

# **High-level accessibility review – LAA** (Japan Knowledge Library platform)

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## Japan Knowledge Library platform

### Summary

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#### Top 3 problems for the Japan Knowledge Library platform

This high-level assessment covers limited portions and functionality of the Japan Knowledge Library 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. **Contrast (minimum)** – There are text contrast issues throughout many of the pages and in the search controls.
2. **Non-text Contrast** – Visible Focus indicators are missing from many interactive elements along with many others having contrast issues.
3. **Name, Role, Value** – Majority of the fields in the search as well as the filter dropdowns across the site are missing an accessible name.

### 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/>.

1. **SC 3.1.1 A** – Language of Page – The language of the page does not have a valid value. Both “jap” and “en” are in the attribute but the attribute can only contain one language.

#### Additional manual findings using NVDA screen reader

1. **SC 1.4.11 AA** – Non-text Contrast – The focus indicator (#232323) on “logout” does not have at least 3:1 contrast with the surrounding color (#232323) on the outside. The focus indicator is dark gray and so is the button background.
2. **SC 2.2.1 A** – Keyboard – The “guide” button in the top navigation cannot be reached with the keyboard alone.
3. **SC 3.1.2 AA** – Language of the Parts – When the language changes within the page the language of the parts is not provided.

## 1. Landing Page

**Source:** <https://japanknowledge-com.offcampus.lib.washington.edu/library/en/index.html>

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

JapanKnowledge For Corporations

Contents | Support / Guide | Inquiry | Jpn | Logout

Basic Search | Advanced Search | Bookshelf

Basic Search Search

**What's New** More Information (Jpn)

- 2024年11月27日 トークイベント「歴史ドラマ時代考証担当者と現役大学生が語る『ジャパナレッジ版 史料纂集・群書類従』活用法」動画公開
- 2024年11月21日 臨時メンテナンスによる「学術認証」一時利用停止について (11/25)
- 2024年11月21日 11月20日の一時的なアクセス障害について【解消済み】
- 2024年11月12日 「会社四季報（2024年4集秋号）」を更新しました
- 2024年11月12日 緊急メンテナンスによるサービス停止のお知らせ (11/30)

- Subscribe to JapanKnowledge Lib (Jpn)
- Fees
- Terms of Use
- Forms and Brochures
- How to use JapanKnowledge
- About JapanKnowledge Lib
- About JKBooks
- About Integration of JapanKnowledge Lib and JKBooks
- Discovery and other partner services (Jpn)
- JapanKnowledge top page (Jpn)

### Automated findings using Axe

No automated issues found

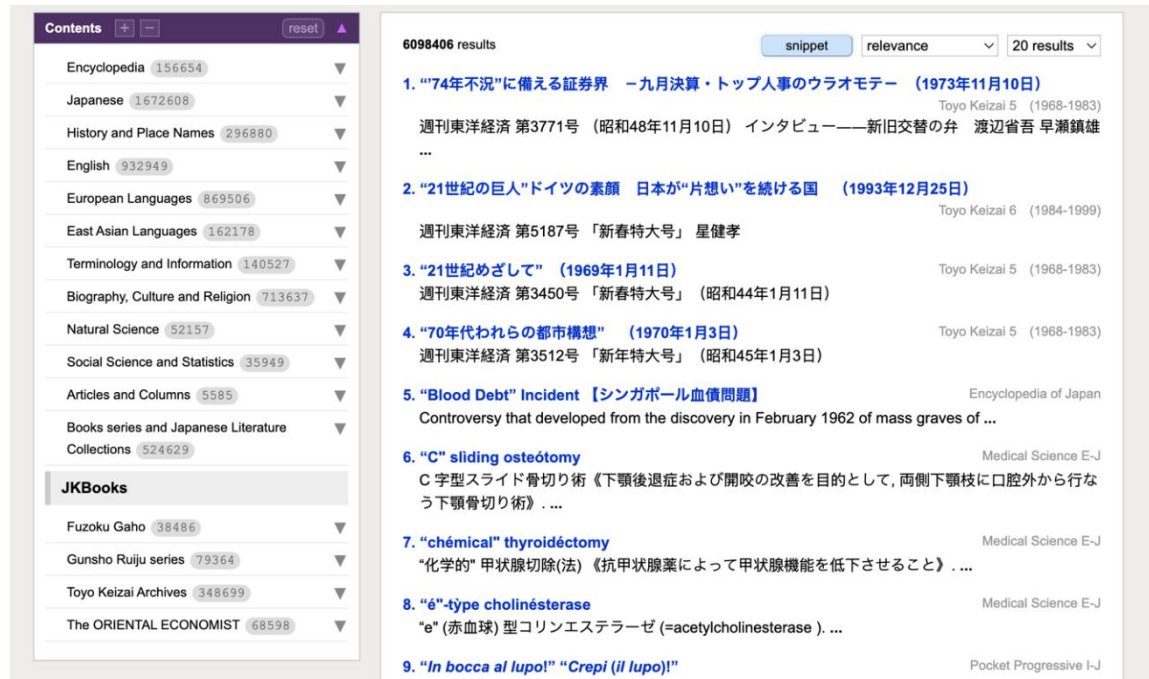
### Additional manual findings using NVDA screen reader

