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SUMMARY

This report reflects the findings of a high-level assessment of Emerald Insights for its conformance with the W3C Web Content Accessibility Guidelines version 2.1 (WCAG 2.1).

There are very few WCAG 2.1 compliance issues with Emerald Insights, and the few that are present are programmatic in nature and should be relatively easy to fix. However, creating an accessible platform is a constantly moving goalpost, so it is important to keep in mind that there are continual updates to the WCAG standards that may require more work in the future. Below are the most critical issues to focus on correcting to improve access for all potential users of the system.

Top Findings

1. **Compatibility:** The biggest issue with the Emerald system is in the implementation of ARIA, and there are very few of these issues. Most of them seem to be related to the same elements and are persistent across the database. For an in-depth guide to ARIA implementation, please see the WAI-ARIA Authoring Best Practices Guide from W3.

2. **Contrast:** Several color contrast issues were flagged by automatic analysis tools that should be further investigated. However, these may only be potentially a programmatic issue. Note that while not currently an issue with WCAG 2.1, WCAG 2.2 will have updated criteria surrounding keyboard focus and focus rings.

3. **Keyboard focus:** While there are currently no issues with keyboard focus, it may be important to take a look at the WCAG 2.2 draft and prepare for upcoming changes.
ACCESSIBILITY FINDINGS

This report was conducted against Emerald Insights and covers a selection of pages and features that were to be tested as a representative sample of the database’s conformance to the WCAG 2.1 AA standards.

The resource was reviewed using a combination of manual and automatic review tools and assistive technologies, including the WAVE Accessibility Assessment tool, Axe Accessibility Assessment tool, WCAG Color Contrast Checker, and NVDA screen reader. All problems identified by automatic tools were double checked manually. This evaluation was performed using Firefox on Windows 10.

Below are the findings revealed during the accessibility evaluation of Emerald Insights.

1. Initial Interface

Test Case: Test initial interface/landing page to ensure menus, sub-menus, search box, images, icons, etc. are accessible.

SC 1.3.5: Screen reader announces the search bar as a combobox, but there are no additional search parameters to be selected.

SC 4.1.2: Aria hidden element must not be focusable or contain focusable elements; location: .intent_button_submit
**SC 4.1.2**: Landmarks should be unique; location: .navbar

- All content should be contained by landmarks; location: .header-feedback__link-cookie-button
- Possible color contrast issues, need further investigation

2. **Search Results**

**Test Case**: From the initial landing page, conduct a search for: “climate change.” Test search results page, including filters/refine search. Select “Only content I have access to” under Access and sort by Newest to oldest. Change per page results from “10” to “50.”

**SC 4.1.1**: IDs of active elements must be unique; location: .intent_search_result.card-shadow.is-animated:nth-child(43) > .intent_item.Search-item__list__item.px-md-0 > .pb-3.flex-row.d-lg-flex > .mnw-lg-25.my-lg-0.pl-2 > .pt-2 > .mb-2:nth-child(5) > a[href="javascript::"]

**SC 4.1.1**: IDs used in ARIA and labels must be unique; location: .intent_search_result.card-shadow.is-animated:nth-child(1) > .fade.d-none.abstract > .col-md-5.pl-1.pl-md-4 > .intent_keywords.mt-4 > .mb-0.h4.intent_title

**SC 4.1.1**: id attribute value must be unique; location: .intent_search_result.card-shadow.is-animated:nth-child(1) > .fade.d-none.abstract > .col-md-5.pl-1.pl-md-4 > .intent_keywords.mt-4

**SC 4.1.2**: Elements must only use allowed ARIA attributes; 51 instances; needs further review.
3. Individual Results

**Test Case:** Click on the first article to test the individual search result landing page. Test the table of contents in the left pane. Test references and tables and figures within the article, and also test the PDF by selecting the PDF icon near the top of the screen.

**SC 4.1.2:** Elements must only use allowed ARIA attributes; location: .text-primary

**SC 4.1.2:** ARIA attributes must conform to valid values; location: #article-tab

4. Advanced Search

**Test Case:** Test Advanced Search and Browse Our Content pages.
SC 4.1.2: Interactive controls must not be nested; 6 instances; location: .mr-3[role="option"]:nth-child(1-6)

5. “Browse Content” Pages (4)

Test Case: Test Advanced Search and Browse Our Content pages.

No unique issues found on any of the 4 “Browse Content” pages.

Disclaimer: This high-level evaluation was conducted for the Library Accessibility Alliance, and represents a good faith effort conducted within a limited time frame. It should not be assumed to be complete or free from error. No warranties or guarantees are implied. UT is not responsible for direct, indirect, or incidental damages based on this work; its use or interpretation by any individual, group, or organization; or on conditions beyond our control.