VPAT Accessibility Conformance Report

(Based on ITI VPAT©)

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| **Name of Product** | **PATHPrimer** |
| **Date Last Updated** | **April 21, 2023** |
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| **Applicable Standards/Guidelines** | This document rates PATHPrimer according to the W3C WCAG 2.1 A and AA requirements.  |
| **Contact for More Information** | Elsevier Digital Accessibility Teamaccessibility@elsevier.com |
| **Testing Tools and Methods** | **Hands-on keyboard operationNVDA screen reader v2022.1Wave ExtensionaXe Extension for Chrome****Color Contrast AnalyzerW3C WAI Pages**Elsevier Accessibility Checklist: <http://romeo.elsevier.com/accessibility_checklist/> |
| **Document Sections** | The review document below includes all WCAG 2.1 A and AA checkpoints and is organized into 6 logical sections: * Visuals
* Keyboard
* Headings and Structure
* Labeling
* Multimedia
* Usability
 |
| **Pages Covered** | Header, Footer, Curriculum, Anatomic Pathology Lessons, Lesson, Assessment Landing, Assessment, Performance, Profile  |
| **Terms** | * **Supports: The functionality of the product has at least one method that meets the criteria without known defects or meets with equivalent facilitation.**
* **Partially supports: Some functionality of the product does not meet the criteria.**
* **Does not support: Majority of functionality of the product does not meet the criteria.**
* **Supports (N/A): According to W3C on conformance, "If there is no content to which a success criterion applies, the success criterion is satisfied."**
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| **Notes/Terminology** | **“AT” stands for Assistive Technology such as screen readers, voice input, etc.** |

| **WCAG 2.1 Success Criterion**  | **Level** | **Evaluation** |
| --- | --- | --- |
| 1.1.1 Non-text Content | A | Partially supports |
| 1.2.1 Audio-only and Video-only (Prerecorded) | A | Supports (N/A) |
| 1.2.2 Captions (Prerecorded) | A | Supports (N/A) |
| 1.2.3 Audio Description or Full Text Alternative | A | Supports (N/A) |
| 1.2.4 Captions (Live) | AA | Supports (N/A) |
| 1.2.5 Audio Description | AA | Supports (N/A) |
| 1.3.1 Info and Relationships | A | Partially supports |
| 1.3.2 Meaningful Sequence | A | Partially supports |
| 1.3.3 Sensory Characteristics | A | Supports |
| 1.3.4 Orientation (2.1) | AA | Supports |
| 1.3.5 Identify Input Purpose (2.1) | AA | Supports (N/A) |
| 1.4.1 Use of Color | A | Partially supports |
| 1.4.2 Audio Control | A | Supports (N/A) |
| 1.4.3 Contrast (Minimum) | AA | Partially supports |
| 1.4.4 Resize text | AA | Partially supports |
| 1.4.5 Images of Text | AA | Supports |
| 1.4.10 Reflow (2.1) | AA | Does not support |
| 1.4.11 Non-Text Contrast (2.1) | AA | Partially supports |
| 1.4.12 Text Spacing (2.1) | AA | Supports |
| 1.4.13 Content on Hover or Focus (2.1) | AA | Supports |
| 2.1.1 Keyboard | A | Partially supports |
| 2.1.2 No Keyboard Trap | A | Supports |
| 2.1.4 Character Key Shortcuts (2.1) | A | Partially supports |
| 2.2.1 Timing Adjustable | A | Supports |
| 2.2.2 Pause, Stop, Hide | A | Supports (N/A) |
| 2.3.1 Three Flashes or Below Threshold | A | Supports (N/A) |
| 2.4.1 Bypass Blocks | A | Does not support |
| 2.4.2 Page Titled | A | Partially supports |
| 2.4.3 Focus Order | A | Partially supports |
| 2.4.4 Link Purpose (In Context) | A | Partially supports |
| 2.4.5 Multiple Ways | AA | Supports |
| 2.4.6 Headings and Labels | AA | Supports |
| 2.4.7 Focus Visible | AA | Supports |
| 2.5.1 Pointer Gestures (2.1) | A | Supports (N/A) |
| 2.5.2 Pointer Cancellation (2.1) | A | Supports |
| 2.5.3 Label in Name (2.1) | A | Supports |
| 2.5.4 Motion Actuation (2.1) | A | Supports (N/A) |
| 3.1.1 Language of Page | A | Partially supports |
| 3.1.2 Language of Parts | AA | Supports (N/A) |
| 3.2.1 On Focus | A | Supports |
| 3.2.2 On Input | A | Supports |
| 3.2.3 Consistent Navigation | AA | Supports |
| 3.2.4 Consistent Identification | AA | Supports |
| 3.3.1 Error Identification | A | Supports |
| 3.3.2 Labels or Instructions | A | Partially supports |
| 3.3.3 Error Suggestion | AA | Supports |
| 3.3.4 Error Prevention (Legal, Financial, Data) | AA | Supports (N/A) |
| 4.1.1 Parsing | A | Partially supports |
| 4.1.2 Name, Role, Value | A | Partially supports |
| 4.1.3 Status Messages (2.1) | AA |  Supports |

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| **Visuals** |
