

Autodesk Accessibility Conformance Report

Revised Section 508 Edition

(Based on VPAT® Version 2.4Rev)

Name of Product/Version: Dynamo - v2.16 | v2.17

Report Date: January 31, 2023

Product Description: Dynamo is designed and built to be the most intuitive, powerful, and stable programming platform for people who design, engineer, and fabricate our world. Core to the Dynamo experience is the ability to share tools and benefit from the tools created by others. In its design and implementation Dynamo strives to engage users at every level of programming ability.

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Notes: N/A

Evaluation Methods Used: Testing based on knowledge

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 5 – 501.1 Scope, 504.2 Content Creation or Editing
- 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](#).

Table1: Success Criteria, Level A

Notes:

Criteria	Conformance Level	Remarks and Explanations
1.1.1 Non-text Content (Level A)	Authoring Tool: Partially Supports	Most non-text content has a text alternative, either on hover interaction, or in surrounding text, and increases with each release.
1.2.1 Audio-only and Video-only (Prerecorded) (Level A)	Authoring Tool: Not Applicable	There is no pre-recorded video or audio content in Dynamo.
1.2.2 Captions (Prerecorded) (Level A)	Authoring Tool: Not Applicable	There is no pre-recorded content requiring captions.
1.2.3 Audio Description or Media Alternative (Prerecorded) (Level A)	Authoring Tool: Not Applicable	There is no pre-recorded content requiring audio descriptions or media alternatives.
1.3.1 Info and Relationships (Level A)	Authoring Tool: Partially Supports	Most dialogs do not use visual cues to relate information, relying primarily on text. However, relationships are typically supported through programmatic means, allowing the use of keyboard operations and windows access keys.
1.3.2 Meaningful Sequence (Level A)	Authoring Tool: Supports	Nodal content is connected sequentially by wires and typically reads left to right. Users can explore associations via these wired connections and their relationship to created Geometry, if any, by turning on or off Geometry Preview or using associated geometry labels.
1.3.3 Sensory Characteristics (Level A)	Authoring Tool: Partially Supports	With a few minor exceptions, Dynamo has mostly text based instructions inside the user interface and feature set.
1.4.1 Use of Color (Level A)	Authoring Tool: Partially Supports	Color is used in some instances to demarcate state such as selection, which has been ran through color blindness tests. Most instances will also have a textual hover interaction to indicate what the color state refers to, but has a few exceptions.

Criteria	Conformance Level	Remarks and Explanations
1.4.2 Audio Control (Level A)	Authoring Tool: Not Applicable	There is no audio content in Dynamo.
2.1.1 Keyboard (Level A)	Authoring Tool: Partially Supports	Base Windows access keys are supported almost entirely, with more going into the next few releases on menu items. No in-canvas nodal actions are operable through a keyboard interface.
2.1.2 No Keyboard Trap (Level A)	Authoring Tool: Not Applicable	No in-canvas actions are operable through a keyboard interface.
2.2.1 Timing Adjustable (Level A)	Authoring Tool: Not Applicable	There are no time limits in Dynamo.
2.2.2 Pause, Stop, Hide (Level A)	Authoring Tool: Partially Supports	There is no moving or blinking information, and all scrolling and auto-updating of content is user driven, either through scrollbars in the UI or via an execution even after running Dynamo.
2.3.1 Three Flashes or Below Threshold (Level A)	Authoring Tool: Not Applicable	Dynamo does not have any flashing content as all embedded web pages are static.
2.4.1 Bypass Blocks (Level A)	Authoring Tool: Supports	All navigation, content and windows are user driven, staying on the canvas space as a common anchor.
2.4.2 Page Titled (Level A)	Authoring Tool: Partially Supports	All embedded static web pages are titled.
2.4.3 Focus Order (Level A)	Authoring Tool: Not Applicable	All embedded static web pages are singular and do not have sequential navigation.
2.4.4 Link Purpose (In Context) (Level A)	Authoring Tool: Supports	Any links residing in Dynamo are context applicable and their purpose can be derived from the link text alone, or adjacent text.
3.1.1 Language of Page (Level A)	Authoring Tool: Not Applicable	Dynamo is localized into 13 languages, and set at install via our host products.
3.2.1 On Focus (Level A)	Authoring Tool: Supports	Beyond hover interactions (Tooltips) and visual affordance (Outlines and color change) there is no change of context initiated by any component.
3.2.2 On Input (Level A)	Authoring Tool: Partially	Changing settings inside the Preferences Panel

Criteria	Conformance Level	Remarks and Explanations
	Supports	automatically applies back to the Dynamo session, as per the accompanying message.
3.3.1 Error Identification (Level A)	Authoring Tool: Supports	All nodal interactions that fail, resulting in an error are expressed to the end-user in text.
3.3.2 Labels or Instructions (Level A)	Authoring Tool: Supports	Tooltips on hover and surrounding context text provide instructions to users.
4.1.1 Parsing (Level A)	Authoring Tool: Partially Supports	Any markdown content is expressed using the base markdown language, and all other languages are implemented according on an as-needed basis. Not all content may have complete start and end tags.
4.1.2 Name, Role, Value (Level A)	Authoring Tool: Partially Supports	Using the Dynamo API a user could parse the full program if they wanted to, but this would be beyond our average users skillset.

