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Updated Vendor Response: ProQuest Ebook Central to MSU UARC's 2021 Evaluation of Ebook Central

October 25th, 2023

Accessibility Evaluation Response

The Ebook Central team would like to thank the Library Accessibility Alliance and the Big Ten Academic Alliance (BTAA) again for their 2021 evaluation of accessibility on the Ebook Central platform. The key issues identified in the original evaluation, including the inclusion of an Accessibility Mode, keyboard navigation issues, appropriate headings structure, and others are addressed in the table that follows.

In 2019, we partnered with Deque to conduct a similar evaluation of high-use pages of the Ebook Central platform and found many of the same issues. At the time of writing, many of the issues found in both evaluations have been resolved. The remaining issues are moderate or minor in severity and are scheduled to be resolved as soon as possible in 2024.

Additionally, we are in the process of updating all pages of our core platform to provide a better overall user experience with improved levels of accessibility. This effort began with the complete update of the Search Results page in September 2023 and will continue with updates across the remainder of the platform.

Since the time of the audit, Ebook Central has also added a responsive EPUB Reader that provides a high quality, accessible reading experience for users, with a range of tools available to them within the reader. Where provided by publishers, EPUBs are available to end users.

We continue to partner with publishers to obtain accessible versions of all content and have a remediation process in place when accessibility issues are found.

As an organization, we are committed to providing all users with a fully accessible experience for research, teaching, and learning. We make every effort to ensure that Ebook Central can be used by everyone.



High-level findings and status of resolution

Below is the list of findings identified in the evaluation, along with information on each issue's resolution and priority.

Conformance

Original Issue	Response
The "Accessibility Mode" does not	Status: Planned
provide an alternate conforming	
version. [WCAG 2.1 CR 1]	Comments: The Ebook Central PDF Reader no longer offers
1. Functionality is removed (e.g.,	"Accessibility Mode". We provide a "Text Only Mode" that
images, highlighting)	allows screen readers to access PDF content provided by
2. New content that is not accessible is introduced (e.g., broken text).	publishers.
3. The accessibility of some existing	Ebook Central now offers an EPUB reader that provides an
content is broken when the mode is	updated and more accessible user experience. As of the time
enabled (e.g., cannot close sidebar via keyboard)	this report was generated, approx 32% of the books available on Ebook Central are available in both PDF and EPUB format
4. The mode cannot be reached by all users (requires user to create an account and be signed in)	when downloading, and 8% are EPUB only. DRM and library restrictions may apply if full download is available.
5. Link to enable the mode is not visible on screen	As part of our current roadmap Ebook Central is actively working to update the functionality and accessibility of the PDF
6. Users should not be forced to	Reader that will fix or eliminate the issues described.
access a separate version of a page	
to use assistive technologies when	
there is no reason that the primary	
page could not be made accessible	

Document Structure

Original Issue	Response
Headings are not appropriately structured. [WCAG 2	<u>.1 SC 1.3.1</u>]
On the Home page, "Authoritative ebooks at your fingertips." Is not an appropriate H1 for the page	Status: Closed
	Comments: Using accessibility testing tools, this H1
	tag is correct. The other H1 reference in the code is
	hidden unless needed as an emergency response.
	For example, if the system is down.
On the Search Results page, "Book Results" should be tagged as H2 when active or book titles should	Status: Closed
be tagged as H2s, not H3s	Comments: There is no designated H1 tag on this page. The H2 is used for the secondary navigation items that need to be present like the Cookie Preferences, etc. H3 is a common heading use for individual title results.
On the Book page, "Availability", "Description", "Table of Contents", and "Book Details" should be	Status: Planned
tagged as h2s, not h1s	Comments: These issues will be assessed for level of effort in Q4 2023 and incorporated into the roadmap for remediation in 2024.
On the Book page, "About The Author" and "Tags" should be tagged as h2s, not h3s	Status: Planned
	Comments: These issues will be assessed for level of effort in Q4 2023 and incorporated into the roadmap for remediation in 2024.
On the Book page, "TITLE", "SUBTITLE", etc. should not be tagged as h6s	Status: Planned
	Comments: These issues will be assessed for level of effort in Q4 2023 and incorporated into the roadmap for remediation in 2024.