1. **SC 2.5.3 A** – Label in Name – The visible label of “Basic Search” is not in the accessible name for the search field. The accessible name is “Search contents included in the JapanKnowledge Lib”.

## 2. Search Results – Basil Hall Chamberlain

**Source:** <https://japanknowledge-com.offcampus.lib.washington.edu/lib/en/search/basic/?>

**Test case:** From the initial landing page, select basic search and search for keywords in Japanese and English, like Basil Hall Chamberlain or チェンバレン. Test search results page, including filters/refine search, such as Biography, Culture and Religion, and sort by options.



### Automated findings using Axe

1. **SC 1.4.11 AA** – Non-text Contrast – The light purple (#A98DC1) +/- buttons do not have at least 3:1 contrast with the dark purple background (#5B446F).
2. **SC 1.4.3 AA** – Contrast (minimum) – The light gray source text (#999999) on each result does not have at least 4.5:1 contrast with the background (#ffffff).
3. **SC 1.4.3 AA** – Contrast (minimum) – The light purple reset button text (#b497cc) does not have at least 4.5:1 contrast with the dark purple (#5c4470) background.
4. **SC 4.1.2 A** – Name, Role, Value – Search field is missing an accessible name.
5. **SC 4.1.2 A** – Name, Role, Value – Select boxes (headword, relevance, number of results) are missing accessible names.

### Additional manual findings using NVDA screen reader

1. **SC 2.1.1 A** – Keyboard – The dropdowns under contents in the left column function with a mouse click but do not work with the keyboard alone. The only way to open the dropdown with the keyboard is to check the check box.
2. **SC 2.4.3 A** – Focus Order – The dropdowns/checkboxes under contents in the left column reload the page and move the focus to the search box rather than being maintained on the button pressed. This causes a loss of focus.
3. **SC 2.4.7 AA** – Focus Visible – The expandable content under contents section in the left column are missing a visible focus indicator.
4. **SC 3.2.2 A** – On Input – The dropdowns/checkboxes under contents in the left column initiate a page reload when activated. It should only reload the contents of the right window of search results.

### 3. Search Results Landing Page

**Source:** <https://japanknowledge-com.offcampus.lib.washington.edu/lib/en/display/?kw=Casimir%27s+function+&lid=58110AH00066200>

**Test case:** Test individual search result landing page, such as Casimir's function or カシミールの関数

The screenshot shows the Japan Knowledge Library interface. The main content area displays the title 'カシミールの関数' (Casimir's function) and a brief description in Japanese. Below the description is a mathematical formula for  $f(I, J, F)$ . The sidebar on the right contains a search bar, a 'Current content' radio button, and a list of related topics including 'カシミールの関数' (selected), 'ガーシュゴリンの定理', and 'カスティリアーノの第一定理'.

