

Wolfram Accessibility Conformance Report

Revised Section 508 Edition

(Based on VPAT® Version 2.4)

Name of Product/Version: Mathematica Version 13

Report Date: October 26, 2021

Product Description: Mathematica Desktop is a software application for exploring computation, processing data, developing applications and interfaces and authoring independent artifacts called notebooks. Thus, it has an authoring interface as well as a user interface for the generated notebooks.

Contact Information: compliance@wolfram.com

Evaluation Methods Used: Manual testing and verification.

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) Level AA (Yes) Level AAA (No)
Revised Section 508 standards published January 18, 2017 and corrected January 22, 2018	(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 2.0 Report

Tables 1 and 2 also document conformance with Revised Section 508:

- Chapter 6 – 602.3 Electronic Support Documentation

Note: When reporting on conformance with the WCAG 2.0 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
1.1.1 Non-text Content (Level A)	Software: Supports Authoring Tool: Not applicable Electronic Docs: Partially supports	Software: Author can supply alt text for images. Authoring Tool: Interface does not rely on images. Electronic Docs: Images have alt texts.
1.2.1 Audio-only and Video-only (Prerecorded) (Level A)	Software: Supports Authoring Tool: Not applicable Electronic Docs: Not applicable	Software: Audio and video can be created programmatically. Authoring Tool: Interface does not rely on audio or video.
1.2.2 Captions (Prerecorded) (Level A)	Software: Supports Authoring Tool: Not applicable Electronic Docs: Not applicable	Software: Author can supply captions to video elements. Authoring Tool: Interface does not rely on video.
1.2.3 Audio Description or Media Alternative (Prerecorded) (Level A)	Software: Supports Authoring Tool: Not applicable Electronic Docs: Not applicable	Author can supply audio description or other alternatives for interfaces and graphics. Authoring Tool: Interface does not rely on recorded media.
1.3.1 Info and Relationships (Level A)	Software: Supports Authoring Tool: Supports Electronic Docs: Not applicable	
1.3.2 Meaningful Sequence (Level A)	Software: Supports Authoring Tool: Supports Electronic Docs: Supports	
1.3.3 Sensory Characteristics (Level A)	Software: Supports Authoring Tool: Supports Electronic Docs: Not applicable	Software: Author can ensure compliance. Authoring Tool: Relationships are all communicated via text.

Criteria	Conformance Level	Remarks and Explanations
1.4.1 Use of Color (Level A)	Software: Supports Authoring Tool: Supports Electronic Docs: Not evaluated	Authoring Tool: Color is only used to reinforce meaning. Electronic Docs: Color contrasts were not evaluated everywhere.
1.4.2 Audio Control (Level A)	Software: Supports Authoring Tool: Supports Electronic Docs: Not applicable	Authoring Tool: No audio events are triggered automatically.
2.1.1 Keyboard (Level A)	Software: Supports Authoring Tool: Supports Electronic Docs: Supports	Keyboard navigation is possible. Where keyboard access is not available, alternative methods of manipulation are available and documented. For example, items in tool palettes can be entered manually using escape sequences. Electronic Docs: Can be navigated using browsers' standard shortcuts.
2.1.2 No Keyboard Trap (Level A)	Software: Supports Authoring Tool: Supports Electronic Docs: Supports	Dialogs do not pull keyboard focus away from the interface, and can be dismissed by a keystroke. Electronic Docs: No dialogs or modals are generated.
2.2.1 Timing Adjustable (Level A)	Software: Supports Authoring Tool: Not applicable Electronic Docs: Not applicable	Authoring Tool: There are no time-sensitive actions in the authoring interface.
2.2.2 Pause, Stop, Hide (Level A)	Software: Supports Authoring Tool: Not applicable Electronic Docs: Not applicable	Animations can be created, but they are not an essential part of the user experience.
2.3.1 Three Flashes or Below Threshold (Level A)	Software: Supports Authoring Tool: Not applicable Electronic Docs: Not applicable	This threshold is never reached.
2.4.1 Bypass Blocks (Level A)	Software: Supports Authoring Tool: Not applicable Electronic Docs: Not applicable	Navigating through the interface can occur on multiple levels, allowing the user to skip blocks.

Criteria	Conformance Level	Remarks and Explanations
2.4.2 Page Titled (Level A)	Authoring Tool: Not applicable Electronic Docs: Supports	Authoring Tool: The notion of a page is not germane to the Mathematica Desktop interface.
2.4.3 Focus Order (Level A)	Software: Supports Authoring Tool: Supports Electronic Docs: Supports	Interface elements have a logical and predictable order of focus.
2.4.4 Link Purpose (In Context) (Level A)	Software: Supports Authoring Tool: Supports Electronic Docs: Supports	Software: Authors can add descriptive text to web links.
3.1.1 Language of Page (Level A)	Software: Supports Authoring Tool: Does not support Electronic Docs: Does not support	Software: Authors can access most non-Western characters and alphabet sets for their purposes. Authoring Tool and Docs: Mathematica functions and documentation are in English, with extensive translation to traditional Chinese and to Japanese.
3.2.1 On Focus (Level A)	Software: Supports Authoring Tool: Supports Electronic Docs: Supports	No unexpected changes of focus take place.
3.2.2 On Input (Level A)	Software: Supports Authoring Tool: Supports Electronic Docs: Supports	Input events do not cause a change of context.
3.3.1 Error Identification (Level A)	Software: Supports Authoring Tool: Supports Electronic Docs: Not applicable	Software: Author can design error messages. Authoring Tool: Errors are shown, with remedies explained when appropriate.
3.3.2 Labels or Instructions (Level A)	Software: Supports Authoring Tool: Supports Electronic Docs: Supports	
4.1.1 Parsing (Level A)	Software: Not applicable Electronic Docs: Supports	Software: Webpage structure criteria are not relevant.
4.1.2 Name, Role, Value (Level A)	Software: Not applicable Electronic Docs: Supports	Software: Webpage structure criteria are not relevant.

