VPAT Web Content Accessibility Guidelines 2.0 level AA

Vendor: Mango Languages

Resource(s): Mango Languages Web App

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Principle 1: Perceivable – information and user interface components must be presentable to users in ways they can perceive.

Standard	Description	Apply Yes/No	Meets Yes/No	Comments (mandatory)	
Guideline 1	Guideline 1.1 Text Alternatives: Provide text alternatives for any non-text content so that it can be				
changed in	changed into other forms people need, such as large print, braille, speech, symbols or simpler language.				

1.1.1 Non-text Content: All non-text content that is presented to the user has a text alternative that serves the equivalent purpose, except for the situations listed below (Level A).

- Controls, Input: If non-text content is a control or accepts user input, then it has a name that describes its purpose. (Refer to Guideline 4.1 for additional requirements for controls and content that accepts user input.)
- Time-Based Media: If non-text content is time-based media, then text alternatives at least provide descriptive identification of the non-text content. (Refer to Guideline 1.2 for the additional requirements for media.)
- Test: If non-text content is a test or exercise that would be invalid if presented in text, then text alternatives at least provide descriptive identification of the non-text content.
- Sensory: If non-text content is primarily intended to create a specific sensory experience, then text alternatives at least provide descriptive identification of the non-text content.
- CAPTCHA: If the purpose of non-text content is to confirm that
 content is being accessed by a person rather than a computer,
 then text alternatives that identify and describe the purpose of
 the non-text content are provided, and alternative forms of
 CAPTCHA using output modes for different types of sensory
 perception are provided to accommodate different disabilities.
- Decorative, Formatting, Invisible: If non-text content is pure decoration, is used only for visual formatting, or is not presented to users, then it is implemented in a way that it can be ignored by assistive technology.

NO

YES

Introductory
Pages
(Pathway,
Tools, Profile,
etc.) are not
fully accessible
and missing
accessible form
controls and
alternate text.

Mango Conversations lesson iframe does not have a title.

When time has been added to the timer this is not communicated to screen reader users.

When modals are opened (i.e. Settings Modal, Keyboard Guide Modal) users can navigate past the modal and read content that the modals visually cover.

The application provides a utility to see the phonetic pronunciation of words students are learning. This information is presented audibly but not via text. However, the same information is available

Guideline 1.2 Time-based Media: Provide alternatives for time-based media.					
1.2.1	 Audio-only and Video-only (Prerecorded): For prerecorded audio-only and prerecorded video-only media, the following are true, except when the audio or video is a media alternative for text and is clearly labeled as such (Level A): Prerecorded Audio-only: An alternative for time-based media is provided that presents equivalent information for prerecorded audio-only content. Prerecorded Video-only: Either an alternative for time-based media or an audio track is provided that presents equivalent information for prerecorded video-only content. 	NO	N/A	No pre- recorded audio-only and video-only is present.	
1.2.2	Captions (Prerecorded): Captions are provided for all prerecorded audio content in synchronized media, except when the media is a media alternative for text and is clearly labeled as such. (Level A)	YES	YES	Captions are available via the settings menu.	
1.2.3	Audio Description or Media Alternative (Prerecorded): An alternative for time-based media or audio description of the prerecorded video content is provided for synchronized media, except when the media is a media alternative for text and is clearly labeled as such. (Level A)	NO	N/A	No video content is present.	
1.2.4	Captions (Live): Captions are provided for all live audio content in synchronized media. (Level AA)	NO	N/A	No live audio is present.	
1.2.5	Audio Description (Prerecorded): Audio description is provided for all prerecorded video content in synchronized media. (Level AA)	YES	YES (with Exceptio ns)	Although transcripts are not available for the narrator captions, the information provided by the narrator is generally redundant with the information on screen and not required to use the application.	
1.2.6	Sign Language (Prerecorded): Sign language interpretation is provided for all prerecorded audio content in synchronized media. (Level AAA)	YES	NO		
1.2.7	Extended Audio Description (Prerecorded): Where pauses in foreground audio are insufficient to allow audio descriptions to convey the sense of the video, extended audio description is provided for all prerecorded video content in synchronized media. (Level AAA)	NO	N/A		

