**SDK HTML 508 Checklist**

| **Checkpoint** | **Criteria** | **Pass** | **Fail** | **N/A** | **Estimate** |
| --- | --- | --- | --- | --- | --- |
| A:  Text Equivalents | Checkpoint A Text Equivalents validation procedure followed:  http://www.tomjewett.com/accessibility/508-eval.html#cpa |  |  |  |  |
| A1 | Do images that convey contextual content have equivalent alternative text specified in the alt attribute of the img element?  Images within the generated SDK application are limited to the caCORE SDK logo, as well as HHS, NIH, NCI, FirstGov logo’s in footer. All have Alt texts. | **X** |  |  |  |
| A2 | Do images that are purely decorative, and not contextual, have empty, or null, alternative text specified, e.g. alt=""?  As shown below, the Domain Browser tree spacer image nodes are purely decorative, and not contextual, and they are missing an empty, or null, alternative text attribute: |  | **X** |  | **Part of the 1-2 Week Effort to replace the tree** |
| A3 | Does the alternate text convey contextual relevance to the page it is on?  Images within the generated SDK application are limited to the caCORE SDK logo, as well as HHS, NIH, NCI, FirstGov logo’s within the header and footer. All have appropriate Alt texts; however, the images are not really relevant to contextual page content. |  |  | **X** |  |
| A4 | Do images that convey complex content have longdesc attributes or equivalent text content available elsewhere on the page?  No images conveying complex content found within the generated SDK application. |  |  | **X** |  |
| A5 | Does text content contained in images disappear when images are not available, i.e. is there text contained in the images? Best practice: minimize the amount of text contained in images; use CSS for typography instead.  Images within the generated SDK application are limited to the caCORE SDK logo, as well as HHS, NIH, NCI, FirstGov logos within the header and footer.  Note: While the images do contain text that disappears, the images are not deemed to provide contextual information. Also, these logos are standard within the HHS community, and probably should not be replaced with “non-text” versions. |  |  | **X** |  |
| A6 | Do image map area elements have the link destination correctly titled? If the title attribute is used, it ought not to duplicate the alt text.  No image maps found within the application. |  |  | **X** |  |
| A7 | Do form non-text controls, e.g. input type image, provide a text alternative that identifies the purpose of the non-text control?  No input type, non-text controls found within the application. |  |  | **X** |  |
| A8 | Do noframes elements have appropriate equivalent or alternative content for user agents that do not support frames?  No noframes elements found within the application. |  |  | **X** |  |
| B: Multimedia Equivalents | Checkpoint B Multimedia Equivalents validation procedure followed:  http://www.tomjewett.com/accessibility/508-eval.html#cpb |  |  |  |  |
| B1 | Is a full text transcript provided for all prerecorded audio? |  |  | **X** |  |
| B2 | Is a full text transcript provided for all prerecorded video? |  |  | **X** |  |
| B3 | Are open or closed captions provided for all synchronized video? |  |  | **X** |  |
| B4 | Is fully synchronized text alternative or sound track provided for all video interaction that is not otherwise described? |  |  | **X** |  |
| C:  Color | Checkpoint C Color validation procedure followed:  http://www.tomjewett.com/accessibility/508-eval.html#cpc |  |  |  |  |
| C1 | Is information conveyed by color also conveyed by context, markup, graphic coding, or other means?  Yes. For instance, selected menu tab has a different color than all of the other tabs, and the page title matches the menu tab text. | **X** |  |  |  |
| C2 | Does a contrast ratio of at least 4.5:1 exist between text, and images of text, and background behind the text?  Text on pages is rendered using hex color #000000, which is black. The contrast ratio for this color is above 20:1: | **X** |  |  |  |
| C3 | Is a correct contrast ratio maintained when images are not available?  Yes, checked by disabling all images within FireFox. | **X** |  |  |  |
| C4 | Is a correct contrast ratio maintained when CSS is disabled?  Yes; checked by disabling CSS within FireFox. | **X** |  |  |  |
| C5 | Are links distinguished from surrounding text with sufficient color contrast and is additional differentiation provided when the link receives focus, e.g. it becomes underlined?  Domain Class Browser links neither provide a color contrast, nor is additional differentiation provided when the link receives focus, as shown below: |  | **X** |  | **Part of the 1-2 Week Effort to replace the tree** |