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Original Issue	Response
On the Read Online page, "Logo" is not an	Status: Deferred
appropriate h1 for the page	Commente: This issue will be investigated for
	Comments: This issue will be investigated for additional information in Q4 2023 and assessed for
	level of effort.
On the Read Online page, the invisible "Table of Content Section" heading should be tagged as an	Status: Planned
h2, not an h3	Comments: This issue will be assessed for level of effort in Q4 2023 and incorporated into the roadmap for remediation in 2024.
On the Read Online page, "TABLE OF CONTENTS" should be tagged as an h3, not an h2	Status: Planned
	Comments: This issue will be assessed for level of
	effort in Q4 2023 and incorporated into the roadmap
	for remediation in 2024.
On the Read Online page, content under "TABLE OF CONTENTS" should not be tagged as	Status: Planned
programmatic headings	Comments: This issue will be assessed for level of
p. eg. a. initiale notalinge	effort in Q4 2023 and incorporated into the roadmap
	for remediation in 2024.
On the Read Online page (Accessibility Mode), headings are not tagged in the document	Status: Planned
neadings are not tagged in the document	Comments: This issue will be assessed for level of
	effort in Q4 2023 and incorporated into the roadmap
	for remediation in 2024.
Headings in the PDF are not tagged. [WCAG 2.1	Status: Planned
SC 1.3.1]	
	Comments: This issue will be assessed for level of
	effort in Q4 2023 and incorporated into the roadmap for remediation in 2024.
Lists are not appropriately structured. [WCAG 2.1 SC	1.3.1]
On the Search Results page, lists in the "Refine your search" section should be coded into	Status: Planned
programmatic lists	Comments: This issue will be assessed for level of
	effort in Q4 2023 and incorporated into the roadmap
	for remediation in 2024.
On the Book page, contents in the "Table of Contents" section should be coded into a	Status: Planned
programmatic list	Comments: This issue will be assessed for level of
programmatic list	effort in Q4 2023 and incorporated into the roadmap
On the Deale many contents in the UD UD - 'L U	for remediation in 2024.
On the Book page, contents in the "Book Details" section should be coded into a programmatic list	Status: Planned
	Comments: This issue will be assessed for level of
	effort in Q4 2023 and incorporated into the roadmap
	for remediation in 2024.
On the Read Online page, content under "TABLE OF CONTENTS" should be coded into a	Status: Planned
programmatic list	Comments: This issue will be assessed for level of
· -	effort in Q4 2023 and incorporated into the roadmap
	for remediation in 2024.



Original Issue	Response
On the Read Online page (Accessibility Mode),	Status: Planned
random and incoherent text fragments are	
provided to users (e.g., numbers from table of	Comments: The Ebook Central PDF Reader no
contents on page vii, text from figure on page 2,	longer offers "Accessibility Mode". We provide a
"forms of energy individOverview individOverview	"Text Only Mode" that allows screen readers to
of Energy Usage 3"). [<u>WCAG 2.1 SC 1.3.1</u> , <u>WCAG</u>	access PDF content provided by publishers.
<u>2.1 SC 1.3.2]</u>	decess i bi content provided by publishers.
	Ebook Central now offers an EPUB reader that
	provides an updated and more accessible user
	experience. As of the time this report was generated,
	approx 32% of the books available on Ebook
	Central are available in both PDF and EPUB format
	when downloading, and 8% are EPUB only. DRM and
	library restrictions may apply if full download is
	available.
	As part of our current roadmap Ebook Central is
	actively working to update the functionality and
	accessibility of the PDF Reader that will fix or
On the Read Online page (Accessibility Mode),	eliminate the issues described. Status: Planned
document text is incorrectly broken into fragments	
of paragraphs, sentences, and words, and is	Comments: The Ebook Central PDF Reader no
therefore not read out correctly by assistive	longer offers "Accessibility Mode". We provide a
technologies (e.g., "O U R EN ERGY F U T U R E",	"Text Only Mode" that allows screen readers to
"U NIVER SIT Y OF CALIFOR NIA PR ESS"). [WCAG	access PDF content provided by publishers.
2.1 SC 1.3.1, WCAG 2.1 SC 1.3.2]	access i Di content provided by publishers.
<u>2.1 30 1.3.1</u> , <u>Morto 2.1 30 1.3.2</u>]	Ebook Central now offers an EPUB reader that
	provides an updated and more accessible user
	experience. As of the time this report was generated,
	approx 32% of the books available on Ebook
	Central are available in both PDF and EPUB format
	when downloading, and 8% are EPUB only. DRM and
	library restrictions may apply if full download is
	available.
	As part of our current roadmap Ebook Central is
	actively working to update the functionality and
	accessibility of the PDF Reader that will fix or
	eliminate the issues described.
On the Book page, text in the "Description" and	Status: Deferred
"Book Details" sections that is not visible on screen	
is incorrectly read out. [<u>WCAG 2.1 SC 1.3.2]</u>	Comments: This issue will be investigated for
	additional information in Q4 2023 and assessed for
	level of effort.
On the Book page, an invisible "Reader Reviews"	Status: Deferred
heading is incorrectly read out. [<u>WCAG 2.1 SC</u>	
1.3.2]	Comments: This issue will be investigated for
	additional information in Q4 2023 and assessed for
	level of effort.
On the Book page, the book title h1 should be	
read before all content it organizes (i.e., "Read	level of effort. Status: Planned
	level of effort. Status: Planned Comments: This issue will be assessed for level of
read before all content it organizes (i.e., "Read	level of effort. Status: Planned Comments: This issue will be assessed for level of effort in Q4 2023 and incorporated into the roadmap
read before all content it organizes (i.e., "Read Online" button, etc.). [<u>WCAG 2.1 SC 1.3.2]</u>	level of effort. Status: Planned Comments: This issue will be assessed for level of effort in Q4 2023 and incorporated into the roadmap for remediation in 2024.
read before all content it organizes (i.e., "Read Online" button, etc.). [<u>WCAG 2.1 SC 1.3.2</u>] The language of the PDF is not defined. [<u>WCAG</u>	level of effort. Status: Planned Comments: This issue will be assessed for level of effort in Q4 2023 and incorporated into the roadmap
read before all content it organizes (i.e., "Read Online" button, etc.). [<u>WCAG 2.1 SC 1.3.2]</u>	level of effort. Status: Planned Comments: This issue will be assessed for level of effort in Q4 2023 and incorporated into the roadmap for remediation in 2024. Status: Deferred
read before all content it organizes (i.e., "Read Online" button, etc.). [<u>WCAG 2.1 SC 1.3.2</u>] The language of the PDF is not defined. [<u>WCAG</u>	level of effort. Status: Planned Comments: This issue will be assessed for level of effort in Q4 2023 and incorporated into the roadmap for remediation in 2024.



