

CanvasXpress VPAT 2.5

Voluntary Product Accessibility Template® (VPAT®)

Version 2.5 — WCAG Edition

Name of Product/Version: CanvasXpress — version 69.0

Report Date: 2026-09-15

Product Description: CanvasXpress is an open-core JavaScript data-visualization library (with R, Python, and TypeScript bindings) that renders interactive charts on an HTML5 canvas/SVG surface, together with a supporting website at canvasxpress.org.

Contact Information: imnphd@gmail.com · <https://canvasxpress.org/contact.html>

Notes: This report covers the interactive chart component and the primary public website page templates. A chart drawn on a canvas is, by default, invisible to assistive technology; CanvasXpress builds a parallel semantic DOM layer (a screen-reader-navigable data table, ARIA labels, a keyboard roving cursor, live regions, a high-contrast theme, and reduced-motion support) so that screen-reader and keyboard users can reach the same information.

⚠ SELF-ATTESTATION — NOT YET INDEPENDENTLY AUDITED. This report is authored and attested by the product maintainer, based on internal manual testing and an automated axe-core conformance gate that runs on every release. It has **not** yet been verified by an independent third-party accessibility auditor. An external WCAG 2.1 AA audit and a firm-signed VPAT are planned. Criteria not yet formally tested are marked **Not Evaluated** rather than claimed.

Evaluation Methods Used: Internal manual testing (keyboard-only operation; screen-reader spot checks) and an automated axe-core accessibility gate executed on every release build. No independent third-party audit or comprehensive assistive-technology test matrix has been applied to date.

Applicable Standards/Guidelines:

Standard / Guideline	Included in Report
Web Content Accessibility Guidelines 2.1, Level A	Yes
Web Content Accessibility Guidelines 2.1, Level AA	Yes
Web Content Accessibility Guidelines 2.1, Level AAA	No (one AAA item noted for information only)

Terms

- **Supports** — the functionality of the product has at least one method that meets the criterion without known defects, or meets it 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. (Permitted only for Level AAA in a standard VPAT; used here, and clearly disclosed, because this is a self-attestation pending a formal audit.)

WCAG 2.1 Report

Table 1: Success Criteria, Level A

Criteria	Conformance Level	Remarks and Explanations
1.1.1 Non-text Content	Supports	Every chart canvas carries <code>role="img"</code> and a generated <code>aria-label</code> (chart type, titles, axes, series/sample counts, value range); an adjacent visually-hidden, screen-reader-navigable data table (linked via <code>aria-describedby</code> , with row/column header scope) exposes the underlying values.
1.2.1 Audio-only and Video-only (Prerecorded)	Not Applicable	The product presents no prerecorded audio-only or video-only content.
1.2.2 Captions (Prerecorded)	Not Applicable	No prerecorded synchronized media.
1.2.3 Audio Description or Media Alternative (Prerecorded)	Not Applicable	No prerecorded synchronized media.
1.3.1 Info and Relationships	Partially Supports	The chart's data-table equivalent uses programmatic table semantics (header scope, <code>aria-describedby</code>); relationships across all website templates and every chart type have not been fully evaluated.
1.3.2 Meaningful Sequence	Not Evaluated	Not yet formally tested.
1.3.3 Sensory Characteristics	Not Evaluated	Not yet formally tested.
1.4.1 Use of Color	Partially Supports	A high-contrast theme applies pattern/line decoration so series can be told apart without colour; not every chart type yet encodes every series non-redundantly (shape/pattern/label).
1.4.2 Audio Control	Not Applicable	No auto-playing audio.
2.1.1 Keyboard	Supports	The chart canvas is keyboard-focusable; arrow keys / Home / End move a roving cursor through data points (each announced); menus, toolbar and customizer controls are focusable and activate on Enter/Space.