Table 2: Success Criteria, Level AA

Notes:

Criteria	Conformance Level	Remarks and Explanations
1.2.4 Captions (Live) (Level AA)	Software: Supports Authoring Tool: Not applicable Electronic Docs: Not applicable	Software: Author can embed video with captions already appended. Authoring Tool: Interface does not rely on video.
1.2.5 Audio Description (Prerecorded) (Level AA)	Software: Supports Authoring Tool: Not applicable Electronic Docs: Not applicable	Software: Author can embed video with audio descriptions included. Authoring Tool: Interface does not rely on video.
1.4.3 Contrast (Minimum) (Level AA)	Software: Supports Authoring Tool: Supports Electronic Docs: Supports	Software: Author can create alternate color palettes. Authoring Tool: Default appearance can be adjusted to suit all color-perception impairments. Electronic Docs: Compliant
1.4.4 Resize text (Level AA)	Software: Supports Authoring Tool: Supports Electronic Docs: Supports	
1.4.5 Images of Text (Level AA)	Software: Supports Authoring Tool: Supports Electronic Docs: Supports	Software: Author can provide text alternatives to images. Authoring Tool: Interface does not rely solely on images to convey meaning.
2.4.5 Multiple Ways (Level AA)	Software: Not applicable Electronic Docs: Supports	Software: Does not apply to non-web software.
2.4.6 Headings and Labels (Level AA)	Software: Not applicable Electronic Docs: Supports	Software: Does not apply to non-web software.
2.4.7 Focus Visible (Level AA)	Software: Supports Authoring Tool: Supports Electronic Docs: Supports	Software: Author can customize focus appearance. Authoring Tool: Focus is indicated through color, and focus color can be customized.

Criteria	Conformance Level	Remarks and Explanations
3.1.2 Language of Parts (Level AA)	Software: Supports Authoring Tool: Does not support Electronic Docs: Does not support	Software: Author can access most non-Western characters and alphabet sets for their purposes. Authoring Tool and Docs: Mathematica functions and documentation are in English, with extensive translation to traditional Chinese and to Japanese.
3.2.3 Consistent Navigation (Level AA)	Software: Not applicable Authoring Tool: Supports Electronic Docs: Supports	Navigating the notebook interface is consistent and predictable.
3.2.4 Consistent Identification (Level AA)	Software: Not applicable Electronic Docs: Supports	Does not apply to non-web software.
3.3.3 Error Suggestion (Level AA)	Software: Supports Authoring Tool: Supports Electronic Docs: Not applicable	Mathematica provides a smart predictive text interface that provides meaningful suggestions.
3.3.4 Error Prevention (Legal, Financial, Data) (Level AA)	Electronic Docs: Not applicable Software: Not applicable Authoring Tool: Not applicable	

Table 3: Success Criteria, Level AAA

Notes: Web only

Not evaluated

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Notes:

Chapter 3: [Functional Performance Criteria \(FPC\)](#)

Notes:

Criteria	Conformance Level	Remarks and Explanations
302.1 Without Vision	Does not support	Text elements can be accessed using SpeakSelection, but standard screen readers such as VoiceOver and NVDA are unable to parse text in the Mathematica interface.
302.2 With Limited Vision	Supports	Visual elements can be enlarged with standard magnification tools.
302.3 Without Perception of Color	Supports	Color is not a primary conveyor of information. Software does not interfere with standard color contrast adjustment tools.
302.4 Without Hearing	Supports	Auditory cues are minimal and non-essential to the operation of the software.
302.5 With Limited Hearing	Does not apply	Conventional assistive devices will fulfill this criterion.
302.6 Without Speech	Does not apply	Conventional assistive devices will fulfill this criterion.
302.7 With Limited Manipulation	Does not apply	Conventional assistive devices will fulfill this criterion.
302.8 With Limited Reach and Strength	Does not apply	Conventional assistive devices will fulfill this criterion.
302.9 With Limited Language, Cognitive, and Learning Abilities	Does not apply	Conventional assistive devices will fulfill this criterion.

Chapter 6: Support Documentation and Services

Notes:

Criteria	Conformance Level	Remarks and Explanations
601.1 Scope		
<u>602 Support Documentation</u>		
602.2 Accessibility and Compatibility Features	Supports	See Wolfram's Accessibility documentation page: https://reference.wolfram.com/language/guide/Accessibility.html
602.3 Electronic Support Documentation	See WCAG 2.0 section	See information in WCAG 2.0 section
602.4 Alternate Formats for Non-Electronic Support Documentation	Supports	Non-electronic (paper-based) documentation can be made available.
<u>603 Support Services</u>		
603.2 Information on Accessibility and Compatibility Features	Supports	Our Tech Support team can be reached through multiple channels, not limited to telephone, TTY or various chat clients.
603.3 Accommodation of Communication Needs	Supports	With prior notification, our Tech Support team will provide communication accommodations as requested.

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