| **WCAG 2.1****Checkpoint** | **Supporting Features** | **Remarks** |
| [1.1.1: Non-Text Content](http://www.w3.org/TR/WCAG20/#text-equiv-all) (A)Provide text alternatives for non-text content (e.g. images) | Partially supports | Non-text content, such as images, are used in lessons and assessments and are vital to the content. **Exceptions:** Lesson: All images and icons are missing alt textAssessment: All images are missing alt text |
| [1.3.3: Sensory Characteristics](http://www.w3.org/TR/WCAG20/#content-structure-separation-understanding) (A)Do not rely on sensory characteristics of components such as shape, size, visual location, orientation, or sound | Supports | Instructions provided for understanding and operating content do not rely solely on sensory characteristics of components such as shape, size, visual location, orientation, or sound. |
| [1.4.1: Use of Color](http://www.w3.org/TR/WCAG20/#visual-audio-contrast-without-color) (A)Color is not used as the only visual means of conveying info | Partially supports | Overall PATHPrimer does not use color to convey meaning for most content.**Exceptions:**Footer: The Cookies link used in the footer is non-underlined text and has a color that is the same as the surrounding text. This link text requires a contrast of at least 3:1 between it and the surrounding text.Lesson: Bookmarking a lesson only changes the icon’s color. |
| [1.4.3: Color Contrast (Minimum)](http://www.w3.org/TR/WCAG20/#visual-audio-contrast-contrast) (AA)Text has enough contrast with the background (4.5:1 for small text and 3:1 for large text) | Partially supports | Most text within PATHPrimer has a color contrast of at least 4.5:1.**Exceptions:**Curriculum: Assessment header contrast ratio is 2.7:1, Go button contrast ratio is 2.8:1. Light gray text does not have enough contrast at 3.54:1.Anatomic Pathology Lesson: Assessment header contrast ratio is 2.7:1, Go button contrast ratio is 2.8:1. Light gray text does not have enough contrast at 3.54:1.Lessons: The blue link text does not have enough contrast at 4.07:1.Assessment Landing: “comprehensive practice engine” text has contrast ratio of 2.7:1, “questions available” text has a contrast ratio of 3.5:1, “go” button text has a contrast ratio of 2.8:1, “more options” text has a contrast ratio of 2.1:1, “open all” and “close all” text have a contrast ratio of 3.2:1. Light gray text does not have enough contrast at 3.54:1.Assessment: Feedback and copyright text does not have enough contrast at 2.61:1. Keyboard shortcuts text does not have enough contrast at 3.06:1.Profile: All text has a contrast ratio of 3.9:1 |
| [1.4.4: Resize Text](http://www.w3.org/TR/WCAG20/#visual-audio-contrast-scale) (AA)Text can be enlarged up to 200% without loss of functionality. | Partially Supports | Most text can be enlarged up to 200% on all PATHPrimer pages without loss of functionality.**Exceptions:** Lesson: image carousel cannot be fully viewed at 125% magnificationProfile: loss of functionality at 200% |
| [1.4.5: Images of Text](http://www.w3.org/TR/WCAG20/#visual-audio-contrast-text-presentation) (AA)Text is used rather than images of text, except where the presentation of text is essential, such as logos | Supports | PATHPrimer does not use images of text, except for institutional logos used for branding. |
| [1.4.10 Reflow](https://www.w3.org/TR/WCAG21/#reflow) (AA) (2.1)Content can be presented without loss of information or functionality, and without requiring scrolling in two dimensions for:Vertical scrolling content at a width equivalent to 320 CSS pixels;Horizontal scrolling content at a height equivalent to 256 CSS pixels. | Does not support | Most PATHPrimer content cannot be presented without loss of information and functionality and without requiring scrolling in two dimensions. **Exceptions:**Curriculum: The page requires scrolling in two directions at small screen sizes.Anatomic Pathology Lesson: The page requires scrolling in two directions at small screen sizes.Lesson: The page requires scrolling in two directions at small screen sizes.Assessment Landing: The page requires scrolling in two directions at small screen sizes.Performance: The page requires scrolling in two directions at small screen sizes. |
| [1.4.11 Non-Text Contrast](https://www.w3.org/TR/WCAG21/#non-text-contrast) (AA)(2.1)User interact components and graphical objects have a contrast ratio of at least 3:1 against adjacent color(s). | Partially supports | Overall PATHPrimer provides good contrast between graphical objects and backgrounds.**Supporting Remarks:****Exceptions:**Profile: Input boxes have a contrast ratio of 1.2:1 |
