High-level accessibility review – LAA (Project MUSE platform)

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Project MUSE platform **Summary**

Top 3 problems for the Project MUSE platform

This high-level assessment covers limited portions and functionality of the Project MUSE 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. Info and Relationships –A variety of content is setup as lists but should not be. There are also numerous occurrences of content that appears to be headings or tables but are not marked up as such.
- 2. **On Input –** The search results screen can't be filtered without reloading the entire page.
- 3. **Focus Order** The search results screen would be very difficult for keyboard and screen reader users as your focus jumps back to the top of the page whenever a filter is changed, and the user must navigate through the content again.

Review of Top Accessibility issues from previous evaluation

Majority of the issues from the previous evaluation have been remidiated. Vast majority were color contrast issues. There is only one contrast issue that remains. There are still some fields that do not have a persistent visible label.

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>.

No sitewide automated issues were found.

Additional manual findings using NVDA screen reader

1. **SC 1.3.1 A** – Info and Relationships – The footer has what appears to be headings (About, Resources, What's on Muse, Information for, Contact, and Policy & Terms) that are not marked as headings.

1. Landing Page

Source: https://proxy.lib.umich.edu/login?user=deque-

contractor&pass=SPzz9T96MHtYSvTv&url=https://ddm.dnd.lib.umich.edu/database/link/9291?utm _source=library-search

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



Automated findings using Axe

No issues found that are specific to this page.

Additional manual findings using NVDA screen reader

- 1. **SC 1.1.1 A** Non-text Content The image with text reading "100+ Participating Journals. Sustainable Open Access....." does not have matching alternative content.
- SC 1.3.1 A Info and Relationships The text below each recent addition (Disciplining Democracy, Brilliant Modernism, etc.) is setup as a list but it is not a list. Each one is a single item and should not be a list.
- 3. SC 1.3.1 A Info and Relationships The text above each MUSE News Item appears to be a heading but is not marked up as such.
- 4. **SC 1.4.3 AA** Contrast (Minimum) The white (#ffffff) text in the search field does not have at least 4.5:1 contrast with the semi-transparent gray (#7B8AA1) background.

2. Search Results – Minecraft education

Source: https://muse-jhu-

edu.proxy.lib.umich.edu/search?action=search&query=content:minecraft%20education:and&min=1 &max=10&t=header

Test case: From the initial landing page, conduct a search for: minecraft education. Test search results page, including filters/refine search (ex: content type = journals > articles) and sort by options.

ACCESS PROVIDED BY UNIVERSITY OF MICHIGAN @ ANN ARBOR			
PROJECT BROWSE or Search		Q	
Filter Results New search	Results	Sort By	Relevance 🗸
× Clear all facets	Searched for: all of the terms [minecraft] [education] in content 236 results found		
Content	Visual Arts Research University of filinois Press Volume 42, Number 1, Issue 82, Summer 2016, pp. 22-37		Article
ACCESS All content Only content I have access to	View 😤 Download Save		
CONTENT TYPE Books Journals Articles (31) Reviews (1)	Minecraft and the Building Blocks of Creative Individuality Josef Nguyen Configurations Johns Hopkins University Press Volume 24, Number 4, Fall 2016, pp. 471-500		Article
PUBLISHER	V Ven 🖉 vomiliau Sare		
Search by keyword Guiversity of Minnesota Press (17) Guiversity of Minnesota Press (17) Guiversity Oress (14) WrU Press (13) Guive University Press (12) Berging-Stop provide Smeth Addivisarch/Jacctionssearch/Squery-sauthor Damen Wershinr	CULTURAL POLITICS Bart Simon and Dorren Wershler Cultural Politics		Article

Automated findings using Axe

No issues found that are specific to this page.

