

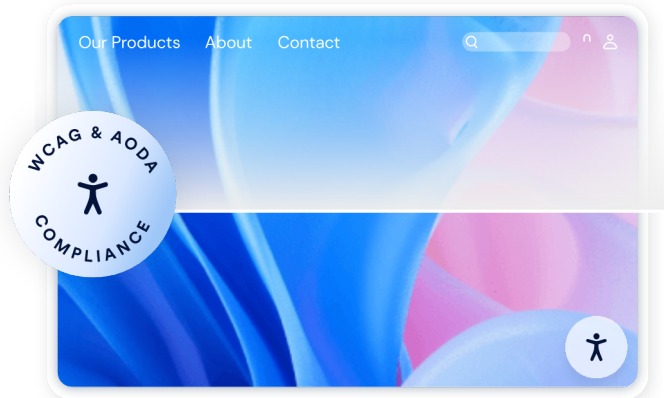
Scan results for www.chemvantage.org

Accessible

Congratulations! Our scan indicates that your webpage is accessible. We're thrilled you chose to be inclusive and comply with legislation.

Sun Nov 17, 2024

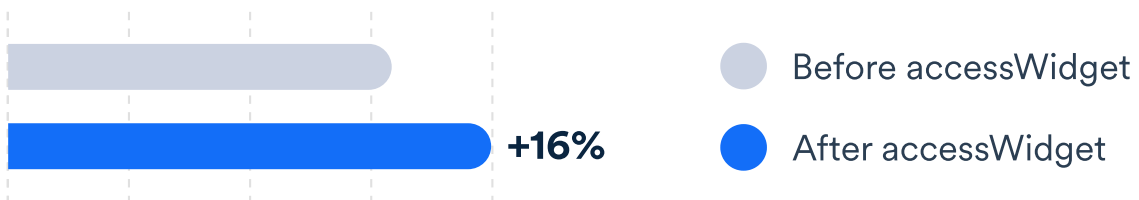
Thank you for making your website accessible and inclusive for all users with disabilities



Congratulations!

By making your website accessible, you embrace inclusivity and open your business to over 16% of the population.

Website Exposure



#	Element	Relevant	Successes	Failures	Score
1	Elements that act as buttons but use non-button tags (e.g., span, div, a) should include a role="button" attribute.	Yes	3	0	100

Code snapshots of successful elements

```
1 <button onclick="Calendly.showPopupWidget('https://calendly.com/chemvantage/install-chemvantage');" class="btn btn-two" > Schedule a Setup </button>
```

```
2 <button onclick="Calendly.showPopupWidget('https://calendly.com/chemvantage/install-chemvantage');" class="btn btn-two" > Schedule a Setup </button>
```

```
3 <button class="btn btn-two w-100" onclick="getItems();" >View Items</button>
```

#	Element	Relevant	Successes	Failures	Score
2	Buttons should include text explaining their functionality, and if icons are used as buttons, a screen-reader only text or an "aria-label" attribute should be used for that description.	Yes	3	0	100

Code snapshots of successful elements

```
1 <button onclick="Calendly.showPopupWidget('https://calendly.com/chemvantage/install-chemvantage');" class="btn btn-two" > Schedule a Setup </button>
```

```
2 <button onclick="Calendly.showPopupWidget('https://calendly.com/chemvantage/install-chemvantage');" class="btn btn-two" > Schedule a Setup </button>
```

```
3 <button class="btn btn-two w-100" onclick="getItems();" >View Items</button>
```

#	Element	Relevant	Successes	Failures	Score
3	Links should include text that sets expectations about the page they lead to. If empty links are used as layout wrapping elements, provide a description using screen-reader only text or an "aria-label" attribute.	Yes	24	0	100

Code snapshots of successful elements

```
1 <a href="#main" class="skip-to-main-content-link" >Skip to main content</a>
```

```
2 <a href="/" >  </a>
```

```
3 <a href="./index.html" class="nav-link" >Home</a>
```

```
4 <a href="./about.html" class="nav-link" >About Us</a>
```

```
5 <a href="#placement" class="nav-link" >Placement Exam</a>
```

```
6 <a href="#assignments" class="nav-link" >Assignments</a>
```

```
7 <a href="#pricing" class="nav-link" >Pricing</a>
```

```
8 <a href="/install.html" target="_blank" aria-label="Opens a new tab" class="btn btn-two" > DIY Installation </a>
```

```
9 <a href="https://sage.chemvantage.org" target="_blank" aria-label="Sage AI Tutor" >free stand-alone version of Sage.</a>
```

```
10 <a href="/install.html" target="_blank" aria-label="Opens a new tab" class="btn btn-two" >install ChemVantage free.</a>
```

#	Element	Relevant	Successes	Failures	Score
4	Links that open in a new tab or a new window should either have an "aria-label" attribute or a screen-reader only element explaining to screen-readers that this opens in a new tab.	Yes	12	2	86