| [1.4.12 Text Spacing](https://www.w3.org/TR/WCAG21/#text-spacing) (AA)(2.1)In content implemented using markup languages that support the following text style properties, no loss of content or functionality occurs by setting all the following and by changing no other style property:Line height (line spacing) to at least 1.5 times the font size;Spacing following paragraphs to at least 2 times the font size;Letter spacing (tracking) to at least 0.12 times the font size;Word spacing to at least 0.16 times the font size. | Supports | All text-based CSS settings within PATHPrimer can be changed to certain minimum values without loss of content or functionality |
| [1.4.13 Content on Hover or Focus](https://www.w3.org/TR/WCAG21/#content-on-hover-or-focus) (AA)(2.1)Where receiving and then removing pointer hover or keyboard focus triggers additional content to become visible and then hidden, the following are true:* Dismissable
* Hoverable
* Persistent
 | Supports | PATHPrimer content is dismissible, hoverable, and persistent when hovering or focusing.  |
| [2.3.1: Three Flashes or Below Threshold](http://www.w3.org/TR/WCAG20/#seizure-does-not-violate) (A)No more than three flashes in a 1-second period, or the flashes are below the defined thresholds | Supports (N/A) | PATHPrimer does not contain flashing content. |
| **Keyboard** |
| **WCAG 2.1****Checkpoint** | **Supporting Features** | **Remarks** |
| [1.3.2: Meaningful Sequence](http://www.w3.org/TR/WCAG20/#content-structure-separation-sequence) (A)The correct reading sequence can be programmatically determined | Partially supports | The correct reading sequence can be programmatically determined on most PATHPrimer pages. **Exceptions:**Curriculum: percentage is read before label in Activity OverviewAnatomic Pathology Lessons: percentage is read before label in Activity Overview |
| [2.1.1: Keyboard](http://www.w3.org/TR/WCAG20/#keyboard-operation-keyboard-operable) (A)All functionality is available from a keyboard, except for tasks such as drawing | Partially supports | Overall PATHPrimer provides keyboard access to most of the interactive links and buttons.**Supporting Remarks:****Exceptions:**Header: Help and Settings are not keyboard operableLesson: “reading status” combobox, “table of contents” button, “table” button, and “back to top” button are not reachable via keyboard, all of the image carousel content is not reachable via keyboard. When content is bookmarked, the bookmark tab on the left cannot be reached by keyboard.Assessment Landing: “in progress” and “completed” tabs and most info within is not keyboard reachable, “go” button is not keyboard reachable, “number to use in quiz” buttons are not keyboard operable, “more options” button is not keyboard operable, “question options” dropdowns are not keyboard operable. "Mark complete” cannot be reached by keyboard.Assessment: keyboard cannot access “feedback”, “flag question”, “previous” and “next”, “close” button, radio buttons, “collapse header” button, “next image” button, “send” and “cancel” buttons within feedback dialog, and “keyboard shortcuts”Performance: accordion and print button are not keyboard operableProfile: close button and “additional profile details” are not keyboard operable |
| [2.1.2: No Keyboard Trap](http://www.w3.org/TR/WCAG20/#keyboard-operation-trapping) (A)The user can use the keyboard to move through page elements and is not trapped on a particular element | Supports | There are no keyboard traps within PATHPrimer. |
| [2.1.4 Character Key Shortcuts](https://www.w3.org/TR/WCAG21/#character-key-shortcuts) (A)(2.1)If a keyboard shortcut is implemented in content using only letter (including upper- and lower-case letters), punctuation, number, or symbol characters, then at least one of the following is true:* Turn off
* Remap
* Active only on focus
 | Partially supports | PATHPrimer does not have any keyboard shortcuts using single keys on most pages.**Exceptions:** Assessment: single character shortcuts cannot be turned off or remapped |
| [2.4.3: Focus Order](http://www.w3.org/TR/WCAG20/#navigation-mechanisms-focus-order) (A)Users can tab through the elements of a page in a logical order | Partially supports | PATHPrimer users can tab through the interface in a logical order, where elements receive focus from top to bottom, left to right.**Exceptions:**Curriculum: The Number of Questions input should be reached after the question buttons.Anatomic Pathology Lessons: The Number of Questions input should be reached after the question buttons. |
