High-level accessibility review – LAA (BCC Research Platform)

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BCC Research Platform

Summary

Top 3 problems for the BCC Research Platform

This high-level assessment covers limited portions and functionality of the BCC Research Platform. The assessment revealed issues with assistive technology compatibility, resulting in some users missing information required to understand content, states and operate functions. It is important to keep in mind that the findings represent a high-level assessment, and do not reflect the results of a Deque Comprehensive Web Assessment.

1. **Contrast (minimum)** – Every page has contrast issues. The navigation which on most of the pages has contrast issues.

2. **Keyboard** – Large number of interactive elements cannot be reached or activated with the keyboard alone.

3. **Use of Color** – Many elements include several that are site wide do not have enough contrast between the text and background.

Accessibility findings

**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: [https://www.deque.com/products/axe/](https://www.deque.com/products/axe/).

1. **SC 4.1.2 A** – Name, Role, Value – The Email and phone icons do not have a role but use aria-label which is not allowed. These should have a role of image.

**Additional manual findings using NVDA screen reader**

1. **SC 1.3.1 A** – Info and Relationships – “Contact” and “Connect With Us” text appear and function like headings but are not marked up as such.

2. **SC 1.4.11 AA** – Non-text Contrast – Search Field and search button focus indicator lacks 3:1 contrast with inner and outer background. Focus Indicator: #B9AEF5, Inner Background: #735FED, Contrast: 2.3:1, Outer background: #ffffff, Contrast: 2:1.

3. **SC 1.4.11 AA** – Non-text Contrast – Side navigation buttons (My categories, company index, etc.) focus indicator lacks 3:1 contrast with inner and outer background. Focus Indicator: #A6A6A6, Inner/Outer Background: #EDEDED, Contrast: 2.1:1.

4. **SC 2.4.7 AA** – Focus Visible – The hamburger menu icon and the BCC Research Logo link receive focus but are missing a focus indicator.

5. **SC 2.4.7 AA** – Focus Visible – The social media links in the footer receive focus but are missing a focus indicator.

6. **SC 4.1.2 A** – Name, Role, Value – When side menu items are expanded the expanded attribute is not be set properly and not announced to screen readers.
1. Landing Page

Source: https://academic-bccresearch-com.offcampus.lib.washington.edu/member/index/libraryhome

Test case: Test initial interface/landing page to ensure menus (including side menu), sub-menus, search box, images, icons, etc. are accessible.

Automated findings using Axe

1. **SC 1.4.3 AA – Contrast (Minimum)** – Blog button and Dec report catalog text does not have at least 4.5:1 contrast with the background. Button Text: #ffffff, Background: #F1B34B, Contrast: 1.9:1.

2. **SC 1.4.3 AA – Contrast (Minimum)** – Reports and Podcast text does not have at least 4.5:1 contrast with the background. Button Text: #ffffff, Background: #5B72E7, Contrast: 4.2:1.

3. **SC 1.4.3 AA – Contrast (Minimum)** – Download E-Book button text does not have at least 4.5:1 contrast with the background. Button Text: #ffffff, Background: #FFB748, Contrast: 1.7:1.

4. **SC 1.4.3 AA – Contrast (Minimum)** – “Full list of available reports download”, “complete list of company index”, and “create your own custom keyword alert” text does not have at least 4.5:1 contrast with the background. Button Text: #ffffff, Background: #5B72E7, Contrast: 4.2:1.

Additional manual findings using NVDA screen reader

1. **SC 1.1.1 A – Non-text content** – Blog, Trending, Catalog, Podcast, Custom Research, and Need help icons are decorative but are read by screen readers. Set alt=”” for each image.

2. **SC 1.3.1 A – Info and Relationships** – Welcome Member, Just Released, and Upcoming Reports appear and function as heading but are not marked up as such.

3. **SC 1.4.11 AA – Non-text Contrast** – The focus indicator for Trending and Podcasts does not have at least 3:1 contrast with the inner background. Focus: #767676, Background: #5B72E7, Contrast: 1.1:1

4. **SC 1.4.11 AA – Non-text Contrast** – Focus state of “Download E-Book” button does not have at least 3:1 contrast with the inner or outer background. Focus Indicator: #FFDAA3, Inner Background: #FFB748, Contrast: 1.3:1, Outer Background: #ffffff, Contrast: 1.3:1.

5. **SC 2.4.4 A – Link Purpose (in context)** – There are multiple learn more links that go to different information but have the same programmatic text. Learn more should use programmatic text that includes info about the destination. Such as “Learn More about Custom Research”.
2. Search Results – Bioinformatics

Source: https://academic-bccresearch-com.offcampus.lib.washington.edu/member/index/search?search_keyword=bioinformatics&srch_opt=2

Test case: From the initial landing page, conduct a search for: bioinformatics. Test search results page, sort by options. Select Advanced Search to test if limits/refine search options are accessible (select 2023).

Automated findings using Axe

No automated issues detected.

