

OpenStax Accessibility Conformance Report

WCAG Edition

VPAT® Version 2.3 (Revised) – April 2019

Name of Product/Version: OpenStax textbooks

Product Description: Openly licensed, free online textbooks

Report Date: December 21, 2020

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Notes: OpenStax textbooks are openly licensed online textbooks available at no cost to students. Their main value is quality content, which meets the scope and sequence of the course for which they are designed. OpenStax textbooks do not contain software (open or closed), and typically do not require audio/video or user inputs; as a result, some of the evaluation criteria categories do not apply.

Evaluation Methods Used: In-house and third-party testing against WCAG criteria

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 2.1	Level A (Yes) Level AA (Yes) Level AAA (Yes)

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

Criteria	Conformance Level	Remarks and Explanations
1.1.1 Non-text Content (Level A)	Supports	Non-text content has alt-text, with the exception of decorative non-text content.
1.2.1 Audio-only and Video-only (Prerecorded) (Level A)	Partially Supports	Some books link to or embed supplemental content that does not fully meet the requirements outlined in this criterion. When video and/or audio is a required component of the textbook, those media elements meet this criterion.
1.2.2 Captions (Prerecorded) (Level A)	Partially Supports	Some books link to or embed supplemental content that does not fully meet the requirements outlined in this criterion. When video and/or audio is a required component of the textbook, those media elements meet this criterion.
1.2.3 Audio Description or Media Alternative (Prerecorded) (Level A)	Partially Supports	Some books link to or embed supplemental content that does not fully meet the requirements outlined in this criterion. When video and/or audio is a required component of the textbook, those media elements meet this criterion.
1.3.1 Info and Relationships (Level A)	Supports	
1.3.2 Meaningful Sequence (Level A)	Supports	
1.3.3 Sensory Characteristics (Level A)	Supports	
1.4.1 Use of Color (Level A)	Supports	
1.4.2 Audio Control (Level A)	Not Applicable	
2.1.1 Keyboard (Level A)	Supports	
2.1.2 No Keyboard Trap (Level A)	Supports	
2.1.4 Character Key Shortcuts (Level A 2.1 only)	Not Applicable	Handled by the user's browser
2.2.1 Timing Adjustable (Level A)	Not Applicable	
2.2.2 Pause, Stop, Hide (Level A)	Not Applicable	
2.3.1 Three Flashes or Below Threshold (Level A)	Not Applicable	
2.4.1 Bypass Blocks (Level A)	Supports	Skip to content link can be used to navigate to page content directly
2.4.2 Page Titled (Level A)	Supports	
2.4.3 Focus Order (Level A)	Supports	

2.4.4 Link Purpose (In Context) (Level A)	Supports	
2.5.1 Pointer Gestures (Level A 2.1 only)	Not Applicable	
2.5.2 Pointer Cancellation (Level A 2.1 only)	Not Applicable	
2.5.3 Label in Name (Level A 2.1 only)	Supports	Label names match the accessible names
2.5.4 Motion Actuation (Level A 2.1 only)	Not Applicable	
3.1.1 Language of Page (Level A)	Supports	
3.2.1 On Focus (Level A)	Supports	
3.2.2 On Input (Level A)	Not Applicable	
3.3.1 Error Identification (Level A)	Partially supports	<ul style="list-style-type: none"> User correctly receives error message in the majority of cases In our latest audit, we identified an edge case that we will need to address to fully support this requirement.
3.3.2 Labels or Instructions (Level A)	Supports	
4.1.1 Parsing (Level A)	Supports	
4.1.2 Name, Role, Value (Level A)	Supports	

Table 2: Success Criteria, Level AA

Criteria	Conformance Level	Remarks and Explanations
1.2.4 Captions (Live) (Level AA)	Not Applicable	
1.2.5 Audio Description (Prerecorded) (Level AA)	Not Applicable	
1.3.4 Orientation (Level AA 2.1 only)	Supports	
1.3.5 Identify Input Purpose (Level AA 2.1 only)	Not applicable	
1.4.3 Contrast (Minimum) (Level AA)	Supports	
1.4.4 Resize text (Level AA)	Supports	
1.4.5 Images of Text (Level AA)	Supports	
1.4.10 Reflow (Level AA 2.1 only)	Supports	Content reflows at zoom 400% except for images/tables/sims, etc which is acceptable per the requirement

