

Hypothesis Accessibility Conformance Report

WCAG Edition

VPAT® Version 2.3 (Revised) – April 2019

Name of Product/Version: Hypothesis v.1.1431.0 embedded into the Canvas environment

Product Description: A web-based annotation tool

Report Date: March 22, 2024

Contact information:

Evaluation Methods Used: Testing was conducted by the Inclusive Design Research Centre at OCAD University. Testing was done on the following browsers: Firefox 121 (Mac), Safari 17.4 (Mac), and Chrome 120 (Mac and PC), Firefox 115.8 (PC). Tools used for testing include: VoiceOver screen reader, NVDA 2023.3, Nu HTML checker, TPG Colour Contrast Analyzer.

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 / No) Level AA (Yes / No) Level AAA (Yes / No)
Web Content Accessibility Guidelines 2.1	Level A (Yes / No) Level AA (Yes / No) Level AAA (Yes / 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 2.0 Level AAA.

WCAG 2.1 Report

Note: When reporting on conformance with the WCAG 2.1 Success Criteria, they are scoped for full pages, complete processes, and accessibility-supported ways of using technology as documented in the [WCAG 2.1 Conformance Requirements](#).

Table 1: Success Criteria, Level A

Notes: The review is based on performing the following tasks:

- Exploring annotations (e.g., reading, searching, etc.).
- Interacting with annotations (e.g., replying, sharing, etc.).
- Creating annotations (e.g., highlighting content and attaching annotations to highlights and/or pages)
- Creating and grading a hypothesis assignment (hypothesis parts of flow only).

Criteria	Conformance Level	Remarks and Explanations
1.1.1 Non-text Content (Level A)	Supports	All images have proper text alternatives.
1.2.1 Audio-only and Video-only (Prerecorded) (Level A)	Not applicable	Hypothesis does not contain audio-only or video-only content.
1.2.2 Captions (Prerecorded) (Level A)	Not applicable	Hypothesis does not contain audio-visual content.
1.2.3 Audio Description or Media Alternative (Prerecorded) (Level A)	Not applicable	Hypothesis does not contain audio-visual content.
1.3.1 Info and Relationships (Level A)	Partially supports	Information that is communicated visually within the tool is also present programmatically and can be perceived by assistive technologies, with the following exception: <ul style="list-style-type: none"> • Multiple annotations by the same person have the same title in the annotations list, resulting in duplicate headings which may make it challenging to identify which annotation is which or to navigate by heading.
1.3.2 Meaningful Sequence (Level A)	Supports	The reading order of content is meaningful.
1.3.3 Sensory Characteristics (Level A)	Supports	Instructions do not rely upon visual characteristics or sounds.
1.4.1 Use of Color (Level A)	Supports	Information is not communicated through colour alone.
1.4.2 Audio Control (Level A)	Not applicable	Hypothesis does not contain any automatically playing audio.

Criteria	Conformance Level	Remarks and Explanations
2.1.1 Keyboard (Level A)	Partially supports	All functionality is accessible with a keyboard (when text selection with a keyboard is supported by the browser and assistive technology), with one exception: <ul style="list-style-type: none"> Using the mouse it is possible to click on the annotation tile to highlight it within the body text and shift the view to the annotation. It is not possible to perform this action with the keyboard.
2.1.2 No Keyboard Trap (Level A)	Supports	No keyboard traps observed.
2.1.4 Character Key Shortcuts (Level A 2.1 only)	Supports	Single character keyboard shortcuts are available for highlighting and creating an annotation once text is selected, however these shortcuts are only available when the element is in focus.
2.2.1 Timing Adjustable (Level A)	Supports	No time limits observed.
2.2.2 Pause, Stop, Hide (Level A)	Not applicable	Hypothesis does not contain any moving, blinking or scrolling content.
2.3.1 Three Flashes or Below Threshold (Level A)	Supports	Hypothesis does not contain any flashing content.
2.4.1 Bypass Blocks (Level A)	Not applicable	Repeated navigation is minimal.
2.4.2 Page Titled (Level A)	Not applicable	Only applicable to web pages.
2.4.3 Focus Order (Level A)	Supports	The focus order of elements is logical, with one exception:
2.4.4 Link Purpose (In Context) (Level A)	Supports	Purpose of links is clear.
2.5.1 Pointer Gestures (Level A 2.1 only)	Not applicable	Hypothesis does not make use of point based gestures.
2.5.2 Pointer Cancellation (Level A 2.1 only)	Supports	Actions are either executed on the up-event or can be cancelled, for example by moving the pointer to a new location.
2.5.3 Label in Name (Level A 2.1 only)	Supports	Accessible names match visible labels.
2.5.4 Motion Actuation (Level A 2.1 only)	Not applicable	Hypothesis does not make use of motion actuation.
3.1.1 Language of Page (Level A)	Not applicable	Only applicable to full web pages.

