

High-Level Accessibility Evaluation (WCAG 2.1)

De Gruyter

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Prepared for:

BTAA-Library Accessibility Alliance

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TABLE OF CONTENTS

SUMMARY	3
Top Findings	3
Best Practices	3
ACCESSIBILITY FINDINGS	4
1. Initial Interface	4
2. Search Results	5
3. Individual Results	7
4. Advanced Search	9

SUMMARY

This report reflects the findings of a high-level assessment of De Gruyter for its conformance with the W3C Web Content Accessibility Guidelines version 2.1 (WCAG 2.1).

There are very few WCAG 2.1 compliance issues with the platform, and the few that are present are programmatic in nature and should be relatively easy to fix. However, creating an accessible platform is a constantly moving goalpost, so it is important to keep in mind that there are continual updates to the WCAG standards that may require more work in the future. Below are the most critical issues to focus on correcting to improve access for all potential users of the system.

Top Findings

1. **Compatibility:** The only compliance issue that stands out is concerning the use of unique id's. This is a relatively minor issue which is primarily programmatic and should not cause a serious problem with usability or accessibility. For an in-depth guide to ARIA implementation, please see the [WAI-ARIA Authoring Best Practices Guide from W3](#).
2. **Information and Relationships:** There is one potentially problematic issue with the form labels on the advanced search page. These are clearly present on the screen, yet the automatic analysis flagged them. Recommendation is to investigate further to make sure everything is working correctly.
3. **Color Contrast:** While none of the colors used on the site seem to fall outside of acceptable contrast ratios, the lightest gray used for subheadings/text should be reviewed manually for accuracy. This might only be a limitation of the automatic analysis.

Best Practices

- ◆ Ensure landmarks are unique.
- ◆ Page should contain a level-one heading.

ACCESSIBILITY FINDINGS

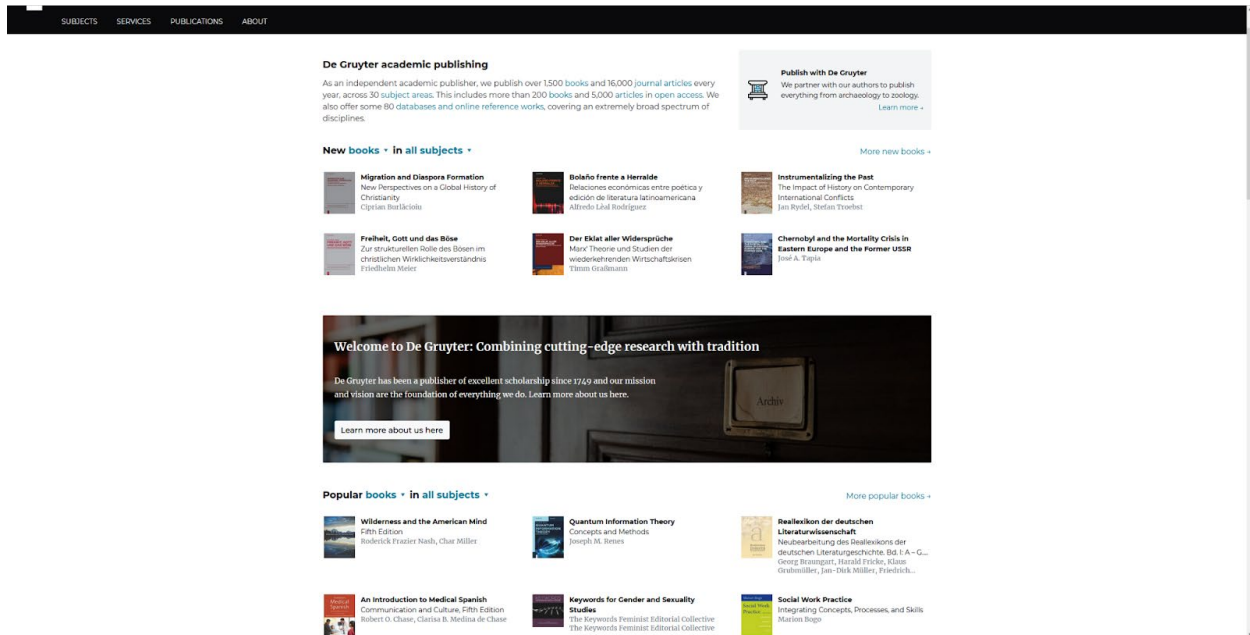
This report was conducted against De Gruyter platform and covers a selection of pages and features that were to be tested as a representative sample of the database’s conformance to the WCAG 2.1 AA standards.