| D:  Styles | Checkpoint D Styles validation procedure followed:  http://www.tomjewett.com/accessibility/508-eval.html#cpd |  |  |  |  |
| D1 | With CSS disabled, is color and font information rendered in the browser's default CSS?  Yes; checked by disabling CSS within FireFox. | **X** |  |  |  |
| D2 | With CSS disabled, are headings, paragraphs, and lists obvious and sensible?  Yes; checked by disabling CSS within FireFox. | **X** |  |  |  |
| D3 | With CSS disabled, does the order of the page content make sense as read?  Yes; checked by disabling CSS within FireFox. | **X** |  |  |  |
| D4 | With CSS disabled, is most text, other than logos and banners, rendered in text rather than images?  Yes; checked by disabling CSS within FireFox. | **X** |  |  |  |
| D5 | With CSS disabled, does any content that was invisible before stay invisible?  Yes; checked by disabling CSS within FireFox. | **X** |  |  |  |
| D6 | With CSS disabled, is any content or functionality provided by the CSS through mouse action also provided through keyboard-triggered event handlers?  Did not observe any content or functionality by the CSS through mouse action. |  |  | **X** |  |
| D7 | When tables are used for layout, does the content linearize properly when layout tables are turned off?  Yes; checked Search Results table accessed when searching from the Criteria page. | **X** |  |  |  |
| E:  Server- Side Image Maps | Checkpoint E Server- Side Image Maps validation procedure followed:  http://www.tomjewett.com/accessibility/508-eval.html#cpe |  |  |  |  |
| E1 | Are links in server-side image maps repeated elsewhere in the page that are non-graphical, e.g. a normal list of links?  No server-side image maps observed within the application. |  |  | **X** |  |
| F:  Client-Side Image Maps | Checkpoint F Client-Side Image Maps validation procedure followed:  http://www.tomjewett.com/accessibility/508-eval.html#cpf |  |  |  |  |
| F1 | Are client-side image maps used instead of server-side image maps?  No client-side image maps observed within the application. |  |  | **X** |  |
| F2 | Do client-side image maps have appropriate alternative text for the image, as well as each hot spot region?  No client-side image maps observed within the application. |  |  | **X** |  |
| G:  Simple Tables | Checkpoint G Simple Tables validation procedure followed:  http://www.tomjewett.com/accessibility/508-eval.html#cpg |  |  |  |  |
| G1 | For tables containing data, do th elements appropriately define every row and/or every column headers?  Yes; checked Search Results table accessed from the Criteria Search page, and header row contains th elements, as shown below:  <th align="center" class="dataTableHeader" scope="col">id</th> | **X** |  |  |  |
| G2 | For tables containing data, do th elements contain the scope attribute for row and/or column headers that are not logically placed, e.g. in the first row and first column as applicable?  Yes; checked Search Results table accessed from the Criteria Search page, and each header row th element contains scope=”col” attribute, as shown below:  <th align="center" class="dataTableHeader" scope="col">id</th> | **X** |  |  |  |
| G3 | For tables containing data, is the summary attribute used to explain the meaning of the table if it is not otherwise evident from context?  Yes. While the summary attribute is NOT used to explain the meaning of the search results table, the meaning IS evident from context. | **X** |  |  |  |
| G4 | For tables that are used for layout, are th elements or summary, headers, scope, abbr, or axis attributes NOT used at all?  No. Most tables used for layout specify the summary=”” attribute, when this attribute should be omitted altogether:  <table width="100%" height="100%" cellspacing="0" cellpadding="0" border="0" summary=""> |  | **X** |  | **1-2 Hours** |
| H:  Complex Tables | Checkpoint H Complex Tables validation procedure followed:  http://www.tomjewett.com/accessibility/508-eval.html#cph |  |  |  |  |
| H1 | For complex tables, do th elements appropriately define row and/or column headers?  No complex data tables observed within the application. |  |  | **X** |  |
| H2 | For complex tables, does each th element contain an id attribute unique to the page and/or does each th element and any td element that acts as a header for other elements contain a scope attribute of row, col, rowgroup, or colgroup?  No complex data tables observed within the application. |  |  | **X** |  |
| H3 | For complex tables, does any td element that is associated with more than one th element contain a headers attribute that lists the id attribute for all headers associated with that cell?  No complex data tables observed within the application. |  |  | **X** |  |
