

High-Level Accessibility Evaluation (WCAG 2.1)

Africa Commons Platform

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Prepared for: BTAA-Library Accessibility Alliance

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SUMMARY

This report reflects the findings of a high-level assessment of Africa Commons platform 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 the platform, 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. **Color Contrast:** The paramount issue with the platform is color contrast. There are a couple of repeated contrast violations across pages, as well as across page-specific violations. An easy fix is to ensure that the contrast between text and the background is 4.5:1 for regular text. Also note that placeholder text must also meet contrast.
- 2. **Compatibility** There are a few very minor issues with compatibility across all pages, and these are very minor issues that can be easily fixed. When authoring for ARIA be sure to reference the <u>WAI-ARIA Best Practices</u> from W3.
- 3. **Usability:** Minor issues with usability were identified in the evaluation. Simple corrections can make a sizable difference.
 - The repeated periods in the Table of Contents for an individual result should be hidden from the screen reader.
 - There are multiple ways of implementing a dropdown menu based on the content and context, however, drop menus should follow appropriate ARIA implementation.



ACCESSIBILITY FINDINGS

This report was conducted against the Africa Commons platform 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 errors revealed during the accessibility evaluation of Africa Commons platform. Each result shows a summary of accessibility issues and reason it was flagged. Screenshots are included.

1. Initial Interface

Test Case: Test initial interface/landing page to ensure menus, sub-menus, search box, images, icons, etc. are accessible. URL: https://africacommons-net.offcampus.lib.washington.edu

| Orgenizations Collections Dev | cuments Lists Topics Mo | dules | Repiter Login | |
|--------------------------------|--|-------------|-----------------------|--|
| Q Search The Inseas Stategy | utv ekualian 1658 astensions Statuente a | aaty Ø | Atread fant | |
| Organizations 1 | Documents 321 | Tepica 2 | Collections 1 | |
| Featured Organizations | | DISA | A Kwame Nkrymah | |
| Featured Lists | SHARPEVILLE | | Discover more lists + | |



SC 1.4.3: Elements must have sufficient color contrast. **Location(s):**

- <button class="z-10 btn bg-brand text-contrast rounded-md mt-2 justify-center outline-offset-4" type="submit" name="subscribe">Subscribe</button>
- Translate

Reason flagged:

- Element has insufficient color contrast of 2.59 (foreground color: #ffffff, background color: #b69c86, font size: 10.5pt (14px), font weight: normal). Expected contrast ratio of 4.5:1
- Element has insufficient color contrast of 1.05 (foreground color: #444444, background color: #44403c, font size: 9.0pt (12px), font weight: bold). Expected contrast ratio of 4.5:1

2. Search Results

Test Case: From the initial landing page, conduct a search for: poetry. Test search results page, including filtering the Collection to Drum Magazine. Test Sort By option to Date (Older First) and change the number of page results from 10 to 50.

| Africa Commons (m) Organizations Collections | Documents Lists Topics Modules | Register Login | |
|--|--|----------------|--|
| Q poetry | Defended seest | | |
| Search for <i>poetry</i> ^{29 results} | O follow [30 results ★] [Sort by: Date (sider first) ★] [Eq. | ert * | |
| Content Decements © Decement Type Magazine © Link © Report © Other © Other © Other © | Drum December 1955 Drum Publications - 1 December 1955 Drum Publications - 1 December 1955 December 1956 Mather with the test At the faster with when the faster At the faster with when the faster in the none de-faster balanceburg Dat Leading ontic throughout the country tool notice of his endemount, but here here proved in the faster of | ily Express | |
| Arrea House Language tryliah 2023 2022 203 2004 1979 0 1973 0 | Mututes until the test In Nils pare time he wrote poetry for the Bannu Would Drum October 1999 Drum Publications - 1 October 1999 Mututes until the test It was the day the point up to those new pieces of poetry in the Cape Tavel Loss Europeans Only Between X | D Anton In: | |
| 1973 1972 © | Drum March 1961 | Add to list | |



SC 1.4.3: Elements must have sufficient color contrast. **Location(s):** *This issue has multiple instances across this page.*

Reason flagged:

- Element has insufficient color contrast of 3.94 (foreground color: #808080, background color: #ffffff, font size: 9.6pt (12.8px), font weight: normal). Expected contrast ratio of 4.5:1
- Element has insufficient color contrast of 2.59 (foreground color: #ffffff, background color: #b69c86, font size: 10.5pt (14px), font weight: normal). Expected contrast ratio of 4.5:1
- Element has insufficient color contrast of 1.05 (foreground color: #444444, background color: #44403c, font size: 9.0pt (12px), font weight: bold). Expected contrast ratio of 4.5:1

3. Individual Results

Test Case: Click on a journal issue and test the Table of Contents. Click on Read to test the full-text access.

