VEX Robotics Accessibility Conformance Report

WCAG Edition

(Based on VPAT® Version 2.5)

Name of Product: VEXcode 4 Coding Software (App-Based)

Platform: macOS, Windows

Version: 4.XX.XXX, Released April XX, 2026

Report Date: August 12, 2025

Product Description: App-Based coding software tools for VEX Robotics products, including:

- **VEXcode 123**
- **VEXcode GO**
- **VEXcode AIM**
- **VEXcode IQ**
- **VEXcode EXP**
- **VEXcode CTE**
- **VEXcode V5**
- **VEXcode AIR**
- **VEXcode VR**

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Notes: This product incorporates third-party components, including the Monaco code editor and a block-based programming library (Blockly). While these components are integrated to support core functionality, their accessibility may vary and may not fully conform to all applicable WCAG 2.1 success criteria. Accessibility improvements are actively being implemented and evaluated as part of ongoing updates to VEXcode 5, including efforts to address limitations in these third-party components where feasible.

Evaluation Methods Used: Manual testing with screen reader tools (VoiceOver).

Applicable Standards/Guidelines

This report covers the degree of conformance for the following accessibility standards/guidelines (Some of the WCAG 2.2 criteria have also been considered):

Standard/Guideline	Included In Report
Web Content Accessibility Guidelines 2.1	Level A Level AA

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 only be used in WCAG Level AAA criteria.

Table 1: Success Criteria, Level A

Criteria	Conformance Level	Remarks and Explanations
1.1.1 Non-text Content (Level A)	Partially Supports	Secondary controls for actions like settings and help, do not have labels.
1.2.1 Audio-only and Video-only (Prerecorded) (Level A)	Partially Supports	VEXcode 4 does not include prerecorded audio-only or video-only media. However, some introductory GIF-based tours convey instructional content visually without providing an equivalent text alternative.
1.2.2 Captions (Prerecorded) (Level A)	Supports	All of the videos on the applications contain captions.
1.2.3 Audio Description or Media Alternative (Prerecorded) (Level A)	Does Not Support	Prerecorded synchronized media does not provide audio description or a full media alternative for visual content presented in the video.
1.3.1 Info and Relationships (Level A)	Does Not Support	The applications depend on the location and structure of the content to provide context.

1.3.2 Meaningful Sequence (Level A)	Does Not Support	Content is not consistently presented in a programmatic sequence that preserves meaning when the visual order is lost.
1.3.3 Sensory Characteristics (Level A)	Partially Supports	There are some key elements that do not have labels.
1.4.1 Use of Color (Level A)	Supports	Color is not used as the only visual means of conveying information, indicating an action, prompting a response or distinguishing a visual element.
1.4.2 Audio Control (Level A)	Supports	The applications do not include audio that plays automatically for more than 3 seconds.
2.1.1 Keyboard (Level A)	Does Not Support	The majority of functionalities are not operable through a keyboard interface. However, some newer functionality supports keyboard access or provides keyboard shortcut alternatives.
2.1.2 No Keyboard Trap (Level A)	Partially Supports	There are instances where the user is still trapped without a mouse click.
2.1.4 Character Key Shortcuts (Level A 2.1 and 2.2)	Not Applicable	There are no character key shortcuts.
2.2.1 Timing Adjustable (Level A)	Not Applicable	There are no time limits on the applications.
2.2.2 Pause, Stop, Hide (Level A)	Partially Supports	Users can pause, stop, or hide moving, blinking, and scrolling content. However, some auto-updating content does not provide a way to pause, stop, hide, or control updates.
2.3.1 Three Flashes or Below Threshold (Level A)	Supports	The applications do not contain anything that flashes more than three times in any one-second period, or the flash is below the general and red flash thresholds.
2.4.1 Bypass Blocks (Level A)	Does Not Support	The applications do not provide a 'Skip to Main Content' mechanism, which limits the ability of keyboard and assistive technology users to bypass repetitive interface regions.
2.4.2 Page Titled (Level A)	Supports	VEXcode 4 applications have only one page. There is only one page title.

2.4.3 Focus Order (Level A)	Partially Supports	Not all focusable inputs can be selected in order. Additionally, some inputs are not focusable such as the port selection inputs when configuring a device.
2.4.4 Link Purpose (In Context) (Level A)	Supports	All links have text content or associated labels.
2.5.1 Pointer Gestures (Level A 2.1 and 2.2)	Partially Supports	The user cannot use a single mouse click to drop in blocks.
2.5.2 Pointer Cancellation (Level A 2.1 and 2.2)	Partially Supports	The drag and drop events can be canceled only if the released area is not a suitable droppable area.
2.5.3 Label in Name (Level A 2.1 and 2.2)	Partially Supports	Some icons like the coding, monitoring, and help icons do not have a label in name.
2.5.4 Motion Actuation (Level A 2.1 and 2.2)	Not Applicable	There are no motion operations.
3.1.1 Language of Page (Level A)	Does Not Support	The default human language of the page is not consistently programmatically identified in the code.
3.2.1 On Focus (Level A)	Partially Supports	The applications do not change context when a component receives focus. However, some additional information may be displayed on focus. There are also places where invalid inputs will be reset on loss of focus.
3.2.2 On Input (Level A)	Partially Supports	There are several input fields that validate user input while values are being entered. If the value is invalid, focus loss can reset the value or will prevent submitting the change.
3.2.6 Consistent Help (Level A 2.2 only)	Supports	The online help button stays at the same location across the applications.
3.3.1 Error Identification (Level A)	Partially Supports	When input errors are detected, inputs identify the error and provide a text description. Visual indicators, such as color or icons, may also be used. Some functionality relies on Blockly, a third-party block-based programming library, where errors are indicated visually (e.g., input fields turning red) but are not described in text. When excluding this third-party content, the site supports this criterion.