#### Automated findings using Axe

1. **SC 1.1.1 A – Non-text Content** – The formula image does not have alternative text.
2. **SC 1.4.11 AA – Non-text Contrast** – The expand collapse arrow (#CC65FE) in the right column does not have at least 3:1 contrast with background (#D5BBEA).
3. **SC 2.4.4 A – Link Purpose (In-context)** – The formula link does not have discernable text. The image in the link is missing alternative text.
4. **SC 4.1.2 A – Name, Role, Value** – The search field in the right column is missing an accessible name.

#### Additional manual findings using NVDA screen reader

1. **SC 1.4.11 AA – Non-text Contrast** – The selected state (#FFCCFF) of the “Knowledge Searcher” and “Citation” checkboxes do not have at least 3:1 contrast with the unselected state (#F8F8F8).
2. **SC 2.4.3 A – Focus Order** – The focus jumps from print button to a widget at the bottom of the page then back from the widget to the content in the prev/next section. The focus order is not logical.
3. **SC 2.4.7 AA – Focus Visible** – The “Knowledge Searcher” and “Citation” buttons are missing a visible focus indicator.
4. **SC 2.4.7 AA – Focus Visible** – The “Knowledge Searcher” and “Citation” buttons in the widget at the bottom of the page are missing a visible focus indicator.

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## 4. Actual Documents

**Source:** <https://japanknowledge-com.offcampus.lib.washington.edu/lib/en/display/?lid=40100p007350>

**Test case:** Test actual documents: Appendix Representation of Num. (数の表現) PDF in the record, perturbation theory or 摂動論, Audio and text: 不規則動詞活用表 (verb conjugation table) on the neighborhood definition.

The screenshot shows the Japan Knowledge Lib website. The header is purple with links: Contents, Support, Guide, Jpn, PPAコンソーシ..., and Logout. Below the header is a search bar and tabs for Basic Search, Advanced Search, and Bookshelf. The main content area is titled 'perturbation theory' and contains Japanese text. On the right side, there is a sidebar with a search field, radio buttons for 'Current content' and 'All contents', and a list of related terms including 'pertinency', 'perturbation', 'perturbation equation', 'perturbation expansion', 'perturbation quantity', 'perturbation theory', 'perturbative', 'perturbed quantity', 'Peru balsam', 'Peruvian balsam', and 'perveance'.

### Automated findings using Axe

1. **SC 1.3.1 A** – Info and Relationships – The bottom two links in the right column are in `<li>` tags but the `<li>` tags are not inside of either a `<ul>` or `<ol>` tag.
2. **SC 1.4.11 AA** – Non-text Contrast – The expand collapse arrow (`#CC65FE`) in the right column does not have at least 3:1 contrast with background (`#D5BBEA`).
3. **SC 4.1.2 A** – Name, Role, Value – The search field in the right column is missing an accessible name.

### Additional manual findings using NVDA screen reader

Not assessed due to insufficient time.

## 5. Advanced Search

**Source:** <https://japanknowledge-com.offcampus.lib.washington.edu/lib/en/search/advanced/>

**Test case:** Test advanced search page.

JapanKnowledge Lib

Contents | Support | Guide | Jpn | PPAコンソーシ... | Logout

Basic Search | **Advanced Search** | Bookshelf

Select Contents

all

and

and

Scope

headword

headword

headword

Conditions

partial mat

partial mat

partial mat

Search

Clear

☐ Phrase search

### Automated findings using Axe

1. **SC 4.1.2 A** – Name, Role, Value – The three text fields in the advanced search are all missing an accessible name.
2. **SC 4.1.2 A** – Name, Role, Value – The 9 select (dropdown) elements in the advanced search are all missing an accessible name.

### Additional manual findings using NVDA screen reader

Not assessed due to insufficient time.