The resource was reviewed using a combination of manual and automatic review tools and assistive technologies, including the WAVE Accessibility Assessment tool, Axe Accessibility Assessment tool, WCAG Color Contrast Checker, and NVDA screen reader. All problems identified by automatic tools were double checked manually. This evaluation was performed using Firefox on Windows 10.

Below are the findings revealed during the accessibility evaluation of De Gruyter.

1. Initial Interface

Test Case: Test initial interface/landing page to ensure menus, sub-menus, search box, images, icons, etc. are accessible. There’s quite a bit on this initial landing page.



SC 1.4.3: Elements must have sufficient color contrast.

- This issue has 107 locations throughout the page.

Flagged Issues

- Element's background color could not be determined due to a background gradient

SC 2.4.9: Links with the same name must have a similar purpose.

- This issue has 32 locations throughout the page.

Flagged Issues

- Check that links have the same purpose, or are intentionally ambiguous.

SC 4.1.1: id attribute value must be unique.

- `.flex-md-nowrap.w-100.flex-wrap > .me-md-2.me-lg-5.w-100`
- `.ga_language_selector.dropdown-item:nth-child(1)`
- `.ga_language_selector.dropdown-item:nth-child(2)`
- `.cartSummary.align-items-center.d-flex > .pe-2.mainNavbarOptionsBg.text-decoration-none > .badge.font-size-12[data-fc-id="minicart-quantity"]`
- `.dropdown-menu-end > .login-menu > .log-out[href$="logout"]`

Flagged Issues

- Document has multiple static elements with the same id attribute: `mainNavbarSearchContainer`
- Document has multiple static elements with the same id attribute: `languageSelector_en`
- Document has multiple static elements with the same id attribute: `shopping-cart-badge`
- Document has multiple static elements with the same id attribute: `logoutUser`

2. Search Results

Test Case: From the initial landing page, conduct a search for: Big Data. Test search results page, including filters/refine search (Limits to Access: Licensed; Document Type: book; Date: Last 5 years;) and sort by options.

Authenticated with University of Tennessee. What does this mean?

Big Data

SUBJECTS SERVICES PUBLICATIONS ABOUT

10 of over 10000 results for Big Data

Results per page: 10 Sort by: Relevancy Advanced Search

Filter Results

Access

- Licensed content
- Open access
- Publicly available
- All available content
- All content

Document type

- Article 18001
- Chapter 8216
- Book 250
- Bibliographic Entry 70
- Reference Entry 24
- Journal 6
- Series 6

Date

- Older 15554
- Last 5 years 10967
- Last year 3008
- Pre-published 42

Subject

- Social Sciences 4230
- Business and Economics 3310
- Library and Information Science, Book Studies 3059
- Linguistics and Semiotics 2909
- Libraries and Library Science 2895
- Theoretical Frameworks and Disciplines 2520
- Political Economics 2399
- Sociology 2196
- Materials Science 2092
- Mathematics 2063

Publisher

- De Gruyter 14335
- De Gruyter Saur 2721
- De Gruyter Mouton 2125
- transcript 1179
- Amsterdam University Press 1036
- De Gruyter Oldenbourg 870
- Princeton University Press 635
- University of California Press 597
- University of Chicago Press 423

BOOK Unlicensed
Big Data
A Road Map for Successful Digital Marketing
Amandeep Singh, Rohit Bansal, Sandhir Sharma 2022
More Cite

