High–level accessibility review – De Gruyter Brill platform - Library Accessibility Alliance

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De Gruyter Brill Platform

Summary:

Top 3 problems for the De Gruyter Brill Platform

This high-level assessment covers limited portions and functionality of the De Gruyter Brill 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. Following are top 3 issues from this evaluation.

- **Roles:** A small number of key functions are missing a semantic role, which aid in identifying content as being interactive.

- **Focus Indicators:** A clearly visible focus indicator is not always available for all controls, and is mostly missing from footer controls.

- **Contrast:** While contrast is generally good across the site, issues exist around focus indicators, visible boundaries and controls when hovered or focused.

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. **SC 4.1.2 A** – The 'Manage Access' section contains a link (id=cartUrl) that is missing a programmatic name.
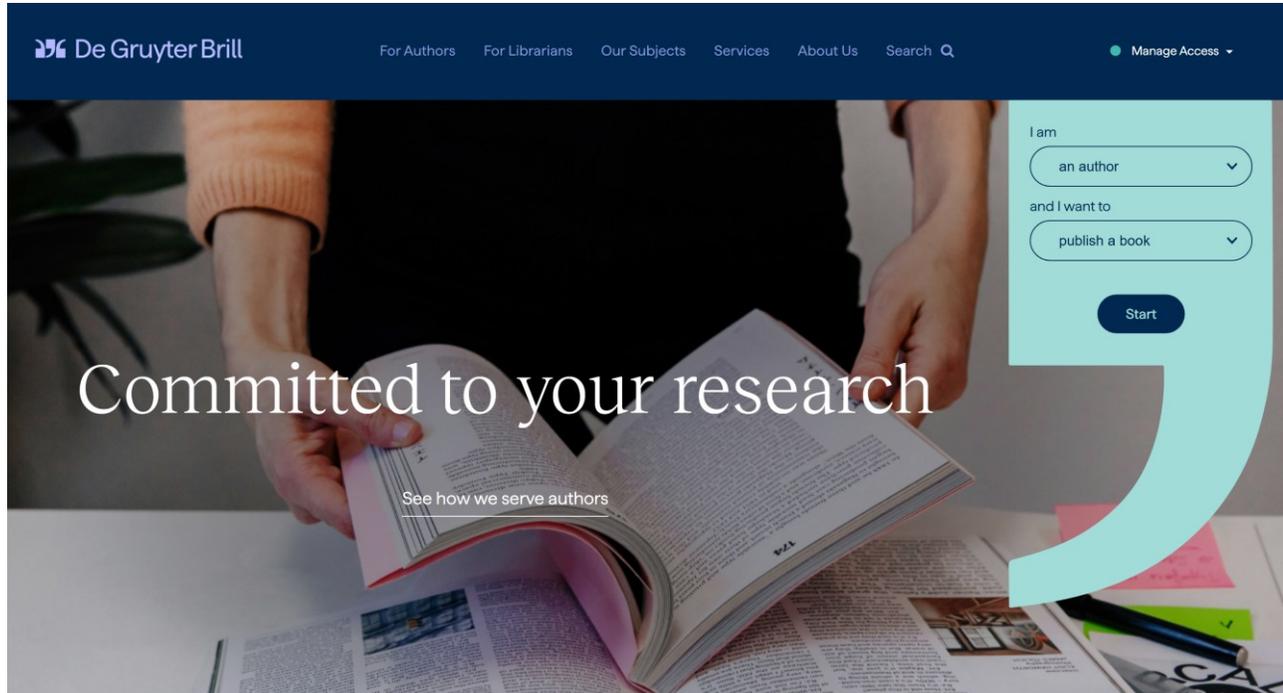
Additional manual findings using NVDA screen reader
1. **SC 1.4.11 AA** – The focus indicator for the 'Subscribe to our newsletter' control in the footer is low in contrast. The contrast ratio for the foreground text color change is 1.6:1, where the indicator is required to have a minimum 3:1 ratio.
2. **SC 2.4.7 AA** – The majority of controls in the footer (How does access work?, social media controls, De Gruyter Brill linked logo, legal row of links, Please write us) are missing a clearly visible focus indicator when the controls receive focus.
3. **SC 3.2.2 A** – When a keyboard user activates the 'skip to content' control, all the controls in the global navigation section are removed from the natural tab order.
4. **SC 4.1.2 A** – The 'Manage Access' control does not programmatically indicate its expanded/collapsed state.
5. **SC 4.1.2 A** – The 'Manage Access' control does not programmatically indicate it has a submenu.