Code snapshots of successful elements

```
1 <a href="/install.html" target="_blank" aria-label="Opens a new tab" class="btn btn-two" > DIY Installation </a>
```

```
2 <a href="/install.html" target="_blank" aria-label="Opens a new tab" class="btn btn-two" >install ChemVantage free.</a>
```

```
3 <a href="https://creativecommons.org/licenses/by/4.0/" target="_blank" aria-label="Opens a new tab" >Creative Commons CC-BY License</a>
```

```
4 <a href="/lti/registration" target="_blank" aria-label="Opens a new tab" >Registration is free.</a>
```

```
5 <a href="https://openstax.org/" target="_blank" aria-label="Opens a new tab" ></a>
```

```
6 <a href="https://openstax.org/details/books/chemistry-2e" target="_blank" aria-label="Opens a new tab" >Chemistry/2e</a>
```

```
7 <a href="https://openstax.org/details/books/chemistry-atoms-first-2e" target="_blank" aria-label="Opens a new tab" >Chemistry: Atoms First/2e</a>
```

```
8 <a class="btn btn-two nav-link" href="/examples" target="_blank" aria-label="Opens a new tab" > Try some example assignments </a>
```

```
9 <a href="/lti/registration" target="_blank" aria-label="Opens a new tab" class="btn btn-two" > Register Now </a>
```

```
10 <a href="./terms_and_conditions.html" target="_blank" aria-label="Opens a new tab" > Terms and Conditions </a>
```

Code snapshots of failed elements

```
1 <a href="https://sage.chemvantage.org" target="_blank" aria-label="Sage AI Tutor" >free stand-alone version of Sage.</a>
```

```
2 <a href="https://www.ecampus.com/chemvantage-1-year-license-chemvantage/bk/8780003189620" target="_blank" >eCampus.com</a>
```

#	Element	Relevant	Successes	Failures	Score
5	An H1 heading provides information to screen-reader users about the main topic of the page. Each page should have exactly one H1 heading.	Yes	Pass	-	100

Code snapshots of successful elements

```
1 <h1 style="color:#000080;">ChemVantage</h1>
```

#	Element	Relevant	Successes	Failures	Score
6	HTML heading elements (h1-h6) should contain text content. If they include images or links, those elements must provide alternative text or screen-reader-only text.	Yes	16	0	100

#	Element	Relevant	Successes	Failures	Score
7	Elements that visually function as headings but are not coded with a heading tag should include a role="heading" attribute or be updated to use the correct heading tag	No	0	0	

#	Element	Relevant	Successes	Failures	Score
8	Heading levels should not be skipped and must follow a consistent hierarchy. For example, you should not use h2 and h4 headings without including an h3 in between.	Yes	-	Fail	0

Code snapshots of failed elements

```
1 <h4></h4>
```

#	Element	Relevant	Successes	Failures	Score
9	Interactive elements such as links, buttons and form fields should all be navigable using the keyboard by either using a focusable element (a, button, input, etc.) or including the "tabindex" attribute that equals to "0".	Yes	Pass	-	100

#	Element	Relevant	Successes	Failures	Score
10	Interactive elements that can be navigated using the keyboard should be surrounded by a visual outline whenever they are focused.	Yes	-	Fail	0

#	Element	Relevant	Successes	Failures	Score
11	Active popups should include <code>aria-modal="true"</code> and <code>role="dialog"</code> attributes to help screen-reader users navigate them effectively.	No	0	0	

#	Element	Relevant	Successes	Failures	Score
12	Each page should include hidden skip links that allow users (via keyboard or screen reader) to bypass certain blocks and navigate directly to main landmarks like the main content, menu, or footer.	Yes	Pass	-	100

#	Element	Relevant	Successes	Failures	Score
13	Elements hidden using CSS (e.g., opacity, height, text-indent, off-canvas) should include an <code>aria-hidden</code> attribute set to <code>"true"</code> when hidden and dynamically updated to <code>"false"</code> when they become visible.	No	0	0	

#	Element	Relevant	Successes	Failures	Score
14	Elements hidden using CSS (e.g., opacity, height, text-indent, off-canvas) should have a tabindex attribute set to less than 0 and be dynamically updated to 0 when they become visible.	No	0	0	

#	Element	Relevant	Successes	Failures	Score
15	Menus should be built using the HTML5 "nav" element or include a "role" attribute set to "menu" or "navigation" to indicate a navigation landmark for screen readers.	Yes	Pass	-	100

Code snapshots of successful elements

```
1 <nav class="header-nav d-flex flex-end align-center gap-3"> <div class="nav-list"> <ul > <li class="active"> <a href="./index.html..."
```

#	Element	Relevant	Successes	Failures	Score
16	Menu items that have a dropdown should include an aria-haspopup="true" attribute.	No	0	0	