Keyboard Support

Original Issue	Response
On the Search Results page, expanded lists in	Status: Closed
the "Refine your search" section can be	
thousands of items long (e.g., the "SUBJECT"	Comments: The organization of information and
list has 2,400 items for a search of "global	navigation of elements on the Search Results page was
warming"), forcing keyboard users to make	updated in 2023 for a more useful and accessible
thousands of button presses to navigate	experience. As part of the current roadmap effort
through or collapse the list. [<u>WCAG 2.1 SC</u>	additional hidden navigation links or incremental reveal
2.1.1]	of subject elements are being considered. Finally, though
	the issue can cause additional time to navigate, it is the
	equivalent of a user not employing keyboard navigation
	to visually scan through the subject items, and, as such,
	does not really fall into a AA level accessibility issue.
On the Book page, the "Show more" link in the	Status: Closed
Book Details section cannot be activated via	
keyboard. [WCAG 2.1 SC 2.1.1]	
On the Read Online page, arrow buttons to	Status: Planned
expand or collapse sections within the sidebar	
cannot be activated via keyboard. [WCAG 2.1	Comments: This issue will be assessed for level of effort
<u>SC 2.1.1]</u>	in Q4 2023 and incorporated into the roadmap for
On the Band Online many (Assessibility Made)	remediation in 2024. Status: Planned
On the Read Online page (Accessibility Mode), the sidebar cannot be collapsed via keyboard.	Status: Planned
[WCAG 2.1 SC 2.1.1]	Comments: This issue will be assessed for level of effort
	in Q4 2023 and incorporated into the roadmap for
	remediation in 2024.
On the Search Results page, the "Show more"	Status: Closed
and "Show less" links reset focus to the top of	
the page. [<u>WCAG 2.1 SC 2.4.3]</u>	
On the Search Results page, "MICHIGAN	Status: Closed
STATE UNIVERSITY" receives focus, but is not	
interactive. [WCAG 2.1 SC 2.4.3]	
On the Book page, "About The Author" and	Status: Closed
"Tags" receive focus, but are not interactive.	
[WCAG 2.1 SC 2.4.3]	Comments: This is acceptable as this is a headline of a
	specific area on the page that a user may want to get
	more information about the author.
On the Book page, focus incorrectly goes to content in the "Book Details" section that is not	Status: Planned
on screen when the user advances focus.	Comments: This issue will be assessed for level of effort
[WCAG 2.1 SC 2.4.3]	in Q4 2023 and incorporated into the roadmap for
<u>[WCA0 2.1 3C 2.4.3]</u>	remediation in 2024.
Focus is not sufficiently visible for a variety of inte	
"ProQuest Ebook Central" link at start of pages	Status: Planned
	Comments: This issue will be assessed for level of effort
	in Q4 2023 and incorporated into the roadmap for
	remediation in 2024.
On the Home page, the "Search" button,	Status: Planned
carousel image links, previous and next arrows	
in the carousel, and navigation dots in the	Comments: This issue will be assessed for level of effort
carousel	in Q4 2023 and incorporated into the roadmap for
	remediation in 2024.
On the Search Results page, checkboxes	Status: Closed
On the Book page, the "Read Online" and	Status: Planned
"Download Book" buttons	Comments: This issue will be assessed for level of effort
	in Q4 2023 and incorporated into the roadmap for
	remediation in 2024.



