



Section 508 Checklist

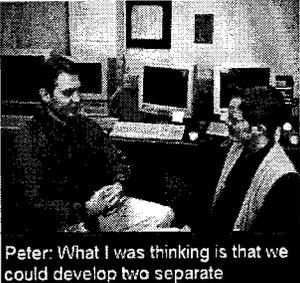
The following standards are excerpted from Section 508 of the Rehabilitation Act, §1194.22. The pass/fail criteria in this document represent an interpretation of Section 508

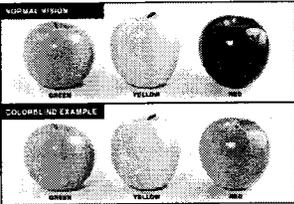
web standards. *For the full text of Section 508, please see the Official government 508 web site:*

<http://www.epa.gov/inter508/basic-info.htm#508>.

508 STANDARD	PASS	FAIL				
<p>(a) A text equivalent for every non-text element shall be provided (e.g., via "alt", "longdesc", or in element content).</p>	<p>Decorative graphics or CSS background images have null/empty alt values (<i>alt=""</i>). Images with text alternatives in element content are given empty alt text to avoid redundancy.</p> <p style="text-align: center;">Content text here.</p> <p style="text-align: center;">----- ❄ -----</p> <p style="text-align: center;">Footer text here.</p> <p style="text-align: center;"><i>empty alt attribute (alt="") is acceptable.</i></p>	<p>Decorative graphics have alternatives of "spacer", "decorative graphic," or other extraneous text. Graphics have alt text that is redundant with adjacent text.</p>				
	<p>Complex graphics (graphs, charts, etc.) are accompanied by equivalent text, either through a description in the body of the page, a link to a description on a separate page, and/or the <i>longdesc</i> attribute.</p> <table border="1" style="width: 100%;"> <tr> <td style="text-align: center; width: 50%;"> <p>YES</p>  </td> <td style="text-align: center; width: 50%;"> <p>NO</p>  </td> </tr> <tr> <td style="width: 50%;"> <p>Alt tag = "George Washington"</p> </td> <td style="width: 50%;"> <p>alt=" Because of his role as the Commander in Chief of American forces in the Revolutionary War, and, later, the first President of the United States, George Washington is often called the "Father of his Country". "</p> </td> </tr> </table> <p style="text-align: center;"><i>Every image that presents content must have an alt attribute.</i></p>	<p>YES</p> 	<p>NO</p> 	<p>Alt tag = "George Washington"</p>	<p>alt=" Because of his role as the Commander in Chief of American forces in the Revolutionary War, and, later, the first President of the United States, George Washington is often called the "Father of his Country". "</p>	<p>Complex graphics have no alternative text or the alternative does not fully convey the content of the graphic.</p>
	<p>YES</p> 	<p>NO</p> 				
	<p>Alt tag = "George Washington"</p>	<p>alt=" Because of his role as the Commander in Chief of American forces in the Revolutionary War, and, later, the first President of the United States, George Washington is often called the "Father of his Country". "</p>				
	<p>Images that have a function (images within links, image buttons, and image map areas) have alternative text which describes the associated function.</p> <p>Screen readers will read:</p> <ul style="list-style-type: none"> – the alt text of images, if alt text is present. – ignore images without alt text and say nothing, but users can set their preferences to read the file name. – the link destination (the href attribute in the HTML markup) if alt attribute (<i>alt=""</i>). <div style="border: 1px solid black; padding: 2px; text-align: center;"> <p>ons Products support</p> </div> <p style="text-align: center;">Sample of a navigation bar</p>	<p>Alternative texts for linked images, image buttons, or hot spots are not descriptive of the function.</p>				
<p>Every image, applet, embedded media, plug-in, etc. that conveys content has equivalent <i>alternative text</i> (<i>alt</i>, <i>longdesc</i>, or in the element context).</p>	<p>A non-text element has no alt or text description or the description is not equivalent, or is not described in the adjacent text.</p>					
<p>Transcripts are provided for audio content.</p>	<p>Audio does not have transcripts.</p>					

