

High-level accessibility review – BTAA (Internet Archive Platform)

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Internet Archive Platform

Summary

Top 3 problems for the Internet Archive Platform

This assessment covers portions of the Internet Archive Platform. The assessment revealed serious problems with screen reader compatibility, resulting in screen reader users often missing critical information needed to understand content and operate features.

1. **Contrast** – The light blue on white color combination used in links does not provide sufficient contrast. The majority of issues with the site are related to contrast of content, links or informative images/icons.
2. **Labels** – Many elements are missing either a programmatic label, a visible label or both which causes screen reader users to have great difficulty in completing these forms.
3. **Non Text Contrast** – Several informative images are low in contrast, which would lead to low vision users possibly missing this content completely.

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 header area contains elements that are keyboard focusable, even though a parent/container element is programmatically hidden with aria-hidden. It is the 'Web', 'Books', 'Video', 'Audio', 'Software', 'Images' links in the header

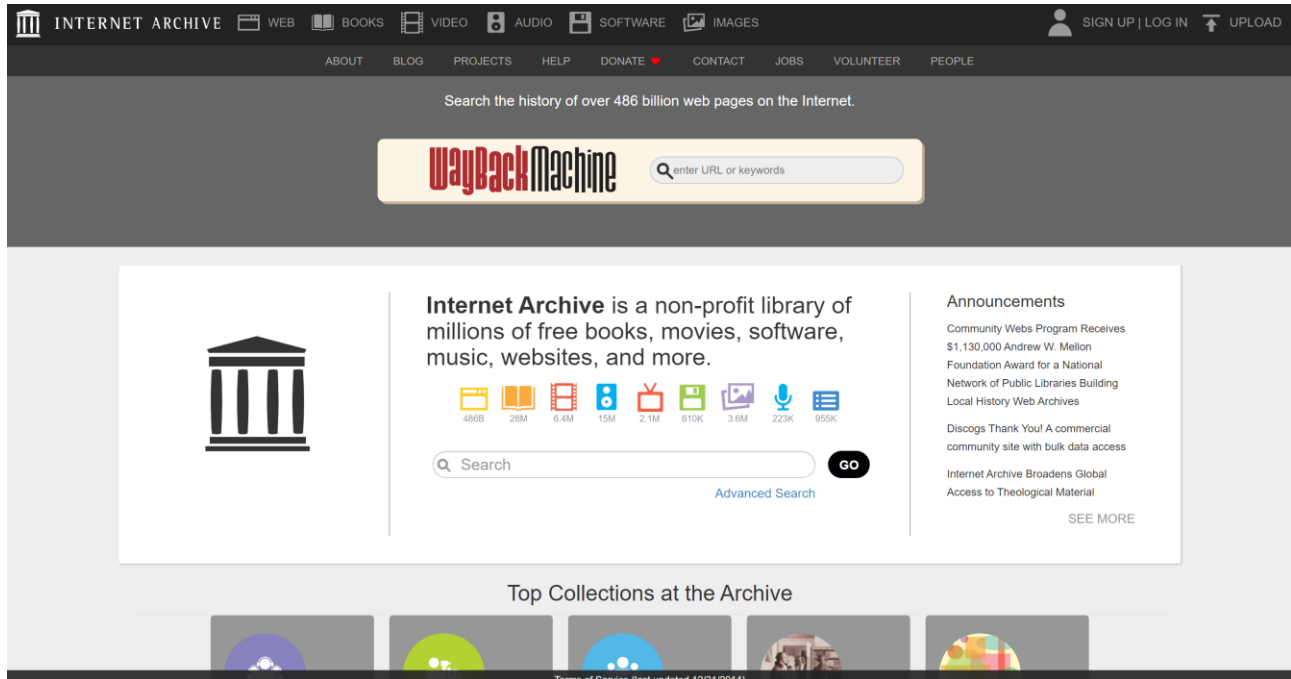
Additional manual findings using NVDA screen reader