1.2.8	Media Alternative (Prerecorded): An alternative for time-based media is provided for all prerecorded synchronized media and for all prerecorded video-only media. (Level AAA)	YES	YES (with Exceptio ns)	Although transcripts are not available for the narrator captions, the information provided by the narrator is generally redundant with the information on screen and not required to use the application.
1.2.9	Audio-only (Live): An alternative for time-based media that presents equivalent information for live audio-only content is provided. (Level AAA)	NO	N/A	No live audio- only content is present
Guidel	line 1.3 Adaptable: Create content that can be presented in diffe	rent ways	(for examp	ole simpler
,) without losing information or structure.			
1.3.1	Info and Relationships: Information, structure, and relationships conveyed through presentation can be programmatically determined or are available in text. (Level A)	YES	NO	Introductory Pages (Pathway, Tools, Profile, etc.) are not fully accessible and missing accessible form controls and semantics to convey the information and structure to screen readers. Pages with the app do have the proper semantic structure.

1.3.2	Meaningful Sequence: When the sequence in which content is	YES	YES	When new
1.3.2	presented affects its meaning, a correct reading sequence can be	162		slides are
	programmatically determined. (Level A)		(within	
	, , ,		app)	opened with
				the next
				button, focus
				does not move
				to the top of
				the slide.
1.3.3	Sensory Characteristics: Instructions provided for understanding	YES	YES	Semantic color
	and operating content do not rely solely on sensory characteristics		(with	mappings is a
	of components such as shape, size, visual location, orientation, or		Exceptio	visual tool that
	sound. (Level A)		ns)	uses color
			,	alone to
				convey
				semantic
				relationships.
				However, this
				content is also
				presented in
				and accessible
				manner
				throughout the
				lessons.
	ine 1.4 Distinguishable: Make it easier for users to see and hear	content in	cluding se _l	parating
	ound from background.	1		
1.4.1	Use of Color: Color is not used as the only visual means of	YES	YES	Semantic color
	conveying information, indicating an action, prompting a response,		(with	mappings is a
	or distinguishing a visual element. (Level A)		Exceptio	visual tool that
			ns)	uses color
				alone to
				convey
				semantic
				relationships.
				However, this
				content is also
				presented in
				and accessible
				manner
				throughout the
1]		_
				IACCONC
1/12	Audio Control: If any audio on a Web nage plays automatically for	VEC	VEC	lessons.
1.4.2	Audio Control: If any audio on a Web page plays automatically for more than 3 seconds, either a mechanism is available to pause or	YES	YES	Audio can be
1.4.2	more than 3 seconds, either a mechanism is available to pause or	YES	YES	Audio can be controlled
1.4.2		YES	YES	Audio can be

1.4.3	 Contrast (Minimum): The visual presentation of text and images of text has a contrast ratio of at least 4.5:1, except for the following: (Level AA) Large Text: Large-scale text and images of large-scale text have a contrast ratio of at least 3:1; Incidental: Text or images of text that are part of an inactive user interface component, that are pure decoration, that are not visible to anyone, or that are part of a picture that contains significant other visual content, have no contrast requirement. Logotypes: Text that is part of a logo or brand name has no minimum contrast requirement. 	YES	NO	Several items in the application have a contrast ratio below 3:1.
1.4.4	Resize text: Except for captions and images of text, text can be resized without assistive technology up to 200 percent without loss of content or functionality. (Level AA)	YES	NO	Introductory Pages (Pathway, Tools, Profile, etc.) distort when text is resized to 200%. Buttons "Restart This Lesson" and "Begin Next Lesson" on the last slide of an activity become distorted at over 133%.
1.4.5	 Images of Text: If the technologies being used can achieve the visual presentation, text is used to convey information rather than images of text except for the following: (Level AA) Customizable: The image of text can be visually customized to the user's requirements; Essential: A particular presentation of text is essential to the information being conveyed. 	YES	NO	Real text is used unless an image is essential to meaning or functionality.
1.4.6	 Contrast (Enhanced): The visual presentation of text and images of text has a contrast ratio of at least 7:1, except for the following: (Level AAA) Large Text: Large-scale text and images of large-scale text have a contrast ratio of at least 4.5:1; Incidental: Text or images of text that are part of an inactive user interface component, that are pure decoration, that are not visible to anyone, or that are part of a picture that contains significant other visual content, have no contrast requirement. Logotypes: Text that is part of a logo or brand name has no minimum contrast requirement. 	YES	NO	