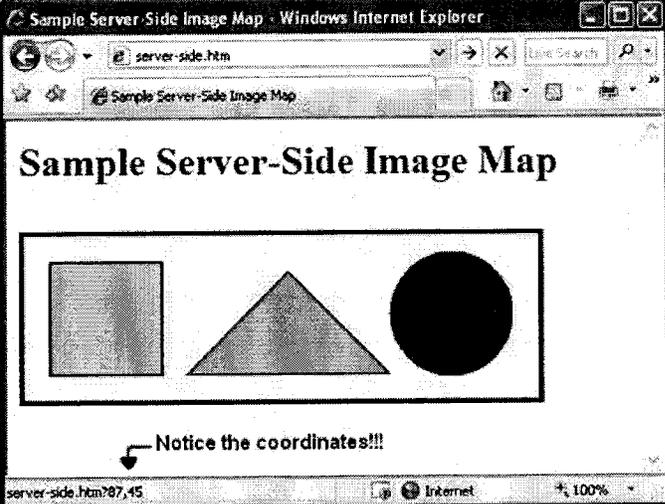


508 STANDARD	PASS	FAIL
<p>(b) Equivalent alternatives for any multimedia presentation shall be synchronized with the presentation.</p>	<p>Video files and live audio broadcasts have <i>synchronized captions</i>.</p> <p style="text-align: center;">Captions as seen in Windows Media Player</p> 	<p>Video files or live audio broadcasts do not have captions or captions are not synchronized.</p>
	<p>Content presented through video, but not through audio is provided in an audio description track.</p>	<p>Audio descriptions are not provided for visual-only content in multimedia.</p>

508 STANDARD	PASS	FAIL
<p>(c) Web pages shall be designed so that all information conveyed with color is also available without color, for example from context or markup.</p>	<p>Colors are not your only method of conveying important information. An individual who is color-blind views reds and greens as a similar color.</p>  <p style="text-align: center;">Solutions</p> <p>Change the graphic or provide an additional means of obtaining the same information.</p> <div style="display: flex; justify-content: space-around;"> <div> <p style="text-align: center;">NO</p>  </div> <div> <p style="text-align: center;">YES</p>  </div> </div>	<p>Color is the sole means of conveying information.</p>



508 STANDARD	PASS	FAIL
<p>(d) Documents shall be organized so they are readable without requiring an associated style sheet.</p>	<p>Style sheets may be used for layout, but the document is still readable and understandable when the style sheet is turned off.</p> <p>FONTS EMBEDDING: Modern browsers allow font embedding to maintain readability. Verdana, Tahoma, Trebuchet MS, and Georgia, were developed specifically for use in electronic media, and are now quite commonly used.</p>	<p>The document is confusing or information is missing when the style sheet is turned off.</p>

508 STANDARD	PASS	FAIL
<p>(e) Redundant text links shall be provided for each active region of a server-side image map.</p>	<p>Client-side image maps are used instead of server-side image maps. Appropriate alternative text is provided for the image as well as each hot spot area.</p> <p>Here is a sample screen shot of a server-side image map in action:</p>  <p>Notice the arrow pointing to the coordinates in the bottom left of the status bar; these coordinates let you know the type of map this is.</p>	<p>Server side image maps or inaccessible client-side image maps are present.</p> <p>Server-Side Image Map—</p> <p>AVOID:</p> <pre></pre> <p>* Note that this code does not allow for any ALT or TITLE tags to be included.</p>
<p>(f) Client-side image maps shall be provided instead of server-side image maps except where the regions cannot be defined with an available geometric shape.</p>		



508 STANDARD	PASS	FAIL															
<p>(g) Row and column headers shall be identified for data tables.</p>	<p>Screen readers announce the page title (the <title> attribute in the HTML markup).</p> <p><i>Data tables</i> have column and/or row headers appropriately identified (using the <th> element).</p> <p>Consider this table with both row and column headers:</p> <table border="1"> <thead> <tr> <th colspan="3">Student Academic Level and Program.</th> </tr> <tr> <th>Student</th> <th>Academic Level</th> <th>Current Program</th> </tr> </thead> <tbody> <tr> <td>Lori Badia</td> <td>M.A. completed</td> <td>Ph.D. English</td> </tr> <tr> <td>Susan Bailey</td> <td>B.S. completed</td> <td>M.B.A.</td> </tr> <tr> <td>Alicia Baker</td> <td>B.A., in progress</td> <td>Dept. of Education</td> </tr> </tbody> </table> <p>Here is the code used to define this table, including headers:</p> <pre> <table width="90%" border="2" id="datatable" summary="This table contains information on student programs. Each row lists the student name, academic level completed to date, and current program enrolled."> <tr> <th scope="col"><p>Student</p></th> <th scope="col"><p>Academic Level</p></th> <th scope="col"><p>Current Program</p></th> </tr> <tr class="smallesttxt"> <th scope="row"><p>Lori Badia</p></th> <td><p>M. A. completed</p></td> <td><p>Ph. D. English</p></td> </tr> <tr class="smallesttxt"> <th scope="row"><p>Susan Bailey</p></th> <td><p>B. S. completed</p></td> <td><p>M. B. A.</p></td> </tr> <tr class="smallesttxt"> <th scope="row"><p>Alicia Baker</p></th> <td><p>B. A., in progress</p></td> <td><p>Dept. of Education</p></td> </tr> </table> </pre> <p>As a screen-reader, like JAWS, reads this table, each data cell can be identified by either row or column header. For instance, when reading across row two, JAWS reads the row header: "Student Lori Badia, academic level, M.A. completed; current program, Ph.D. English."</p> <p>When reading down, JAWS reads the row header for each cell. For instance, when reading column three: "Lori Badia, Ph.D. English; Susan Bailey, M.B.A., Alicia Baker, Dept. of English."</p> <p>Row and column headers are required for any data table of two or more rows.</p>	Student Academic Level and Program.			Student	Academic Level	Current Program	Lori Badia	M.A. completed	Ph.D. English	Susan Bailey	B.S. completed	M.B.A.	Alicia Baker	B.A., in progress	Dept. of Education	<p>Data tables have no header rows or columns.</p>
Student Academic Level and Program.																	
Student	Academic Level	Current Program															
Lori Badia	M.A. completed	Ph.D. English															
Susan Bailey	B.S. completed	M.B.A.															
Alicia Baker	B.A., in progress	Dept. of Education															