1. **SC 2.4.1 A** – The 'skip to content' link does not become visible when it receives focus
2. **SC 2.4.7 AA** – The 'Internet Archive' and 'Upload' active elements do not receive a visible focus indicator when they receive focus
3. **SC 4.1.2 AA** – On pages other than the homepage, when a user tabs to the search bar in the header, the expanded search option window does not indicate its expanded/collapsed state
4. **SC 1.3.2 A** – On pages other than the homepage, when a user tabs to the search bar in the header, the expanded search option window is not encountered by the screen reader in a logical reading order

1. ARCHIVE.ORG Initial Landing

Source: <https://archive.org/>

Test case: Initial interface/landing page to ensure menus, search box, images, icons, sort by, etc. are accessible.



Automated findings using Axe

1. **SC 4.1.2 A** – The ‘Wayback Machine’ link is missing accessible link text.
2. **SC 1.1.1 A** – The ‘Wayback Machine’ linked image is informative and is missing an alternative description.
3. **SC 1.4.3 AA** – The “enter URL or keywords” placeholder text is low in contrast
4. **SC 1.4.3 AA** – The ‘# of items’ text (e.g. 28M ‘books’) is low in contrast
5. **SC 1.4.3 AA** – The “Advanced search” link is low in contrast
6. **SC 1.4.3 AA** – The “See More” link is low in contrast
7. **SC 1.4.3 AA** – All the ‘Collection name’ links in the ‘Top Collections at the Archive’ section (e.g. Community Audio) are low in contrast

Additional manual findings using NVDA screen reader

1. **SC 1.4.3 AA** – All the ‘Collection name’ links in the ‘Top Collections at the Archive’ section (e.g. Community Audio) are low in contrast on hover
2. **SC 1.4.3 AA** – All the ‘# Items’ text in the ‘Top Collections at the Archive’ section (e.g. 2,249,287 Items) are low in contrast on hover
3. **SC 1.4.11 AA** – The ‘Websites’, ‘Texts’, ‘Audio’, ‘Software’, ‘Images’, ‘Concerts’ active images, in the section just above the Internet Archive search box are necessary for understanding of the page and are low in contrast
4. **SC 1.4.12 AA** – All the ‘Collection name’ links in the ‘Top Collections at the Archive’ section (e.g. Community Audio) are cut off and do not fit in their containers when text spacing rules are applied
5. **SC 4.1.3 A** – the “Fetching more results” status message is not announced
6. **SC 2.1.1 A** – A keyboard user is unable to load more content using the keyboard alone
7. **SC 1.4.1 A** – The “web pages” link is not distinguished as a link from surrounding text

2. ARCHIVE.ORG Search Results

Source: <https://archive.org/search.php?query=Louis+Armstrong&page=3>

Test case: From the initial interface, use the Internet Archive search field (not the one for the Wayback Machine) to perform a search for: “Louis Armstrong”.

Test results page, including Media Type filter and Sort By filter. Test Media Type filter by limiting results to “texts” and the Sort By filter by selecting “Views”.

The screenshot shows the Internet Archive search results page for 'Louis Armstrong'. The search bar contains 'Louis Armstrong' and the 'GO' button is visible. Below the search bar, there are radio buttons for search filters: 'Search metadata' (selected), 'Search text contents', 'Search TV news captions', 'Search radio transcripts', and 'Search archived web sites'. The results section shows 681 results. On the left, there is a 'Media Type' filter with 'texts' selected (681 results) and other options like 'collections' (18), 'audio' (3,135), 'movies' (479), 'concerts' (50), 'images' (17), and 'software' (17). Below that is an 'Availability' filter with 'Lending Library' (236). The main results area shows a 'SORT BY' dropdown set to 'RELEVANCE' and a list of five search results with thumbnails and titles: 'Louis Armstrong : jazz legend', 'The best of more music to watch girls by : Tony', 'The Axeman's jazz', 'The dear old songs of long ago : song and chorus', and 'Teaching in the universities : no one way'.

