Accessibility Capture the Flag Error Key

Commonalities among whole site

* Bad font
  + Font-style
  + Font-family
* Terrible color contrast
  + Yellow background
  + Bright Red text
* Bad titles
* Inconsistent pages
  + Navbar in a different place on every page
* Non-responsive
  + Mobile and magnified views are terrible
* Broken links
  + Answer key link in navbar leads nowhere
* Non-distinguishable links
  + Link in footer does not visually indicate that it is a link
* Incorrect heading structure
* Incorrect document language
* Character encoding not declared
* Div tags without roles
* No skip to main link
* No Landmarks

Home Page

* Incorrect heading structure
* Screwed up tab order (using tab index)
* Decoration img have alt text
* Img with alt text that describes something unrelated
* Doc lang is french
* Instructions page can only be accessed through this page
* Indistinguishable and context-free link “Click here”

Hints Page

* Doc lang is Spanish
* Indistinguishable and context-free link “tools”
* Image with bad alt text “34543.png”
* Images in place of bullet points

Form Page

* Doc lang is hindi
* Accessible name does not match the displayed text/label for an interactive element.
  + <button aria-label="Click to Progress">Press for sparkles</button>
* “Press for sparkles” button opens a window in the background without notifying the user
  + The opened window closes after 9 seconds without notifying the user
* Bad HTML form
  + Radio buttons cannot be un-pressed
  + Both radio buttons can be pressed at the same time
  + Radio buttons have no label
  + Radio buttons not in a fieldset
  + Some misnamed and inappropriate values for inputs
  + Form inputs don’t have aria-labels
  + Enter button is 40 x 20 px;
  + Font size for enter button is too small
* PDF
  + Tagged Incorrectly
  + Bad reading order
  + Incorrect forms (form fields in table area)
  + Color contrast errors
  + Bad data table
  + Screwed up list
  + Artifact incorrectly tagged as figure

Gallery

* Only accessible through a link
* Cannot navigate back to the rest of the site
* No navbar
* Footer covers up part of the gallery
* Some of the images are also links
* Some of the images do not match the alt text
* Some alt text is not related to the image or page
* Some paragraphs do not match the images
* Repetitive multicolored background
* Text color that is difficult to read with the background
* Random tabindex values
* Empty heading tags

Sign Up Page

* Random tabindex values
* The whole page is flashing
* Bad text color for the background
* Different text color than the rest of the site
* Doc lang is Spanish
* Check box has no label
* Text fields have prepopulated values

Timeout Page

* Obtrusive javascript in body element
* Unformatted navbar
* No footer
* Unreasonable “timeout” function
  + Opens a new window every 3 seconds if button is not pressed
* Not very visible button to stop function
  + Relies on sight dependence
    - Must be able to see color and style
    - Color contrast between the button and other text is less than 3:1
* Images missing alt text
* Continuous timed alert
* Relies on ability to see image orientation to stop alert
* Unexplained, excessive abbreviations
* Audio autoplays and loops when the page loads
* The element that is used to stop the audio is reliant on ability to see shapes
* Mobile scaling is prevented
* Images are not keyboard accessible