| [2.4.7: Focus Visible](http://www.w3.org/TR/WCAG20/#navigation-mechanisms-focus-visible) (AA)The page element with the current keyboard focus has a visible focus indicator | Supports | Most page elements have a visible focus indicator.**Exceptions:**Assessment Landing: The checkboxes on the page have a visible focus that is too faint to see. |
| [3.2.1: On Focus](http://www.w3.org/TR/WCAG20/#consistent-behavior-receive-focus) (A)When a UI component receives focus, this does not trigger unexpected actions. | Supports | UI components do not trigger unexpected actions when receiving focus. |
| **Headers and Structure** |
| **WCAG 2.1****Checkpoint** | **Supporting Features** | **Remarks** |
| [1.3.1: Information and Relationships](http://www.w3.org/TR/WCAG20/#content-structure-separation-programmatic) (A)Info, structure, and relationships can be programmatically determined | Partially supports | On most pages, information, structure, and relationships can be programmatically determined. **Supporting remarks:****Exceptions:**Footer: The navigation links in the footer should be in an unordered list.Curriculum: empty H1 element, H2s “number of questions” and “assessment options” should be H3. The Number of questions elements should be in an unordered list.Anatomic Pathology Lesson: “number of questions” and “assessment options” should be H3 instead of H2. The Number of questions elements should be in an unordered list.Lesson: more than one H1 appears on the pageAssessment Landing: multiple H1 headings, “quiz options”, “question options”, and “number of questions” should be H3. The Number of questions elements should be in an unordered list.Assessment: only H2s are present with no H1, question and answer radio buttons should be in a listPerformance: custom table is not accessible to screen reader users |
| [2.4.1: Bypass Blocks](http://www.w3.org/TR/WCAG20/#navigation-mechanisms-skip) (A)Users can bypass repeated blocks of content. | Does Not Support | “Skip to main content” is not present on any page |
| [2.4.6: Headings and Labels](http://www.w3.org/TR/WCAG20/#navigation-mechanisms-descriptive) (AA) Headings and labels are clear and consistent. | Supports | All pages on PATHPrimer have clear and consistent headings and labels |
| [3.1.1: Language of Page](http://www.w3.org/TR/WCAG20/#meaning-doc-lang-id) (A)The language of the page is specified | Partially supports | Most pages on PATHPrimer have the language of the page specified.**Exceptions:** Assessment: does not specify language of the pageProfile: does not specify language of the page |
| [3.1.2: Language of Parts](http://www.w3.org/TR/WCAG20/#meaning-other-lang-id) (AA)Specify the language of text passages that are in a different language than the default language of the page. | Supports (N/A) | All pages on PATHPrimer are in the same language. |
| [4.1.1: Parsing](http://www.w3.org/TR/WCAG20/#ensure-compat-parses) (A)Use valid, error-free HTML | Partially supports | Most page elements have complete start and end tags, elements are nested according to their specifications, elements do not contain duplicate attributes, and any IDs are unique.**Exceptions:**Lesson: duplicate ID “subheader” |
| **Labeling** |
| **WCAG 2.1****Checkpoint** | **Supporting Features** | **Remarks** |
| 1.3.5 Identify Input Purpose (AA) (2.1)The purpose of each input field collecting information about the user can be programmatically determined when:The input field serves a purpose identified in the Input Purposes for User Interface Components section; and the content is implemented using technologies with support for identifying the expected meaning for form input data. | Partially supports  | **Exceptions:** Profile: autocomplete attribute is missing |
| [2.4.2: Page Titled](http://www.w3.org/TR/WCAG20/#navigation-mechanisms-title) (A)The page has a title describing its topic or purpose | Partially supports | Most PATHPrimer pages have a title that describes the topic or purpose of the page.**Exceptions:**Assessment: title only says “PathPrimer”Profile: title says “login” when it should say “profile” |
