



IEEE Xplore Accessibility Conformance Report

(Based on VPAT® Version 2.5)

Name of Product/Version:

IEEE Xplore

Report Date:

5 November, 2025

Product Description:

IEEE *Xplore* Digital Library

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Notes:

This report was created by Deque Systems Inc. upon completion of an accessibility evaluation performed July 2025 and modified by IEEE staff in November 2025.

Evaluation Methods Used:

A combination of automated and manual testing techniques was employed for the accessibility assessment. Manual assessment was performed using Chrome on Windows and included exclusive use of the keyboard. Automated tools used included axe Auditor and the axe Dev Tools browser extension. Assistive technologies employed included latest version of NVDA.

Scope of Evaluation

The pages in the following table were evaluated as part of the assessment on which this report is based.

Page Title	URL
Document Page	https://ieeexplore.ieee.org/document/9069875
Search History	https://ieeexplore.ieee.org/search-history
Browse Standards by Collection	https://ieeexplore.ieee.org/browse/standards/collection/ieee
Browse Popular	https://ieeexplore.ieee.org/popular/all
Search Result	https://ieeexplore.ieee.org/search/searchresult.jsp?sortType=newest&newsearch=true
Course Detail	https://ieeexplore.ieee.org/courses/details/EDP677
Journal Homepage	https://ieeexplore.ieee.org/xpl/RecentIssue.jsp?punumber=6287639
Home Page	https://ieeexplore.ieee.org/Xplore/home.jsp
ToC Alerts	https://ieeexplore.ieee.org/alerts/journals-magazines
Contact Us	https://ieeexplore.ieee.org/xpl/contact
Preferences	https://ieeexplore.ieee.org/user/preferences
Browse Courses	https://ieeexplore.ieee.org/courses/home
Author Page	https://ieeexplore.ieee.org/author/37274537000
Project-wide	https://ieeexplore.ieee.org/Xplore/home.jsp
Browse Journals & Magazines	https://ieeexplore.ieee.org/browse/periodicals/title
Saved Searches	https://ieeexplore.ieee.org/alerts/savedsearches
Browse Books	https://ieeexplore.ieee.org/browse/books/title

In addition to the pages listed above, the following components that appear on multiple pages were tested as part of the assessment:

- Header
- Nav Bar

- Search by keywords section
- Cookie
- Browse Titles section
- Footer
- Left filter section
- Sort by section
- Pagination section

Applicable Standards/Guidelines

This report covers the degree of conformance for the following accessibility standard/guidelines:

Standard/Guideline	Included In Report
Web Content Accessibility Guidelines 2.0	Level A (Yes) Level AA (Yes) Level AAA (No)
Web Content Accessibility Guidelines 2.1	Level A (Yes) Level AA (Yes) Level AAA (No)
Web Content Accessibility Guidelines 2.2	Level A (Yes) Level AA (Yes) Level AAA (No)

Terms

The terms used in the Conformance Level information are defined as follows:

- **Supports:** The functionality of the product has at least one method that meets the criterion without known defects or meets with equivalent facilitation.
- **Partially Supports:** Some functionality of the product does not meet the criterion.
- **Does Not Support:** The majority of product functionality does not meet the criterion.

- **Not Applicable:** The criterion is not relevant to the product.
- **Not Evaluated:** The product has not been evaluated against the criterion. This can be used only in WCAG Level AAA criteria.

WCAG 2.2 Report

Note: When reporting on conformance with the WCAG 2.2 Success Criteria, the criteria are scoped for full pages, complete processes, and accessibility-supported ways of using technology as documented in the [WCAG 2.2 Conformance Requirements](#).

Table 1: Success Criteria, Level A

Notes:

Criteria	Conformance Level	Remarks and Explanations
1.1.1 Non-text Content (Level A)	Supports	All content has text alternatives or a text alternate that serves an equivalent purpose.
1.2.1 Audio-only and Video-only (Prerecorded) (Level A)	Supports	Prerecorded audio-only files (such as mp3 files and audio podcasts) have a descriptive text transcript, or the application supports equivalent alternatives to audio and video.
1.2.2 Captions (Prerecorded) (Level A)	Supports	Prerecorded multimedia files have text-based synchronized captions.
1.2.3 Audio Description or Media Alternative (Prerecorded) (Level A)	Supports	Prerecorded multimedia files containing essential information that is only conveyed visually have either a full-text alternative describing the important visual details or an audio description track.
1.3.1 Info and Relationships (Level A)	Partially Supports	Most information, structure, and relationships conveyed through presentation can be programmatically determined or are available in text with exceptions.
1.3.2 Meaningful Sequence (Level A)	Partially Supports	The reading and navigation order of most content is logical and intuitive.
1.3.3 Sensory Characteristics (Level A)	Supports	Instructions to operate and/or understand content do not rely on sensory characteristics of components such as shape, color, size, and visual location.