Automated findings using Axe

1. **SC 4.1.2 A** – The ‘Show thumbnails’ and ‘Show as list’ links are missing accessible link text
2. **SC 2.4.4 A** – The ‘More’ links in the left hand navigation have similar link text but different actions
3. **SC 1.4.3 AA** – The ‘Advanced Search’ link in the ‘Search’ section is low in contrast
4. **SC 1.4.3 AA** – The “Results” text in the left hand navigation is low in contrast
5. **SC 1.4.3 AA** – The “More” links in the left hand navigation are low in contrast
6. **SC 1.4.3 AA** – The linked ‘filter text’ in the left hand navigation (e.g. “Microfilm” in the ‘Collection’ section) are low in contrast
7. **SC 1.4.3 AA** – The ‘sort bar’ text (e.g. “Relevance”, “Views”, etc.) is low in contrast
8. **SC 1.4.3 AA** – The author text and stats number text (e.g. “by Old Time Radio Researchers Group” and “11,124 (views)”) is low in contrast

Additional manual findings using NVDA screen reader

1. **SC 4.1.2 A** – The ‘Favorite’ button does not indicate its pressed/not pressed state
2. **SC 1.3.1 A** – The group labels for the checkboxes are not programmatically associated
3. **SC 4.1.2 A** – The ‘Show thumbnails’ and ‘Show as list’ elements do not indicate their selected/not selected state
4. **SC 1.4.11 AA** – The unselected option between ‘Show thumbnails’ and ‘Show as list’ elements is low in contrast
5. **SC 2.4.4 A** – The ‘sort’ links (ascending/ descending) do not have a link text that accurately describes the purpose of the link
6. **SC 4.1.2 A** – The ‘sort’ link (ascending / descending) does not programmatically indicate its current state

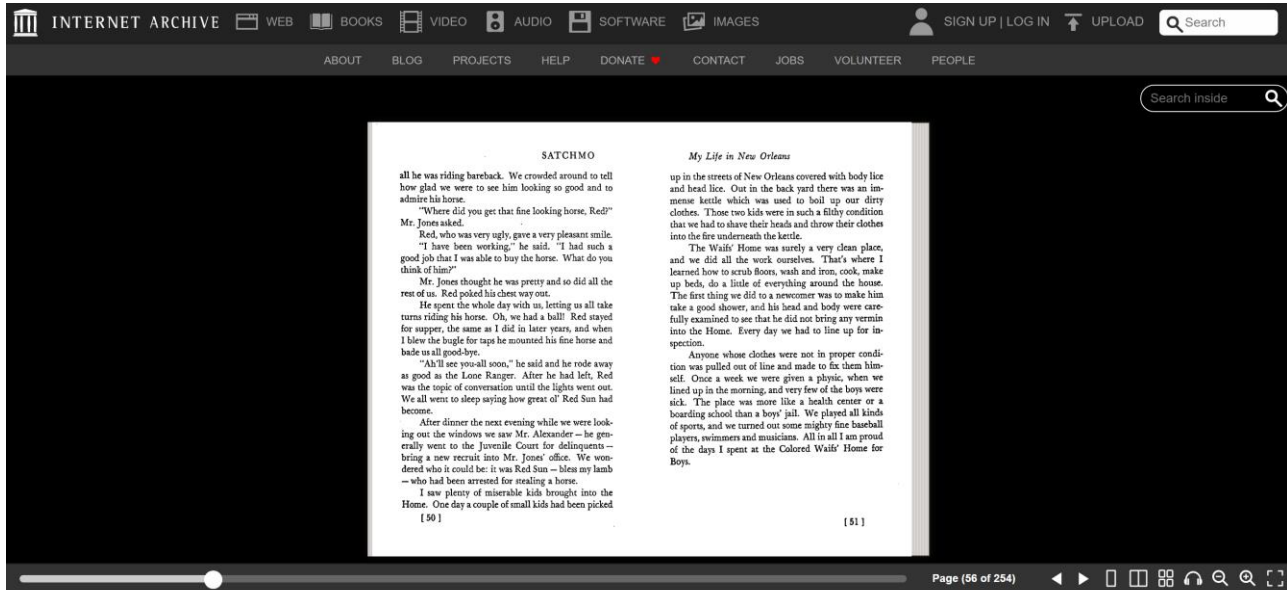
7. **SC 1.4.3 AA** – The ‘Date archived’, ‘Date Published’, ‘Date Reviewed’, ‘Date Added’ links in the expanded ‘Date archived’ section are low in contrast
8. **SC 1.4.11 AA** – The selected state indicator for the selected item in the expanded ‘Date archived’ section is low in contrast
9. **SC 1.1.1 A** – The active image for each search result has an inappropriate alt attribute (Image not found!)
10. **SC 1.3.1 A** – The ‘Views #’, ‘Favorites #’, ‘Comments #’ content for each search result is inappropriately marked as a heading level 6
11. **SC 1.1.1 A** – The CSS content ‘views’ image in each search result is inappropriately described as “eye”
12. **SC 1.4.12 AA** – All the search result titles (e.g. Louis Armstrong: Jazz Legend) are cut off and do not fit in their containers when text spacing rules are applied

