

# **High-level accessibility review - LAA**

(Readex platform)

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## Contents

Summary	3
Top 3 problems for the Readex platform	3
Review of Top Accessibility issues from previous evaluation	3
Accessibility findings	3
Project wide issues	3
Automated findings using Axe	3
Additional manual findings using NVDA screen reader	3
1. Landing Page	4
2. Search Results – happiness	5
3. Individual Search Results Landing Page	7
4. Advanced Search	8

## Readex platform Summary

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### Top 3 problems for the Readex platform

This high-level assessment covers limited portions and functionality of the Readex 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** – The documents within the document viewer on the individual search results page are not accessible with a screen reader.
2. **Headings and Labels** – Throughout the search results page there are numerous repeated buttons that all have the same name but perform different actions making it very difficult for screen reader users to understand what the buttons do.
3. **Link Purpose (In Context)** – Throughout the search results page there are numerous repeated links such as “News Article” that all have the same name but go to different locations making it very difficult for screen reader users to understand what the difference is between links.

### Review of Top Accessibility issues from previous evaluation

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Similar issues still appear to exist from the previous evaluation specifically the top 2 problems. The non-text content is still a major issue in document viewer on the individual search result landing page. It is also an issue under the preview popups on the search results page. In addition many Name, Role, Value issues still exist. Specifically issues with certain attributes (expand/collapse, current, etc.) missing.

### Accessibility findings

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#### 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/>.

No sitewide automated issues were found.

#### Additional manual findings using NVDA screen reader

1. **SC 1.3.1 A** – Info and Relationships – The “My Folder” button is listed as a heading but should not be.
2. **SC 1.4.11 AA** – Non-text Contrast – The gray (#B3B2B2) search icon which acts as the persistent visible label does not have at least 3:1 contrast with the white (#ffffff) background.

## 1. Landing Page

**Source:** <https://infoweb-newsbank-com.offcampus.lib.washington.edu/apps/readex/welcome?p=WHNPX>

**Test case:** Test initial interface/landing page to ensure menus, sub-menus, search box, images, icons, etc. are accessible.



### Automated findings using Axe

1. **SC 1.4.3 AA** – Contrast (minimum) – The gray (#9A9A9A) placeholder text in the search field does not have at least 4.5:1 contrast with the white background (#ffffff).

### Additional manual findings using NVDA screen reader

1. **SC 4.1.2 A** – Name, Role, Value – The home link in the main navigation has a visible bar underneath it indicating it is the current page, but the appropriate attribute is missing for screen reader users.

## 2. Search Results – happiness

**Source:** [https://infoweb-newsbank-com.offcampus.lib.washington.edu/apps/readex/results?p=WHNPX&sort=YMD\\_date%3AA&fld-nav-0=YMD\\_date&val-nav-0=1909%20-%201920&fld-base-0=alltext&val-base-0=happiness&val-database-0=&fld-database-0=database](https://infoweb-newsbank-com.offcampus.lib.washington.edu/apps/readex/results?p=WHNPX&sort=YMD_date%3AA&fld-nav-0=YMD_date&val-nav-0=1909%20-%201920&fld-base-0=alltext&val-base-0=happiness&val-database-0=&fld-database-0=database)

**Test case:** From the initial landing page, conduct a search for: happiness. Test search results page, filters/refine search including Custom Date (From 1909 To 1920) and sort by options.

The screenshot displays a search interface with the following elements:

- Search Bar:** Contains the text "happiness".
- Search Button:** Labeled "Go!".
- Database Selection:** "Searching 4 of 4 databases".
- Advanced Search:** Includes a "Limited to:" section with "Date: 1909 - 1920" and a "Clear" button.
- Results Summary:** "10,337 Result(s)", "Save Search", and a "Sort" dropdown menu set to "Oldest to Newest".
- Article 1:** "News Article" on page 12. Metadata includes Date: January 1, 1909; Source: Amrita Bazar Patrika; Place(s) of Publication: Calcutta, India. The preview text discusses the ruler of Bombay and happiness.
- Article 2:** "News Article" on page 3. Metadata includes Date: January 1, 1909; Source: Ilanga Lase Natal (published as "ILANGA LASE NATAL."); Place(s) of Publication: Durban, South Africa. The preview text is in isiNgesi and mentions happiness.
- Left Sidebar:** Contains filters for "Results Per Page" (10, 20, 50), "Database" (African, Latin American, South Asian newspapers), "Custom Date" (1909-1920), and "Publication Name" (Leader).

