# Accessibility Conformance Report for sbgrid.org

**VPAT® revision: 2.5**

**Report date:** Mar 20, 2024

**Name of product:** sbgrid.org (website)

**Product description:** SBGrid is a global consortium of research labs in academia and industry using structural biology (cryoEM, X-ray crystallography and scattering, NMR, molecular dynamics, etc) to address scientific questions. This report refers entirely to the accessibility of web content published at the top level domain of sbgrid.org

**Contact information**: Please contact SBGrid using the contact information and forms at sbgrid.org

**Evaluation methods:** We used a combination of automated tools (WAVE by WebAIM) and manual testing, including manual testing with a screen reader (VoiceOver, provided by macOS Ventura/13)

**Applicable Standards/Guidelines:**

| Standard/Guideline | Included in report |
|---|---|
| Web Content Accessibility Guidelines 2.0 | Level A - Yes<br>Level AA - Yes<br>Level AAA - No |

**Notes:** *Intentionally left blank.*

**Terms:**

The terms used in the Conformance Level information are defined as follows:

- **Supports**: The functionality of the product has at least one method that meets the criterion without known defects or meets with equivalent facilitation.
- **Partially Supports**: Some functionality of the product does not meet the criterion.
- **Does Not Support**: The majority of product functionality does not meet the criterion.
- **Not Applicable**: The criterion is not relevant to the product.
- **Not Evaluated**: The product has not been evaluated against the criterion. This can be used only in WCAG Level AAA.

# WCAG 2.0 Report -

## Table 1: Conformance Criteria, Level A -

| Criteria | Conformance Level | Remarks and Explanations |
|---|---|---|
| 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 in situations listed in WCAG 2.0 1.1.1. | Supports | Tested manually with a screen reader & with the WAVE evaluation tool. <br><br> There are no reported images without an alternate text description, or with the "alt" field empty, or any other non-text content without a text alternative. |
| 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: <br> Prerecorded Audio-only: An alternative for time based media is provided that presents equivalent information for prerecorded audio only content. <br> 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. | Not Applicable. | We have a separate YouTube channel with a collection of ~200 pre recorded videos. This collection is separate from the website, and until Sept 2023 they did not offer alternative audio/video options. Starting in Sept 2023, captions started to be added to the new content. <br><br> No pre-recorded video or audio is directly distributed through the SBGrid or BioGrids websites. A few links to these collections are embedded in the main SBGrid website. |
| 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. | Not Applicable | See above (1.2.1) |

| Criteria | Conformance Level | Remarks and Explanations |
|---|---|---|
| 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. | Not Applicable | See above (1.2.1) |
| 1.3.1 Info and Relationships: Information, structure, and relationships conveyed through presentation can be programmatically determined or are available in text. | Supports with exceptions | Tested manually with a screen reader (VoiceOver/Safari) & with the WAVE evaluation tool. There are no reported errors from WAVE associated with this criterion.<br><br>Exceptions include:<br>- Misuse of h1-h6 tags for presentation (Newsletter archive pages, AppCiter)<br>- Use of layout tables in the homepage, newsletter and software pages |
| 1.3.2 Meaningful Sequence: When the sequence in which content is presented affects its meaning, a correct reading sequence can be programmatically determined. | Supports with exceptions | Tested manually with a screen reader (VoiceOver/Safari)<br><br>Exceptions include:<br>- The slider on the homepage. The slides that are not in view are interfering with the sequence of elements on that page, making it difficult to navigate with a screen reader. |
| 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. | Supports | No known instances |

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| 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. | Supports | No known instances |
| 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. | Not Applicable | |

| Criteria | Conformance Level | Remarks and Explanations |
| --- | --- | --- |
| 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. | Supports | No known instances |
| 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. | Supports | No known instances |
| 2.2.1 Timing Adjustable: For each time limit that is set by the content, at least one of the instances in WCAG 2.0 2.2.1 is true. | Not Applicable | No known instances |

| Criteria | Conformance Level | Remarks and Explanations |
|---|---|---|
| 2.2.2 Pause, Stop, Hide: For moving, blinking, scrolling, or auto-updating information, all of the following are true:<br>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<br>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. | Supports | There is a moving image slider on the homepage that automatically shows the next slide. There is a pause button that can be used to stop this slider.<br><br>There are no instances of auto-updating information. |
| 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. | Supports | No known instances |
| 2.4.1 Bypass Blocks: A mechanism is available to bypass blocks of content that are repeated on multiple Web pages. | Not applicable | The website does not have blocks of text repeated. |
| 2.4.2 Page Titled: Web pages have titles that describe topic or purpose. | Supports | |