Original Issue	Response
On the Read Online page, the "Zoom…" button and tabs (Book Details, Table of	Status: Planned
Contents, Annotations, Search within book)	Comments: This issue will be assessed for level of effort in Q4 2023 and incorporated into the roadmap for remediation in 2024.
On the Read Online page, the "Full Download" button in the Book Details sidebar	Status: Planned
	Comments: This issue will be assessed for level of effort in Q4 2023 and incorporated into the roadmap for remediation in 2024.
On the Advanced Search page, dropdowns, checkboxes, and the "Search" button	Status: Planned
	Comments: This issue will be assessed for level of effort in Q4 2023 and incorporated into the roadmap for remediation in 2024.
On the Book page, advancing focus unexpectedly causes the visual content of the	Status: Planned
"Book Details" section to change. [<u>WCAG 2.1</u> <u>SC 3.2.1]</u>	Comments: This issue will be assessed for level of effort in Q4 2023 and incorporated into the roadmap for remediation in 2024.

Navigation

Navigation	
Original Issue	Response
On the Search Results and Advanced Search pages, page title does not identify the unique	Status: Closed / Planned
page. [<u>WCAG 2.1 SC 2.4.2</u>]	Heading elements page to page contain different names to identify the page the user is currently on. Additional information on pages with specific information may be added to page heading element. Example: 'Search Results for [Topic]'. Will be doing discovery in Q4 2023 to identify if additional contextual information should be added.
	Workaround: Adding additional information to the heading may provide a clearer experience but the current headings differentiate and inform users about the page
	they are currently viewing in Ebook Central.
On the Book and Read Online pages, page title does not include the book name. [WCAG	Status: Planned
<u>2.1 SC 2.4.2]</u>	Comments: This issue will be assessed for level of effort in Q4 2023 and incorporated into the roadmap for remediation in 2024.
In the PDF, "someTitle" is not an appropriate document title and the title is not available to	Status: Planned
screen readers (Document Properties not set to show Document Title in Initial View). [WCAG 2.1 SC 2.4.2]	Comments: This issue will be assessed for level of effort in Q4 2023 and incorporated into the roadmap for remediation in 2024.

Forms and Date Submission

Original Issue	Response
On the Search Results page, legend and	Status: Deferred
heading tags (in the "Refine your search"	
section) should not be provided separately -	Comments: This issue will be investigated for additional
heading tags should be placed inside legend	information in Q4 2023 and assessed for level of effort.
tags when both are needed so that screen	
readers do not receive redundant content.	
[WCAG 2.1 SC 2.4.6]	



Original Issue	Response
On the Search Results page, numbers to the right of the visual "Refine your search" labels are not included in programmatic labels (e.g., "35572" next to "English"). [WCAG 2.1 SC 2.4.6]	Status: Closed
On the Search Results page, "Refine your search" is inappropriately read out after every label in the "Refine your search" section. [WCAG 2.1 SC 2.4.6]	Status: Closed
On the Advanced Search page, the PDF checkbox is not programmatically labeled. [WCAG 2.1 SC 3.3.2]	Status: Closed

Images

Original Issue	Response
A variety of images do not have appropriate alter	rnative text. [<u>WCAG 2.1 SC 1.1.1]</u> :
"ProQuest image in footer"	Status: Closed
"On the Home page, the graphic under "Trusted Content" is decorative and should	Status: Planned
have a null alt attribute"	Comments: This issue will be assessed for level of effort in Q4 2023 and incorporated into the roadmap for remediation in 2024.
"On the Search Results and Read Online pages, the Chapter Download button	Status: Planned
(alternative text makes no mention of "PDF", despite "PDF" being visually present in the image)"	Comments: This issue will be assessed for level of effort in Q4 2023 and incorporated into the roadmap for remediation in 2024.
On the Search Results page, book cover thumbnails in the Chapter Results tab are	Status: Closed
decorative and should have null alt attributes"	Comments: It is acceptable that the book cover image contain a description.
"On the Read Online page, close ("x") button in the sidebar"	Status: Planned
	Comments: This issue will be assessed for level of effort in Q4 2023 and incorporated into the roadmap for remediation in 2024.
Images in the PDF lack alternative text. [WCAG 2.1 SC 1.1.1]	Status: Planned
	Comments: We are committed to working with publishers to ensure the content we host is accessible. Some eBooks are only available as scanned PDFs which we know are unreadable with screen readers. As part of our effort to update the functionality and accessibility of the PDF
	Reader maximizing the usability of content provided by publishers will be tactically integrated. This effort is currently underway and will continue through 2024. Identified content can be remediated.
On the Book page, "Enrichment by Syndetics Unbound" is an image of text, instead of styled	Status: Closed
text. [<u>WCAG 2.1 SC 1.4.5</u>]	Comments: This is acceptable as some titles are logos with descriptive text and cannot be created with HTML code.