1. Landing Page

Source: https://www-degruyterbrill-com.offcampus.lib.washington.edu/
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 using automated methods.

Additional manual findings using NVDA screen reader

1. **SC 1.4.3 AA** – The 'Get started', 'Discover more', 'Join us' links are low in contrast on hover. A contrast ratio of 4.3:1 was observed where a minimum 4.5:1 is required.
2. **SC 1.4.3 AA** – The 'View Post' links are low in contrast on hover. A contrast ratio of 4.1:1 was observed where a minimum 4.5:1 is required.
3. **SC 1.4.11 AA** – The focus indicator for 'Get started', 'Discover more', 'Join us' controls is low in contrast. A contrast ratio of 1:1 was observed where a minimum 3:1 is required.
4. **SC 2.4.7 AA** – The 'Books' control in the New at De Gruyter Brill section does not receive a clearly visible focus indicator when it receives focus.
5. **SC 1.4.11 AA** – The focus indicator for 'More latest books' and 'More popular books' controls is low in contrast. A contrast ratio of 1.2:1 was observed where a minimum 3:1 is required.
6. **SC 1.4.11 AA** – The focus indicator for 'View Post' and 'To Our Blog' controls is low in contrast. A contrast ratio of 1.1:1 was observed where a minimum 3:1 is required.
7. **SC 4.1.2 A** – The "I am" and "and I want to" drop down menus look and behaves like a <select> or combobox, but is missing required roles and attributes to be identified as such, to be appropriately labeled and to indicate the currently selected option.
8. **SC 4.1.2 A** – All instances of 'Book' button in Highlights, New at De Gruyter Brill, Popular sections are visually identified as 'selected', but are missing a programmatic indication of the same.
9. **SC 2.4.6 AA** – All instances of 'move carousel forward' and 'move carousel back' button controls in the Highlights, New at De Gruyter Brill, Popular sections are inappropriately labeled "icon".
10. **SC 3.1.2 AA** – Whenever instances of an item are in another language (eg. German), the change in language for that portion of content is not programmatically defined.

11. **SC 2.4.6 AA** – There are multiple instances of 'Books', 'Online Resources' button controls without any additional programmatic context to identify the unique purpose of the same-named control.
12. **SC 2.4.4 A** – There are multiple instances of 'View Post' link controls without any additional programmatic context to identify the unique purpose of the same-named control.

2. Search Results

Source: https://www-degruyterbrill-
com.offcampus.lib.washington.edu/search?documentVisibility=explicit&documentTypeFacet[truncated]
Test case: From the initial landing page, under the "I am" text, select "a researcher." Under the "and I want
to" text, select "discover books." Conduct a search for: artificial intelligence. Test search results page. Filter
to "Licensed content." Sort by Date – Old to New.

Automated findings using Axe
> No issues found using automated methods.