Additional manual findings using NVDA screen reader

- 1. **SC 1.3.1 A** Info and Relationships Each search result appears to have a heading, but the content is not set as a heading.
- 2. **SC 2.4.3 A** Focus Order When filters are applied, edited or removed focus is lost and moves to the top of the page. Focus should remain on the selected filter input.
- 3. **SC 2.4.4 A** Link Purpose (In Context) View, Download, and Save links are repeated on each search result but they all have the same accessible name. They do not contain information about which specific article they are for.
- 4. **SC 3.2.2 A** On Input When filters are added, changed or removed the entire page reloads. There should not be change in context when inputs (checkboxes, radio buttons, etc.) are selected. The content in the right column can reload but the entire page should not.
- 5. SC 3.3.2 A Labels or Instructions Labels are not persistent for form controls as rely on placeholder text or visual location.
- 6. **SC 4.1.2 A** Name, Role, Value Some of the search results have an option called "Show Chapters" which functions like a button and allows content to be collapsed and expanded. The role should be changed to button and contain the aria-expanded attribute.
- 7. **SC 4.1.2 A** Name, Role, Value Each item within a search result is set as a list item. Visually the items are not a list so they should not be set as such.

3. Search Results Landing Page

Source: https://muse-jhu-edu.proxy.lib.umich.edu/pub/1/article/641831

Test case: Test individual search result landing page (ex: Minecraft and the Building Blocks of Creative Individuality) & test actual document (PDF, etc.).



No issues found that are specific to this page.

Additional manual findings using NVDA screen reader

- 1. **SC 1.3.1 A** Info and Relationships The Title of the article appears to be a heading but is not marked up as such.
- 2. **SC 1.3.1 A** Info and Relationships The additional information content at the bottom of the page appears to be a table but is not marked up as such.
- 3. **SC 2.1.1 A** Keyboard When citation is opened the close button on the menu cannot be reached with the keyboard alone.
- 4. **SC 2.4.3 A** Focus Order Citation is clicked a menu is expanded. The focus does not move to the menu. The entire page must be traversed with the keyboard to reach the opened menu.
- 5. **SC 4.1.2 A** Name, Role, Value All the source links (Configurations, Volume Number, Publication) are sets as lists but do not visually appear to be a list.

4. Actual Documents

Source: https://journals.plos.org/plosone/article?id=10.1371/journal.pone.0059488 **Test case:** Test individual search result landing page "Exploration of Noncoding Sequences in Metagenomes" & test actual document (PDF, video, etc.).



Automated findings using Axe

Not assessed due to insufficient time.

Additional manual findings using NVDA screen reader

Not assessed due to insufficient time.

5. Accessibility Settings

Source: <u>https://muse-jhu-edu.proxy.lib.umich.edu/account/user_settings</u>.

Test case: Test accessibility settings.

nccess provided by university of Michigan @	@ ANN ARBOR T ACCESSIBILITY	💄 LOG IN
	or Search Q	
My Account	User Settings	
Log In / Sign Up	NOTE: If you are not logged in these features may not work. To take advantage of these features it is recommended that you are logged in to your personal user account.	
User Settings	Analy Pathone	
Access via my Institution	Appry Seconds	
MyMUSE Library	Accessibility Settings	
Search History	Contrast	
View History	Enable high contrast mode	
Purchase History	Changes the colors of certain elements throughout the site to a higher contrast for better visibility.	
MyMUSE Alerts	Dark Mode	
Individual Subscriptions	Changes the colors of certain elements throughout the site for a better viewing experience in a dark setting.	
	See the Accessibility on MUSE page for more information	
	MUSE Content Settings	
	Footnotes	
	Disable Dynamic Footnotes Disables Javascript-driven footnotes so they no longer appear to the right of chapters and articles. They will appear at the end of the document instead.	
	References	
	Disable Dynamic References	
	Disables Javascript-driven references so they no longer appear when hovered over in chapters and articles.	

Automated findings using Axe

No issues found that are specific to this page.

Additional manual findings using NVDA screen reader

No issues found that are specific to this page.