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| --- | --- | --- | --- | --- |
| Error | Priority | Location | WCAG | Fix |
| Bad font style |  | Entire Site |  | Remove the font style property in the css pages.  Ex) font-style: oblique; |
| Bad font family |  | Entire Site |  | Assign an accessible font family in the css layout page.  Ex) font-family: "Comic Sans MS", cursive, sans-serif;  ->  font-family: Arial, Helvetica, sans-serif; |
| Terrible Color contrast | Medium | Entire Site | * [1.4.3: Contrast (Minimum)](https://www.w3.org/WAI/WCAG21/Understanding/contrast-minimum.html) * [G18 Technique](https://www.w3.org/WAI/WCAG21/Techniques/general/G18) * [G145 Technique](https://www.w3.org/WAI/WCAG21/Techniques/general/G145) | Make sure that background color and foreground text have a color contrast ratio of at least 4.5:1. |
| Bad Page Titles |  | Entire Site | * [2.4.2: Page Titled](https://www.w3.org/WAI/WCAG21/Understanding/page-titled.html) * [G88 Technique](https://www.w3.org/WAI/WCAG21/Techniques/general/G88) | Rename the page titles to something relevant to the page topic. (Using the <title> tags) |
| Inconsistent Pages |  | Entire Site | * [3.2.3: Consistent Navigation](https://www.w3.org/WAI/WCAG21/Understanding/consistent-navigation.html) * [G61 Technique](https://www.w3.org/WAI/WCAG21/Techniques/general/G61) | Position the navbar to be in the same place and look the same on each page. Make sure there is a footer on each page. |
| Non-responsive site |  | Entire Site | * [1.4.10: Reflow](https://www.w3.org/WAI/WCAG21/Understanding/reflow.html) * [C32 Technique](https://w3c.github.io/wcag/techniques/css/C32) |  |
| Broken links |  | Entire Site |  | Make sure every link leads somewhere. |
| Non-distinguishable links |  | Entire Site |  | Style the links so that they are underlined. |
| Incorrect heading structure | Low | Entire Site | * [2.4.10: Section Headings](https://www.w3.org/WAI/WCAG21/Understanding/section-headings) * [G141 Technique](https://www.w3.org/WAI/WCAG21/Techniques/general/G141) | Change the headings on each page so that they ascend in number as the heading size descends. |
| Incorrect document language | Low | Entire Site | * [3.1.1: Language of Page](https://www.w3.org/WAI/WCAG21/Understanding/language-of-page.html) * [H57 Technique](https://www.w3.org/WAI/WCAG21/Techniques/html/H57) | Assign English to the lang property in the html tags on each page. |
| Character encoding not declared |  | Entire Site |  |  |
| Div tags without roles |  | Entire Site |  |  |
| No “Skip to main” link | Medium | Entire Site | * [2.4.1: Bypass Blocks](https://www.w3.org/WAI/WCAG21/Understanding/bypass-blocks.html) * [G1 Technique](https://www.w3.org/WAI/WCAG21/Techniques/general/G1) |  |
| No landmarks | Low | Entire Site |  |  |
| Images with incorrect alt text | High | Entire Site | * [1.1.1: Non-text Content](https://www.w3.org/WAI/WCAG21/Understanding/non-text-content.html) * [H37 Technique](https://www.w3.org/WAI/WCAG21/Techniques/html/H37) | Make sure all images not used for decoration have relevant and descriptive alt text. Images that are for decoration should have no alt text. |
| Screwed up tab order | High | Home |  | Remove tab index values. |
| Instructions page can only be accessed through the home page |  | Home | * [2.4.5: Multiple Ways](https://www.w3.org/WAI/WCAG21/Understanding/multiple-ways.html) * [G125 Technique](https://www.w3.org/WAI/WCAG21/Techniques/general/G125) | Add instructions page to the navbar. |
| The page is styled so that it does not read with a screen reader in the same way that it appears visually |  | Home |  |  |
| Link without context |  | Home | * [2.4.4: Link Purpose (In Context)](https://www.w3.org/WAI/WCAG21/Understanding/link-purpose-in-context.html) * [G91 Technique](https://www.w3.org/WAI/WCAG21/Techniques/general/G91) |  |
| Text scaling causes text to spill over other elements on page | Low | Home | * [1.4.12: Text Spacing](https://www.w3.org/WAI/WCAG21/Understanding/text-spacing.html) * [C36 Technique](https://www.w3.org/WAI/WCAG21/Techniques/css/C36) |  |
| Link without context |  | Hints | * [2.4.4: Link Purpose (In Context)](https://www.w3.org/WAI/WCAG21/Understanding/link-purpose-in-context.html) * [G91 Technique](https://www.w3.org/WAI/WCAG21/Techniques/general/G91) |  |
| Images in place of bullet points |  | Hints |  | Remove image from css styles page. |
| Name does not match the displayed text/label for an interactive element | High | Form | * [3.3.2: Labels or Instructions](https://www.w3.org/WAI/WCAG21/Understanding/labels-or-instructions) * [ARIA 1 Technique](https://www.w3.org/WAI/WCAG21/Techniques/aria/ARIA1) * [G131 Technique](https://www.w3.org/WAI/WCAG21/Techniques/general/G131) | Rename aria-label to match the text on button. Rename text on button to match its action. Ex) “Submit” |