### Automated findings using Axe

No automated issues found that are specific to this page.

### Additional manual findings using NVDA screen reader

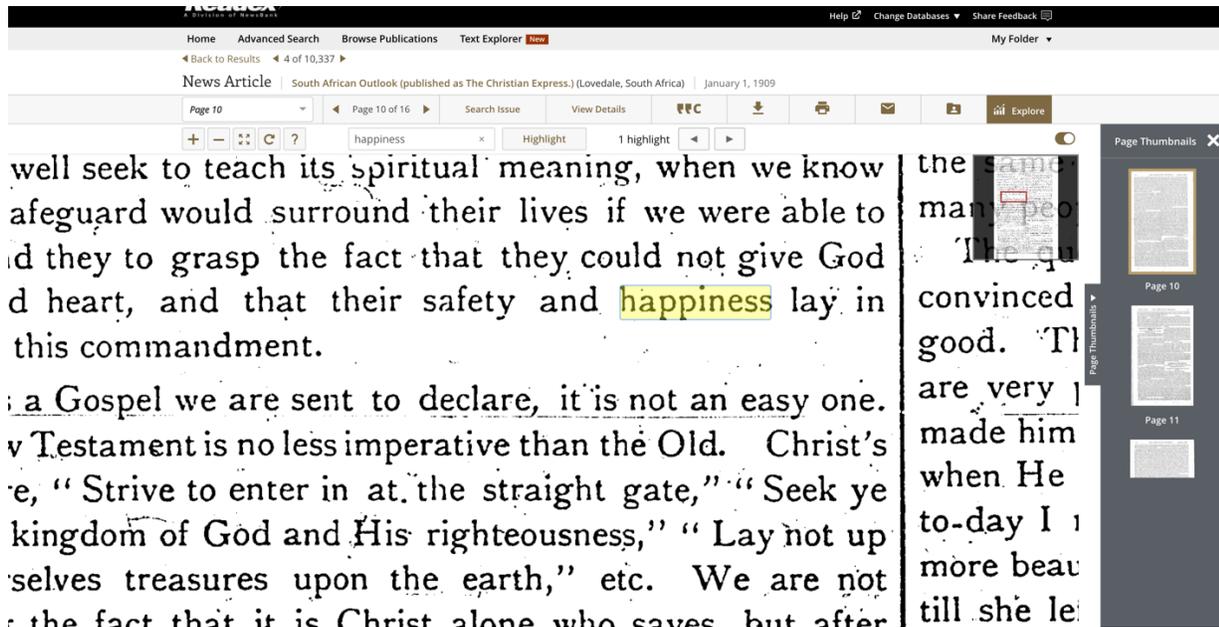
- SC 1.1.1.1 A – Non-Text Content** – The image under the “preview” popup, is informative but is set as a decorative image so screen reader users are unable to access the content.
- SC 1.4.1 A – Use of Color** – The current page in the pagination is identified only by a change in color from the other pages in the pagination. Current page needs a secondary indicator such as an underline or needs to have at least 3:1 contrast with rest of the page numbers.
- SC 1.4.1 A – Use of Color** – The current selection in the “Results per Page” is identified only by a change in color from the other options. Current selection needs a secondary indicator such as border or needs to have at least 3:1 contrast with rest of the options.
- SC 1.4.3 A – Contrast (Minimum)** – The popups for “more options” have a filter text box and the placeholder text (#9A9A9A) does not have at least 4.5:1 contrast with the white (ffffff) background.
- SC 2.4.3 A – Focus Order** – The focus order of the “more options” popups are out of order in such a way that it creates an issue with operability. The popup close button cannot be reached by tabbing forward. It can only be reached by tabbing backward several times.
- SC 2.4.4 A – Link Purpose (In Context)** – “News Article” links are repeated on each search result and go to different links, but they all have the same accessible name. They do not contain information about which specific article they are for.
- SC 2.4.6 A – Headings and Labels** – “Preview” buttons are repeated on each search result but have the same accessible name but perform different actions. The preview buttons should have an accessible name specific to the article being previewed.