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<p>(h) Markup shall be used to associate data cells and header cells for data tables that have two or more logical levels of row or column headers.</p>	<p>Data table cells are associated with the appropriate headers using the <i>scope</i> or <i>id/headers</i> attributes.</p> <p><i>See previous example of highlighted code for scope attribute example.</i></p> <p>The scope attribute tells the browser and screen reader that everything under the column is related to the header at the top, and everything to the right of the row header is related to that header.</p>	<p>Data table cells are not associated with column and/or row headers or they are associated incorrectly.</p>

508 STANDARD	PASS	FAIL
<p>(i) Frames shall be titled with text that facilitates frame identification and navigation.</p>	<p>Each <i>frame</i> is given a title that describes the frame's purpose or content.</p>	<p>Frames have no <i>title</i> or a <i>title</i> that is not descriptive of the frame's purpose or content.</p>

508 STANDARD	PASS	FAIL
<p>(j) Pages shall be designed to avoid causing the screen to flicker with a frequency greater than 2 Hz and lower than 55 Hz.</p>	<p>No element on the page flashes at a rate of 2 to 55 cycles per second, thus reducing the risk of optically-induced <i>seizures</i>.</p>	<p>One or more elements on the page flicker at a rate of 2 to 55 cycles per second, increasing the risk of optically-induced seizures.</p>

508 STANDARD	PASS	FAIL
<p>(k) A text-only page, with equivalent information or functionality, shall be provided to make a web site comply with the provisions of this part, when compliance cannot be accomplished in any other way. The content of the text-only page shall be updated whenever the primary page changes.</p>	<p>A <i>text-only version</i> is created only when there is no other way to make the content accessible or when it offers significant advantages over the main version for certain disability types.</p>	<p>A text-only version is provided when the main version is not accessible, but could be made fully accessible.</p>
	<p>The text-only version provides equivalent content and is up-to-date with the main version.</p>	<p>The text-only version is not equivalent to or up-to-date with the main version.</p>



508 STANDARD	PASS	FAIL
<p>(l) When pages utilize scripting languages to display content, or to create interface elements, the information provided by the script shall be identified with functional text that can be read by assistive technology.</p>	<p>Content and functionality provided by scripting is directly accessible to assistive technologies and the keyboard. <i><noscript></i> content does not constitute a suitable alternative to inaccessible scripting.</p> <p><i>Test pages with JavaScript turned off.</i></p>	<p>Content and functionality provided by scripts only work with a mouse or cannot be accessed by assistive technologies.</p>

508 STANDARD	PASS	FAIL
<p>(m) When a web page requires that an applet, plug-in or other application be present on the client system to interpret page content, the page must provide a link to a plug-in or applet that complies with §1194.21(a) through (l).]</p>	<p>A link is provided to a page where the plug-in can be downloaded.</p>	<p>No link is provided to a page where the plug-in can be downloaded.</p>
	<p>All applets, scripts and plug-ins (including PDF and PowerPoint files, etc.) and the content within them are accessible to assistive technologies, or else an alternative means of accessing equivalent content is provided.</p>	<p>Inaccessible plug-ins, scripts, and other applications are used without providing an accessible alternative.</p>

508 STANDARD	PASS	FAIL
<p>(n) When electronic forms are designed to be completed on-line, the form shall allow people using assistive technology to access the information, field elements, and functionality required for completion and submission of the form, including all directions and cues.</p>	<p><i><input></i>, <i><textarea></i>, and <i><select></i> elements have <i>label</i> elements associated with them in the markup or are given a descriptive <i>title</i> attribute.</p>	<p>There is no association between the form element and its label.</p>
	<p>Scripting of form elements does not interfere with assistive technologies or keyboard.</p>	<p>Scripting makes parts of the form unavailable to assistive technologies or keyboard users.</p>

508 STANDARD	PASS	FAIL
<p>(o) A method shall be provided that permits users to skip repetitive navigation links.</p>	<p>A link is provided to <u>skip over</u> navigational menus or other lengthy lists of links. A good heading structure also facilitates navigation.</p>	<p>There is no way to skip over repetitive lists of links.</p>
<p>(p) When a timed response is required, the user shall be alerted and given sufficient time to indicate more time is required.</p>	<p>The user has control over the timing of content changes.</p>	<p>The user is required to react within limited time constraints.</p>