Criteria	Conformance Level	Remarks and Explanations
<u>1.4.1 Use of Color</u> (Level A)	Partially Supports	For most content, color is not used as the only method to convey information, indicate an action, prompt a response, or distinguish visual elements.
<u>1.4.2 Audio Control</u> (Level A)	Supports	A mechanism is provided to stop, pause, mute, or adjust volume for audio that automatically plays for more than 3 seconds.
<u>2.1.1 Keyboard</u> (Level A)	Partially Supports	On most pages, all functionality is available using only the keyboard (unless that functionality cannot be accomplished in any known way using a keyboard).
<u>2.1.2 No Keyboard Trap</u> (Level A)	Supports	Keyboard focus is never locked or trapped in a particular area, and the user is able to navigate to and from all navigable elements using only a keyboard.
<u>2.1.4 Character Key Shortcuts</u> (Level A 2.1 only)	Supports	If a single character key shortcut exists, then the single character key shortcut can be turned off or remapped, or it is only active when the relevant user interface component is in focus.
<u>2.2.1 Timing Adjustable</u> (Level A)	Partially Supports	In most cases when a time limit exists, the user is given an option to turn off, adjust, or extend the time limit.
<u>2.2.2 Pause, Stop, Hide</u> (Level A)	Supports	Moving, blinking, scrolling, or auto-updating information can be paused, stopped, hidden, or otherwise controlled by the user.
<u>2.3.1 Three Flashes or Below Threshold</u> (Level A)	Supports	Flashing content does not flash more than 3 times per second unless that content is sufficiently small.
<u>2.4.1 Bypass Blocks</u> (Level A)	Supports	A method is provided to skip navigation and other page elements that are repeated across web pages.
<u>2.4.2 Page Titled</u> (Level A)	Supports	All pages have descriptive and informative titles.

Criteria	Conformance Level	Remarks and Explanations
2.4.3 Focus Order (Level A)	Partially Supports	The navigation order of most interactive elements (such as links, buttons, or form elements) is logical and preserves meaning and operability.
2.4.4 Link Purpose (In Context) (Level A)	Partially Supports	The purpose of most links can be determined from the link text alone or from the link text and its programmatic context.
2.5.1 Pointer Gestures (Level A 2.1 only)	Supports	All functionality that can be operated with a pointer can be operated with single-point actions.
2.5.2 Pointer Cancellation (Level A 2.1 only)	Supports	For functionality that can be operated using a single pointer, at least one of the following is true: - The action is not triggered on the down event. - The action triggers on the up event, and a mechanism is available to abort the function before completion or to undo the function after completion. - The up-event reverses any outcome of the preceding down-event. - Completing the function on the down-event is essential.
2.5.3 Label in Name (Level A 2.1 only)	Partially Supports	For most user interface components that include visible text labels, the accessible name matches (or includes) the visible text in the label.
2.5.4 Motion Actuation (Level A 2.1 only)	Supports	Functionality that can be triggered by device motion or user motion detected by a device can be disabled, and the functionality can be operated without using motion.
3.1.1 Language of Page (Level A)	Supports	The language of each page is correct and can be determined programmatically.
3.2.1 On Focus (Level A)	Supports	When an element receives focus, a change in context (such as a substantial change to the page, the spawning of a pop-up window, or a change in focus) that may disorient the user does not occur.

Criteria	Conformance Level	Remarks and Explanations
3.2.2 On Input (Level A)	Supports	When a user inputs information or interacts with a control, it does not result in a substantial change to the page that could disorient the user unless the user is informed about the change ahead of time.
3.2.6 Consistent Help (Level A 2.2 only)	Supports	On web pages that contain help features (including human or automated contact options or self-help options), those features occur in the same order relative to other page content unless the user changes that order.
3.3.1 Error Identification (Level A)	Partially Supports	For most form controls where an input error is automatically detected, a text message or alert is provided that identifies the field/control where the error was detected and describes the error with exceptions.
3.3.2 Labels or Instructions (Level A)	Partially Supports	For most form controls/input fields requiring user input, labels, instructions, and/or error messages are provided to identify the controls/input fields in the form so that users know what input data is expected . The following exceptions exist with exceptions.
3.3.7 Redundant Entry (Level A 2.2 only) WCAG 2.0 and 2.1 – Always answer ‘Supports’ WCAG 2.2 (obsolete and removed) - Does not apply	Supports	If information previously entered by, or provided to, the user is required to be entered again in the same process, that information is either automatically populated or available for the user to select unless the previously entered information is no longer valid or re-entering the information is essential or required to ensure security.
4.1.1 Parsing (Level A) WCAG 2.0 and 2.1 – Always answer ‘Supports’ WCAG 2.2 (obsolete and removed) - Does not apply	Supports	For WCAG 2.0 and 2.1, the September 2023 errata update indicates this criterion is always supported. See the WCAG 2.0 Editorial Errata and the WCAG 2.1 Editorial Errata . This criterion was removed from WCAG 2.2.

Criteria	Conformance Level	Remarks and Explanations
4.1.2 Name, Role, Value (Level A)	Partially Supports	The name, role, state, and/or value of most user interface components can be programmatically determined with exceptions.

