Brainfuse Voluntary Product Accessibility Template (VPAT) | July 2018

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Introduction

At Brainfuse we share your goal of providing equal and inclusive learning opportunities to all individuals. We work closely with our clients to develop comprehensive solutions that are flexible to the individual needs of institutions, instructors and students. Accessibility is not a checklist at Brainfuse; it is a commitment to empower and engage individuals in their learning goals.

The Voluntary Product Accessibility Template (VPAT) is an industry standard template for recording how a product or service conforms to Section 508 of the United States Rehabilitation Act. This VPAT outlines the compliance of Brainfuse online platform.

Key accessibility features

- Keyboard-only navigation
- Logical tab order and visible tab stops.
- Skip to main content links.
- Ability to simplify page layouts and collapse secondary content.
- Full keyboard accessibility.

Screen magnification, zooming and color contrast technologies

- Standard page designs so it is easy to find similar functionality across tools.
- Support for browser and assistive technology scaling (zooming), magnifying and contrast options.
- Ability to override system styles with custom style sheets.
- Good color contrast on all system styles.
- System information is not communicated by color alone.

Screen readers

- Focus on standards-compliant designs to improve interoperability with assistive technologies.
- Consistent and unique headings, links, buttons, and image descriptions.
- Table row headings, column headings, and summaries.
- Descriptive form field labels, including field sets.
- Minimal use of frames and proper frame titles.
- Good indication of context changes, including new windows, expanded or collapsed content, and dynamic page changes.
- Wide adoption of ARIA landmarks and alerts.

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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
Guideline 1.1 Text Alternatives: Provide text alternatives for any non-text content so that it can be 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.	Yes	Yes	Brainfuse provides text descriptions, labels, ETC., for images, form elements, and other items which blind and visually impaired users might find difficult to understand and/or use.
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.	Yes	Yes	Brainfuse provides captions for all videos appearing in our skills library.

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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	Brainfuse provides captions for all videos appearing in our skills library.
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)	Yes	Yes	Brainfuse provides captions for all videos appearing in our skills library.
1.2.4	Captions (Live): Captions are provided for all live audio content in synchronized media. (Level AA)	No	Not applicable	
1.2.5	Audio Description (Prerecorded): Audio description is provided for all prerecorded video content in synchronized media. (Level AA)	Yes	Yes	Brainfuse provides captions for all videos appearing in our skills library.
1.2.6	Sign Language (Prerecorded): Sign language interpretation is provided for all prerecorded audio content in synchronized media. (Level AAA)	No	No	Brainfuse does not use sign language
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	No	Brainfuse does not utilize pauses in online videos
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)	No	No	
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	No	

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Guideline 1.3 Adaptable: Create content that can be presented in different ways (for example simpler layout) 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	Yes	Brainfuse uses standard HTML markup for headings, form labels, links, buttons, tables, lists, ETC. when possible. When not possible, ARIA and/or descriptive text is used to indicate the various types of content and controls, and the relationships between them.
1.3.2	Meaningful Sequence: When the sequence in which content is presented affects its meaning, a correct reading sequence can be programmatically determined. (Level A)	Yes	Yes	Brainfuse strives to keep all content in a meaningful order within the DOM. When ordering is potentially confusing, structural data such as list or table markup is added to help clarify how such content should be read.
1.3.3	Sensory Characteristics: 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. (Level A)	Yes	Yes	When sensory characteristics are used to convey meaning, additional information is also provided in an alternative form.
Guideline 1.4 Distinguishable: Make it easier for users to see and hear content including separating foreground from background.				

1.4.1	Use of Color: Color is not used as the only visual means of conveying information, indicating an action, prompting a response, or distinguishing a visual element. (Level A)	Yes	Yes	When color is used to convey meaning, additional information is also provided in an alternative form.
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 stop the audio, or a mechanism is available to control audio volume independently from the overall system volume level. (Level A)	Yes	Yes	Brainfuse does not autoplay audio by default, though it may be possible for content creators to do so. However, when embedding uploaded audio through the Rich Content Editor, audio should be fully controllable and should not autoplay.
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	Yes	Brainfuse maintains a minimum contrast ratio across the Brainfuse product and also offers a High Contrast mode for users who require it.
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	Yes	All content in Brainfuse can be zoomed by the browser up to any size the browser supports.

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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	Yes	Brainfuse avoids the use of images of text, and when it is used, alternative text is provided.
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.			
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	Yes	
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.	No	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 2.1 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	Yes	Brainfuse strives to ensure that all of the Brainfuse platform is accessible without the use of a mouse. Exceptions to this rule is the whiteboard which allows users to draw free style drawings.
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	Brainfuse strives to ensure that all elements can be entered and left via the use of a keyboard.
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)			

Guideline 2.2 Enough Time: Provide users enough time to read and use content.

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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	All timed activities, such as quizzes, provides amble notification to the user.
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	Yes	Brainfuse has no areas utilizing blinking or scrolling information. Areas that auto-update, such as the chat component, provide aria-live alerts.
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)			
2.2.4	Interruptions: Interruptions can be postponed or suppressed by the user, except interruptions involving an emergency. (Level AAA)	Yes	Yes	All message boxes and notifications are only displayed in cases of emergency.
2.2.5	Interruptions: Interruptions can be postponed or suppressed by the user, except interruptions involving an emergency. (Level AAA)	Yes	Yes	All message boxes and notifications are only displayed in cases of emergency.

