CI/CD
  - DON'T depend on automated tests
- **NVDA** – free, open-sourced screen reader
  - View keyboard shortcuts on at the Deque article entitled: **NVDA Keyboard Shortcuts**.
- **Narrator** – screen reader built-in to Windows.
  - View keyboard shortcuts for Narrator in the Deque article entitled **Narrator Keyboard Shortcuts**.
- **VoiceOver** – is a built screen reader found on iOS and MacOS devices.
- **TalkBack** – is a built screen reader found on iOS and MacOS devices.
- **Microsoft Accessibility** on Twitter at **@MSFTEnable** and at on the **Microsoft Accessibility page**.
- **Microsoft Accessibility Fundamentals course**
- **ANDI –** Bookmark applet developed by the Social Security Administration to aid in Accessibility testing.
- **Accessibility - Erissa Duvall (corgidev.com)**

THANK YOU!

- https://corgidev.com
- https://github.com/CorgiDev/A11y-Materials - Under Presentations/2023 Presentations