3. ARCHIVE.ORG Individual Search Results Page

Source: <https://archive.org/details/satchmomylifeinn001956mbp>

Test case: Test an individual search result page (“Satchmo My Life in New Orleans”).

Test the book viewer – navigate to a page with text and click the headphone icon to have the page read aloud.



 Satchmo My Life In New Orleans
by Louis Armstrong



Automated findings using Axe

1. **SC 4.1.2 A** – The page contains elements that are keyboard focusable, even though a parent/container element is programmatically hidden with aria-hidden.
2. **SC 1.3.1 A** – The page contains elements with an ARIA ‘list’ role and those elements do not contain the required ‘listitem’ role(s)
3. **SC 4.1.2 A** – The book viewer ‘search submit’ button is missing an accessible name
4. **SC 1.1.1 A** – The images of the book pages are missing an alt attribute
5. **SC 1.1.1 A** – The book viewer ‘search submit’ SVG image is missing an alt attribute
6. **SC 2.4.4 A** – When multiple instances of ‘# file’ exist, the unique function of each link is not available e.g. “1 file”
7. **SC 1.4.3 AA** – All light blue link text is low in contrast. E.g. “Louis Armstrong”
8. **SC 1.4.3 AA** – All light grey link text is low in contrast. E.g. “14 Files”
9. **SC 1.4.3 AA** – All light grey text is low in contrast. E.g. “Prentice-Hall, Inc”

Additional manual findings using NVDA screen reader

1. **SC 1.4.11 AA** – The ‘Favorite’, ‘Share’ and ‘Flag’ are low in contrast
2. **SC 1.4.11 AA** – The ‘Favorite’ and ‘Share’ button graphics are low in contrast on hover
3. **SC 1.4.1 A** – The “Louis Armstrong” and “write a review” links are not distinguished as links from surrounding text
4. **SC 1.3.1 A** – The ‘Views #’, ‘Favorites #’, ‘Comments #’ content for each search result is inappropriately marked as a heading level 6
5. **SC 1.1.1 A** – The CSS content ‘views’ image in each Similar Item tile is inappropriately described as “eye”
6. **SC 1.4.12 AA** – All the Similar Items titles (e.g. Satchmo My Life in New Orleans) are cut off and do not

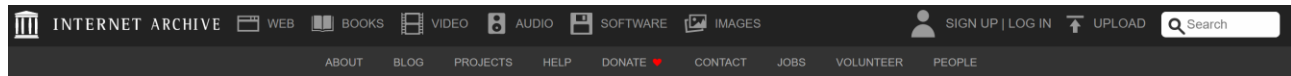
fit in their containers when text spacing rules are applied

