High-level accessibility review – BTAA (Web of Science Platform)

Primary Point of Contact

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Web of Science Platform

Summary

Top 3 problems for the Web of Science Platform

This assessment covers portions of the Web of Science Platform. The assessment revealed moderate problems with screen reader compatibility, resulting in screen reader users rarely missing critical information needed to understand content and operate features.

- 1. **Non-Text Contrast** The visible focus indicator on several controls is inconsistent and sometimes results in low contrast.
- 2. Link Purpose In certain scenarios, link names are often repeated and the unique purpose / destination of each individual link is not programmatically available.
- 3. **Descriptive Labels** In certain scenarios, button labels are often repeated and the unique purpose / action of each unique button is not programmatically available.

Accessibility findings

Project wide issues

The issues presented in this section were identified in multiple pages and are recorded here to avoid repetition. These are applicable to each screen. Due to particularities, similar issues are still reported on a page per page basis, where applicable.

Automated findings using Axe

Issues found through automated testing come from the Axe plugin, an open source accessibility testing tool that is available for Chrome, Firefox and Edge. Details here: <u>https://www.deque.com/products/axe/.</u>

- 1. **SC 4.1.1 A –** The header and footer areas contain elements that have duplicated IDs. Elements that contain IDs MUST have unique IDs.
- 2. **SC 4.1.2 A** The 'Web of Science' logo in the header is linked, but the link is missing accessible link text, due to lack of aria-label and the nested image being hidden from AT using aria-hidden.

- 1. SC 2.4.7 AA The 'English', 'Products' and 'Sign In' controls do not receive a clearly visible focus indicator.
- 2. **SC 4.1.2 A** The 'Search' main navigation control does not programmatically indicate its 'current page' state.
- 3. **SC 2.4.6 AA** The 'Facebook' and 'Twitter' labels are inaccurate. For example, 'Facebook' is labelled, "Click to go to your Facebook account" when in fact, the link target is the Web of Science Facebook page.
- 4. **SC 2.5.3 A** The 'Open Resource Center' button does not include its full visible label. E.g. "16" is missing from "Open Resource Center".
- 5. **SC 1.4.10 AA** When a reflow viewport of 320px is applied, the 'Profile' content does not reflow, resulting in a horizontal scroll.

1. Web of Science Basic Search

Source: https://www.webofscience.com/wos/woscc/basic-search

Test case: Initial interface – menus & submenus, search boxes, etc.

Automated findings using Axe

1. No Issues

- 1. **SC 1.4.3 AA** The placeholder content "Example: liver disease india singh" is low in contrast. Foreground #CCCCCC on background #FFFFFF results in 1.6:1 contrast.
- 2. SC 2.4.7 AA The 'Search' control does not receive a clearly visible focus indicator.
- 3. **SC 3.3.2 A** The visible label for the search input does not remain visible after a user begins to enter data in the field.
- 4. **SC 2.4.6 AA** The label for the second, third, fourth etc. set of 'All fields' and 'Search' fields is inaccurate when new rows are added. The existing labels do not sufficiently indicate the purpose of each similarly named "duplicate" field.
- 5. SC 4.1.2 A The 'Documents' tab does not programmatically indicate its selected state.
- 6. **SC 2.4.6 AA** When 3 or more search rows are present, the "Remove this search row" button label is insufficiently descriptive.
- 7. **SC 1.4.10 AA** When a reflow viewport of 320px width is applied, content on the search section is overlapped and the input fields placeholders become clipped.

2. Web of Science Search Results

Source: https://www.webofscience.com/wos/woscc/summary/04826d4f-1ade-45ca-a6d9-2266cbff7574/relevance/1

Test case: Search for "ocean acidification" on initial landing page/interface. Test search results:

- o "Sort by" options defaulted to "relevance"
- o "Show More" option for article abstract/descriptions
- o Add citations to list (checkboxes and "Add to Marked List" button)
- o Refine Results (Publication Years: 2019-21, Document Type: Article)

Automated findings using Axe

- 1. **SC 4.1.2 A** The ARIA attribute 'aria-label' is used on elements that have no semantic role that supports this attribute.
- 2. **SC 1.1.1 A** Input images are missing an alt attribute that accurately describes the purpose of the input image.
- 3. **SC 4.1.2 A** An input image is nested within a button on the filters section. This is unsupported.

