

# Accessibility Report – Aspen v. 20.11.00

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## Methods

SWAN conducted automated testing through the Functional Accessibility Evaluator (FAE) 2.1 , created by the University of Illinois, and produced a report on a sample of pages in the SWAN Aspen test instance.

[View the report in FAE](#)

In addition, we performed automated and manual evaluations using the [Web Accessibility Evaluation Tool \(WAVE\) Browser Extension](#) for the Chrome browser and the [AInspector](#) extension for Firefox .

These tool allowed us to evaluate pages that require a login, including:

- [My Account](#)
- [Checked Out Titles](#)
- [My Lists](#)
- [Contact Information](#)
- [Linked Accounts](#)
- [Search History](#)
- [Preferences](#)
- [Reading History](#)

## Findings & Recommendations

### Landmarks

#### Issue 1

Aspen does not currently contain ARIA landmarks.

**Recommendation:** Assign ARIA landmarks based on [W3C guidelines](#).

### Headings

#### Issue 2

The following pages are missing an H1 heading for the page title:

- Search results pages
- My Account (starts with an H3)
- My Lists (starts with an H3)
- Search History (starts with an H3)

**Recommendation:** Assign an H1 heading to every page. For search results, the H1 could be positioned off screen so that the text is not visible but is still accessible to screen readers

### Issue 3

The following pages have issues with properly nested sub-headings, usually skipping to an H3 heading instead of starting with an H1 or using an H2.

- My Account
- Fines
- Linked Accounts (div class=lead should be H2 headings)

**Recommendation:** Update H3 headings to H2.

## Styles/Headings

### Issue 4

The default theme includes several violations for Color Contrast Ratios (CCR) of 3.1 for large and/or bolded text and 4.5 for other text sizes and styles. An accessible-by-default theme would make the themeing process easier for libraries to maintain accessible catalogs. Through theme changes we were able to correct many, but not all, of the contrast issues through a combination of the interface theme tools and custom CSS.

**Recommendation:** Change the following default combinations of background colors, font colors, and font sizes.

- A. a(default link colors),
  - Change color to #3174AF or similar
- B. Body default color
  - Change to a darker color that will meet contrast standards on many backgrounds, e.g. #404040
  - Changing the body text color through the themeing interface does make a change to the default body text color
- C. .btn-primary
  - Change background to #3174AF or similar
- D. .btn-group-sm (appears under result-tools-horizontal btn-toolbar)
  - Change to a style similar to the light button style in Bootstrap (.btn-light) or the outline button style (.btn-outline-primary)
- E. #home-page-login
  - Change background to #808080, rgba(51, 51, 51, 0.6)
  - A slightly darker background color will make the white font at 18px font-size accessible. This color is already used by default for the Log In and My Account buttons.
- F. .manifestation-toggle-text .label-info, .manifestation-toggle-text .label-info, .label-default
  - Change to a style similar to the light button style in Bootstrap (.btn-light)
- G. .formatCategoryLabel
  - Change color to #555555
- H. Small heading font colors (h1 small, h2 small, h3 small, h4 small, h5 small, h6 small, .h1 small, .h2 small, .h3 small, .h4 small, .h5 small, .h6 small, h1 .small, h2 .small, h3 .small, h4 .small, h5 .small, h6 .small, .h1 .small, .h2 .small, .h3 .small, .h4 .small, .h5 .small, .h6 .small)

- Change to a darker default color, such as #666666
- I. `.result-index`
  - Change to a darker default color, such as #666666
- J. `.badge`
  - Change to a darker background color, such as #666666
- K. `dueSoonLabel`
  - Yellow text on white is generally never accessible – a yellow background on the element with black or dark grey text instead can solve this issue, e.g. `background-color:#fff9c4;color:#3b3b3b;`
- L. `.overdueLabel`
  - This could be treated similarly to the `.dueSoonLabel`, `background-color:#c62828;color:#ffffff;`
- M. `#horizontal-search-box`, `#vertical-menu-bar`, `#advancedSearchLink`
  - A larger or bolder font size would allow more colors to work as background colors in these areas. Likely many libraries might only change these colors, so this would be a quick and easy win.
  - Change background to #007faa
  - Change font-size to 18px or font-size 14px or larger and font-weight bold
- N. `#vertical-menu-bar .menu-bar-option.menu-icon-selected:`
  - Setting the background for the hover state on the menu to transparent black at 75% will ensure that the white text is more likely to meet color contrast standards on the hover state.
- O. Replace the use of “color:red”
  - This applies to checked out alerts, card expired alerts, `.required-input`, `label-danger`, in some cases as an element style that would be hard to override
  - Change to an accessible version of red, e.g.#C62828 - browser default for red (#ff0000) is not accessible on a white background
- P. `.label-success`
  - Change to an accessible version of green, e.g. #2e7d32

## Issue 5

White icons and white text on the navigation and search backgrounds require libraries to choose a dark colored background. To give libraries more options to select colors that match their branding, they would need the option of setting icons and text to a darker color to maintain accessible color contrast standards.

**Recommendation:** When possible, use a font such as FontAwesome or SVG icons instead of PNG or GIF icons. This would allow libraries to set a lighter color for the search bar and navigation backgrounds with a darker text that could apply to both text and icons.

## Forms

#### Issue 6

The ID “goButton” is used for multiple elements in the search facets.

**Recommendation:** Update these elements so the ID is unique, e.g. “#go\_AR\_reading\_level”, “#go\_AR\_point\_value”.

#### Issue 7

Form labels are not unique for the “from” and “to” fields in search facets, for AR Reading Level, AR Point Value.

**Recommendation:** Add labels for these fields, similar to the Publication Date facet.

#### Issue 8

Advanced Search page is missing form labels for the following fields:

- Repeatable text fields under “Search” (name=lookfor0[])
- Type limit dropdown menus (name=type0[])
- Match dropdown menu(name=bool0[])
- Format Category
- Available
- Fiction/Non-Fiction
- Reading Level
- Format
- Author
- Series
- AR Point Value
- Subject
- Language
- User Rating

**Recommendation:** Add form labels to these fields.

#### Issue 9

The tabpabel under My Account>Checked Out Titles and My Account>My Holds are missing labels.

**Recommendation:** Add a label to these tappabels using the aria-label or aria-labelledby attributes.

#### Issue 10

Form labels in the Contact Information page do not reference a form control, including the following fields:

- Address
- City
- State
- Zip
- Primary Phone Number
- Email

**Recommendation:** Some of these fields will be editable (and will be form fields) and others will not be editable. One approach could be to display the values for these fields as form fields that are enabled or disabled for text entry.

## Widgets/Scripts

### Issue 11

ARIA widget roles are missing from the following:

- browse category buttons (new fiction, new nonfiction, etc.)
- `div[class=facettitle panel-title collapsed]`
- `span[class=ui-rater-starsoff]`
- “Sort by” dropdowns in the Holds page/tabs
- “Records Per Page” dropdown on the My Lists pages

**Recommendation:** Add ARIA widget roles to these buttons to describe the onclick event handler (`role=button`, with supported properties of `aria-expanded`, `aria-pressed`). See [W3C Allowed ARIA roles, states, and properties](#).

### Issue 12

The `getMoreResults()` onclick link is missing a label.

**Recommendation:** Add a label using the `aria-label` or `aria-labelledby` attributes.