Additional manual findings using NVDA screen reader
1. **SC 1.4.11 AA** – The visible boundary for the 'Search without applied filters' checkbox in its unchecked
state is low in contrast. A contrast ratio of 1.3:1 was observed where a minimum 3:1 is required.
2. **SC 1.4.11 AA** – The checkmark boundary for the 'Search without applied filters' checkbox in its checked
state is low in contrast. A contrast ratio of 2.4:1 was observed where a minimum 3:1 is required.
3. **SC 1.4.11 AA** – All instances of the yellow (#F6DC35) focus indicator against the light cream background
(#FAF9F5) is low in contrast. A 1.3:1 contrast ratio is observed where a minimum 3:1 ratio is required
for focus indicators.
4. **SC 1.4.11 AA** – All instances of the yellow (#F6DC35) focus indicator against the light purple background
(#B3B9FE) is low in contrast. A 1.3:1 contrast ratio is observed where a minimum 3:1 ratio is required
for focus indicators.
5. **SC 1.4.3 AA** – All blue colored controls and facets (Go to advanced search, Reset, Licensed content, etc.)
are low in contrast when focused. A contrast ratio of 4.4:1 was observed where a minimum 4.5:1 is
required.
6. **SC 1.4.11 AA** – The focus indicator for the pagination controls is low in contrast. A 1.4:1 contrast ratio
was observed where a minimum 3:1 ratio is required.
7. **SC 2.4.4 A** – There are multiple instances of the 'Download EPUB' and 'Download PDF' controls without
any additional programmatic context to identify the unique purpose of the same-named controls.
8. **SC 4.1.2 A** – All filter facets that are visually selected are missing a programmatic indication of the
same.

9. **SC 1.4.10 AA** – On a reflow viewport, the full filter facets information does not reflow and is clipped.

3. Individual Search Result

Source: https://www-degruyterbrill-com.offcampus.lib.washington.edu/document/doi/10.1515/9783110621105/html
Test case: Test individual search result landing page for Intelligent Decision Support Systems & test actual document (PDF & EPUB).

Automated findings using Axe
1. **SC 1.3.1 A** – An unordered list in the 'About this book' section is malformed.

Additional manual findings using NVDA screen reader
1. **SC 1.4.11 AA** – All instances of the yellow (#F6DC35) focus indicator against the light cream background (#FAF9F5) is low in contrast. A 1.3:1 contrast ratio is observed where a minimum 3:1 ratio is required for focus indicators.
2. **SC 2.4.7 AA** – The 'Citations' control does not receive a clearly visible focus indicator when it receives focus.
3. **SC 1.4.3 AA** – The 'Explore this Subject', 'How to publish with us', 'Volume 4 | De Gruyter Frontiers in Computational Intelligence' controls are low in contrast when focused. A contrast ratio of 3.2:1 was observed where a minimum 4.5:1 is required.
4. **SC 2.4.7 AA** – The 'Next' control in the 'Readers are also interested in' carousel does not receive a clearly visible focus indicator when it receives focus.
5. **SC 4.1.2 A** – The names in 'Edited by' are interactive but are missing a semantic role.
6. **SC 2.1.1 A** – The names in 'Edited by' trigger a dialog but the names cannot be operated by a keyboard alone.
7. **SC 1.4.3 AA** – The 'Search book' placeholder is low in contrast. A 3.8:1 contrast ratio was observed where a minimum 4.5:1 is required.
8. **SC 2.5.3 A** – The control beginning with 'https://doi-org.offcampus…' is missing its visible label in its programmatic name.

4. Advanced Search

Source: https://www-degruyterbrill-com.offcampus.lib.washington.edu/search/advanced
Test case: Test advanced search page.

Automated findings using Axe
> No issues found using automated methods.

Additional manual findings using NVDA screen reader
1. **SC 1.4.11 AA** – The focus indicator for 'Search' is low in contrast. A contrast ratio of 1.8:1 was observed where a minimum 3:1 is required for focus indicators.
2. **SC 1.4.11 AA** – The visible boundary for 'Document title', 'Author's family name', 'DOI, ISBN or ISSN' inputs is low in contrast. A boundary contrast ratio of 1.5:1 was observed where a minimum 3:1 is required.
3. **SC 1.3.1 A** – The 'Find documents containing' content is a group label for the associated radio controls, but is not programmatically set as one.
4. **SC 1.3.1 A** – The 'Publication year' content is a group label for the associated input fields, but is not programmatically set as one.
5. **SC 1.3.1 A** – The 'Document types' content is a group label for the associated checkbox controls, but is not programmatically set as one.
6. **SC 1.3.1 A** – The 'Document visibility' content is a group label for the associated radio controls, but is not programmatically set as one.
7. **SC 1.3.1 A** – The 'Result sort order' content is a group label for the associated radio controls, but is not programmatically set as one.