Table 2: Success Criteria, Level AA

Notes:

Criteria	Conformance Level	Remarks and Explanations
1.2.4 Captions (Live) (Level AA)	Supports	All live multimedia that contains audio has text-based synchronized captions.
1.2.5 Audio Description (Prerecorded) (Level AA)	Supports	Prerecorded multimedia files have audio descriptions where necessary.
1.3.4 Orientation (Level AA 2.1 only)	Supports	Orientation of the content is not locked to either landscape or portrait unless a specific orientation is essential for the functionality.
1.3.5 Identify Input Purpose (Level AA 2.1 only)	Partially Supports	The purpose of most input fields that collect an individual's personal data are programmatically defined based on the WCAG list of Input Purposes for User Interface Components.
1.4.3 Contrast (Minimum) (Level AA)	Does not Support	Most text and images of regular text does has the required color contrast ratio with their backgrounds with exceptions.
1.4.4 Resize text (Level AA)	Partially Supports	Most content is readable and functional when browser zoom is set to 200% of its initial size with exceptions.
1.4.5 Images of Text (Level AA)	Partially Supports	On most pages, when content can be presented visually using only text, an image of text is not used to present that text with exceptions being Google Ad Manager images.

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<u>1.4.10 Reflow</u> (Level AA 2.1 only)	Partially Supports	The content of most pages is viewable without scrolling horizontally when the viewport is set to 320 CSS pixels wide with the exception of extreme zooming (400%) which activates a slight horizontal scroll.
<u>1.4.11 Non-text Contrast</u> (Level AA 2.1 only)	Partially Supports	Most of the boundaries and indicators of the visual state(s) of each active user component and any graphics required to understand content have a 3:1 color contrast ratio with adjacent color(s) or their background with exceptions.
<u>1.4.12 Text Spacing</u> (Level AA 2.1 only)	Partially Supports	For most content, the spacing between letters, words, lines of text and paragraphs can be adjusted with no loss of content or functionality with exceptions.
<u>1.4.13 Content on Hover or Focus</u> (Level AA 2.1 only)	Partially Supports	In most cases when additional content is triggered by pointer hover or keyboard focus, that additional content can be dismissed and hovered over, and the content persists until the user dismisses it with exceptions.
<u>2.4.5 Multiple Ways</u> (Level AA)	Supports	Multiple ways are available to find other pages on the site.
<u>2.4.6 Headings and Labels</u> (Level AA)	Partially Supports	Most headings and labels for form and interactive controls are informative with exceptions.
<u>2.4.7 Focus Visible</u> (Level AA)	Partially Supports	In most cases, it is visually apparent which page element is currently receiving keyboard focus with exceptions.
<u>2.4.11 Focus Not Obscured (Minimum)</u> (Level AA 2.2 only)	Partially Supports	When most user interface components receive keyboard focus, each component is not entirely hidden due to author-created content with exceptions.
<u>2.5.7 Dragging Movements</u> (Level AA 2.2 only)	Supports	All functionality that uses a dragging movement can be achieved by a single pointer without dragging,

Criteria	Conformance Level	Remarks and Explanations
		unless dragging is essential or the functionality is determined by the user agent and not modified by the author.
2.5.8 Target Size (Minimum) (Level AA 2.2 only)	Partially Supports	The size of the target for most clickable controls is at least 24 by 24 CSS pixels, except where the target size is determined by the user agent; there is a different control with equivalent functionality; the target is inline with text; the presentation of the target is essential to the function or otherwise exempted under the rule; or each control is spaced such that a 24-pixel circle placed around the bounding box of the control will not intersect any similar circle for another control with exceptions.
3.1.2 Language of Parts (Level AA)	Supports	The language of each section of content that is different from the default language of the page is correctly identified and can be determined programmatically.
3.2.3 Consistent Navigation (Level AA)	Supports	Navigation patterns that are repeated on web pages are presented in the same relative order each time they appear and do not change order when navigating through the site.
3.2.4 Consistent Identification (Level AA)	Supports	Labels, names, and text alternatives for content that have the same functionality across multiple web pages are consistently identified.
3.3.3 Error Suggestion (Level AA)	Supports	If input errors are automatically detected, suggestions are provided in text for correcting the input in a timely and accessible manner before the data is submitted to the server.
3.3.4 Error Prevention (Legal, Financial, Data) (Level AA)	Supports	If the user can change or delete legal transactions, financial transactions, student exam responses, or data transactions that are unrecoverable or

Criteria	Conformance Level	Remarks and Explanations
		unintentionally modify or delete data, the changes and/or deletions are reversible, verified, or confirmed.
3.3.8 Accessible Authentication (Minimum) (Level AA 2.2 only)	Supports	A cognitive function test (such as remembering a password or solving a puzzle) is not required for any step in an authentication process unless either another method is available that does not rely on a cognitive function test; help is available to assist the user in completing the test; or the test is to recognize objects or identify non-text content the user provided to the Web site.
4.1.3 Status Messages (Level AA 2.1 only)	Partially Supports	In most cases, status messages can be programmatically determined and presented by assistive technologies without receiving focus. The following exceptions exist with exceptions.

Table 3: Success Criteria, Level AAA

Notes: Not Applicable. Website was not assessed for WCAG 2.2 AAA conformance.

Legal Disclaimer

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