1.4.7	 Low or No Background Audio: For prerecorded audio-only content that (1) contains primarily speech in the foreground, (2) is not an audio CAPTCHA or audio logo, and (3) is not vocalization intended to be primarily musical expression such as singing or rapping, at least one of the following is true: (Level AAA) No Background: The audio does not contain background sounds. Turn Off: The background sounds can be turned off. 20 dB: The background sounds are at least 20 decibels lower than the foreground speech content, with the exception of occasional sounds that last for only one or two seconds. 	YES	NO	
1.4.8	 Visual Presentation: For the visual presentation of blocks of text, a mechanism is available to achieve the following: (Level AAA) Foreground and background colors can be selected by the user. Width is no more than 80 characters or glyphs (40 if CJK). Text is not justified (aligned to both the left and the right margins). Line spacing (leading) is at least space-and-a-half within paragraphs, and paragraph spacing is at least 1.5 times larger than the line spacing. Text can be resized without assistive technology up to 200 percent in a way that does not require the user to scroll horizontally to read a line of text on a full-screen window. 	YES	NO	
1.4.9	Images of Text (No Exception): Images of text are only used for pure decoration or where a particular presentation of text is essential to the information being conveyed. (Level AAA)	YES	YES	

Principle 2: Operable - User interface components and navigation must be operable.

Standard	Description	Apply Yes/No	Meets Yes/No	Comments		
Guideline 2	Guideline 2.1 Keyboard Accessible: Make all functionality available from a keyboard.					

2.1.1	Keyboard: All functionality of the content is operable through a keyboard interface without requiring specific timings for individual keystrokes, except where the underlying function requires input that depends on the path of the user's movement and not just the endpoints. (Level A)	YES	NO	On the Introductory Pages (Pathway, Tools, Profile, etc.) many controls are not keyboard accessible. Within the app, all content can be accessed via the keyboard with the exception of the navigation slider. However, users can also use the next and
				the next and previous buttons to navigate.
2.1.2	No Keyboard Trap: If keyboard focus can be moved to a component of the page using a keyboard interface, then focus can be moved away from that component using only a keyboard interface, and, if it requires more than unmodified arrow or tab keys or other standard exit methods, the user is advised of the method for moving focus away. (Level A)	YES	YES	No keyboard traps are present.
2.1.3	Keyboard (No Exception): All functionality of the content is operable through a keyboard interface without requiring specific timings for individual keystrokes. (Level AAA)	YES	YES	

Guidel	ine 2.2 Enough Time: Provide users enough time to read and use	content.		
2.2.1	 Timing Adjustable: For each time limit that is set by the content, at least one of the following is true: (Level A) Turn off: The user is allowed to turn off the time limit before encountering it; or Adjust: The user is allowed to adjust the time limit before encountering it over a wide range that is at least ten times the length of the default setting; or Extend: The user is warned before time expires and given at least 20 seconds to extend the time limit with a simple action (for example, "press the space bar"), and the user is allowed to extend the time limit at least ten times; or Real-time Exception: The time limit is a required part of a real-time event (for example, an auction), and no alternative to the time limit is possible; or Essential Exception: The time limit is essential and extending it would invalidate the activity; or 20 Hour Exception: The time limit is longer than 20 hours. 	YES	YES	Users can turn the timer on or off as required.
2.2.2	 Pause, Stop, Hide: For moving, blinking, scrolling, or auto-updating information, all of the following are true: (Level A) Moving, blinking, scrolling: For any moving, blinking or scrolling information that (1) starts automatically, (2) lasts more than five seconds, and (3) is presented in parallel with other content, there is a mechanism for the user to pause, stop, or hide it unless the movement, blinking, or scrolling is part of an activity where it is essential; and Auto-updating: For any auto-updating information that (1) starts automatically and (2) is presented in parallel with other content, there is a mechanism for the user to pause, stop, or hide it or to control the frequency of the update unless the auto-updating is part of an activity where it is essential. 	YES	NO	On the conversations objectives page and other pages with scrolling content there is no way to pause this.
2.2.3	No Timing: Timing is not an essential part of the event or activity presented by the content, except for non-interactive synchronized media and real-time events. (Level AAA)	YES	YES	
2.2.4	Interruptions: Interruptions can be postponed or suppressed by the user, except interruptions involving an emergency. (Level AAA)	YES	YES	Narrator can be turned on and off.
2.2.5	Re-authentication: If an authentication expires, the user can re- authenticate and continue the activity without losing any data from the current page. (Level AAA)	YES	YES	
Guidel	ine 2.3 Seizures: Do not design content in a way that is known to	cause sei	zures.	
2.3.1	Three Flashes or Below Threshold: Web pages do not contain anything that flashes more than three times in any one second period, or the flash is below the general flash and red flash thresholds. (Level A)	YES	YES	Pages do not contain anything that flashes more than three times a second.
2.3.2	Three Flashes: Web pages do not contain anything that flashes more than three times in any one second period. (Level AAA)	YES	YES	