| H4 | Are the summary attribute and thead and tbody elements used to clarify the table meaning and structure if needed?  No complex data tables observed within the application. |  |  | **X** |  |
| I:  Frames | Checkpoint I Frames validation procedure followed:  http://www.tomjewett.com/accessibility/508-eval.html#cpi |  |  |  |  |
| I1 | Does each frame and iframe element have a meaningful title attribute?  No frame or iframe elements observed within the application. |  |  | **X** |  |
| I2 | Does the page have equivalent content in a noframes element for user agents that do not support frames?  No frame or iframe elements observed within the application. |  |  | **X** |  |
| J:  Flicker | Checkpoint J Flicker validation procedure followed:  http://www.tomjewett.com/accessibility/508-eval.html#cpj |  |  |  |  |
| J1 | Does any page element NOT flicker at an unhealthy rate, e.g. less than three flashes per second?  No flickering page elements observed within the application. |  |  | **X** |  |
| J2 | Does any page NOT contain the marquee and blink elements?  No flickering page elements observed within the application. |  |  | **X** |  |
| K:  Text Only | Checkpoint K Text Only validation procedure followed:  http://www.tomjewett.com/accessibility/508-eval.html#cpk |  |  |  |  |
| K1 | Does a document have a text-only version? If so, does it meet all Section 508 criteria?  A single version of each web page is provided; there is no “text-only” version provided. |  |  | **X** |  |
| K2 | Does the text-only version contain the same exact information as the original document?  A single version of each web page is provided; there is no “text-only” version provided. |  |  | **X** |  |
| K3 | Does the text-only version provide the functionality equivalent to that of the original document?  A single version of each web page is provided; there is no “text-only” version provided. |  |  | **X** |  |
| K4 | Is an alternative provided for components, e.g. plug-ins & scripts, which are not directly accessible?  A single version of each web page is provided; there is no “text-only” version provided. |  |  | **X** |  |
| L:  Scripts | Checkpoint L Scripts validation procedure followed:  http://www.tomjewett.com/accessibility/508-eval.html#cpl |  |  |  |  |
| L1 | Is any content or functionality provided by JavaScript through mouse action also provided through keyboard-triggered event handlers?  No. While menu and page links are navigable using solely keyboard-triggered events, the domain browser tree cannot be navigated using only the keyboard. Disabling javascript causes the tree to no longer be navigable as well, even when the mouse is used. |  | **X** |  | **Part of the 1-2 Week Effort to Replace the Tree** |
| L2 | Are link-type behaviors created with JavaScript on ONLY focusable elements?  No; Javascript is used to implement tree node “links”. These “links” do not have a tabindex, and thus cannot receive focus using just the tab key, or using the mouse when javascript is disabled. |  | **X** |  | **Part of the 1-2 Week Effort to Replace the Tree** |
| L3 | If content or functionality provided by JavaScript can not be provided to assistive technology, is equivalent content or functionality provided without JavaScript? |  |  | **X** |  |
| M:  Applets and Plugins | Checkpoint M Applets and Plugins validation procedure followed:  http://www.tomjewett.com/accessibility/508-eval.html#cpm |  |  |  |  |
| M1 | Are links provided to any special readers or plug-ins that are required to interpret page content?  No application applets or plugins observed. |  |  | **X** |  |
| M2 | Do special readers or plug-ins comply with the requirements of Section 508 paragraphs §1194.21(a)-(l)?  No application applets or plugins observed. |  |  | **X** |  |
| N:  Forms | Checkpoint N validation procedure followed:  http://www.tomjewett.com/accessibility/508-eval.html#cpn |  |  |  |  |
| N1 | Does each appropriate input element or form control have an associated and visible label element or title attribute?  Yes, this was recently fixed within SDK 4.5, and will be ported to SDK 4.4.1 as well. | **X** |  |  |  |
| N2 | Are all cues for filling out the form available to users of assistive technology, e.g. mandatory fields, help boxes, error messages?  Yes; mandatory fields have ‘\*’ next to them, and validation and general error messages are displayed when required. | **X** |  |  |  |
| N3 | Is the tab order to reach the form and the tab order between form elements logical and consistent with the normal and visual order of entering form data?  Yes; where tested, the tab order to reach the form and the tab order between elements are both logical and consistent with the normal and visual order of entering form data. However, bringing up the Criteria page cannot be done using just keyboard events. | **X** |  |  |  |