Criteria	Conformance Level	Remarks and Explanations
2.1.2 No Keyboard Trap	Supports	Focus can always move away; Escape closes menus and clears the data-point focus.
2.1.4 Character Key Shortcuts	Supports	Single-key pan/zoom shortcuts are gateable via the existing <code>disableKeys</code> / <code>disableArrowKeys</code> flags.
2.2.1 Timing Adjustable	Not Evaluated	Not yet formally tested.
2.2.2 Pause, Stop, Hide	Not Evaluated	Render transitions honour <code>prefers-reduced-motion</code> (see 2.3.3); auto-updating content has not been formally evaluated against this criterion.
2.3.1 Three Flashes or Below Threshold	Not Evaluated	No known flashing content; not yet formally tested.
2.4.1 Bypass Blocks	Not Evaluated	Not yet formally tested.
2.4.2 Page Titled	Not Evaluated	Not yet formally tested at the website-template level.
2.4.3 Focus Order	Partially Supports	A logical focus order is provided for the chart cursor and controls; full <code>role="menu"</code> semantics and modal focus-trap/restore are in progress.
2.4.4 Link Purpose (In Context)	Not Evaluated	Not yet formally tested.
2.5.1 Pointer Gestures	Not Evaluated	Not yet formally tested.
2.5.2 Pointer Cancellation	Not Evaluated	Not yet formally tested.
2.5.3 Label in Name	Not Evaluated	Not yet formally tested.
2.5.4 Motion Actuation	Not Applicable	No device-motion-actuated functionality.
3.1.1 Language of Page	Not Evaluated	Not yet formally tested at the website-template level.
3.2.1 On Focus	Partially Supports	Controls activate on click/Enter rather than on focus; full menu/modal focus semantics are in progress.
3.2.2 On Input	Partially Supports	See 3.2.1; input-change behaviours not fully evaluated across all controls.
3.3.1 Error Identification	Not Evaluated	Limited form input; not yet formally tested.
3.3.2 Labels or Instructions	Not Evaluated	Not yet formally tested.
4.1.1 Parsing	Not Evaluated	(Obsolete/removed in later WCAG; retained here for 2.1.) Not formally tested.
4.1.2 Name, Role, Value	Supports	The canvas exposes name + role; interactive controls have roles and accessible names (from title or a derived label).

Table 2: Success Criteria, Level AA

Criteria	Conformance Level	Remarks and Explanations
1.2.4 Captions (Live)	Not Applicable	No live synchronized media.
1.2.5 Audio Description (Prerecorded)	Not Applicable	No prerecorded synchronized media.
1.3.4 Orientation	Not Evaluated	Not yet formally tested.
1.3.5 Identify Input Purpose	Not Evaluated	Not yet formally tested.
1.4.3 Contrast (Minimum)	Partially Supports	A built-in <code>highcontrast</code> theme provides black text/axes on a white ground for maximum text contrast; the default and decorative themes are not all audited to 4.5:1.
1.4.4 Resize Text	Not Evaluated	Not yet formally tested.
1.4.5 Images of Text	Not Evaluated	Chart text is rendered as canvas/SVG text, not images of text; not formally tested.
1.4.10 Reflow	Not Evaluated	Not yet formally tested.
1.4.11 Non-text Contrast	Partially Supports	The high-contrast theme gives black borders/guides and a visible focus outline; other themes are not fully audited to 3:1 for non-text UI.
1.4.12 Text Spacing	Not Evaluated	Not yet formally tested.
1.4.13 Content on Hover or Focus	Not Evaluated	Tooltips appear on hover/focus; dismissible/hoverable/persistent behaviour not formally tested.
2.4.5 Multiple Ways	Not Evaluated	Not yet formally tested at the website level.
2.4.6 Headings and Labels	Not Evaluated	Not yet formally tested.
2.4.7 Focus Visible	Supports	A <code>:focus-visible</code> outline is shown on the canvas and on every keyboard-operable control for keyboard focus.
3.1.2 Language of Parts	Not Evaluated	Not yet formally tested.
3.2.3 Consistent Navigation	Not Evaluated	Not yet formally tested.
3.2.4 Consistent Identification	Not Evaluated	Not yet formally tested.
3.3.3 Error Suggestion	Not Evaluated	Limited form input; not yet formally tested.
3.3.4 Error Prevention (Legal, Financial, Data)	Not Applicable	The product does not conduct legal/financial transactions or modify user data records.
4.1.3 Status Messages	Supports	A polite <code>aria-live</code> region announces "Chart updated" with the new summary when a chart's data or configuration changes.

Informational note — Level AAA

Criteria	Conformance Level	Remarks and Explanations
2.3.3 Animation from Interactions (AAA)	Supports	Render transitions are skipped when the operating system requests prefers-reduced-motion . Provided though it is Level AAA and outside the scope of this report.

Legal Disclaimer

This Voluntary Product Accessibility Template (VPAT) is provided for informational purposes only. It reflects the maintainer's good-faith self-assessment of CanvasXpress version 69.0 as of the report date and is **not** the product of an independent third-party audit. Conformance is subject to change as the product evolves and as formal evaluation is completed. VPAT® is a registered trademark of the Information Technology Industry Council (ITI).

Attestation

Prepared and attested by:

Name: **Isaac Neuhaus** (product maintainer)

Title: **Maintainer, CanvasXpress**

Signature: **/s/ Isaac Neuhaus** (electronically attested) Date: **2026-09-15**

To obtain a firm-signed, independently audited VPAT for a specific procurement, contact imnphd@gmail.com.