1.4.11 Non-text Contrast (Level AA 2.1 only)	Supports	
1.4.12 Text Spacing (Level AA 2.1 only)	Supports	The website does not lose its functionality when the text spacing is adjusted as per the requirement
1.4.13 Content on Hover or Focus (Level AA 2.1 only)	Not Applicable	
2.4.5 Multiple Ways (Level AA)	Supports	
2.4.6 Headings and Labels (Level AA)	Supports	
2.4.7 Focus Visible (Level AA)	Supports	
3.1.2 Language of Parts (Level AA)	Partially Supports	In rare instances, we name an item (e.g. the metric system) in both the original language (e.g. French) and its English translation. In the surrounding text, we specify that the original name is in a different language; however, we are in the process of adding this attribute to the underlying markup that screen readers and other devices use.
3.2.3 Consistent Navigation (Level AA)	Supports	
3.2.4 Consistent Identification (Level AA)	Supports	
3.3.3 Error Suggestion (Level AA)	Not applicable	
3.3.4 Error Prevention (Legal, Financial, Data) (Level AA)	Supports	The textbook experience does not collect any legal or financial data.
4.1.3 Status Messages (Level AA 2.1 only)	Partially supports	<ul style="list-style-type: none"> • In the majority of cases, status messages are read by screenreaders • We identified two cases where status messages are not accessible to screenreaders, which we will address.

Table 3: Success Criteria, Level AAA

Criteria	Conformance Level	Remarks and Explanations
1.2.6 Sign Language (Prerecorded) (Level AAA)	Not Applicable	
1.2.7 Extended Audio Description (Prerecorded) (Level AAA)	Not Applicable	
1.2.8 Media Alternative (Prerecorded) (Level AAA)	Not Applicable	
1.2.9 Audio-only (Live) (Level AAA)	Not Applicable	

1.3.6 Identify Purpose (Level AAA 2.1 only)	Supports	All icons/regions are aria-labelled
1.4.6 Contrast Enhanced (Level AAA)	Does Not Support	
1.4.7 Low or No Background Audio (Level AAA)	Not Applicable	
1.4.8 Visual Presentation (Level AAA)	Does not support	
1.4.9 Images of Text (No Exception) Control (Level AAA)	Supports	
2.1.3 Keyboard (No Exception) (Level AAA)	Partially supports	<ul style="list-style-type: none"> • User can navigate the book/search with keyboard • User can open modals and modify filters with keyboard • We are in the process of allowing users to create and access highlights with keyboard controls
2.2.3 No Timing (Level AAA)	Supports	Highlight/search error messages are time sensitive but they are real-time events
2.2.4 Interruptions (Level AAA)	Supports	No automatic updates. User needs to select “update” button to update content in the book
2.2.5 Re-authenticating (Level AAA)	Supports	Sessions are longer than 20 hours and usually never expire
2.2.6 Timeouts (Level AAA 2.1 only)	Supports	Sessions are longer than 20 hours and usually never expire
2.3.2 Three Flashes (Level AAA)	Supports	Books do not have flashing elements
2.3.3 Animation from Interactions (Level AAA 2.1 only)	Not Applicable	
2.4.8 Location (Level AAA)	Does Not Support	
2.4.9 Link Purpose (Link Only) (Level AAA)	Supports	
2.4.10 Section Headings (Level AAA)	Supports	
2.5.5 Target Size (Level AAA 2.1 only)	Not Applicable	
2.5.6 Concurrent Input Mechanisms (Level AAA 2.1 only)	Not Applicable	
3.1.3 Unusual Words (Level AAA)	Supports	
3.1.4 Abbreviations (Level AAA)	Does Not Support	
3.1.5 Reading Level (Level AAA)	Does Not Support	

3.1.6 Pronunciation (Level AAA)	Supports	
3.2.5 Change on Request (Level AAA)	Not Applicable	
3.3.5 Help (Level AAA)	Not applicable	<ul style="list-style-type: none"> • The website does not have any input forms • Account creation flow has an input form but has help icon/tooltip/suggested formats
3.3.6 Error Prevention (All) (Level AAA)	Not applicable	<ul style="list-style-type: none"> • The website does not have any input forms • Account signup forms have tool tips/suggested formats