Criteria	Conformance Level	Remarks and Explanations
3.2.1 On Focus (Level A)	Supports	No changes were observed when elements receive focus.
3.2.2 On Input (Level A)	Supports	No changes were observed when inputs or controls are used.
3.3.1 Error Identification (Level A)	Partially Supports	An error is identified for URL input within the assignment creation flow, however the error is missing an alert role and is not announced in real time.
3.3.2 Labels or Instructions (Level A)	Partially supports	Labels are provided, with the following exceptions: <ul style="list-style-type: none"> Annotation text boxes and reply text boxes are labelled with placeholder text only.
4.1.1 Parsing (Level A)	Supports	Since the publication of WCAG 2.2 this criterion is met by default.
4.1.2 Name, Role, Value (Level A)	Partially supports	Custom elements have appropriate roles states and properties, with the following exceptions: <ul style="list-style-type: none"> The Share Annotations and Help panels have the dialog role, but do not appear or behave as dialogs.

Table 2: Success Criteria, Level AA

Notes:

Criteria	Conformance Level	Remarks and Explanations
1.2.4 Captions (Live) (Level AA)	Not applicable	Hypothesis does not contain audio-visual content.
1.2.5 Audio Description (Prerecorded) (Level AA)	Not applicable	Hypothesis does not contain audio-visual content.
1.3.4 Orientation (Level AA 2.1 only)	Supports	Hypothesis supports both vertical and horizontal orientation.
1.3.5 Identify Input Purpose (Level AA 2.1 only)	Not applicable	Inputs used do not have a standard input type that could be defined using an Autofill attribute.

Criteria	Conformance Level	Remarks and Explanations
1.4.3 Contrast (Minimum) (Level AA)	Supports	Content meets contrast requirements with the exception of disabled controls, which are an exemption under this criterion.
1.4.4 Resize text (Level AA)	Supports	The content is responsive and resizes well.
1.4.5 Images of Text (Level AA)	Supports	Hypothesis does not contain images of text.
1.4.10 Reflow (Level AA 2.1 only)	Supports	Content can be increased to 400% without requiring horizontal scrolling within the hypothesis side bar.
1.4.11 Non-text Contrast (Level AA 2.1 only)	Supports	Non-text elements such as interactive icons have sufficient contrast with the background.
1.4.12 Text Spacing (Level AA 2.1 only)	Supports	Text spacing can be adjusted to increase line height to 1.5 the text size, line spacing to .12 the text size, and word spacing to .16 the text size. Spacing following paragraphs can be increased to twice the text size.
1.4.13 Content on Hover or Focus (Level AA 2.1 only)	Supports	Annotation context menu is hoverable, persistent, and can be dismissed by using the Esc key.
2.4.5 Multiple Ways (Level AA)	Not applicable	Although this criterion applies to entire websites, it is possible to find content through both navigation (annotation categories), and a search function.
2.4.6 Headings and Labels (Level AA)	Supports	The text of headings and labels is clear and descriptive.
2.4.7 Focus Visible (Level AA)	Supports	Focus is visible via the default browser indicator.
3.1.2 Language of Parts (Level AA)	Not evaluated	Hypothesis was only evaluated in English.
3.2.3 Consistent Navigation (Level AA)	Not applicable	Only applicable to multi-page websites.
3.2.4 Consistent Identification (Level AA)	Supports	Components that serve the same function are identified consistently.
3.3.3 Error Suggestion (Level AA)	Supports	Error suggestions are provided for the URL input within the assignment creation flow.
3.3.4 Error Prevention (Legal, Financial, Data) (Level AA)	Not applicable	No legal, financial or sensitive data required from users.

