

# Posit PBC Accessibility Conformance Report

## WCAG Edition

(Based on VPAT® Version 2.5)



### Name of Product/Version:

Posit Academy 2024.10 – Student Experience (the RStudio IDE is documented separately; see Notes below)

### Report Date:

October 30, 2024

### Product Description:

Academy is a cohort-based, mentor-led data science apprenticeship for professional teams.

### Contact Information:

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### Notes:

This audit covers a representative sample of pages visible to students (the Student Portal). Features only available to instructors, mentors, and administrators were not audited for this VPAT.

Posit Academy embeds the RStudio IDE in an iframe for some features.

## Evaluation Methods Used:

Testing is based on knowledge of general product functionality and was conducted using Chrome and the axe DevTools® browser plugin, with additional manual testing using NVDA / Chrome on Windows 11, and VoiceOver / Safari on macOS.

## Applicable Standards/Guidelines

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

Standard/Guideline	Included In Report
<a href="#">Web Content Accessibility Guidelines 2.0</a>	Level A (Yes ) Level AA (Yes) Level AAA (No)
<a href="#">Web Content Accessibility Guidelines 2.1</a>	Level A (Yes) Level AA (Yes) Level AAA (No )
<a href="#">Web Content Accessibility Guidelines 2.2</a>	Level A (No ) Level AA (No ) 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 only be used in WCAG Level AAA criteria.

## WCAG 2.x Report

Note: When reporting on conformance with the WCAG 2.x Success Criteria, they are scoped for full pages, complete processes, and accessibility-supported ways of using technology as documented in the [WCAG 2.0 Conformance Requirements](#).

## Table 1: Success Criteria, Level A

Notes:

Criteria	Conformance Level	Remarks and Explanations
<a href="#">1.1.1 Non-text Content</a> (Level A)	Does Not Support	<p>Several cosmetic icons including accessible text that describes their appearance (not their function) and interrupts the flow of reading the page (screen reader) and should be marked as cosmetic.</p> <p>Some lessons contain images without accessible text.</p> <p>The progress bar controls do not have labels.</p> <p>Some evaluation questions reference images (e.g., graphs) without a text alternative which makes them impossible to answer for a non-sighted user.</p>
<a href="#">1.2.1 Audio-only and Video-only (Prerecorded)</a> (Level A)	Not Applicable	
<a href="#">1.2.2 Captions (Prerecorded)</a> (Level A)	Not Applicable	No embedded videos were present in the pages that were evaluated.
<a href="#">1.2.3 Audio Description or Media Alternative (Prerecorded)</a> (Level A)	Not Applicable	
<a href="#">1.3.1 Info and Relationships</a> (Level A)	Partially Supports	<p>Some visual headings (i.e., text styled to look like headings) are not semantically coded as headings.</p> <p>Text regions such as the output from running code, or sample code, are not semantically marked-up in a way that allows a screen reader user to easily identify them.</p> <p>The left navigation items during a lesson should be in a list for easier use via screen reader.</p>
<a href="#">1.3.2 Meaningful Sequence</a> (Level A)	Supports	
<a href="#">1.3.3 Sensory Characteristics</a> (Level A)	Partially Supports	Audit found one example of an assessment question that relies on a user's ability to see items highlighted in an image (screenshot), and there is no equivalent text

Criteria	Conformance Level	Remarks and Explanations
		representation.
<a href="#">1.4.1 Use of Color</a> (Level A)	Supports	
<a href="#">1.4.2 Audio Control</a> (Level A)	Not Applicable	
<a href="#">2.1.1 Keyboard</a> (Level A)	Does Not Support	<p>Vertical splitter cannot be operated via keyboard.</p> <p>The additional information shown by hovering the mouse over the “(i)” info icon cannot be seen by a keyboard-only user.</p> <p>The “clear search” widget in the search field is not keyboard operable (but user can select and delete the text to accomplish the same result).</p> <p>Search results cannot be selected and operated using the keyboard.</p> <p>The “Report an issue” view’s selection and annotation controls are not usable via the keyboard.</p> <p>The floating toolbar shown when recording the screen via “Report an issue” can be moved with the mouse, but not with the keyboard.</p> <p>Paging controls for data tables are not keyboard operable.</p> <p>The “Loaded packages” popup doesn’t allow focusing the list of packages so it cannot be scrolled using the keyboard.</p> <p>The “Loaded packages” popup doesn’t close when ESC key is pressed.</p>
<a href="#">2.1.2 No Keyboard Trap</a> (Level A)	Does Not Support	The embedded RStudio IDE’s console, editor, and

