High–level accessibility review – BTAA
(Oxford Music Online Platform)

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High-level accessibility review against WCAG 2.1 AA
Deque Systems – [Date – 2021/11/30]

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Oxford Music Online Platform

Summary

Top 3 problems for the Oxford Music Online Platform

This assessment covers portions of the Oxford Music Online Platform. The assessment revealed moderate problems with screen reader compatibility, resulting in screen reader users missing important information needed to understand content and operate features.

1. **Contrast –** Moderate issues exist consistently, primarily related to links being distinguished by color alone, empty text input fields being visually distinguished and placeholder text.
2. **Info and Relationships –** Data tables are missing programmatic table headers which is vital to establish row-column relationships that are visually presented.
3. **Name, Role, Value –** Links and buttons contain moderate issues with appropriate names (when many controls share a common name but perform unique actions), required states, and having a programmatic name available.

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: https://www.deque.com/products/axe/.

1. **No automated issues found.**

Additional manual findings using NVDA screen reader

1. **SC 1.4.3 AA** – The 'Jump to content' link is low in contrast on focus. A 1.08:1 contrast ratio is observed.
2. **SC 1.4.3 AA** – When links embedded in text only use color to be visually distinguished as links, there is less than 3:1 contrast between the primary link color and the non-link text color and no additional visual indicator to distinguish link text from surrounding non-link text.

1. Oxford Music Online Landing Page

Source: https://www-oxfordmusiconline-com.offcampus.lib.washington.edu/
Test case: Test initial interface/landing page to ensure menus, search box, images, icons, sort by, etc. are accessible

Automated findings using Axe
1. **No automated issues found.**

Additional manual findings using NVDA screen reader
1. **SC 1.1.1 A** – The 'Concert in the Egg painting by Hieronymus Bosch' and 'Close up of a conductor hand with sheet music in the background' links do not accurately describe the purpose / destination of their respective links.
2. **SC 1.3.1 A** – The date 'eyebrows' in the 'News' section are not section headings and should have their H4 removed.
3. **SC 1.3.5 AA** – The common input purpose for the 'Username' and 'Password' input fields is not programmatically available. The existing autocomplete attribute values are invalid.
4. **SC 1.4.3 AA** – The 'Sign In' controls are low in contrast with a 4.29:1 contrast ratio.
5. **SC 1.4.3 AA** – The 'Username' and 'Password' placeholder text is low in contrast with a 2.9:1 contrast ratio.
6. **SC 4.1.2 A** – The "Sign in to an additional…" link is missing its expanded/collapsed state.

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2. Oxford Music Online Search Results

Source: https://www-oxfordmusiconline-com.offcampus.lib.washington.edu/search?submittedFilterId=by-music_Eras-taxonomy&q=Mozart&isQuickSearch=true&articleType_4=Biographical+Article&pageSize=20&sort=relevance&t_8=music_Eras%3A7

Test case: From the initial interface, perform a search for: Mozart
Test results page, including Filter and sort by options.

- Limit Type to Biographical Article

- Limit Era to Late 18th c./Classical (1750-1800)

Automated findings using Axe

1. **SC 1.4.3 AA** – All blue buttons with white text e.g. "Add term" are low in contrast. White text #FFFFFF against a #2880BA background results in a 4.3:1 contrast ratio.
2. **SC 4.1.1 A** – The page contains several IDs that are duplicated: sortby, pageSize, hitHighlightToggle, pageLinks, hhToggleForm, advancedSearchWidget
3. **SC 4.1.2 A** – The "X" (remove filter) linked icons are missing an accessible name that accurately describes the purpose of the controls.

Additional manual findings using NVDA screen reader

1. **SC 1.4.11 AA** – The "X" (remove filter) linked icon is low in contrast on focus and mouse hover states. A 2.3:1 contrast ratio is observed.
2. **SC 4.1.2 A** – The "Sign in to an additional…" link is missing its expanded/collapsed state.