| [2.4.4: Link Purpose (In Context)](http://www.w3.org/TR/WCAG20/#navigation-mechanisms-refs) (A)The purpose of each link can be determined from the link text or surrounding context. | Partially supports | Most links have descriptive and unique names.**Exceptions:**Curriculum: “Go” link text is vagueAnatomic Pathology Lessons: “Go” link text is vagueProfile: The 'X’ close link does not have link text. |
| [2.5.3 Label in Name](https://www.w3.org/TR/WCAG21/#label-in-name) (A)(2.1)For user interface components with labels that include text or images of text, the name contains the text that is presented visually. | Supports | PATHPrimer labels include the text that is presented visually. |
| [3.2.4: Consistent Identification](http://www.w3.org/TR/WCAG20/#consistent-behavior-consistent-functionality) (AA)UI components used across the web site are identified consistently on every page. | Supports | All UI components are identified consistently and on every page.  |
| [3.3.1: Error Identification](http://www.w3.org/TR/WCAG20/#minimize-error-identified) (A)Input errors are clearly marked and described to the user. | Supports | PATHPrimer identifies input errors in a variety of ways including text which appears below form inputs and alerts. |
| [3.3.2: Labels and Instructions](http://www.w3.org/TR/WCAG20/#minimize-error-cues) (A)Items requiring user input are clearly labeled or have clear instructions. | Partially supports | Most form inputs provide an accessible name using the <label> tag or aria-label. **Exceptions**:Curriculum: Number of questions input does not have a label. Assessment options select inputs do not have labels.Anatomic Pathology Lessons: Number of questions input does not have a label. Assessment options select inputs do not have labels.Assessment Landing: all form elements are missing labelsProfile: all form elements are missing labels. Required inputs should have aria-required=”true" |
| [3.3.3: Error Suggestion](http://www.w3.org/TR/WCAG20/#minimize-error-suggestions) (AA)When the user makes an input error, give suggestions for valid input. | Supports | When users make an input error, suggestions are given for valid input. |
| [4.1.2: Name, Role, Value](http://www.w3.org/TR/WCAG20/#ensure-compat-rsv) (A)For all UI components, the name, value, and role can be programmatically determined. | Partially supports | Overall, the name, role, and value can be programmatically determined for UI components. **Exceptions:**Header: The Help and Settings links should be button elements. The Help and Settings elements are missing aria-expanded attributes. The “Settings” icon does not have a label.Curriculum: Number of questions links should be button elements. The number of questions elements need more description.Anatomic Pathology Lessons: Number of questions links should be button elements. The number of questions elements need more description.Lesson: “table of contents”, “table”, “bookmark” and “back to top” buttons do not have accessible names, image carousel should have aria-roledescription = carousel, “reading status” combo box does not have an accessible name. Reading status, Bookmark, table of contents, show caption, larger image, back to top elements on the page should be buttons. Reading Status element is missing aria-expanded.Assessment Landing: accordion should have aria-expanded. The tabs should be ARIA tabs. Review quiz should be a button and is missing a label.Assessment: question and answer radio buttons are not contained within a form, for images with image descriptions, should use aria-describedby to link image description to image, feedback button has no accessible name, feedback modal dialog should have role of dialog and aria-modal=”true”.Performance: accordion should have roles of aria-expanded and aria-collapsed when drawers are open and closedProfile: Additional Profile details should be a button. ‘X’ close element should be a link. |
| [4.1.3 Status Messages](https://www.w3.org/TR/WCAG21/#status-messages) (AA)(2.1)In content implemented using markup languages, status messages can be programmatically determined through role or properties such that they can be presented to the user by assistive technologies without receiving focus. | Supports | PATHPrimer uses status messages pertaining to error text around form fields.  |
| **Multimedia** |
| **WCAG 2.1****Checkpoint** | **Supporting Features** | **Remarks** |
| [1.2.1: Audio-only or Video-only (Prerecorded)](http://www.w3.org/TR/WCAG20/#media-equiv-av-only-alt) (A)Provide alternatives for pre-recorded audio-only or video-only content. | Supports (N/A) | There is no pre-recorded audio-only or video-only content on the site. |