Color and Visual Characteristics

Original Issue	Response
On the Search Results page, color is the only	Status: Closed
means to differentiate search term	
highlighting. [WCAG 2.1 SC 1.4.1]	Comments: Search terms no longer appear as highlighted
	on the Search Results page.



Original Issue	Response
Blue text on multicolored background (e.g., "Advanced Search" and "Browse Subjects" links on the Home page) and dark grey text on grey (e.g., selected filter categories ["PUB YEAR", "LANGUAGE"], page number links when focused on the Search Results page) have insufficient contrast. [WCAG 2.1 SC 1.4.3]	Status: Closed
On the Home page, grey carousel navigation dots on white background have insufficient	Status: Planned
contrast. [WCAG 2.1 SC 1.4.11]	Comments: This issue will be assessed for level of effort in Q4 2023 and incorporated into the roadmap for remediation in 2024.

Custom Elements and Dynamic Content

Original Issue	Response
Content and functionality (e.g., "Featured	Status: Closed / Planned
Titles" section on the Home page, "Refine	
your search" section on Search Results page)	Comments: This issue has been resolved on the Search
disappears at some page widths and text	Results page. This issue on the Home page will be
sizes. [WCAG 2.1 SC 1.4.4]	assessed for level of effort in Q4 2023 and incorporated
	into the roadmap for remediation in 2024.
The value of the Settings menu button is	Status: Deferred
incorrectly identified as "collapsed" when it is	
expanded, and screen reader users are not	Comments: This issue will be investigated for additional
notified when closing it. [WCAG 2.1 SC 4.1.2]	information in Q4 2023 and assessed for level of effort.
On the Search Results page, "MICHIGAN	Status: Deferred
STATE UNIVERSITY" is incorrectly identified as	
a menu. [<u>WCAG 2.1 SC 1.4.4]</u>	Comments: This issue will be investigated for additional
	information in Q4 2023 and assessed for level of effort.
On the Book page, the heading and contents	Status: Deferred
of the "Description" section are	
inappropriately read out on the "Show more"	Comments: This issue will be investigated for additional
link. [<u>WCAG 2.1 SC 1.4.4]</u>	information in Q4 2023 and assessed for level of effort.
On the Book page, screen reader users are	Status: Deferred
not notified when the "Show Subsections",	
"Hide Subsections", "(Read more)", and	Comments: This issue will be investigated for additional
"(less)" links are activated to expand or	information in Q4 2023 and assessed for level of effort.
collapse content. [WCAG 2.1 SC 1.4.4]	
On the Book page, programmatic names	Status: Deferred
(e.g., "biology") are not provided for tags.	
<u>[WCAG 2.1 SC 1.4.4]</u>	Comments: This issue will be investigated for additional
	information in Q4 2023 and assessed for level of effort.
On the Read Online page, name information	Status: Planned
is not complete for page navigation links (i.e.,	
visible text says "Page Intro of 195" but it is	Comments: This issue will be assessed for level of effort in
read out by screen readers only as "Go to	Q4 2023 and incorporated into the roadmap for
page"). [<u>WCAG 2.1 SC 1.4.4]</u>	remediation in 2024.
On the Read Online page, screen reader	Status: Planned
users are not notified when opening contents	
via the sidebar or when bookmarks are	Comments: This issue will be assessed for level of effort in
added. [<u>WCAG 2.1 SC 1.4.4]</u>	Q4 2023 and incorporated into the roadmap for
	remediation in 2024.
On the Advanced Search page, "Advanced	Status: Planned
Search" is visually styled as a tab, but is not	
provided with appropriate role or value	Comments: This issue will be assessed for level of effort in
information for a tab (e.g., "tab" and	Q4 2023 and incorporated into the roadmap for
"selected"). [<u>WCAG 2.1 SC 1.4.4]</u>	remediation in 2024.