| “Press for sparkles” button opens a window in the background without notifying the user | High | Form | * [3.3.2: Labels or Instructions](https://www.w3.org/WAI/WCAG21/Understanding/labels-or-instructions) * [ARIA 1 Technique](https://www.w3.org/WAI/WCAG21/Techniques/aria/ARIA1) * [G131 Technique](https://www.w3.org/WAI/WCAG21/Techniques/general/G131) | Remove function that opens the window.  Or create an alert to notify the user that another window has been opened. |
| The opened window closes after 9 seconds without notifying the user | High | Form |  | Remove function that closes the window.  Or create an alert to notify the user that another window has closed. |
| Radio buttons cannot be un-pressed |  | Form |  |  |
| Radio buttons are not mutually exclusive |  | Form |  |  |
| Radio buttons have no label | High | Form | * [Forms](https://confluence.glhec.org/confluence/display/ADA/Forms) | Add labels to the radio buttons. |
| Radio buttons are not in a fieldset |  | Form | * [1.3.1: Info and Relationships](https://www.w3.org/WAI/WCAG21/Understanding/info-and-relationships.html) * [3.3.2: Labels or Instructions](https://www.w3.org/WAI/WCAG21/Understanding/labels-or-instructions.html) * [H71 Technique](https://www.w3.org/WAI/WCAG21/Techniques/html/H71) | Contain radio buttons in a fieldset. |
| Some misnamed and inappropriate values for inputs |  | Form |  |  |
| Form inputs don’t have aria-labels | High | Form |  |  |
| Enter button is 40 x 20 px |  | Form | [2.5.5: Target Size](https://www.w3.org/WAI/WCAG21/Understanding/target-size.html) | The enter button should be at least 44 px in length and width |
| Font size for enter button is too small |  | Form |  | Increase the font size of the enter button. |
| Tagged Incorrectly | Medium | PDF | [PDF Accessibility Quick-Start Guide](https://confluence.glhec.org/confluence/display/ADA/PDF+Accessibility+Quick-Start+Guide#PDFAccessibilityQuick-StartGuide-Tags) |  |
| Bad reading order | High | PDF | [PDF Accessibility Quick-Start Guide](https://confluence.glhec.org/confluence/display/ADA/PDF+Accessibility+Quick-Start+Guide#PDFAccessibilityQuick-StartGuide-ReadingOrder) | Reorder the content to read the same way as it visually appears. |
| Incorrect forms (form fields in table area) | High | PDF | * [1.3.1: Info and Relationships](https://www.w3.org/WAI/WCAG21/Understanding/info-and-relationships.html) * [PDF6 Technique](https://www.w3.org/WAI/WCAG21/Techniques/pdf/PDF6) * [PDF20 Technique](https://www.w3.org/WAI/WCAG21/Techniques/pdf/PDF20) | Remove form fields from table. |
| Bad data table | High | PDF | * [1.3.1: Info and Relationships](https://www.w3.org/WAI/WCAG21/Understanding/info-and-relationships.html) * [PDF6 Technique](https://www.w3.org/WAI/WCAG21/Techniques/pdf/PDF6) * [PDF20 Technique](https://www.w3.org/WAI/WCAG21/Techniques/pdf/PDF20) | Repair the data table. |
| Artifact incorrectly tagged as figure | Medium | PDF | [PDF Accessibility Quick-Start Guide](https://confluence.glhec.org/confluence/display/ADA/PDF+Accessibility+Quick-Start+Guide#PDFAccessibilityQuick-StartGuide-Artifacts) | Retag the figure as an artifact using the reading order panel. |
| Initial view is set to file name | Low | PDF |  | Set initial view to “Document Title”.  Document Properties -> Initial View -> Window Options -> Show: -> Document Title |
| PDF does not have a title | Low | PDF |  | Assign title to PDF.  Document Properties ->  Description ->  Title |
| Only accessible through a link |  | Gallery | * [2.4.5: Multiple Ways](https://www.w3.org/WAI/WCAG21/Understanding/multiple-ways.html) * [G125 Technique](https://www.w3.org/WAI/WCAG21/Techniques/general/G125) | Add link to this page to the navbar. |
| Cannot navigate back to the rest of the site |  | Gallery |  | Add navbar to this page. |
| No navbar |  | Gallery |  | Add navbar to this page. |
| Footer covers up part of the gallery |  | Gallery |  | Style the footer to have a format of position: absolute and add padding to the bottom of the imageRow class in the gallery css page. |
| Some of the images are also links |  | Gallery |  | Remove links around images. |
| Some of the images do not match the alt text | High | Gallery | * [1.1.1: Non-text Content](https://www.w3.org/WAI/WCAG21/Understanding/non-text-content.html) * [H37 Technique](https://www.w3.org/WAI/WCAG21/Techniques/html/H37) | Rename the alt text to something that matches the images. |
| Some alt text is not related to the image or page | High | Gallery | * [1.1.1: Non-text Content](https://www.w3.org/WAI/WCAG21/Understanding/non-text-content.html) * [H37 Technique](https://www.w3.org/WAI/WCAG21/Techniques/html/H37) | Rename the alt text to something that matches the image and text. |
| Some paragraphs do not match the images |  | Gallery | * [1.1.1: Non-text Content](https://www.w3.org/WAI/WCAG21/Understanding/non-text-content.html) * [H37 Technique](https://www.w3.org/WAI/WCAG21/Techniques/html/H37) | Replace the images with ones that match the text and page. |