| | Africa Commons see: Organizations Collections Documents Lists Topics Modules Search | Q Register Legin |
|------|--|-------------------|
| | BRING BOOK | |
| Hom | ne / Organizations / Drum Publications / Drum Magazine / Magazine | |
| | 20.506 12552/06d62w | |
| | rum December 1955 | |
| 10 | lecember 1955 | |
| | □ Read Share Et Che □ Add to list | |
| | immary | Drum Publications |
| Thir | s is a magazine published by Drum Publications in December 1955. | STORE EMPROVED |
| Seri | ies Drum Magazine Q | |





SC 1.4.3: Elements must have sufficient color contrast. **Location(s):**

- <small data-toggle="tooltip" title="" data-original-title="Coherent Identifier">20.500.12592/26d62w</small>
- 1 December 1955
- <button class="btn hover-brand mt-2 bg-brand border-brand text-contrast" name="subscribe" type="submit" id="mc-embedded-subscribe" style="width: 100%; font-size: 0.9rem;">Subscribe</button>
- <img src="https://www.gstatic.com/images/branding/googlelogo/1x/googlelogo_color_42x1 6dp.png" style="padding-right: 3px" alt=

Reason flagged:

- Element has insufficient color contrast of 3.94 (foreground color: #808080, background color: #ffffff, font size: 9.6pt (12.8px), font weight: normal). Expected contrast ratio of 4.5:1
- Element has insufficient color contrast of 2.59 (foreground color: #ffffff, background color: #b69c86, font size: 10.5pt (14px), font weight: normal). Expected contrast ratio of 4.5:1
- Element has insufficient color contrast of 1.05 (foreground color: #444444, background color: #44403c, font size: 9.0pt (12px), font weight: bold). Expected contrast ratio of 4.5:1

SC 2.1.1: Scrollable region must have keyboard access

Location(s):

 <div class="rpv-core__inner-pages rpv-core__inner-pages--vertical" datatestid="core__inner-pages" style="height: 100%; overflow: auto; position: relative;">





Reason flagged:

- Element should have focusable content
- Element should be focusable.

SC 4.1.2: Certain ARIA roles must contain particular children. Location(s):

- <div aria-expanded="false" aria-haspopup="menu" aria-controls="rpv-core popverbody-zoom">

Reason flagged:

Element has no aria-busy="true" attribute

Note: Currently, the TOC reads off every individual period between the section title and the page number. While not a WCAG violation, this is an issue for users that require the use of a screen reader. A simple fix is to hide this string from the screen reader.

Note: The SC 2.1.1 and SC 4.1.2 violations outlined here apply to the document viewer. This may be outside of the control of the developers if using a third-party document viewer.

4. Advanced Search

Test Case: Test Advanced Search page:

| Keyword or phrase | | in | All fields ~ | | |
|--|---|--|----------------|---|--|
| AND * Key | word or phrase | in | All fields ~ | × | |
| + Add query | | 1 | Search | | |
| Dute | | | | | |
| From: | u Tex u | | | | |
| Organization | | | | | |
| Start typing organization name | | • | | | |
| Organization Type | | | | | |
| Archive ¹ Ubrary ¹ | Corporation 277 | Higher Education ³ Nonprofit ² | | | |
| Туре | | | | | |
| □ Book ³ □ Multimedia ¹ | Brochure ¹ Other ² | □ Link ²⁴ □ Report ¹³ | □ Magadine 277 | | |
| Country | | | | | |
| France 1 Switzenland 1 | □ Nigeria ¹ □ United States of America ² | South Africa ²⁰² Zimbabwe ¹ | 🗆 Sudan 3 | | |
| Language | | | | | |
| Cinglish 235 | Maltese | | | | |

SC 4.1.2: ARIA input fields must have an accessible name. Location(s):

– <span class="select2-selection rendered" id="select2-org-select-container"</p> role="textbox" aria-readonly="true">Start typing organization name...







Reason flagged:

- aria-label attribute does not exist or is empty
- aria-labelledby attribute does not exist, references elements that do not exist or references elements that are empty
- Element has no title attribute

SC 1.4.3: Elements must have sufficient color contrast.

Location(s):

- Start typing organization name...
- <button class="btn hover-brand mt-2 bg-brand border-brand text-contrast" name="subscribe" type="submit" id="mc-embedded-subscribe" style="width: 100%; font-size: 0.9rem;">Subscribe</button>
- <img src="https://www.gstatic.com/images/branding/googlelogo/1x/googlelogo_color_42x1 6dp.png" style="padding-right: 3px" alt=

Reason flagged:

- Element has insufficient color contrast of 2.84 (foreground color: #999999, background color: #ffffff, font size: 12.0pt (16px), font weight: normal). Expected contrast ratio of 4.5:1
- Element has insufficient color contrast of 2.59 (foreground color: #ffffff, background color: #b69c86, font size: 10.5pt (14px), font weight: normal). Expected contrast ratio of 4.5:1
- Element has insufficient color contrast of 1.05 (foreground color: #444444, background color: #44403c, font size: 9.0pt (12px), font weight: bold). Expected contrast ratio of 4.5:1

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.