Table 2: Success Criteria, Level AA

Notes:

Criteria	Conformance Level	Remarks and Explanations
1.2.4 Captions (Live) (Level AA)	Authoring Tool: Not Applicable	There is no pre-recorded video or audio content in Dynamo.
1.2.5 Audio Description (Prerecorded) (Level AA)	Authoring Tool: Not Applicable	There is no pre-recorded content requiring captions.
1.4.3 Contrast (Minimum) (Level AA)	Authoring Tool: Supports	Visual presentation of text and images of text has a contrast ratio that meets the Level AA standard.
1.4.4 Resize text (Level AA)	Authoring Tool: Partially Supports	Node font size can be modified in the Preference Panel.
1.4.5 Images of Text (Level AA)	Authoring Tool: Not Applicable	Image of text is not presented in Dynamo except for the essential logotypes of the product.
2.4.5 Multiple Ways (Level AA)	Authoring Tool: Partially Supports	Dynamo nodes can be searched in the library and in-canvas; Home page has links to all kinds of resources which can also be accessed through the menu; Extensions such as the Graph Node Manager can be launched from different places.
2.4.6 Headings and Labels (Level AA)	Authoring Tool: Supports	Headings and labels in Dynamo are descriptive.
2.4.7 Focus Visible (Level AA)	Authoring Tool: Supports	Visual affordance including outlines, color changes, and color bars are used for focused state.
3.1.2 Language of Parts (Level AA)	Authoring Tool: Not Applicable	Content in Dynamo is localized into 13 languages and set at install via our host products.
3.2.3 Consistent Navigation (Level AA)	Authoring Tool: Supports	Navigation controls remain at the same location through different UI components and same relative order each time they appear.
3.2.4 Consistent Identification (Level AA)	Authoring Tool: Supports	Icons and checkmarks represent the same functionalities throughout Dynamo.

Criteria	Conformance Level	Remarks and Explanations
3.3.3 Error Suggestion (Level AA)	Authoring Tool: Supports	Error and detailed information will occur when input doesn't match the criteria, suggestions will also be provided on nodes for what type of inputs are compatible.
3.3.4 Error Prevention (Legal, Financial, Data) (Level AA)	Authoring Tool: Partially Supports	Confirmation will be asked when users try to download a package or open a file from an untrusted location.

Table 3: Success Criteria, Level AAA

Notes: Not Applicable.

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Notes:

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

Notes:

Criteria	Conformance Level	Remarks and Explanations
302.1 Without Vision	Authoring Tool: Not Applicable	
302.2 With Limited Vision	Authoring Tool: Not Applicable	
302.3 Without Perception of Color	Authoring Tool: Partially Supports	Color indications are usually associated with text to help with perceiving.
302.4 Without Hearing	Authoring Tool: Supports	No audible material is presented in Dynamo.
302.5 With Limited Hearing	Authoring Tool: Supports	No audible material is presented in Dynamo.
302.6 Without Speech	Authoring Tool: Supports	No speaking is needed in Dynamo.
302.7 With Limited Manipulation	Authoring Tool: Not Applicable	Wire interactions require precise manual

Criteria	Conformance Level	Remarks and Explanations
		operations.
302.8 With Limited Reach and Strength	Authoring Tool: Not Applicable	Wire interactions require precise manual operations.
302.9 With Limited Language, Cognitive, and Learning Abilities	Authoring Tool: Partially Supports	Tooltips, help content and links, graphics are provided to help with understanding

Chapter 4: [Hardware](#)

Notes: Not Applicable.