Criteria	Conformance Level	Remarks and Explanations
		<p>terminal all have intentional tab traps (e.g. the tab key is used to indent text in these regions). There is a setting, "Tab key always moves focus", that can be used to overcome this, as well as many keyboard shortcuts for moving focus to other aspects of the IDE.</p> <p>The code editor control used in many situations is a tab trap.</p>
<a href="#">2.1.4 Character Key Shortcuts</a> (Level A 2.1 and 2.2)	Supports	
<a href="#">2.2.1 Timing Adjustable</a> (Level A)	Not Applicable	
<a href="#">2.2.2 Pause, Stop, Hide</a> (Level A)	Not Applicable	
<a href="#">2.3.1 Three Flashes or Below Threshold</a> (Level A)	Supports	
<a href="#">2.4.1 Bypass Blocks</a> (Level A)	Partially Supports	Some pages have no headings or landmarks making them harder to comprehend and navigate using a screen reader.
<a href="#">2.4.2 Page Titled</a> (Level A)	Does Not Support	Page title is always "Posit Academy" and doesn't provide additional context.
<a href="#">2.4.3 Focus Order</a> (Level A)	Does Not Support	<p>The "Report an error" button has two tabstops associated with it, which is confusing but doesn't prevent it from being used.</p> <p>The "Report an issue" modal dialog doesn't receive keyboard focus when it is activated.</p> <p>When "Report an issue" modal dialog is closed, focus is not set back to the triggering element.</p> <p>The "Report an issue" modal dialog does not prevent tabbing through the content of the page "behind" it.</p> <p>The "I'm stuck because of this issue" checkbox in "Report an issue" has an extra tabstop.</p>

Criteria	Conformance Level	Remarks and Explanations
		<p>When the “Continue” button is clicked to display the next lesson, that lesson is inserted above the button but focus stays on the button. This requires a keyboard or screen-reader user to know to navigate in reverse to find the new content.</p> <p>The example “Submit Answer” button in “Welcome to Assessment” instruction page is focusable; it should not be as it is purely informative, not interactive.</p> <p>The popup shown for “See loaded packages” does not receive keyboard focus when activated, making it difficult to operate via keyboard or screen reader.</p> <p>The “Loaded packages” popup does not restore focus to the triggering element when it is closed.</p>
<a href="#">2.4.4 Link Purpose (In Context)</a> (Level A)	Supports	
<a href="#">2.5.1 Pointer Gestures</a> (Level A 2.1 and 2.2)	Not Applicable	
<a href="#">2.5.2 Pointer Cancellation</a> (Level A 2.1 and 2.2)	Supports	
<a href="#">2.5.3 Label in Name</a> (Level A 2.1 and 2.2)	Supports	
<a href="#">2.5.4 Motion Actuation</a> (Level A 2.1 and 2.2)	Not Applicable	
<a href="#">3.1.1 Language of Page</a> (Level A)	Supports	English-only
<a href="#">3.2.1 On Focus</a> (Level A)	Supports	
<a href="#">3.2.2 On Input</a> (Level A)	Supports	
<a href="#">3.2.6 Consistent Help</a> (Level A 2.2 only)	Not evaluated	
<a href="#">3.3.1 Error Identification</a> (Level A)	Partially Supports	The invalid entry warnings shown below text fields in “Report an issue” are not associated with their text fields in any way other than visual proximity.
<a href="#">3.3.2 Labels or Instructions</a> (Level A)	Supports	
<a href="#">3.3.7 Redundant Entry</a> (Level A 2.2 only)	Not evaluated	
<a href="#">4.1.1 Parsing</a> (Level A)	Supports	For WCAG 2.0 and 2.1, the September 2023 errata