BOOK Unlicensed
Big Data and Democracy
Kevin Macnish, Jai Gallott 2022
More Cite

BOOK Unlicensed
Noise Filtering for Big Data Analytics
Volume 13 in the series: De Gruyter Series on the Applications of Mathematics in Engineering and Information Sciences
Souvik Bhattacharyya, Koushik Ghosh 2022
More Cite

CHAPTER Open Access
Gesellschaftliche Erwartungen an »Big Data« in der Wissenschaft
Zur »Kritik« von »Theorien«
From the book: Kalibrierung der Wissenschaft
Nicole Mößner, Klaus Ertlich, Axel Gelfert 2022
...Big Data-Ansätze oft ausgebreitet... Gesellschaftliche Erwartungen an »Big Data« in der Wissenschaft, 374... Kitchin, Rob (2014): »Big Data, new epistemologies and paradigm shifts«, in: Big Data & Society 11, S. 1-12. https://doi.org/10.1177/2053951714528481...
More Cite Download PDF

SERIES
Humanidades Digitales y Big Data en Iberoamérica / Digital Humanities and Big Data in Ibero-America
Ana Gallego Cuñas, Azucena González Blanco
...Las tres principales líneas de investigación – los corpus lingüísticos digitalizados, la lingüística experimental y la relación entre Literatura, Crítica y Big Data – combinan el análisis de datos con... Its three principal lines of research – digital linguistic corpora, experimental linguistics, and the relation between literature, critique and big data – combine data analysis with critical thinking that... transcends mere »dataism« and opens new (biopolitical, feminist, decolonial...) perspectives within Digital Humanities...
More

SC 1.4.3: Elements must have sufficient color contrast.

- This issue has 61 locations throughout the page.

Flagged Issues

- Element's background color could not be determined due to a background gradient.
- Element's background color could not be determined due to a background image.

SC 2.4.9: Links with the same name must have a similar purpose.

- `.documentVisibility > .facetListItem:nth-child(2) > .filterResultLink.facet.ga_search_facet`
- `.searchResult.py-3.d-flex:nth-child(1) > .imageHolder.d-lg-block.pe-4 > a`
- `.border-top.searchResult.py-3:nth-child(4) > .searchResultContent.w-100 > .searchResultActions.flex-wrap.mt-2 > .downloadPdf.vgwort-click[title="Download PDF"]`

Flagged Issues

- Check that links have the same purpose, or are intentionally ambiguous.

SC 4.1.1: id attribute value must be unique.

- `.flex-md-nowrap.w-100.flex-wrap > .me-md-2.me-lg-5.w-100`
- `.ga_language_selector.dropdown-item:nth-child(1)`
- `.ga_language_selector.dropdown-item:nth-child(2)`
- `.cartSummary.align-items-center.d-flex > .pe-2.mainNavbarOptionsBg.text-decoration-none > .badge.font-size-12[data-fc-id="minicart-quantity"]`