Guideli	ne 2.4 Navigable: Provide ways to help users navigate, find con	tent, and a	determine	where they are.
2.4.1	Bypass Blocks: A mechanism is available to bypass blocks of content that are repeated on multiple Web pages. (Level A)	YES	YES	Headings are provided for navigation on pages that have headings. Users are taken directly to the activities on other pages.
2.4.2	Page Titled: Web pages have titles that describe topic or purpose. (Level A)	YES	NO	Page titles are not informative
2.4.3	Focus Order: If a Web page can be navigated sequentially and the navigation sequences affect meaning or operation, focusable components receive focus in an order that preserves meaning and operability. (Level A)	YES	YES	Introductory Pages (Pathway, Tools, Profile, etc.) some modals receive focus when closed. Within the app, the focusable components receive focus in an order that preserves meaning.
2.4.4	Link Purpose (In Context): The purpose of each link can be determined from the link text alone or from the link text together with its programmatically determined link context, except where the purpose of the link would be ambiguous to users in general. (Level A)	YES	YES	In most cases the link or button purpose is obvious. For controls (i.e. pronunciation button) users may need to refer to the user documentation

2.4.5	Multiple Ways: More than one way is available to locate a Web page within a set of Web pages except where the Web Page is the result of, or a step in, a process. (Level AA)	YES	YES	The Mango Conversations learning module includes various steps in a process. However, users can move within the module by either the next and previous buttons or the slider.
2.4.6	Headings and Labels: Headings and labels describe topic or purpose. (Level AA)	YES	YES	Headings and labels are appropriately descriptive.
2.4.7	Focus Visible: Any keyboard operable user interface has a mode of operation where the keyboard focus indicator is visible. (Level AA)	YES	NO	Introductory Pages (Pathway, Tools, Profile, etc.) do not display a visible keyboard focus on all active elements. Within the app, a visible focus indicator is present on all active elements.
2.4.8	Location: Information about the user's location within a set of Web pages is available. (Level AAA)	YES	YES	The step (slide number) is indicated.
2.4.9	Link Purpose (Link Only): A mechanism is available to allow the purpose of each link to be identified from link text alone, except where the purpose of the link would be ambiguous to users in general. (Level AAA)	YES	NO	In most cases the link or button purpose if obvious. For controls (i.e. pronunciation button) users may need to refer to the user documentation

2.4.10	Section Headings: Section headings are used to organize the	YES	YES	Headings are
	content. (Level AAA)			used to identify
				sections such
				as the main
				content and
				modals.

Principle 3: Understandable - Information and the operation of user interface must be understandable.