1. **SC 1.4.1 A** – Use of Color – The show all reports link does not have at least 3:1 contrast with the surrounding text. Link: #114c92, Surrounding Text: #282828, Contrast: 1.7:1.

2. **SC 1.4.3 AA** – Contrast (Minimum) – The feedback button text does not have at least 4.5:1 contrast with the background. Button Text: #ffffff, Background: #FFB748, Contrast: 1.7:1.

Additional manual findings using NVDA screen reader

1. **SC 1.4.11 AA** – Non-text Contrast – The focus indicator for “advanced search,” “apply filter,” and “Reset” do not have at least 3:1 contrast with the background. Focus: #B9AEF5, Background: #ffffff, Contrast: 2:1

2. **SC 2.1.1 A** – Keyboard – Sort by and close button for refine your search cannot be reached or activated with the keyboard alone.

3. **SC 2.4.7 AA** – Focus Visible – The filter buttons (search in, report title, life sciences, etc.) receive focus but do not have a visible focus indicator.

4. **SC 2.4.7 AA** – Focus Visible – The *concierge@bccresearch.com* link receives focus but does not have a visible focus indicator.

5. **SC 2.4.7 AA** – Focus Visible – The filter buttons (search in, report title, life sciences, etc.) receive focus but do not have a visible focus indicator.

6. **SC 2.4.7 AA** – Focus Visible – The article title links (Bioinformatics: Technologies and Global Markets,
2021 Biotechnology Research, etc.) receive focus but do not have a visible focus indicator.

7. **SC 2.4.7 AA** – Focus Visible – Pagination button (previous page, page number, next page) receive focus but do not have a visible focus indicator.

8. **SC 4.1.2 A** – Name, Role, Value – Current page the user is on in the pagination does not have aria-current attribute set.

9. **SC 4.1.2 A** – Name, Role, Value – Sort by buttons are missing a role and a selected state.

10. **SC 4.1.2 A** – Name, Role, Value – Close button is missing a role and a name.

11. **SC 4.1.3 AA** – Status Messages – When the user changes between sort by options there is a loading spinner that is not announced to the screen reader.
3. Individual Search Results


Test case: Test individual search result (report) landing page & test report, including side menu/table of contents, highlights, moving through chapters, etc.

Automated findings using Axe

1. **SC 1.4.3 AA** – Text Contrast (minimum) – The orange number of chapters text (23 occurrences) does not have at least 4.5:1 contrast with the background. Text: #FF6600, Background: #ffffff, Contrast: 2.9:1
2. **SC 1.4.3 AA** – Text Contrast (minimum) – The text on chapters and subheadings (31 occurrences) does not have at least 4.5:1 contrast with the background. Text: #1881b1, Background: #ffffff, Contrast: 4.4:1
3. **SC 1.4.3 AA** – Text Contrast (minimum) – The white text on gold buttons (3 occurrences) does not have at least 4.5:1 contrast with the background. Text: #ffffff, Background: #DAAD4E, Contrast: 2.1:1
4. **SC 1.4.4 AA** – Resize Text – The metaname="viewport" disables text scaling and zooming.
5. **SC 4.1.2 A** – Name, Role, Value – Search in this report combobox does not have an accessible name.
6. **SC 4.1.2 A** – Name, Role, Value – Document has multiple elements referenced with ARIA with the same ID attribute (dropdownMenu1).
7. **SC 4.1.2 A** – Name, Role, Value – My Account menu is using aria-expanded attribute without a proper role. Role should be set as button.

Additional manual findings using NVDA screen reader

1. **SC 1.4.11 AA** – Non-text Contrast – Search icon does not have at least 3:1 contrast with the background. Icon: #ffffff, Background: #DAAC57, Contrast 2.1:1
2. **SC 2.1.1 A** – Keyboard – Primary menu items with submenus can be clicked on with the mouse and opened but they cannot be activated with the keyboard alone.
3. **SC 2.1.1 A** – Keyboard – My account menu cannot be reached or opened with the keyboard alone.
4. **SC 2.1.1 A** – Keyboard – PDF link cannot be reached or opened with the keyboard alone.
5. **SC 2.1.1 A** – Keyboard – Tree menu of chapters cannot be reached or activated with the keyboard
alone.

6. **SC 2.1.1 A** – Keyboard – previous and next buttons cannot be reached or activated with the keyboard alone.
4. Trending Reports Landing Page

Source: https://academic-bccresearch-com.offcampus.lib.washington.edu/member/index/trending-reports

Test case: From the initial interface, select Trending Reports section, Trending Reports landing page, and one report landing page.

Automated findings using Axe

1. **SC 1.4.3 AA** – Contrast Minimum – The table headings (Report Code, Report Heading, etc.) do not have at least 4.5:1 contrast with the background. Text: #2962ff, Background: #2962ff, Contrast: 4.49:1.

2. **SC 1.3.1 A** – Info and Relationships – The pagination is an unordered list (UL) but contains direct children other than list items (LI).

Additional manual findings using NVDA screen reader

Not completed due to insufficient time.