High-level accessibility review – LAA
(A-R Music Anthology Platform)

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A-R Music Anthology Platform

Summary

Top 3 problems for the A-R Music Anthology Platform

This high-level assessment covers limited portions and functionality of the A-R Music Anthology 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. **Non-Text Content** – All content available in the ‘viewer’ is completely inaccessible to Assistive Technology without any fallback content or accessible alternative.

2. **Info and Relationships** – (Nearly) all form controls are not programmatically associated with their visible labels.

3. **Keyboard** – Many issues exist with the ability to operate core functionality of the platform with a keyboard alone. Issues of this type affect many types of users, not just screen reader users.

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/.

1. **SC 4.1.1 A** – All “ARMA-branded” pages contain multiple tables with the ID ‘ob_em_mc’.

2. **SC 4.1.2 A** – All “ARMA-branded” pages contain a linked spacer image that is missing a programmatic name but should likely be programmatically hidden or removed.

3. **SC 4.1.1 A** – All ‘viewer’ pages contain duplicate IDs: toolbar_documentViewer

4. **SC 2.4.1 A** – All ‘viewer’ pages contain frames that are missing a programmatic name

5. **SC 3.1.1 A** – All ‘viewer’ pages are missing a lang attribute and valid value on the main <html> tag

6. **SC 1.3.1 A** – All ‘viewer’ pages contain a <textarea> that is missing a programmatic label

7. **SC 2.4.1 A** – All pages are missing a method to skip the main menu / tools area and to jump straight to the main content.

Additional manual findings using NVDA screen reader

Not assessed due to insufficient time.
1. Landing Page


Test case: Initial interface – menus & submenus, search boxes & dropdowns quick search by composer menus, table of results on initial page, etc. Search by Period: “Baroque”, Key: “C” to test dropdowns

Automated findings using Axe
1. SC 1.1.1 A – The white spacer images in the pagination toward the bottom of the page are all missing an empty alt to indicate they are decorative.
3. SC 1.3.1 A – All ‘search’ inputs are not programmatically associated with their visible label
4. SC 1.4.3 AA – All dark grey text on a light grey background is low in contrast with a 3.65:1 contrast ratio
5. SC 1.4.3 AA – All white text on a grey background is low in contrast with a 2.35:1 contrast ratio
6. SC 1.4.3 AA – All white text on a dark grey background is low in contrast with a 3.5:1 contrast ratio
7. SC 1.4.3 AA – All white pagination text on the grey gradient background image is low in contrast with ratios ranging from 1.73:1 to 2.02:1

Additional manual findings using NVDA screen reader
1. SC 1.3.2 A – A user can navigate to many links that are visually hidden on initial page load. The links appear to be from the main navigation but are navigable even when the menus are not exposed.
2. SC 2.1.1 A – The top level navigation items are not keyboard operable
3. **SC 4.1.2 A** – The top level navigation items are missing a programmatic role
4. **SC 4.1.2 A** – The top level navigation items do not programmatically indicate their expanded collapsed state
5. **SC 1.4.5 AA** – The ‘Search’ and ‘Clear Search’ submit controls are images of text
6. **SC 4.1.2 A** – All sortable columns do not programmatically indicate the current sort direction
7. **SC 2.1.1 A** – All clickable results in the table are not keyboard operable
8. **SC 4.1.2 A** – All clickable results in the table are missing a programmatic role
9. **SC 1.4.5 AA** – The “Your Complete Online Music History & Theory Text” is an image of text. NOTE: if this text is part of the logomark for the A-R Music Anthology, then this item can be ignored.
10. **SC 1.4.3 AA** – All hover states for all top level navigation items and their children are low in contrast when hovered (white text on orange background) with a 2.99:1 contrast ratio
11. **SC 1.4.10 AA** – The page does not reflow to a 320 CSS px viewport. A horizontal scroll was observed. NOTE: A horizontal scroll is acceptable for the data table of results only.
2. Textbook Commentary Entry


Test case: Clear search. Test textbook commentary entry

Automated findings using Axe
1. SC 4.1.2 A – The ‘Naxos Audio Link’ link is empty and is missing programmatic link text, likely due to the implementation of the embedded PDF.

Additional manual findings using NVDA screen reader
1. SC 4.1.3 AA – The ‘loading publication [X]%’ status message is not automatically announced by Assistive Technology
2. SC 1.4.10 AA – The page does not reflow to a 320 CSS px viewport. A horizontal scroll was observed
3. SC 1.4.12 AA – The page does not allow Text Spacing modifications to be applied
4. SC 3.3.2 A – The ‘Scale’, ‘Current Page’ fields are missing a visible label
5. SC 2.1.1 A – All ‘viewer tools’ e.g. Print, Single Page, Two Pages, Thumb View, etc. are not operable by keyboard only
6. **SC 4.1.2 A** – All ‘viewer tools’ e.g. Print, Single Page, Two Pages, Thumb View, etc. are missing a semantic role such as button

7. **SC 4.1.2 A** – The ‘scale’ slider control is missing an appropriate ARIA role and required attributes

8. **SC 4.1.2 A** – Controls that support a selected or pressed state e.g ‘Single Page’, ‘Drag cursor’ do not programmatically indicate the control’s selected/pressed state

9. **SC 1.4.11 AA** – Controls that support a selected or pressed state e.g ‘Single Page’, ‘Drag cursor’ do not have sufficient contrast for the indicator that visually identifies the selected/pressed state

10. **SC 1.1.1 A** – All pages in the viewer are implemented as `<canvas>`, making the content inaccessible to Assistive Technology and without any accessible fallback alternative

11. **SC 4.1.3 AA** – The ellipsis animation that indicates a page is loading in the viewer does not have its equivalent status message automatically announced by Assistive Technology
3. Search Results - Debussy


Test case: Clear search and search for composer: Debussy, test results page

## Automated findings using Axe

1. **SC 1.1.1 A** – The white spacer images in the pagination toward the bottom of the page are all missing an empty alt to indicate they are decorative.
3. **SC 1.3.1 A** – All ‘search’ inputs are not programmatically associated with their visible label
4. **SC 1.4.3 AA** – All dark grey text on a light grey background is low in contrast with a 3.65:1 contrast ratio
5. **SC 1.4.3 AA** – All white text on a grey background is low in contrast with a 2.35:1 contrast ratio
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7. **SC 1.4.3 AA** – All white pagination text on the grey gradient background image is low in contrast with ratios ranging from 1.73:1 to 2.02:1

## Additional manual findings using NVDA screen reader

Not completed due to insufficient time.
4. Individual Music Result and Result Viewer

Test case: Test individual music result and result viewer/menu options

Automated findings using Axe
1. SC 2.1.1 A – The page contains a scrollable region that is not focusable or does not contain focusable content.

Additional manual findings using NVDA screen reader
Not completed due to insufficient time.
5. Instructor Registration Form

**Source:** https://www-armusicanthology-com.offcampus.lib.washington.edu/SubscribeInstructor.aspx

**Test case:** Test Instructor registration form

![Instructor Registration Form](image)

**Automated findings using Axe**

1. **SC 1.3.1 A** – All form fields are not programmatically associated with their visible labels.

**Additional manual findings using NVDA screen reader**

Not completed due to insufficient time.