7. **SC 1.4.3 AA** – The author text and stats number text (e.g. “By LOUIS ARMSTRONG” and “6,308 (views)”) is low in contrast
8. **SC 4.1.2 A** – The “seek” button in the book viewer is missing an accessible name
9. **SC 2.4.7 AA** – All button elements in the book viewer are missing a visible focus indicator
10. **SC 2.4.6 AA** – The “play / pause” button always reads “Play”, even when the action of the button is going to be to ‘Pause’ the reading
11. **SC 4.1.2 AA** – The buttons in the book viewer that have an ‘on’ state, do not programmatically indicate this state

4. ARCHIVE.ORG Advanced Search

Source: <https://archive.org/advancedsearch.php>

Test case: Test advanced search



Advanced Search

This form allows you to perform an advanced search. You only need to fill in one field below. This can be any field. If you select "not" as your match criteria, you must select one other field.

AND	Any field:	<input type="text" value="contains"/>	<input type="text"/>
AND	Title:	<input type="text" value="contains"/>	<input type="text"/>
AND	Creator:	<input type="text" value="contains"/>	<input type="text"/>
AND	Description:	<input type="text" value="contains"/>	<input type="text"/>
AND	Collection:	<input type="text" value="is"/>	<input type="text"/>
AND	Mediatype:	<input type="text" value="is"/>	<input type="text" value="All mediatypes"/>
AND	<input type="text" value="Custom field"/>	<input type="text" value="contains"/>	<input type="text"/>
AND	<input type="text" value="Custom field"/>	<input type="text" value="contains"/>	<input type="text"/>
AND	<input type="text" value="Custom field"/>	<input type="text" value="contains"/>	<input type="text"/>
AND	Date:	<input type="text" value="YYYY"/> <input type="text" value="MM"/> <input type="text" value="DD"/>	<input type="text"/>
AND	Date range:	<input type="text" value="YYYY"/> <input type="text" value="MM"/> <input type="text" value="DD"/> TO <input type="text" value="YYYY"/> <input type="text" value="MM"/> <input type="text" value="DD"/>	<input type="text"/>

Advanced Search returning JSON, XML, and more

This will return results in the format of your choice.

Query:

Automated findings using Axe

1. **SC 1.3.1 A** – Several text input fields on the page are missing a programmatic and/or visible label. 27 fields total were detected by Axe
2. **SC 1.3.1 A** – Nearly all SELECT input fields on the page are missing a programmatic and/or visible label or are not programmatically associated with their visible label. 23 fields total were detected by Axe
3. **SC 1.4.3 AA** – All “Search” buttons are low in contrast
4. **SC 1.4.3 AA** – All light blue links (e.g. ‘show/hide help’) are low in contrast