| N4 | Are logically-related groups of form elements identified with appropriate fieldset and legend elements?  No grouped form elements observed within the application. |  |  | **X** |  |
| N5 | Is placeholder text, if used, NOT redundant or distracting to users of assistive technology?  No placeholder text observed within the application. |  |  | **X** |  |
| N6 | Do form error messages identify the error(s) to the user and describe them to the user in text?  Yes; error messages are specific and descriptive. | **X** |  |  |  |
| O:  Skip Links | Checkpoint O Skip Links validation procedure followed:  <http://www.tomjewett.com/accessibility/508-eval.html#cpo>. See also <http://webaim.org/techniques/skipnav/> for a discussion of various skip logic techniques. |  |  |  |  |
| O1 | If repetitive navigation links are at the beginning of the source of the HTML page, can a user navigate via a link, the “skip link”, at the top of each page directly to the main content area?  Yes, “skip link” functionality is provided within the application:  <td width="1"><!-- anchor to skip main menu --><a href="#content"><img src="images/shim.gif" alt="Skip Menu" width="1" height="1" border="0" /></a></td> | **X** |  |  |  |
| O2 | If a “skip link” is provided, does the anchor element contain text content that is visible with CSS disabled?  No; a skip link is provided; however, the anchor element uses a shim.gif, without text, and this image is not visible when CSS is enabled or disabled. |  | **X** |  | **1-2 Hours** |
| O3 | If a “skip link” is provided and it is hidden with CSS, is it available to users of assistive technology, e.g. not using the display:none method?  A skip is provided; however, it is not hidden using CSS. |  |  | **X** |  |
| O4 | Can a user navigate over groups of links, between multiple groups of links, and between sections of the page content by means of section headings or visible and audible local links?  Yes, a user can navigate over the menu using the skip link. However, it is not visible. Tabbing to it and clicking enter works. However, the skip link is not readily visible. |  | **X** |  | **1-2 Hours** |
| O5 | Are heading elements used to convey logical hierarchy and denote the beginning of each section of content?  Yes; heading elements, such as <h1>, <h2>, are used throughout the application pages: | **X** |  |  |  |
| P:  Timed Response | Checkpoint P Timed Response validation procedure followed:  http://www.tomjewett.com/accessibility/508-eval.html#cpn |  |  |  |  |
| P1 | Is enough time provided to allow users to read and interact with content?  No timed response mechanism (other than the common session timeout) observed within the application. |  |  | **X** |  |
| P2 | Is the functionality of the content predictable, i.e. will a user experience contextual changes when unbeknownst to them?  No timed response mechanism (other than the common session timeout) observed within the application. |  |  | **X** |  |
| P3 | Does the user have control over the timing of content changes?  No timed response mechanism (other than the common session timeout) observed within the application. |  |  | **X** |  |
| P4 | If a page or application has a time limit, is the user given options to turn off, adjust, or extend that time limit?  No timed response mechanism (other than the common session timeout) observed within the application. |  |  | **X** |  |
| P5 | Can automatically moving, blinking, or scrolling content that lasts longer than 3 seconds be paused, stopped, or hidden by the user?  No timed response mechanism (other than the common session timeout) observed within the application. |  |  | **X** |  |
| P6 | Can automatically updating content be paused, stopped, or hidden by the user or the user can manually control the timing of the updates, e.g. automatically redirecting or refreshing a page, a news ticker, AJAX updated field, a notification alert, etcetera?  No timed response mechanism (other than the common session timeout) observed within the application. |  |  | **X** |  |
| P7 | Can interruptions be postponed or suppressed by the user, e.g. alerts, page updates, etcetera?  No timed response mechanism (other than the common session timeout) observed within the application. |  |  | **X** |  |
| P8 | If an authentication session expires, can the user re-authenticate and continue the activity without losing any data from the current page?  No. For example, if the user enters information into a form, but does not submit the data, and the session expires, the user will need to re-enter the data within the form after logging back in. |  | **X** |  |  |