Chapter 5: [Software](#)

Notes:

Criteria	Conformance Level	Remarks and Explanations
501.1 Scope – Incorporation of WCAG 2.0 AA	See WCAG 2.0 section	See information in WCAG 2.0 section
502 Interoperability with Assistive Technology	Heading cell – no response required	Heading cell – no response required
502.2.1 User Control of Accessibility Features	Authoring Tool: Not Applicable	No specific accessibility tooling has been introduced into Dynamo.
502.2.2 No Disruption of Accessibility Features	Authoring Tool: Not Applicable	No specific accessibility tooling has been introduced into Dynamo.
502.3 Accessibility Services	Heading cell – no response required	Heading cell – no response required
502.3.1 Object Information	Authoring Tool: Supports	Dynamo nodes, properties, and names can be set programmatically
502.3.2 Modification of Object Information	Authoring Tool: Supports	Properties can be set by the user programmatically
502.3.3 Row, Column, and Headers	Authoring Tool: Supports	Python node's row and column can be programmatically determinable.
502.3.4 Values	Authoring Tool: Supports	Values can be programmatically determinable.
502.3.5 Modification of Values	Authoring Tool: Supports	Values can be programmatically

Criteria	Conformance Level	Remarks and Explanations
		determinable.
502.3.6 Label Relationships	Authoring Tool: Partially Supports	Traversing Dynamo's MVVM code base should allow user to understand relationships. Note: Many API's are marked as Internal.
502.3.7 Hierarchical Relationships	Authoring Tool: Partially Supports	Traversing Dynamo's MVVM code base should allow user to understand relationships. Note: Many API's are marked as Internal.
502.3.8 Text	Authoring Tool: Supports	Text can be programmatically determinable.
502.3.9 Modification of Text	Authoring Tool: Partially Supports	Dynamo's API contains both Public and Internal features, with a subset supportable for modification.
502.3.10 List of Actions	Authoring Tool: Supports	Traversing the Dynamo Public API is programmatically determinable.
502.3.11 Actions on Objects	Authoring Tool: Partially Supports	Dynamo's API contains both Public and Internal features, with a subset supportable for modification.
502.3.12 Focus Cursor	Authoring Tool: Partially Supports	Cursor location and screen location should be programmatically determinable.
502.3.13 Modification of Focus Cursor	Authoring Tool: Not Applicable	No modification of cursor is possible.
502.3.14 Event Notification	Authoring Tool: Partially Supports	Notification tooling is able to be monitored via API, but not set.
502.4 Platform Accessibility Features	Authoring Tool: Not Applicable	Dynamo has no specific platform accessibility features beyond base Windows feature support.
<u>503 Applications</u>	Heading cell – no response required	Heading cell – no response required
503.2 User Preferences	Authoring Tool: Partially Supports	Users can modify some of the visual settings in the Preferences Panel
503.3 Alternative User Interfaces	Authoring Tool: Not Applicable	No alternative user interfaces provided in Dynamo

Criteria	Conformance Level	Remarks and Explanations
503.4 User Controls for Captions and Audio Description	Heading cell – no response required	Heading cell – no response required
503.4.1 Caption Controls	Authoring Tool: Not Applicable	No video or audio presented in Dynamo.
503.4.2 Audio Description Controls	Authoring Tool: Not Applicable	No video or audio presented in Dynamo.
<u>504 Authoring Tools</u>	Heading cell – no response required	Heading cell – no response required
504.2 Content Creation or Editing (if not authoring tool, enter “Authoring Tool: Not Applicable”)	See WCAG 2.0 section	See information in WCAG 2.0 section
504.2.1 Preservation of Information Provided for Accessibility in Format Conversion	Authoring Tool: Partially Supports	Dynamo graphs can be saved in multiple formats and some of the content can be exported to multiple formats.
504.2.2 PDF Export	Authoring Tool: Partially Supports	Dynamo graphs can be exported as a pdf with a specific node.
504.3 Prompts	Authoring Tool: Not Applicable	Currently no prompts for authors are provided in Dynamo.
504.4 Templates	Authoring Tool: Partially Supports	Templates are not shipped out-of-the-box, but supported by Dynamo

Chapter 6: [Support Documentation and Services](#)

Notes:

Criteria	Conformance Level	Remarks and Explanations
601.1 Scope	Heading cell – no response required	Heading cell – no response required
<u>602 Support Documentation</u>	Heading cell – no response required	Heading cell – no response required
602.2 Accessibility and Compatibility Features	Authoring Tool: Partially Supports	Accessibility features such as keyboard shortcuts are documented.
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	Authoring Tool: Not Applicable	No non-electronic documentation available.
<u>603 Support Services</u>	Heading cell – no response required	Heading cell – no response required
603.2 Information on Accessibility and Compatibility Features	Authoring Tool: Partially Supports	Accessibility features such as keyboard

Criteria	Conformance Level	Remarks and Explanations
		shortcuts are documented, and support is available
603.3 Accommodation of Communication Needs	Authoring Tool: Supports	Support is available through multiple ways

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