Criteria	Conformance Level	Remarks and Explanations
WCAG 2.0 and 2.1 – Always answer ‘Supports’ WCAG 2.2 (obsolete and removed) - Does not apply		update indicates this criterion is always supported. See the <a href="#">WCAG 2.0 Editorial Errata</a> and the <a href="#">WCAG 2.1 Editorial Errata</a> .
<a href="#">4.1.2 Name, Role, Value</a> (Level A)	Does Not Support	<p>Navigation regions have invalid aria usage (this is a code bug but does impact accessibility).</p> <p>Vertical splitter not annotated for screen reader usage.</p> <p>Week navigation buttons (“learning path”) do not programmatically indicate which button is selected.</p> <p>When searching there is no feedback (for a screen reader user) on the number of results, and navigating the results is extremely difficult.</p> <p>The “Report an issue” modal dialog is not properly annotated so a screen reader may not report meaningful information.</p> <p>The “start recording” and “turn microphone on” buttons have no associated text labels.</p> <p>The “description” field in “Report an issue” is mandatory but is not annotated as such.</p> <p>The select item in the left nav during a lesson is visually indicated but not programmatically indicated.</p> <p>The code editor widgets have no associated labels, making them hard to distinguish with a screen reader.</p> <p>The code editor widget gives no feedback during typing when using VoiceOver on macOS with Chrome or Firefox, and says “line separator” for anything typed</p>

Criteria	Conformance Level	Remarks and Explanations
		<p>using Safari.</p> <p>The code editor widget does not provide useful feedback when navigating around code using the arrow keys with VoiceOver, NVDA, JAWS 2023, or Narrator.</p> <p>The currently selected page in a data table is visually indicated but not programmatically indicated.</p>

## Table 2: Success Criteria, Level AA

Notes:

Criteria	Conformance Level	Remarks and Explanations
<a href="#">1.2.4 Captions (Live)</a> (Level AA)	Not Applicable	
<a href="#">1.2.5 Audio Description (Prerecorded)</a> (Level AA)	Not Applicable	
<a href="#">1.3.4 Orientation</a> (Level AA 2.1 and 2.2)	Supports	
<a href="#">1.3.5 Identify Input Purpose</a> (Level AA 2.1 and 2.2)	Supports	
<a href="#">1.4.3 Contrast (Minimum)</a> (Level AA)	Partially Supports	<p>The “Report an issue” button has low contrast text (2.5:1).</p> <p>The “Submit” button in the “Report an issue” dialog has low contrast text (2.5:1).</p> <p>The “Get Insights” button text has a contrast of 3.3:1.</p> <p>Text at bottom of paged data tables showing number of row, and the data types in column headers, have low contrast of 2.8:1.</p>
<a href="#">1.4.4 Resize text</a> (Level AA)	Does Not Support	With browser viewport of 1366px wide by 768px, then zoomed to 200%, a significant portion of the page is hidden and unreachable.

Criteria	Conformance Level	Remarks and Explanations
<a href="#">1.4.5 Images of Text</a> (Level AA)	Supports	
<a href="#">1.4.10 Reflow</a> (Level AA 2.1 and 2.2)	Does Not Support	With browser viewport of 320px width by 256px height at 100% zoom, much of the site is clipped and unusable.
<a href="#">1.4.11 Non-text Contrast</a> (Level AA 2.1 and 2.2)	Supports	Some focus indicators have contrast below 3:1. This is not a WCAG 2.1 violation but it will be in WCAG 2.2.
<a href="#">1.4.12 Text Spacing</a> (Level AA 2.1 and 2.2)	Partially Supports	Some minor layout quirks when using custom text spacing, but does not impact overall usability.
<a href="#">1.4.13 Content on Hover or Focus</a> (Level AA 2.1 and 2.2)	Partially Supports	The “(i)” info button shows a popup when the mouse is position over it; it cannot be dismissed using the keyboard.
<a href="#">2.4.5 Multiple Ways</a> (Level AA)	Supports	
<a href="#">2.4.6 Headings and Labels</a> (Level AA)	Partially Supports	Some headings are not coded as headings
<a href="#">2.4.7 Focus Visible</a> (Level AA)	Does Not Support	<p>The “Login” link on the landing page has no focus rectangle.</p> <p>The “learning path” control’s focus indicators are often clipped and only partially visible, making it difficult to know which item has focus.</p> <p>The “Report an issue” button has no focus indicator.</p> <p>The buttons in the toolbar of the code editor widget have no focus rectangles.</p> <p>The left-nav items during a lesson have no focus rectangles.</p>
<a href="#">2.4.11 Focus Not Obscured (Minimum)</a> (Level AA 2.2 only)	Not evaluated	
<a href="#">2.5.7 Dragging Movements</a> (Level AA 2.2 only)	Not evaluated	
<a href="#">2.5.8 Target Size (Minimum)</a> (Level AA 2.2 only)	Not evaluated	
<a href="#">3.1.2 Language of Parts</a> (Level AA)	Supports	English-only
<a href="#">3.2.3 Consistent Navigation</a> (Level AA)	Supports	

