

Voluntary Product Accessibility Template (VPAT)

Name of Product/Version: Mathematica Version 14.x and Wolfram Player

Report Date: May 13, 2025

Summary

This VPAT represents an assessment of how Mathematica conforms to the <u>revised 508 standards</u> for IT accessibility. The document is frequently requested by clients, especially in higher education and government, and is posted publicly on <u>the company website</u>, where it can be accessed by all interested parties.

Document Information

| Document Name | Voluntary Product | Document No. | W-001 |
|------------------|-------------------------|------------------|-----------------------|
| | Accessibility Template, | | |
| | Mathematica | | |
| Document Owner | Compliance Specialist | Version No. | 4 |
| Date of Issue | May 13, 2025 | Date of Original | October 26, 2021 |
| | | Issue | |
| Next Review Date | December 2026 | Revision | Every 18 months or as |
| | | Frequency | needed |



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Introduction

Product Description:

Mathematica Desktop is software 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. Users can elect to use the traditional desktop interface, but the browser-based ("Cloud") interface tends to be more performant in terms of accessibility.

Wolfram Player retains all the software features of Mathematica Desktop without the authoring capabilities. Thus, notes concerning the Authoring Tool do not apply.

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

Voluntary Product Accessibility Template, Mathematica Version 5



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 Level AAA.



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. |
| 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 | Authoring Tool: No audio events are triggered automatically. |



| Criteria | Conformance Level | Remarks and Explanations |
|--|---|--|
| Criteria | Electronic Docs: Not Applicable | Remarks and Explanations |
| 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. |
| 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. |



| A.D. A. | | |
|---|---|---|
| Criteria | Conformance Level | Remarks and Explanations |
| 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 | 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 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. |
| 3.2.6 Consistent Help (Level A) | Software: Supports Authoring Tool: Supports Electronic Docs: Supports | |
| 3.3.1 Error Identification (Level A) | Authoring Tool: Supports | 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 | |
| 3.3.7 Redundant Entry (Level A) | Software: Supports Authoring Tool: Supports Electronic Docs: Supports | |
| 4.1.1 Parsing (Level A) | Obsolete | |



| Criteria | Conformance Level | Remarks and Explanations |
|-----------------------------------|--------------------------|--------------------------|
| | Software: Supports | |
| 4.1.2 Name, Role, Value (Level A) | Electronic Docs: | |
| | Supports | |



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: Supports Electronic Docs: Supports | |
| 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. |
| 2.4.11 Focus Not Obscured (Level AA) | Software: Supports Authoring Tool: Supports Electronic Docs: Supports | |
| 2.5.7 Dragging Movements (Level AA) | Software: Supports | |



| Criteria | Conformance Level | Remarks and Explanations |
|--|--|---|
| | Authoring Tool: Supports Electronic Docs: Supports | |
| 2.5.8 Target Size (Level AA) | Software: Supports Authoring Tool: Supports Electronic Docs: Supports | |
| 3.1.2 Language of Parts (Level AA) | Software: Supports | 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 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 | |
| 3.3.8 Accessible Authentication (Level AA) | Electronic Docs: Not Applicable Software: Not Applicable Authoring Tool: Not Applicable | |



Revised Section 508 Report

Chapter 3: Functional Performance Criteria (FPC)

| Criteria | Conformance Level | Remarks and Explanations |
|--|-------------------|---|
| 302.1 Without Vision | Supports | Text elements can be accessed using SpeakSelection, but standard screen readers are unable to parse text in the desktop interface. Users relying on a screen reader should use the browser-based 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 not essential to the operation of the software. |
| 302.5 With Limited Hearing | Does Not Apply | Conventional assistive technologies will fulfill this criterion. |
| 302.6 Without Speech | Does Not Apply | Conventional assistive technologies will fulfill this criterion. |
| 302.7 With Limited Manipulation | Does Not Apply | Conventional assistive technologies will fulfill this criterion. |
| 302.8 With Limited Reach and Strength | Does Not Apply | Conventional assistive technologies will fulfill this criterion. |
| 302.9 With Limited Language, Cognitive, and Learning Abilities | Does Not Apply | Conventional assistive technologies will fulfill this criterion. |