8. **SC 2.4.6 A** – Headings and Labels – “More Options” buttons are repeated on each filter section but have the same accessible name but perform different actions. The more buttons should have an accessible name specific to the filter.
9. **SC 4.1.2 A** – Name, Role, Value – The checkbox next to each search result has an accessible name of “News Article” which makes each checkbox the same to screen readers and is not descriptive of the content being selected.
10. **SC 4.1.2 A** – Name, Role, Value – The pagination at the bottom of the page indicates the current page by identifying it with a black color but the current page attribute is not set for screen reader users.
11. **SC 4.1.2 A** – Name, Role, Value – The “results per page” identifies which option is selected with a change in color but the current page attribute is not set for screen reader users.
12. **SC 4.1.2 A** – Name, Role, Value – Each filter option (Database, Custom Date, Publication Name, etc.) are expandable but are missing the expand/collapse attribute.
13. **SC 4.1.2 A** – Name, Role, Value – The “more option” popup for “Publication Locations” has four links across the top and the selected link is identified with a gold bar, but the current attribute is not set for screen reader users.

### 3. Individual Search Results Landing Page

**Source:** [https://infoweb-newsbank-com.offcampus.lib.washington.edu/apps/readex/doc?p=WHNPX&sort=YMD\\_date%3AA&fld-nav-0=YMD\\_date&val-nav-0=1909%20-%201920&fld-base-0=alltext&val-base-0=happiness&val-database-0=&fld-database-0=database&docref=image/v2%3A12C4FA3C69824050%40WHNPX-12D2DEED87236480%402418308-12C79A00E37A0800%409-12C79A00E37A0800%40&firsthit=yes](https://infoweb-newsbank-com.offcampus.lib.washington.edu/apps/readex/doc?p=WHNPX&sort=YMD_date%3AA&fld-nav-0=YMD_date&val-nav-0=1909%20-%201920&fld-base-0=alltext&val-base-0=happiness&val-database-0=&fld-database-0=database&docref=image/v2%3A12C4FA3C69824050%40WHNPX-12D2DEED87236480%402418308-12C79A00E37A0800%409-12C79A00E37A0800%40&firsthit=yes)

**Test case:** Test individual search result landing page (South African Outlook, January 1, 1909) & test actual document (PDF).



#### Automated findings using Axe

1. **SC 1.3.1 A** – Info and Relationships – The page number combobox is set as a listbox and has an immediate child with a role of combobox which is not allowed. Listbox much have children with a role of option.
2. **SC 4.1.2 A** – Name, Role, Value – The page number combobox does not have an accessible name.
3. **SC 4.1.2 A** – Name, Role, Value – The page number listbox that wraps the combobox does not have an accessible name.

#### Additional manual findings using NVDA screen reader

1. **SC 1.1.1 A** – Non-Text Content – The current page of the pdf does not have alternative text of what is currently showing so screen reader users cannot access the content.
2. **SC 2.1.1 A** – Keyboard – The controls to navigate the current page of the pdf (zoom in, zoom out, full screen, etc.) are not able to be reached with the keyboard alone.
3. **SC 2.1.1 A** – Keyboard – The current page of the pdf can be clicked on and drag to view different parts, but this cannot be done with the keyboard alone.
4. **SC 2.4.7 AA** – Focus Visible – The “Toggle Navigation” window does not have a focus indicator.
5. **SC 3.3.2 A** – Labels or Instructions – Under the “Search Issue” there is a text field with a visible label of “Search the South African Outlook for January 1, 1909” but this label is not contained in the programmatic name of the field.

## 4. Advanced Search

**Source:** <https://infoweb-newsbank-com.offcampus.lib.washington.edu/apps/readex/advanced?p=WHNPX&f=advanced>

**Test case:** Test advanced search page

The screenshot shows the Readex Advanced Search interface. At the top, there's a navigation bar with 'Home', 'Advanced Search', 'Browse Publications', and 'Text Explorer'. The main search area includes a search input field, two rows of search criteria (each with a dropdown menu and a text input), and a 'Sort by' dropdown set to 'Oldest to Newest'. A 'Go!' button is located to the right. Below the search area is a 'Limit by' section with a 'Custom Date' range selector and a 'Publication Location (Map)' selector. The footer contains contact information and links for feedback, privacy, and terms of use.

### Automated findings using Axe

No automated issues found that are specific to this page.

### Additional manual findings using NVDA screen reader

- SC 1.4.1 A – Use of Color** – The focus indicator for the “Add a row” button uses only color to identify it over the default state. An additional visual indicator such as a border or use a focus color that has at least 3:1 contrast with the default state.
- SC 3.3.2 A – Labels or instructions** – The “Search in Field” is missing a visible label. The first option in the combobox can be the label if it is not a selectable option. Suggest adding “Search in Field” as the first option.