- 1. **SC 2.4.4 A** The 'View full text' and 'Related records' links do not have sufficient programmatic link names to differentiate between similarly named links.
- 2. **SC 1.4.10 AA** When a reflow viewport of 320px width is applied, content on the search results listing does not reflow and a horizontal scroll is necessary.
- 3. **SC 2.4.7 AA** The 'Analyze Results' control (and other purple-button style controls) does not receive a clearly visible focus indicator.
- 4. **SC 1.4.11 AA** The checkboxes focus indicators are low in contrast. Primary indicator color #D8D8D8 against an adjacent background #F5F5F5 results in 1.3:1 contrast.
- 5. **SC 1.4.3 AA** The placeholder "Search within results for..." is low in contrast. Foreground #CCCCCF against a background #FFFFFF results in 1.6:1 contrast.
- 6. **SC 1.4.13 AA** All tooltips that show when hovering over links / buttons cannot have their content hovered over by a mouse user without disappearing.
- 7. SC 2.5.3 A The 'ocean acidification (All Fields)' button does not include its visible label in Hage 50 ft 10

- 8. **SC 1.4.11 AA** The tab panel focus indicator is low in contrast. Primary indicator color #EAE6F3 against an adjacent background #F5F5F5 results in 1.1:1 contrast.
- 9. **SC 2.4.3 A** The 'Exclude' and 'Refine' buttons contain a positive tabindex value that results in an illogical tab navigation order.
- 10. SC 2.4.7 A All 'Show more' controls do not receive a visible focus indicator.
- 11. SC 2.5.3 A All 'Show more' controls do not include their visible name in programmatic name.
- 12. **SC 2.5.3 A** All 'Free Full Text From Publisher' controls do not include their visible name in programmatic name.
- 13. **SC 2.4.4 A** All search result checkboxes do not have a sufficiently clear programmatic label. The programmatic label should include the publication name in order to fully describe the checkbox purpose.
- 14. **SC 1.3.2 A** A screen reader user is able to access hidden content in all result summaries. The full summary text is available to screen readers, regardless of the visibility of the summary text.
- 15. **SC 1.4.3 AA** When hovered or focused, the "Add to Marked List" and "Export" controls are low in contrast. Text foreground #6737D0 against a hover/focus background #CCC6D9 results in 4.2:1 contrast.

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3. Web of Science – Individual Search Result

Source: https://www.webofscience.com/wos/woscc/full-record/WOS:000537178100008

Test case: Article landing page (ex: https://www.webofscience.com/wos/woscc/full-record/WOS:000537178100008)

Automated findings using Axe

- 1. **SC 1.1.1 A** Input images are missing an alt attribute that accurately describes the purpose of the input image.
- 2. **SC 4.1.2 A** The Volume "35" content uses the aria-labelledby attribute, which is invalid on an element without a semantic role that supports this attribute.
- 3. **SC 2.4.4 A** There are multiple "Results" links in the breadcrumb, that all have a unique destination but are missing additional context to differentiate their unique purpose.

- 1. **SC 2.4.4 A** The 'Full Text at Publisher', 'View full text', 'Free Full Text From Publisher' and 'Related records' links do not have sufficient programmatic link names to differentiate between similarly named links.
- 2. **SC 1.4.10 AA** When a reflow viewport of 320px width is applied, content on the 'Cited References' listing does not reflow and a horizontal scroll is necessary.
- 3. **SC 1.4.11 AA** The "Learn More" focus indicator is low in contrast. Primary indicator color #D8D8D8 against an adjacent background #F5F5F5 results in 1.3:1 contrast.
- 4. **SC 1.4.13 AA** All tooltips that show when hovering over links / buttons cannot have their content hovered over by a mouse user without disappearing.
- 5. **SC 2.4.3 A** All titles within 'Cited References' that are not linked contain a positive tabindex value that results in an illogical tab navigation order.
- 6. **SC 2.5.3 A** All 'Free Full Text From Publisher' controls do not include their visible name in programmatic name.
- 7. **SC 1.4.3 AA** When hovered or focused, the "Full text at publisher", "Export", "Add to Marked List" and similarly styled controls are low in contrast. Text foreground #6737D0 against a hover/focus background #CCC6D9 results in 4.2:1 contrast.

- 8. **SC 1.4.1 A** All links within the main document section and 'Citation Network' section rely on color alone to be distinguished as links separate from surrounding content.
- 9. **SC 2.4.4 A** In the main document section, there are multiple instances of the "use this arrow to open hidden information" button, and the programmatic label is not sufficiently descriptive to differentiate between the unique purposes of the affected controls.

4. Web of Science - Advanced Search

Source: https://www.webofscience.com/wos/woscc/cited-reference-search

Test case: Cited Reference Search page: https://www.webofscience.com/wos/woscc/cited-reference-search

Automated findings using Axe

1. No Issues.

Additional manual findings using NVDA screen reader

1. Not completed due to insufficient time

5. Web of Science - Reference Search Results

Source: https://www.webofscience.com/wos/woscc/citing-articles-refs-search/91aa961c-2724-43f5-a1e3-86ce114e0c9f/author-ascending/1

Test case: Cited Reference Search results for Cited Author: "Urquhart GR"

Automated findings using Axe

- 1. **SC 4.1.1 A** The pagination function contains an ID that is duplicated elsewhere on the page.
- 2. **SC 4.1.2 A** All checkboxes are missing a programmatic label that describes the purpose of the control.
- 3. **SC 4.1.2 A** All results with no data in the 'Identifier' column contain a link with no accessible link name / text.
- 4. **SC 4.1.1 A** The 'Cited Author' and 'Cited Work' buttons both have buttons nested within them. Buttons nested within buttons is an unsupported configuration.

Additional manual findings using NVDA screen reader

1. Not completed due to insufficient time