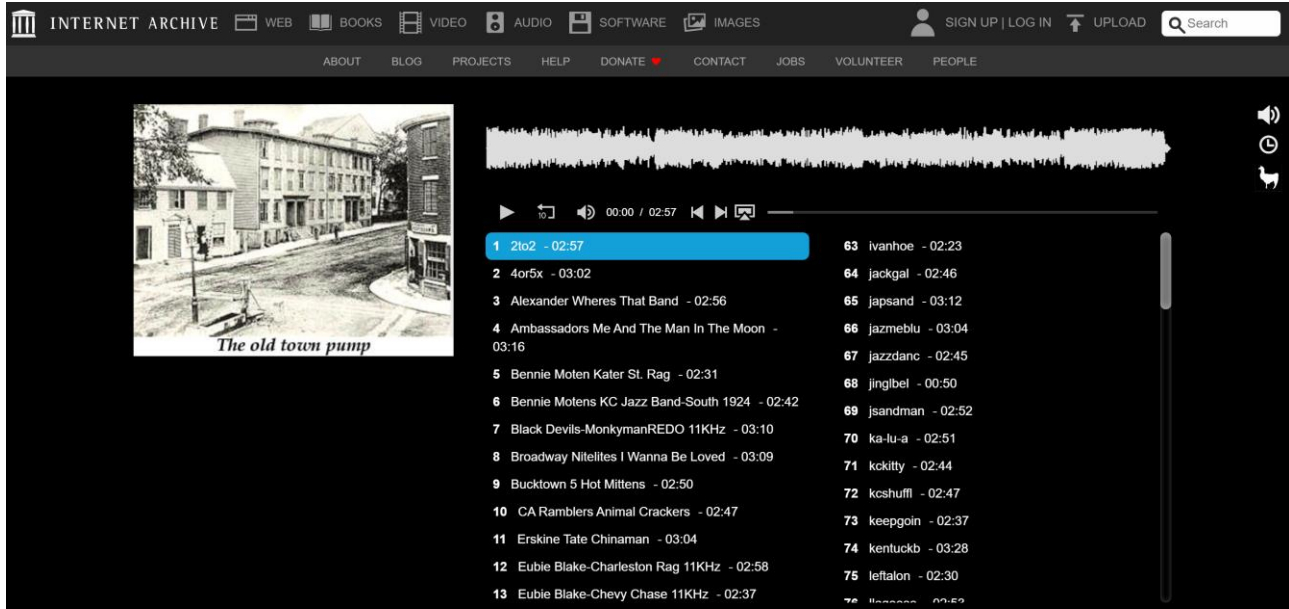
Additional manual findings using NVDA screen reader

1. **SC 1.4.3 AA** – The “Custom field” placeholder text is low in contrast
2. **SC 1.4.10 AA** – The page contains horizontal scroll when a reflow viewport of 320 CSS pixels wide is applied, indicating that some content is not reflowing
3. **SC 1.4.1 A** – The “show/hide help”, “Open Archives Initiative” and “Lucene query syntax” links are not distinguished as links from surrounding text
4. **SC 1.3.1 A** – The radio buttons in the ‘result format’ section are not programmatically associated with their visible labels

5. ARCHIVE.ORG Search Results Page for Audio

Source: https://archive.org/details/Free_20s_Jazz_Collection

Test case: If time permits, test a search results page for audio. Go back to search results page, and select “Audio” from Media Type. Select the first result for “Free 20s Jazz Collection”.



INTERNET ARCHIVE WEB BOOKS VIDEO AUDIO SOFTWARE IMAGES SIGN UP | LOG IN | UPLOAD Search

ABOUT BLOG PROJECTS HELP DONATE CONTACT JOBS VOLUNTEER PEOPLE

The old town pump

1 2to2 - 02:57 63 ivanhoe - 02:23
2 4or5x - 03:02 64 jackgal - 02:46
3 Alexander Wheres That Band - 02:56 65 japsand - 03:12
4 Ambassadors Me And The Man In The Moon - 03:16 66 jazmeblu - 03:04
5 Bennie Moten Kater St. Rag - 02:31 67 jazzdanc - 02:45
6 Bennie Motens KC Jazz Band-South 1924 - 02:42 68 jinglbel - 00:50
7 Black Devils-MonkymanREDO 11KHz - 03:10 69 jsandman - 02:52
8 Broadway Niteilites I Wanna Be Loved - 03:09 70 ka-lu-a - 02:51
9 Bucktown 5 Hot Mittens - 02:50 71 kckitty - 02:44
10 CA Ramblers Animal Crackers - 02:47 72 kcshuffl - 02:47
11 Erskine Tate Chinaman - 03:04 73 keepgoin - 02:37
12 Eubie Blake-Charleston Rag 11KHz - 02:58 74 kentuckb - 03:28
13 Eubie Blake-Chevy Chase 11KHz - 02:37 75 leftalon - 02:30

 Free 20s Jazz Collection
by Gathacol Radio



Automated findings using Axe

1. Insufficient time

Additional manual findings using NVDA screen reader

1. Insufficient time