Guideline 2.3 Seizures: Do not design content in a way that is known to cause seizures.				
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	Brainfuse does not use flashing or blinking content.
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	
Guideline 2.4 Navigable: Provide ways to help users navigate, find content, and 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	Brainfuse offers "skip to content" links at the top of all pages and also offers headings and ARIA landmarks to aid with rapid navigation to desired content.
2.4.2	Page Titled: Web pages have titles that describe topic or purpose. (Level A)	Yes	Yes	The titles of web pages in Brainfuse are meaningful and relevant to a user's current location within the application.
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	Brainfuse works to ensure that the tab order of all web pages is intuitive and logical.
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	Brainfuse strives to give all links a label which is meaningful, even when read out of context.

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	Brainfuse offers breadcrumb when applicable. Additionally, contextual navigation is provided to help users locate the screen or content they are seeking.
2.4.6	Headings and Labels: Headings and labels describe topic or purpose. (Level AA)	Yes	Yes	Brainfuse strives to make all headings and labels meaningful, even when read out of context.
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	Yes	Brainfuse works to ensure that the focus indicator is always visible and contrasts well with the surrounding content and background.
2.4.8	Location: Information about the user's location within a set of Web pages is available. (Level AAA)			
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	Yes	Brainfuse ensures that link texts provide ample description on the purpose of the link.
2.4.10	Section Headings: Section headings are used to organize the content. (Level AAA)	Yes	Yes	When applicable section heading are used to organize the content.

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

Standard	Description	Apply Yes/No	Meets Yes/No	Comments
Guideline 3.1 Readable: Make text content readable and understandable.				
3.1.1	Language of Page: The default human language of each Web page can be programmatically determined. (Level A)	Yes	Yes	The default language is set on the html tag of all pages in Brainfuse.
3.1.2	Language of Parts: The human language of each passage or phrase in the content can be programmatically determined except for proper names, technical terms, words of indeterminate language, and words or phrases that have become part of the vernacular of the immediately surrounding text. (Level AA)	Yes	Yes	Brainfuse works with translators to ensure that all text in the User Interface is displayed in the default language of the page
3.1.3	Unusual Words: A mechanism is available for identifying specific definitions of words or phrases used in an unusual or restricted way, including idioms and jargon. (Level AAA)			
3.1.4	Abbreviations: A mechanism for identifying the expanded form or meaning of abbreviations is available. (Level AAA)	Yes	Yes	
3.1.5	Reading Level: When text requires reading ability more advanced than the lower secondary education level after removal of proper names and titles, supplemental content, or a version that does not require reading ability more advanced than the lower secondary education level, is available. (Level AAA)	Yes	Yes	
3.1.6	Pronunciation: A mechanism is available for identifying specific pronunciation of words where meaning of the words, in context, is ambiguous without knowing the pronunciation. (Level AAA)			
Guideline 3.2 Predictable: Make Web pages appear and operate in predictable ways.				
3.2.1	On Focus: When any component receives focus, it does not initiate a change of context. (Level A)	Yes	Yes	Brainfuse does not trigger context changes when items are focused.

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	Brainfuse does not use the changing of input fields for initiating context changes.
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	Brainfuse offers a consistent navigation order across the site.
3.2.4	Consistent Identification: Components that have the same functionality within a set of Web pages are identified consistently. (Level AA)	Yes	Yes	Brainfuse strives to ensure that controls with similar functions work consistently across the site.
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	Brainfuse ensures that any context changes are requested by the user.
Guideline 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)	Yes	Yes	Brainfuse uses automatic error focusing and/or ARIA live regions to inform users about detected input errors.
3.3.2	Labels or Instructions: Labels or instructions are provided when content requires user input. (Level A)	Yes	Yes	Brainfuse uses standard HTML or ARIA markup to associate a text label with all input fields, buttons, and links.

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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)	Yes	Yes	When possible, errors are automatically detected, and users are informed of these errors in an accessible manner.
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.	Yes	Yes	Before performing irreversible or potentially serious actions, users are presented with a confirmation box, to ensure that they truly wish to perform the requested action.
3.3.5	Help: Context-sensitive help is available. (Level AAA)			
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.	Yes	Yes	Before performing irreversible or potentially serious actions, users are presented with a confirmation box, to ensure that they truly wish to perform the requested action.

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

Standard	Description	Apply Yes/No	Meets Yes/No	Comments
Guideline 4.1 Compatible: Maximize compatibility with current and future user agents, including assistive technologies.				
4.1.1	Parsing: In content implemented using markup languages, 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, except where the specifications allow these features. (Level A)	Yes	Yes	Brainfuse strives to ensure that all markup is valid, and follows best practices whenever possible.
4.1.2	Name, Role, Value: For all user interface components (including but not limited to: form elements, links and components generated by scripts), the name and role can be programmatically determined; states, properties, and values that can be set by the user can be programmatically set; and notification of changes to these items is available to user agents, including assistive technologies. (Level A)	Yes	Yes	Brainfuse strives to ensure that the name, role and value of all user interface elements are available to assistive technologies via HTML or ARIA.