#	Element	Relevant	Successes	Failures	Score
17	Menu items that have a dropdown should include an "aria-expanded" attribute set to "false" by default, which changes to "true" when the dropdown is opened, and back to "false" when closed.	No	0	0	

#	Element	Relevant	Successes	Failures	Score
18	Images should have an alternative text description that describes both the objects and the embedded text that the image contains, using the "alt" attribute.	Yes	7	0	100

Code snapshots of successful elements

```
1 
```

```
2 
```

```
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```
4 
```

```
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```

```
7 
```

#	Element	Relevant	Successes	Failures	Score
19	Background images that are not just for decoration purposes should have the same treatment as standard images. They should include a role="img" attribute and an alternative text description using an "aria-label" attribute.	No	0	0	

#	Element	Relevant	Successes	Failures	Score
20	Font icons, SVGs, or images used as spacers, decorations, or when their purpose is already described by other content, should include a role="presentation" or role="none" attribute.	No	0	0	

#	Element	Relevant	Successes	Failures	Score
21	Figure elements used to display images should have a role="none" attribute, and the image itself should provide a description using the "alt" attribute.	No	0	0	

#	Element	Relevant	Successes	Failures	Score
22	Each "area" element within a map tag should have an "alt" attribute that provides an alternative text description, similar to standard images.	No	0	0	

#	Element	Relevant	Successes	Failures	Score
23	Small or hidden tracking pixel images (used for analytics or marketing) should include a role="none" or role="presentation" attribute to exclude them from screen-readers.	No	0	0	

#	Element	Relevant	Successes	Failures	Score
24	Form fields should include either an "aria-label" attribute or an associated "label" element to describe the field's purpose (e.g., email, phone, name).	Yes	2	0	100

Code snapshots of successful elements

```
1 <select name="Topic" id="topic" class="form-select"><option value="0" >Select a topic</option><option value="1" >Chemistry: The Central Science</option><option value="2" >Matter and Measurement</option><option value="3" >Atoms and Molecules</option><...
```

```
2 <select name="type" id="type" class="form-select"> <option value="" >Select a type</option> <option value="Quiz" >Quiz</option> <o...
```

#	Element	Relevant	Successes	Failures	Score
25	Form elements must have unique IDs to ensure that their corresponding labels provide accurate information.	No	0	0	

#	Element	Relevant	Successes	Failures	Score
26	Required form fields should include <code>aria-required="true"</code> to inform screen-reader users of the field's validation.	No	0	0	

#	Element	Relevant	Successes	Failures	Score
27	The validity status of each form element must be represented using the <code>aria-invalid</code> attribute with <code>"true"</code> or <code>"false"</code> values, and should update dynamically as the status changes.	No	0	0	

#	Element	Relevant	Successes	Failures	Score
28	<code>aria-describedby</code> and <code>aria-labelledby</code> attributes should reference the ID of an element that either has a text description or an <code>aria-label</code> attribute.	No	0	0	

#	Element	Relevant	Successes	Failures	Score
29	All forms should include a submission button built as an input type="submit" or a "button" element, or have a role="button" attribute. The button can be hidden if the form supports submission via the Enter key.	Yes	Pass	-	100

Code snapshots of successful elements

```
1 <form onsubmit="return false;"> <div class="d-flex gap-1 align-end"> <div class="w-50"> <label for="topic" class="form-label">Topic <span>*</span></label>...</div>
```

#	Element	Relevant	Successes	Failures	Score
30	Search forms should include a role="search" attribute or be wrapped in an element with this role to indicate a search landmark for screen-readers.	No	0	0	

#	Element	Relevant	Successes	Failures	Score
31	The title tag in the head section should be present and describe the current webpage accurately. This title appears in the browser tab, search engine results, and helps screen-reader users understand the page's content.	Yes	-	Fail	0

#	Element	Relevant	Successes	Failures	Score
32	The HTML tag should include a "lang" attribute representing the main language of the webpage to help screen-readers provide accurate pronunciation.	Yes	Pass	-	100

Code snapshots of successful elements

```
1 <html lang="en"><head> <meta charset="UTF-8"> <meta name="viewport" content="width=device-width, initial-scale=1.0"> <meta name="description" content="ChemVantage is an LTI app that works with yur LMS for teaching and learning college-lev...
```

#	Element	Relevant	Successes	Failures	Score
33	The viewport meta tag should enable vision-impaired users to pinch-zoom to at least twice the standard size by including user-scalable="yes" and maximum-scale=2 (or higher) in the content attribute.	Yes	Pass	-	100

Code snapshots of successful elements