3. **SC 1.1.1 A** – An informative icon 'full text access' is implemented as a CSS background image without an accessible alternative.
4. **SC 1.3.1 A** – The 'Article' content in each result card is not a section heading.
5. **SC 1.3.1 A** – The group of 'remove filter' links are visually presented as a single list but programmatically marked up as three separate lists, each with one single list item.
6. **SC 3.3.2 A** – The 'Search Text' field is missing a visible label.
7. **SC 1.4.11 AA** – When empty, the 'Search Text' and all other text input fields do not provide sufficient contrast for the clickable boundary. A 1.47:1 contrast ratio was observed.
8. **SC 1.4.3 AA** – The 'yyyy or dd/mm/yyyy' placeholder text is low in contrast with a 2.9:1 contrast ratio.
9. **SC 4.1.1 A** – The "Add Term" and "Add Date" control is a button nested within a link. This nesting configuration is poorly supported by AT.
10. **SC 4.1.2 A** – The "?" tooltip trigger and "X" control within the tooltip are both links that are missing an href attribute.
11. **SC 4.1.2 A** – The "?" tooltip is missing required ARIA role and attributes to behave like a tooltip and be exposed as one to AT.
12. **SC 2.4.4 A** – The "X" control within the tooltip is missing accessible link text or a programmatic label that better describes the control's purpose.
13. **SC 2.4.4 A** – All 'Open section' links within the filters area have the same link name and are missing accessible link text or a programmatic label that better describes the control's unique purpose.
14. **SC 2.4.3 A** – In the 'Occupation' section, the nested controls are included in the tab order even when the section is collapsed.

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3. Individual Result Landing Page

Source: https://www-oxfordmusiconline-com.offcampus.lib.washington.edu/grovemusic/view/10.1093/gmo/9781561592630.001.0001/omo-9781561592630-e-6002278233?rskey=oLDSDS

Test case: Select "Mozart, (Johann Chrysostom) Wolfgang Amadeus" – test individual landing page.

Automated findings using Axe
1. **SC 4.1.1 A** – The page contains several IDs that are duplicated: contentPanel.
2. **SC 1.1.1 A** – The page contains 2 images with no alt attribute. These images appear to be decorative (a caption is provided below them), but the images have not been given an empty alt or a role of presentation.
3. **SC 1.3.1 A** – The 'Bibliography' section contains an unordered list that is missing a required child element, LI.
4. **SC 2.4.4 A** – The page contains many instances of 'Open in new tab' links where additional context is required to identify the unique purpose of each similarly-named link.

Additional manual findings using NVDA screen reader
1. **SC 4.1.2 A** – The "Sign in to an additional…" link is missing its expanded/collapsed state.
2. **SC 2.4.6 AA** - All 'expand' buttons within the 'Article Contents' area have the same button name and are missing a programmatic label that better describes the control's unique purpose.
3. **SC 4.1.2 A** – The 'Article' link is visually identified as the 'current' item but this same information is not programmatically provided.
4. **SC 1.3.1 A** – All data tables contain a first row that appears to be column headings but semantic markup is missing to semantically identify the column headings.

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4. Advanced Search Results Page

Source: https://www-oxfordmusiconline-com.offcampus.lib.washington.edu/grovemusic/search?submittedFilterId=by-format&subSite=grovemusic&pageSize=20&sort=relevance&q0=Viola&type_5=image
Test case: Test advanced search

- Search for Viola
- Limit Type to Image

Automated findings using Axe

1. **SC 1.4.3 AA** – All blue buttons with white text e.g. "Add term" are low in contrast. White text #FFFFFF against a #2880BA background results in a 4.3:1 contrast ratio.
2. **SC 4.1.1 A** – The page contains several IDs that are duplicated: hitHighlightToggle, date-type-range-0-le_-1, date-type-exact-0-le_-1, date-from-0-le_-1, date-to-1-le_-1, date-type-range-0-le_0, date-type-range-0-le_0, date-from-0-le_0, date-to-1-le_0, pageSize, sortby, pageLinks, hhToggleForm, advancedSearchWidget, lifeEventToolTipExit, dateFilterError, date-from-error-invalid-0-le_-1, date-to-error-invalid-1-le_-1, date-to-error-order-1-le_-1, date-exact-0-le_-1, date-day-0-le_-1, date-month-0-le_-1, date-year-0-le_-1, date-exact-error-invalid-0-le_-1, date-range-0-le_0, date-from-error-invalid-0-le_0, date-to-error-invalid-1-le_0, date-to-error-order-1-le_0, date-exact-0-le_0, date-day-0-le_0, date-month-0-le_0, date-year-0-le_0, date-exact-error-invalid-0-le_0
3. **SC 4.1.2 A** – The "X" (remove filter) linked icons are missing an accessible name that accurately describes the purpose of the controls.

Additional manual findings using NVDA screen reader
Not completed due to Insufficient time