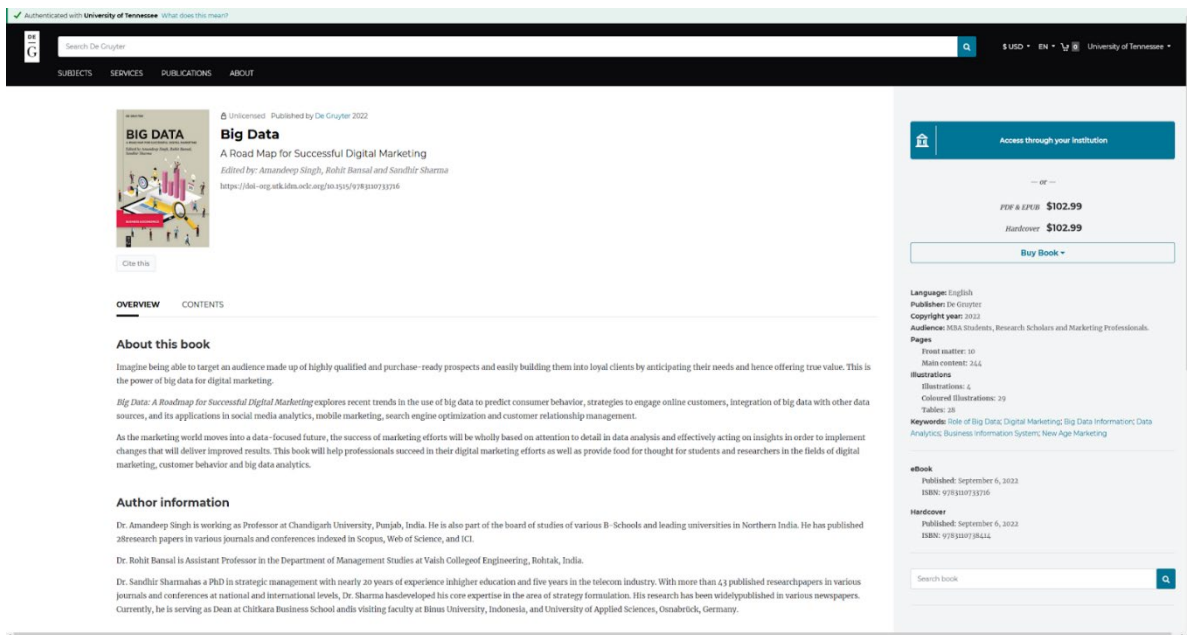
- .dropdown-menu-end > .login-menu > .log-out[href\$="logout"]
- .searchResult.py-3.d-flex:nth-child(1)

Flagged Issues

- Document has multiple static elements with the same id attribute: mainNavbarSearchContainer
- Document has multiple static elements with the same id attribute: languageSelector_en
- Document has multiple static elements with the same id attribute: shopping-cart-badge
- Document has multiple static elements with the same id attribute: logoutUser
- Document has multiple static elements with the same id attribute: main-content

3. Individual Results

Test Case: Select individual Book & test result landing page & test book download.



***Note:** There shouldn't be horizontal and vertical scrolling on a page unless the horizontal scroll is on a table. This may just be due to the screen resolution tested at, so it was not flagged.

SC 1.4.3: Elements must have sufficient color contrast.

- This issue has multiple locations throughout the page.

Flagged Issues

- Element's background color could not be determined due to a background gradient.

- Element's background color could not be determined due to a background image.

SC 4.1.1: id attribute value must be unique.

- .flex-md-nowrap.w-100.flex-wrap > .me-md-2.me-lg-5.w-100
- .ga_language_selector.dropdown-item:nth-child(1)
- .ga_language_selector.dropdown-item:nth-child(2)
- .cartSummary.align-items-center.d-flex > .pe-2.mainNavbarOptionsBg.text-decoration-none > .badge.font-size-12[data-fc-id="minicart-quantity"]
- .dropdown-menu-end > .login-menu > .log-out[href\$="logout"]
- .bookDownloadOption.pt-3.d-sm-none > .alternateForms.d-none > .dropdown > .btn-primary.w-100[data-bs-toggle="dropdown"]
- .bookDownloadOption.pt-3.d-sm-none > .alternateForms.d-none > .dropdown > .dropdown-menu.w-100.py-0 > li:nth-child(1) > .downloadCompletePdfBook.dropdown-item[data-doi="10.1515/9783110733716"]
- .bookDownloadOption.pt-3.d-sm-none > .alternateForms.d-none > .dropdown > .dropdown-menu.w-100.py-0 > li:nth-child(2) > .dropdown-item.text-primary[data-doi="10.1515/9783110733716"]

Flagged Issues

- Document has multiple static elements with the same id attribute: mainNavbarSearchContainer
- Document has multiple static elements with the same id attribute: languageSelector_en
- Document has multiple static elements with the same id attribute: shopping-cart-badge
- Document has multiple static elements with the same id attribute: logoutUser
- Document has multiple static elements with the same id attribute: downloadDropdownEPUBBook
- Document has multiple static elements with the same id attribute: downloadDropdownPDFBook
- Document has multiple static elements with the same id attribute: downloadDropdownPDFBook
- Document has multiple static elements with the same id attribute: downloadDropdownBook

SC 4.1.1: Frames must have an accessible name

- #seamlessAccessButton

Flagged Issues

- Element has no title attribute
- aria-label attribute does not exist or is empty

- aria-labelledby attribute does not exist, references elements that do not exist or references elements that are empty
- Element's default semantics were not overridden with role="none" or role="presentation"

4. Advanced Search

Test Case: Test advanced search page.