3.3.2 Labels or Instructions (Level A)	Partially Supports	A few inputs have no labels and are not clear to the user that they are even inputs.
3.3.7 Redundant Entry (Level A 2.2 only)	Supports	The applications avoid requiring users to re-enter previously provided information. Inputs are auto-populated.
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	WCAG 2.0 and 2.1 – Always answer 'Supports'
4.1.2 Name, Role, Value (Level A)	Partially Supports	User interface components generally expose programmatically determinable names, roles, and values, and changes are communicated to assistive technologies. However, some functionality relies on third-party components, including the Monaco code editor and Blockly, which may not fully support programmatic exposure of names, roles, values, or state changes. When excluding this third-party content, the site supports this criterion.

Table 2: Success Criteria, Level AA

Criteria	Conformance Level	Remarks and Explanations
1.2.4 Captions (Live) (Level AA)	Not Applicable	VEXcode 4 includes live video without audio; therefore, captions are not applicable.
1.2.5 Audio Description (Prerecorded) (Level AA)	Partially Supports	The tutorial videos do have subtitles, but do not have a second, more detailed audio description track. Video scripts do narrate the activity on screen.
1.3.4 Orientation (Level AA 2.1 and 2.2)	Supports	The applications do not restrict screen orientation.
1.3.5 Identify Input Purpose (Level AA 2.1 and 2.2)	Partially Supports	Some input fields are correctly labeled so that assistive technologies can identify their purpose.

Criteria	Conformance Level	Remarks and Explanations
1.4.3 Contrast (Minimum) (Level AA)	Supports	Text and images of text have enough contrast against their background (at least 4.5 to 1).
1.4.4 Resize text (Level AA)	Partially Supports	After scaling, parts of the UI will be blocked by the zoom effect.
1.4.5 Images of Text (Level AA)	Supports	Images of text are only used where they are essential.
1.4.10 Reflow (Level AA 2.1 and 2.2)	Partially Supports	The applications can be resized without loss of content or functionality. Some areas that use Blockly, a third-party block-based workspace, require both horizontal and vertical scrolling to view content rather than adjusting to fit the screen. When excluding this third-party content, the site supports this criterion.
1.4.11 Non-text Contrast (Level AA 2.1 and 2.2)	Partially Supports	Images of blocks in the integrated help documents or the tutorial videos will not change in the high-contrast theme.
1.4.12 Text Spacing (Level AA 2.1 and 2.2)	Supports	The applications meet all the text spacing requirements without loss of content or functionality.
1.4.13 Content on Hover or Focus (Level AA 2.1 and 2.2)	Supports	Any additional information displayed on hover or focus remains visible until dismissed.
2.4.5 Multiple Ways (Level AA)	Not Applicable	VEXcode 4 applications have only one page, thus it is not applicable to multiple ways.
2.4.6 Headings and Labels (Level AA)	Supports	Headings and labels describe the topic or purpose.
2.4.7 Focus Visible (Level AA)	Supports	Any keyboard operable user interface has a mode of operation where the keyboard focus indicator is visible.

Criteria	Conformance Level	Remarks and Explanations
2.4.11 Focus Not Obscured (Minimum) (Level AA 2.2 only)	Supports	When a user interface component receives keyboard focus, the component is not entirely hidden due to author-created content.
2.5.7 Dragging Movements (Level AA 2.2 only)	Does Not Support	Dragging movements are required for certain interactions, such as manipulating blocks, and equivalent non-dragging alternatives are not fully supported.
2.5.8 Target Size (Minimum) (Level AA 2.2 only)	Supports	The size of the target for pointer inputs is at least 24 by 24 CSS pixels.
3.1.2 Language of Parts (Level AA)	Does Not Support	Content that includes text in different languages does not consistently identify the language of each section programmatically in the code.
3.2.3 Consistent Navigation (Level AA)	Supports	Repeated navigation mechanisms, where present, are provided in a consistent relative order across the applications.
3.2.4 Consistent Identification (Level AA)	Supports	Components with the same functionality are identified consistently throughout the interface.
3.3.3 Error Suggestion (Level AA)	Partially Supports	If an input error is automatically detected and suggestions for correction are known, then the suggestions are provided to the user. Some functionality relies on Blockly, a third-party block-based programming library, where errors are indicated visually (e.g., highlighted in red) but do not include suggestions for correction. Excluding this third-party content, the site supports this criterion.
3.3.4 Error Prevention (Legal, Financial, Data) (Level AA)	Not Applicable	The applications do not require users to enter legal commitments or financial transaction data.
3.3.8 Accessible Authentication (Minimum) (Level AA 2.2 only)	Supports	A cognitive function test is not required for any step.
4.1.3 Status Messages (Level AA 2.1 and 2.2)	Does Not Support	The system does not support ARIA status message roles.

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