```
1 <meta name="viewport" content="width=device-width, initial-scale=1.0">
```


#	Element	Relevant	Successes	Failures	Score
34	Landmarks like main content and footer should use their corresponding HTML5 elements (<main>, <footer>) or include an "aria-label" and "role" attribute (e.g., role="main" or role="contentinfo"). Landmarks like search and navigation are covered elsewhere.	Yes	3	0	100

Code snapshots of successful elements

```
1 <main id="main"> <section id="home" class="webpage-heroarea webpage-section"> <div class="chemistry-icon left">  </div> <div class="container"> <...
```

```
2 <footer> <div class="container"> <div class="d-flex footer-content justify-between align-center"> <div class="w-40" > <ul class="social" > <!-- <li> ...
```

#	Element	Relevant	Successes	Failures	Score
35	Font sizes should be at least 11px to ensure readability across most font families. This requirement should also be verified when using dynamic units like REM or percentages.	Yes	Pass	-	100

#	Element	Relevant	Successes	Failures	Score
36	Letter spacing should not be set below -1px to maintain readability across most font families. This should also be verified when using dynamic units like REM or percentages.	Yes	Pass	-	100

#	Element	Relevant	Successes	Failures	Score
37	Text elements should meet a minimum contrast ratio of 4.5:1 between the foreground (text color) and the background.	Yes	69	2	97

Code snapshots of successful elements

```
1 <a href="#main" class="skip-to-main-content-link" >Skip to main content</a>
```

```
2 <a href="./index.html" class="nav-link" >Home</a>
```

```
3 <a href="./about.html" class="nav-link" >About Us</a>
```

```
4 <a href="#placement" class="nav-link" >Placement Exam</a>
```

```
5 <a href="#assignments" class="nav-link" >Assignments</a>
```

```
6 <a href="#pricing" class="nav-link" >Pricing</a>
```

```
7 <button onclick="Calendly.showPopupWidget('https://calendly.com/chemvantage/install-chemvantage');" class="btn btn-two" > Schedule a Setup </button>
```

```
8 <h1 style="color:#000080;">ChemVantage</h1>
```

```
9 <h2 style="font-size: 1em">An Open Educational Resource for General Chemistry</h2>
```

```
10 <p> <b>ChemVantage</b> was founded in 2010 on the idea that the most effective learning takes place during repeated intermittent engagement with the subject material. Our LTI app connects to your class LMS and ...
```

Code snapshots of failed elements

```
1 <span>*</span>
```

#	Element	Relevant	Successes	Failures	Score
38	Carousels should include an "aria-label" attribute (e.g., carousel or slider) to indicate their functionality. They should also be marked as a landmark for screen-readers with a role="contentinfo" attribute.	No	0	0	

#	Element	Relevant	Successes	Failures	Score
39	Control elements such as next and previous icons should include an "aria-label" attribute or a screen-reader only text that explains the functionality to screen-readers.	No	0	0	

#	Element	Relevant	Successes	Failures	Score
40	A common accessibility mistake is treating carousels as live regions using the "aria-live attribute" with "polite" or "assertive" values. This can cause screen readers to cut off or skip important announcements.	No	0	0	

#	Element	Relevant	Successes	Failures	Score
41	Carousel pagination items (usually used as small dots at the bottom of the carousel) should indicate their functionality and slide number they control using an "aria-label" and a screen-reader only text.	No	0	0	

#	Element	Relevant	Successes	Failures	Score
42	Tables used for layout purposes should include a role="presentation" attribute to indicate to screen-readers that it is not a data table.	No	0	0	

#	Element	Relevant	Successes	Failures	Score
43	If nested tables are used (a table element within a table cell), set the nested tables "role" attribute to "presentation".	No	0	0	

#	Element	Relevant	Successes	Failures	Score
44	Tables without a thead row containing th elements should use the role="rowheader" attribute on td elements in the tr that visually represent the table headings.	No	0	0	

#	Element	Relevant	Successes	Failures	Score
45	Visually deleted texts (e.g., a previous price on sale items) should include an "aria-label" attribute or a screen-reader only text to indicate that it is deleted.	No	0	0	

#	Element	Relevant	Successes	Failures	Score
46	The main element of breadcrumbs should include a role="navigation" attribute and an "aria-label" to describe its functionality.	No	0	0	

#	Element	Relevant	Successes	Failures	Score
47	Ratings/scores that are represented visually using stars, meters or other indicators should either have an "aria-label" attribute or a screen-reader only texts conveying the score/rate.	No	0	0	

#	Element	Relevant	Successes	Failures	Score
48	An accessibility interface allows visually-impaired users to adjust UI elements like font size, colors, and spacing to suit their needs. While not a compliance requirement, it can help improve accessibility compliance.	No	0	0	

#	Element	Relevant	Successes	Failures	Score
49	Iframe elements should include a "title" or "aria-label" attribute that explains their purpose, functionality, or destination. If irrelevant, they should be hidden from screen readers.	No	0	0	

This audit is subject to the [terms of service](#)