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|---|---|---|
| 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. | Supports with exceptions | See 1.3.2; the homepage slider also interferes with the focus order. |

| Criteria | Conformance Level | Remarks and Explanations |
|---|---|---|
| 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. | Supports | There are a few instances of links that do not provide direct context, but they are contained in markup that does, e.g.<br>- The "Find out More"/"website"/etc. links on the software page<br>- The "Website" link on the Members page |
| 3.1.1 Language of Page: The default human language of each Web page can be programmatically determined. | Supports | All pages are in English and have the lang="en" attribute |
| 3.2.1 On Focus: When any component receives focus, it does not initiate a change of context. (Level A) | Supports | No known instances |
| 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. | Supports | No known instances |
| 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. | Supports | Tested manually on all forms; all required and validated input fields will display a text error next to the input element |
| 3.3.2 Labels or Instructions: Labels or instructions are provided when content requires user input. | Supports | Tested manually & with the WAVE evaluation tool. |

| 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. | Partially supports | The website uses mostly semantically correct HTML code, but some of our dynamically edited content (such as news articles, member tales and newsletters) is not validated. |
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| | | Additionally, the labels and fields across the multiple forms in the 'Get Help' section have overlapping attributes that should be unique. |

| Criteria | Conformance Level | Remarks and Explanations |
|---|---|---|
| 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. | Does Not Support | The homepage slider & the AppCiter implement custom controls that do not use an accessibility API. |

**Table 2: Conformance Criteria, Level AA** -

| Criteria | Conformance Level | Remarks and Explanations |
|---|---|---|
| 1.2.4 Captions (Live): Captions are provided for all live audio content in synchronized media. | Not Applicable | While SBGrid provides live webinars, this content is not presented through our website. |
| 1.2.5 Audio Description (Prerecorded): Audio description is provided for all prerecorded video content in synchronized media. | Does not support | |

| Criteria | Conformance Level | Remarks and Explanations |
|---|---|---|
| 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:<br>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. | Supports | Tested manually & with the WAVE evaluation tool. There are no reported contrast errors. |
| 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. | Supports | Based on manual testing. |
| 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:<br>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. | Supports | No known instances of images of text content. |
| 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 | Supports | Breadcrumbs & a sitemap are available |

| result of, or a step in, a process. | | |

| Criteria | Conformance Level | Remarks and Explanations |
|---|---|---|
| 2.4.6 Headings and Labels: Headings and labels describe topic or purpose. | Supports with exceptions | Tested manually & with the WAVE evaluation tool. <br><br> There are known exceptions where the h1-h6 tags are misused for presentation purposes: <br> - As part of the footer links <br> - At the newsletter archives |
| 2.4.7 Focus Visible: Any keyboard operable user interface has a mode of operation where the keyboard focus indicator is visible. | Not Applicable | |
| 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. | Not Applicable | All text content is in English |
| 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. | Supports | All navigational mechanisms are presented in the same relative order across the website. |
| 3.2.4 Consistent Identification: Components that have the same functionality within a set of Web pages are identified consistently. | Supports | All components have the same functionality across the website |
| 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. | Not Applicable | No suggestions are provided for input errors |

| Criteria | Conformance Level | Remarks and Explanations |
|---|---|---|
| 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:<br>Reversible: Submissions are reversible.<br>Checked: Data entered by the user is checked for input errors and the user is provided an opportunity to correct them.<br>Confirmed: A mechanism is available for reviewing, confirming, and correcting information before finalizing the submission. | Not Applicable | The only mechanisms that collect data entered by users are the registration and support forms, which do not seem to be applicable to this criterion. |