Chapter 5: Software

| Cuitania | Conformational | Remarks and |
|---|----------------------|--|
| Criteria | Conformance Level | Explanations |
| 501.1 Scope – Incorporation of WCAG 2.0 AA | See WCAG 2.x section | See information in WCAG 2.x section. |
| 502 Interoperability with Assistive | | |
| Technology | | |
| 502.2.1 User Control of Accessibility Features | Supports | |
| 502.2.2 No Disruption of Accessibility Features | Supports | |
| 502.3 Accessibility Services | | |
| 502.3.1 Object Information | Supports | |
| 502.3.2 Modification of Object Information | Supports | |
| 502.3.3 Row, Column, and Headers | Supports | |
| 502.3.4 Values | Supports | |
| 502.3.5 Modification of Values | Supports | |
| 502.3.6 Label Relationships | Supports | |
| 502.3.7 Hierarchical Relationships | Supports | |
| 502.3.8 Text | Supports | |
| 502.3.9 Modification of Text | Supports | |
| 502.3.10 List of Actions | Supports | |
| 502.3.11 Actions on Objects | Supports | |
| 502.3.12 Focus Cursor | Supports | |
| 502.3.13 Modification of Focus Cursor | Supports | |
| 502.3.14 Event Notification | Does Not Support | Not all alerts and notifications are compatible with assistive technology, such as screen readers. |
| 502.4 Platform Accessibility Features | Does Not Support | All points are adequately covered except Section 10.6.9, "Provide speech output services." Speech output coverage is incomplete. |
| 503 Applications | | |
| 503.2 User Preferences | Supports | |
| 503.3 Alternative User Interfaces | Does Not Apply | |
| 503.4 User Controls for Captions and Audio Description | | |
| 503.4.1 Caption Controls | Does Not Apply | |
| 503.4.2 Audio Description Controls | Does Not Apply | |
| 504 Authoring Tools | | |
| 504.2 Content Creation or Editing (if not authoring tool, enter "not applicable") | See WCAG 2.x section | See information in WCAG 2.x section. |



| Criteria | Conformance Level | Remarks and Explanations |
|---|-------------------|---|
| 504.2.1 Preservation of Information Provided for Accessibility in Format Conversion | | |
| 504.2.2 PDF Export | Does Not Support | Generated PDFs do not automatically conform to ANSI/AIIM/ISO 14289- 1:2016 (PDF/UA-1). |
| 504.3 Prompts | Does Not Support | This feature has not been developed. |
| 504.4 Templates | Supports | Templates can be made to conform to WCAG, but the interface is not proactive in ensuring conformance. |



Chapter 6: Support Documentation and Services

| Criteria | Conformance Level | Remarks and Explanations |
|------------------------------------|--------------------------------|--|
| 601.1 Scope | | |
| 602 Support | | |
| <u>Documentation</u> | | |
| 602.2 Accessibility | Sunnorts | See Wolfram's Accessibility documentation page: https://reference.wolfram.com/language/guide/Accessibility.html |
| · · | | |
| Features | | |
| 602.3 Electronic | See <u>WCAG 2.0</u> section | See information in WCAG 2.0 section |
| Support | | |
| Documentation | | |
| 602.4 Alternate | | No contrato de la contrato del contrato de la contrato del contrato de la contrato del contrato de la contrato de la contrato de la contrato del contrato de la contrato del contrato de la contrato del contrato de la contrato de la contrato de la contrato del contrato del contrato de la contrato del contrato de la contrato de la contrato de la contra |
| Formats for Non- | Nunnorts | Non-electronic (paper-based) documentation can be made available. |
| Electronic Support Documentation | | available. |
| | | |
| 603 Support | | |
| <u>Services</u> | | |
| 603.2 Information | | Our Tank Command to a manage of adults and the same of a subtinuity |
| on Accessibility and Compatibility | Nunnorts | Our Tech Support team can be reached through multiple channels, not limited to telephone, TTY or various chat clients. |
| Features | | channels, not inflited to telephone, 114 of various chat chefts. |
| 603.3 | | |
| Accommodation | | With prior notification, our Tech Support team will provide |
| of Communication | Supports | communication accommodations as requested. |
| Needs | | communication accommodations as requested. |

Legal Disclaimer

Wolfram takes privacy and data protection seriously, and is committed to safeguarding data you share with us. To learn more, please see our privacy policy at https://www.wolfram.com/legal/privacy/wolfram.