Criteria	Conformance Level	Remarks and Explanations
4.1.3 Status Messages (Level AA 2.1 only)	Supports	Search results have a status role.

Table 3: Success Criteria, Level AAA

Notes:

Criteria	Conformance Level	Remarks and Explanations
1.2.6 Sign Language (Prerecorded) (Level AAA)	Not evaluated	AAA level criteria were not evaluated
1.2.7 Extended Audio Description (Prerecorded) (Level AAA)	Not evaluated	AAA level criteria were not evaluated
1.2.8 Media Alternative (Prerecorded) (Level AAA)	Not evaluated	AAA level criteria were not evaluated
1.2.9 Audio-only (Live) (Level AAA)	Not evaluated	AAA level criteria were not evaluated
1.3.6 Identify Purpose (Level AAA 2.1 only)	Not evaluated	AAA level criteria were not evaluated
1.4.6 Contrast Enhanced (Level AAA)	Not evaluated	AAA level criteria were not evaluated
1.4.7 Low or No Background Audio (Level AAA)	Not evaluated	AAA level criteria were not evaluated
1.4.8 Visual Presentation (Level AAA)	Not evaluated	AAA level criteria were not evaluated
1.4.9 Images of Text (No Exception) Control (Level AAA)	Not evaluated	AAA level criteria were not evaluated
2.1.3 Keyboard (No Exception) (Level AAA)	Not evaluated	AAA level criteria were not evaluated
2.2.3 No Timing (Level AAA)	Not evaluated	AAA level criteria were not evaluated
2.2.4 Interruptions (Level AAA)	Not evaluated	AAA level criteria were not evaluated
2.2.5 Re-authenticating (Level AAA)	Not evaluated	AAA level criteria were not evaluated
2.2.6 Timeouts (Level AAA 2.1 only)	Not evaluated	AAA level criteria were not evaluated
2.3.2 Three Flashes (Level AAA)	Not evaluated	AAA level criteria were not evaluated
2.3.3 Animation from Interactions (Level AAA 2.1 only)	Not evaluated	AAA level criteria were not evaluated
2.4.8 Location (Level AAA)	Not evaluated	AAA level criteria were not evaluated
2.4.9 Link Purpose (Link Only) (Level AAA)	Not evaluated	AAA level criteria were not evaluated
2.4.10 Section Headings (Level AAA)	Not evaluated	AAA level criteria were not evaluated
2.5.5 Target Size (Level AAA 2.1 only)	Not evaluated	AAA level criteria were not evaluated
2.5.6 Concurrent Input Mechanisms (Level AAA 2.1 only)	Not evaluated	AAA level criteria were not evaluated
3.1.3 Unusual Words (Level AAA)	Not evaluated	AAA level criteria were not evaluated
3.1.4 Abbreviations (Level AAA)	Not evaluated	AAA level criteria were not evaluated

Criteria	Conformance Level	Remarks and Explanations
3.1.5 Reading Level (Level AAA)	Not evaluated	AAA level criteria were not evaluated
3.1.6 Pronunciation (Level AAA)	Not evaluated	AAA level criteria were not evaluated
3.2.5 Change on Request (Level AAA)	Not evaluated	AAA level criteria were not evaluated
3.3.5 Help (Level AAA)	Not evaluated	AAA level criteria were not evaluated
3.3.6 Error Prevention (All) (Level AAA)	Not evaluated	AAA level criteria were not evaluated

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