Criteria	Conformance Level	Remarks and Explanations
<a href="#">3.2.4 Consistent Identification</a> (Level AA)	Supports	
<a href="#">3.3.3 Error Suggestion</a> (Level AA)	Not Applicable	
<a href="#">3.3.4 Error Prevention (Legal, Financial, Data)</a> (Level AA)	Not Applicable	
<a href="#">3.3.8 Accessible Authentication (Minimum)</a> (Level AA 2.2 only)	Not evaluated	
<a href="#">4.1.3 Status Messages</a> (Level AA 2.1 and 2.2)	Does Not Support	After clicking the “Run code” button a spinner is shown with “Loading results”, but this is not announced to a screen reader user. Once the results are displayed, nothing is announced, either, and the user has to then navigate to the unlabeled code output region to find the results.

### Table 3: Success Criteria, Level AAA

Notes:

Criteria	Conformance Level	Remarks and Explanations
<a href="#">1.2.6 Sign Language (Prerecorded)</a> (Level AAA)	Not evaluated	
<a href="#">1.2.7 Extended Audio Description (Prerecorded)</a> (Level AAA)	Not evaluated	
<a href="#">1.2.8 Media Alternative (Prerecorded)</a> (Level AAA)	Not evaluated	
<a href="#">1.2.9 Audio-only (Live)</a> (Level AAA)	Not evaluated	
<a href="#">1.3.6 Identify Purpose</a> (Level AAA 2.1 and 2.2)	Not evaluated	
<a href="#">1.4.6 Contrast (Enhanced)</a> (Level AAA)	Not evaluated	
<a href="#">1.4.7 Low or No Background Audio</a> (Level AAA)	Not evaluated	
<a href="#">1.4.8 Visual Presentation</a> (Level AAA)	Not evaluated	
<a href="#">1.4.9 Images of Text (No Exception)</a> (Level AAA)	Not evaluated	
<a href="#">2.1.3 Keyboard (No Exception)</a> (Level AAA)	Not evaluated	
<a href="#">2.2.3 No Timing</a> (Level AAA)	Not evaluated	
<a href="#">2.2.4 Interruptions</a> (Level AAA)	Not evaluated	
<a href="#">2.2.5 Re-authenticating</a> (Level AAA)	Not evaluated	

Criteria	Conformance Level	Remarks and Explanations
<a href="#">2.2.6 Timeouts</a> (Level AAA 2.1 and 2.2)	Not evaluated	
<a href="#">2.3.2 Three Flashes</a> (Level AAA)	Not evaluated	
<a href="#">2.3.3 Animation from Interactions</a> (Level AAA 2.1 and 2.2)	Not evaluated	
<a href="#">2.4.8 Location</a> (Level AAA)	Not evaluated	
<a href="#">2.4.9 Link Purpose (Link Only)</a> (Level AAA)	Not evaluated	
<a href="#">2.4.10 Section Headings</a> (Level AAA)	Not evaluated	
<a href="#">2.4.12 Focus Not Obscured (Enhanced)</a> (Level AAA 2.2 only)	Not evaluated	
<a href="#">2.4.13 Focus Appearance</a> (Level AAA 2.2 only)	Not evaluated	
<a href="#">2.5.5 Target Size</a> (Level AAA 2.1 and 2.2)	Not evaluated	
<a href="#">2.5.6 Concurrent Input Mechanisms</a> (Level AAA 2.1 and 2.2)	Not evaluated	
<a href="#">3.1.3 Unusual Words</a> (Level AAA)	Not evaluated	
<a href="#">3.1.4 Abbreviations</a> (Level AAA)	Not evaluated	
<a href="#">3.1.5 Reading Level</a> (Level AAA)	Not evaluated	
<a href="#">3.1.6 Pronunciation</a> (Level AAA)	Not evaluated	
<a href="#">3.2.5 Change on Request</a> (Level AAA)	Not evaluated	
<a href="#">3.3.5 Help</a> (Level AAA)	Not evaluated	
<a href="#">3.3.6 Error Prevention (All)</a> (Level AAA)	Not evaluated	
<a href="#">3.3.9 Accessible Authentication (Enhanced)</a> (Level AAA 2.2 only)	Not evaluated	

## Legal Disclaimer (Company)

*This audit did not evaluate every feature and UI-state of the product, so criteria marked as “Supports” may have failures not covered in this report.*