| [1.2.2: Captions (Prerecorded)](http://www.w3.org/TR/WCAG20/#media-equiv-captions) (A)Provide captions for pre-recorded audio | Supports (N/A) | There is no pre-recorded audio on the site. |
| [1.2.3: Audio Description or Media Alternative (Prerecorded)](http://www.w3.org/TR/WCAG20/#media-equiv-audio-desc) (A)Provide alternatives for pre-recorded synchronized audio/video | Supports (N/A) | There is no pre-recorded synchronized audio/video on the site. |
| [1.2.4: Captions (Live)](http://www.w3.org/TR/WCAG20/#media-equiv-real-time-captions) (AA)Provide captions for live audio in synchronized audio/video. | Supports (N/A) | There is no live audio in synchronized audio/video. |
| [1.2.5: Audio Description (Prerecorded)](http://www.w3.org/TR/WCAG20/#media-equiv-audio-desc-only) (AA)Provide an audio description of pre-recorded video. | Supports (N/A) | There is no pre-recorded video on the site.  |
| [1.4.2: Audio Control](http://www.w3.org/TR/WCAG20/#visual-audio-contrast-dis-audio) (A)Audio can be paused and stopped, or the audio volume can be changed. | Supports (N/A) | There is no audio content on the site.  |
| [2.2.2: Pause, Stop, Hide](http://www.w3.org/TR/WCAG20/#time-limits-pause) (A)Users can stop, pause, or hide moving, blinking, scrolling, or auto-updating information. | Supports (N/A) | There is no moving, blinking, or scrolling content. |
| **Usability** |
| **WCAG 2.1****Checkpoint** | **Supporting Features** | **Remarks** |
| [2.2.1: Timing Adjustable](http://www.w3.org/TR/WCAG20/#time-limits-required-behaviors) (A)Users are warned of time limits shorter than 20 hours and time limits can be turned off or extended | Supports | PATHPrimer uses a time limit longer than 20 hours. |
| [2.4.5: Multiple Ways](http://www.w3.org/TR/WCAG20/#navigation-mechanisms-mult-loc) (AA)More than one way is available to navigate to other web pages. | Supports | PATHPrimer provides multiple ways to navigate to other web pages. |
| [3.2.2: On Input](http://www.w3.org/TR/WCAG20/#consistent-behavior-unpredictable-change) (A) Changing the setting of a checkbox, radio button, or other UI component does not trigger unexpected changes in context. | Supports | PATHPrimer pages do not trigger unexpected changes in context when changing the setting of a checkbox, radio button, or other UI component. |
| [3.2.3: Consistent Navigation](http://www.w3.org/TR/WCAG20/#consistent-behavior-consistent-locations) (AA)Navigation menus are in the same location and order on every web page. | Supports | PATHPrimer’s navigation menus are in the same location and order on every page. |
| [3.3.4: Error Prevention (Legal, Financial, Data)](http://www.w3.org/TR/WCAG20/#minimize-error-reversible) (AA)For web pages with legal or financial commitments, input can be reviewed and corrected before final submission, and submissions can be reverted. | Supports (N/A) | No data submissions on the site require legal or financial commitments.No data submissions allow for a users’ profile to be deleted.  |
| **Mobile User Experience** |
| **WCAG 2.1****Checkpoint** | **Supporting Features** | **Remarks** |
| [1.3.4 Orientation](https://www.w3.org/TR/WCAG21/#orientation)(AA) (2.1)Content does not restrict its view and operation to a single display orientation, such as portrait or landscape, unless a specific display orientation is essential. | Supports | Content on PATHPrimer does not restrict to a single display orientation. |
| [2.5.1 Pointer Gestures](https://www.w3.org/TR/WCAG21/#pointer-gestures) (A) (2.1)All functionality that uses multipoint or path-based gestures for operation can be operated with a single pointer without a path-based gesture, unless a multipoint or path-based gesture is essential. | Supports (N/A) | PATHPrimer does not contain multipoint or path-based gestures. |
| 2.5.2 Pointer Cancellation (A) (2.1)For functionality that can be operated using a single pointer, at least one of the following is true:* No Down-Event
* Abort or Undo
* Up Reversal
* Essential
 | Supports | All PATHPrimer pages support pointer cancellation. |
| [2.5.4 Motion Actuation](https://www.w3.org/TR/WCAG21/#motion-actuation) (A)(2.1) Functionality that can be operated by device motion or user motion can also be operated by user interface components and responding to the motion can be disabled to prevent accidental actuation, except when:* Supported Interface
* Essential
 | Supports (N/A) | PATHPrimer does not contain motion actuation. |