Standa	ard	Description	Apply Yes/No	Meets Yes/No	Comments			
Guideline 3.1 Readable: Make text content readable and understandable.								
3.1.1	Lan	anguage of Page: The default human language of each Web page an be programmatically determined. (Level A)		YES	The language of the page is identified.			
3.1.2	in the property of the propert	guage of Parts: The human language of each passage or phrase ne content can be programmatically determined except for per names, technical terms, words of indeterminate language, words or phrases that have become part of the vernacular of immediately surrounding text. (Level AA)	YES	YES	Each language section is identified with its own language identifier if different than the language of the page.			
3.1.3	defi	isual Words: A mechanism is available for identifying specific nitions of words or phrases used in an unusual or restricted r, including idioms and jargon. (Level AAA)	YES	NO				
3.1.4		reviations: A mechanism for identifying the expanded form or aning of abbreviations is available. (Level AAA)	YES	NO				
3.1.5	thar nam requ	ding Level: When text requires reading ability more advanced in the lower secondary education level after removal of proper nes and titles, supplemental content, or a version that does not uire reading ability more advanced than the lower secondary cation level, is available. (Level AAA)	YES	NO				
3.1.6	proi	nunciation: A mechanism is available for identifying specific nunciation of words where meaning of the words, in context, is biguous without knowing the pronunciation. (Level AAA)	YES	YES	Many of the words have a pronunciation utility associated with them in the application.			
Guideline 3.2 Predictable: Make Web pages appear and operate in predictable ways.								
3.2.1		Focus: When any component receives focus, it does not initiate ange of context. (Level A)	YES	YES				

3.2.2	On Input: Changing the setting of any user interface component does not automatically cause a change of context unless the user has been advised of the behavior before using the component. (Level A)	YES	YES	
3.2.3	Consistent Navigation: Navigational mechanisms that are repeated on multiple Web pages within a set of Web pages occur in the same relative order each time they are repeated, unless a change is initiated by the user. (Level AA)	YES	YES	A consistent navigation structure is used throughout.
3.2.4	Consistent Identification: Components that have the same functionality within a set of Web pages are identified consistently. (Level AA)	YES	YES	Components are consistently identified.
3.2.5	Change on Request: Changes of context are initiated only by user request or a mechanism is available to turn off such changes. (Level AAA)	YES	YES	
Guidel	ine 3.3 Input Assistance: Help users avoid and correct mistakes.			
3.3.1	Error Identification: If an input error is automatically detected, the item that is in error is identified and the error is described to the user in text. (Level A)	NO	N/A	
3.3.2	Labels or Instructions: Labels or instructions are provided when content requires user input. (Level A)	YES	YES	Labels are provided consistently.
3.3.3	Error Suggestion: If an input error is automatically detected and suggestions for correction are known, then the suggestions are provided to the user, unless it would jeopardize the security or purpose of the content. (Level AA)	NO	N/A	
3.3.4	 Error Prevention (Legal, Financial, Data): For Web pages that cause legal commitments or financial transactions for the user to occur, that modify or delete user-controllable data in data storage systems, or that submit user test responses, at least one of the following is true: (Level AA) Reversible: Submissions are reversible. Checked: Data entered by the user is checked for input errors and the user is provided an opportunity to correct them. Confirmed: A mechanism is available for reviewing, confirming, and correcting information before finalizing the submission. 	NO	N/A	
3.3.5	Help: Context-sensitive help is available. (Level AAA)	YES	NO	
3.3.6	 Error Prevention (All): For Web pages that require the user to submit information, at least one of the following is true: (Level AAA) Reversible: Submissions are reversible. Checked: Data entered by the user is checked for input errors and the user is provided an opportunity to correct them. Confirmed: A mechanism is available for reviewing, confirming, and correcting information before finalizing the submission. 	NO	N/A	

Principle 4: Robust - Content must be robust enough that it can be interpreted reliably by a wide variety of user agents, including assistive technologies.

Standa	ard	Description	Apply	Meets	Comments			
			Yes/No	Yes/No				
Guideline 4.1 Compatible: Maximize compatibility with current and future user agents, including assistive								
technologies.								
4.1.1	Pars	sing: In content implemented using markup languages,	YES	YES				
	eler	ments have complete start and end tags, elements are nested						
	acco	ording to their specifications, elements do not contain						
	dup	licate attributes, and any IDs are unique, except where the						
	spe	cifications allow these features. (Level A)						
4.1.2	Nan	ne, Role, Value: For all user interface components (including	YES	YES				
	but	not limited to: form elements, links and components						
	gen	erated by scripts), the name and role can be programmatically						
	dete	ermined; states, properties, and values that can be set by the						
	use	r can be programmatically set; and notification of changes to						
	thes	se items is available to user agents, including assistive						
	tech	nnologies. (Level A)						