The screenshot shows the De Gruyter Advanced Search interface. At the top, there is a navigation bar with the De Gruyter logo and user information. The main content area is titled 'Advanced Search' and contains a search form. The form has a text input field for 'Enter Search Terms' and three separate input fields for 'Document title', 'Author's family name', and 'DOI, ISBN or ISSN'. Below these fields, there are radio buttons for 'Find documents containing: Any of the specified terms' (selected) and 'All of the specified terms'. A blue 'Search' button is located below the form. On the right side of the page, there is a sidebar with various filter options. Under 'Add Filters', there is a 'Publication year' section with 'From' and 'To' input fields. Below that, there is a 'Document types' section with checkboxes for Articles, Books, Chapters, Database Entries, Databases, Issues, Journals, Multi-Volume Works, and Series. The 'Document visibility' section has radio buttons for Licensed content, Open access, Publicly available, All available content, and All content (selected). The 'Display Results' section has a 'Result sort order' section with radio buttons for Relevancy (selected), Date - New to old, Date - Old to new, Title - A to Z, and Title - Z to A.

***Note:** There shouldn't be horizontal and vertical scrolling on a page unless the horizontal scroll is on a table. This may just be due to the screen resolution tested at, so it was not flagged.

SC 1.3.1: Form elements must have labels.

- #title
- #familyName
- #reference

Flagged Issues

- Form element does not have an implicit (wrapped) <label>
- Form element does not have an explicit <label>
- aria-label attribute does not exist or is empty
- aria-labelledby attribute does not exist, references elements that do not exist or references elements that are empty
- Element has no title attribute
- Element has no placeholder attribute
- Element's default semantics were not overridden with role="none" or role="presentation"

SC 1.4.3: Elements must have sufficient color contrast.

- This issue has 59 locations throughout the page.

Flagged Issues

- Element's background color could not be determined due to a background gradient.
- Element's background color could not be determined due to a background image.

SC 4.1.1: id attribute value must be unique.

- `.flex-md-nowrap.w-100.flex-wrap > .me-md-2.me-lg-5.w-100`
- `.ga_language_selector.dropdown-item:nth-child(1)`
- `.ga_language_selector.dropdown-item:nth-child(2)`
- `.cartSummary.align-items-center.d-flex > .pe-2.mainNavbarOptionsBg.text-decoration-none > .badge.font-size-12[data-fc-id="minicart-quantity"]`
- `.dropdown-menu-end > .login-menu > .log-out[href$="logout"]`

Flagged Issues

- Document has multiple static elements with the same id attribute: `mainNavbarSearchContainer`
- Document has multiple static elements with the same id attribute: `languageSelector_en`
- Document has multiple static elements with the same id attribute: `shopping-cart-badge`
- Document has multiple static elements with the same id attribute: `logoutUser`

SC 4.1.1: Frames must have an accessible name

- `#seamlessAccessButton`

Flagged Issues

- Element has no title attribute
- `aria-label` attribute does not exist or is empty
- `aria-labelledby` attribute does not exist, references elements that do not exist or references elements that are empty
- Element's default semantics were not overridden with `role="none"` or `role="presentation"`

Disclaimer: This high-level evaluation was conducted for the Library Accessibility Alliance, and represents a good faith effort conducted within a limited time frame. It should not be assumed to be complete or free from error. No warranties or guarantees are implied. UT is not responsible for direct, indirect, or incidental damages based on this work; its use or interpretation by any individual, group, or organization; or on conditions beyond our control.