iSoftStone

Testing Tools for Accessibility

This is an ever-growing list of publicly available tools which can be used to help assess and test your applications for accessibility compliance.

General Tools

Accessibility Insights for Web

Accessibility Insights for Web is a Chrome extension that helps developers find and fix accessibility issues in web apps and sites. The tool supports two main components.

- *FastPass* helps developers identify common, high-impact issues within five minutes.
- *Assessment* allows anyone with HTML site is skills to verify that a web app or web 100% compliant with Web Content Accessibility Guidelines (WCAG) 2.0 Level AA.

Accessibility Insights for Windows

Accessibility Insights for Windows helps developers find and fix accessibility issues in Windows apps. The tool supports three primary scenarios:

- *Live Inspect* allows developers to verify that an element in an app has the right UI Automation properties simply by hovering over the element or setting keyboard focus on it.
- *FastPass* is a lightweight, two-step process that helps developers identify common, high-impact accessibility issues in less than five minutes.
- Troubleshooting allows you to diagnose and fix specific accessibility issues.

Axe

Testing apps available for Chrome, Firefox, and Android. Coming soon to iOS. The axe scan engine is what Microsoft's Accessibility Insights tools check against.

Nu Html Checker

Parse HTML for correct formatting by entering HTML or a URL.

Tenon

Tenon website allows you to enter a URL to test or paste code directly for analysis.

Wave (Web Accessibility Evaluation Tool)

The WAVE Chrome and Firefox extensions allows you to evaluate web content for accessibility issues directly within Chrome and Firefox browsers. (WAVE also offers other tools including an enterprise-level tool that provides monitoring and reporting of accessibility over time.)

a11yTools Safari macOS by Paul J. Adam

a11yTools is a collection of HTML Web Accessibility Testing Tools in one location in an Extension for Safari used for quick and easy Accessibility testing. Run your favorite Accessibility testing tool and then take a screenshot showing the a11y error to developers and designers.

[a11yTools for iOS](#) by Paul J. Adam

a11yTools is a collection of HTML Web Accessibility Testing Tools in one location on your iPhone and iPad for quick and easy Accessibility testing. Run your favorite Accessibility testing tool and easily take a screenshot on your phone showing the a11y error to developers and designers.

Color, Contrast, and Vision

[Color Contrast Analyser](#) by Paciello

The Colour Contrast Analyser (CCA) is a desktop application for Windows/macOS that helps determine the legibility of text and the contrast of visual elements, such as graphical controls and visual indicators. Includes WCAG 2.1 compliance indicators, entering colors or using a color picker, alpha transparency support, and a colour blindness simulator.

[Color Contrast Tester by Joe Dolson](#)

Enter foreground and background colors in Hex, RGB, or HSL and see WCAG compliance results.

[Contrast Ratio Calculator](#) (MSF&W)

Enter hex values for foreground and background to receive the contrast ratio

NoCoffee vision simulator. NoCoffee allows you to layer simulations of visual impairments over any web page, as well as adjusting the intensity of different conditions.

- [**NoCoffee Chrome extension**](#)
- [**NoCoffee Firefox extension**](#)

[**Funkify**](#)

Funkify is an extension for Chrome that helps you experience the web through the eyes of some extreme users with several different abilities and disabilities.

PDF Accessibility

[**PDF Accessibility Checker PAC**](#)

Freeware program PAC provides a fast way to test the accessibility of PDF files

[**PDF File 508 Checklist | HHS.gov**](#)

Checklist based on WCAG 2.0 requirements.

Bookmarklets

Bookmarklets are unobtrusive JavaScript stored as the URL of a bookmark in a web browser or as a hyperlink on a web page. They can be utilized to target some aspects of accessibility testing on web pages.

[**Bookmarklets for Accessibility Testing**](#)

Bookmarklets for Accessibility Testing use JavaScript to highlight roles, states, and properties of

accessibility elements on the page. They are accessible to screen reader users and work on any browser including mobile phones.

Diagnostic.css by Karl Groves
Diagnostic.css is a CSS (Cascading Stylesheets) file which, when applied to a web page, will highlight accessibility errors in the page.

HTML_CodeSniffer
Client-side script that checks HTML source code and detects violations.

Other Accessibility Tools & Testing Resources

Powermapper Assistive technology compatibility tests
Shows results from using various combinations of ARIA, HTML, browsers, and screen readers. This provides insights into expected success and failures.

GitHub - paypal/AATT: Automated Accessibility Testing Tool
Integrate accessibility testing into your existing automation test suite using AATT. AATT includes HTML CodeSniffer, Axe and Chrome developer tool with Express and PhantomJS, which runs on Node.

My Post-CSUN Comparison of Web Accessibility Checkers | Terrill Thompson

Pa11y - Your automated accessibility testing pal
A range of free and open source tools to help designers and developers make their web pages more accessible. Much of it applies to testers as well.

Laws and checklists for testing accessibility (slide show) by Paul J. Adam

Author and Use

Version 1.0 – Presented at the Eastside Accessibility Meetup held on April 16, 2019, prepared by John Lukosky (johnl@isoftstone.com)

https://www.meetup.com/eastside-accessibility-meetup

Thank you to our sponsor, iSoftStone North America, for the use of the Kirkland training facility, office supplies, and providing the light snacks

Visit the iSoftStone Web site for more information on accessibility.

Covered under the GNU Free Documentation License. You may copy, redistribute, or modify this material for your own needs as long as credit is given to "Eastside Accessibility Meetup." 😊