| Repetitive multicolored background |  | Gallery |  | Remove the background image in the css styles page. |
| Text color that is difficult to read with the background |  | Gallery | * [1.4.3: Contrast (Minimum)](https://www.w3.org/WAI/WCAG21/Understanding/contrast-minimum.html) * [G18 Technique](https://www.w3.org/WAI/WCAG21/Techniques/general/G18) * [G145 Technique](https://www.w3.org/WAI/WCAG21/Techniques/general/G145) | Change the text color to something easy to read with the background. |
| Random tabindex values |  | Gallery |  | Remove all tabindex html attributes. (Ex. tabindex="3") |
| Empty heading tags | Low | Gallery |  | Remove heading tags or add relevant text to them. |
| Random tabindex values |  | Sign Up |  | Remove all tabindex html attributes. (Ex. tabindex="3") |
| The whole page is flashing |  | Sign Up | * [2.3.1: Three Flashes or Below Threshold](https://www.w3.org/WAI/WCAG21/Understanding/three-flashes-or-below-threshold.html) * [G176 Technique](https://www.w3.org/WAI/WCAG21/Techniques/general/G176) | Remove styling that causes flashing. Everything under “/\* Flash class and keyframe animation \*/” |
| Bad text color for the background |  | Sign Up | * [1.4.3: Contrast (Minimum)](https://www.w3.org/WAI/WCAG21/Understanding/contrast-minimum.html) * [G18 Technique](https://www.w3.org/WAI/WCAG21/Techniques/general/G18) * [G145 Technique](https://www.w3.org/WAI/WCAG21/Techniques/general/G145) | Change the text color to something easy to read with the background. |
| Different text color than the rest of the site |  | Sign Up |  | Choose a text color that matches the text color of the rest of the site. |
| Doc lang is Spanish | Low | Sign Up | * [3.1.1: Language of Page](https://www.w3.org/WAI/WCAG21/Understanding/language-of-page.html) * [H57 Technique](https://www.w3.org/WAI/WCAG21/Techniques/html/H57) |  |
| Check box has no label | High | Sign Up |  |  |
| Text fields have prepopulated values |  | Sign Up |  |  |
| Obtrusive javascript in body element |  | Timeout |  |  |
| Unformatted navbar |  | Timeout |  | Add navbar styling to layout css page |
| No footer |  | Timeout |  | Add a footer to this page |
| Unreasonable “timeout” function |  | Timeout | * [2.2.1: Timing Adjustable](https://www.w3.org/WAI/WCAG21/Understanding/timing-adjustable.html) * [G180 Technique](https://www.w3.org/WAI/WCAG21/Techniques/general/G180) * [G198 Technique](https://www.w3.org/WAI/WCAG21/Techniques/general/G198) * [SCR16 Technique](https://www.w3.org/WAI/WCAG21/Techniques/client-side-script/SCR16) | Remove all timeout functions |
| Opens a new window every 3 seconds if button is not pressed |  | Timeout | * [2.2.1: Timing Adjustable](https://www.w3.org/WAI/WCAG21/Understanding/timing-adjustable.html) * [G180 Technique](https://www.w3.org/WAI/WCAG21/Techniques/general/G180) * [G198 Technique](https://www.w3.org/WAI/WCAG21/Techniques/general/G198) * [SCR16 Technique](https://www.w3.org/WAI/WCAG21/Techniques/client-side-script/SCR16) | Remove all timeout functions or expand length of time until window opens to a reasonable amount of time. |
| Not very visible button to stop function |  | Timeout | * [1.3.3: Sensory Characteristics](https://www.w3.org/WAI/WCAG21/Understanding/sensory-characteristics.html) * [G96 Technique](https://www.w3.org/WAI/WCAG21/Techniques/general/G96) | Add styling to button. |
| Relies on sight dependence  ~ Color  ~ Style | Low | Timeout | * [1.4.1: Use of Color](https://www.w3.org/WAI/WCAG21/Understanding/use-of-color.html) * [G14 Technique](https://www.w3.org/WAI/WCAG21/Techniques/general/G14) * [G182 Technique](https://www.w3.org/WAI/WCAG21/Techniques/general/G182) * [G183 Technique](https://www.w3.org/WAI/WCAG21/Techniques/general/G183) * [1.3.3: Sensory Characteristics](https://www.w3.org/WAI/WCAG21/Understanding/sensory-characteristics.html) * [G96 Technique](https://www.w3.org/WAI/WCAG21/Techniques/general/G96) | Add text for screen reader to recognize that every button is a button that needs to be pressed. |
| Color contrast between the button and other text is less than 3:1 | Medium | Timeout | * [1.4.3: Contrast (Minimum)](https://www.w3.org/WAI/WCAG21/Understanding/contrast-minimum.html) * [G18 Technique](https://www.w3.org/WAI/WCAG21/Techniques/general/G18) * [G145 Technique](https://www.w3.org/WAI/WCAG21/Techniques/general/G145) | Increase the color contrast between the button and other text or restyle button to look clearly different from other text. |
| Images missing alt text | High | Timeout | * [1.1.1: Non-text Content](https://www.w3.org/WAI/WCAG21/Understanding/non-text-content.html) * [H37 Technique](https://www.w3.org/WAI/WCAG21/Techniques/html/H37) * [1.3.3: Sensory Characteristics](https://www.w3.org/WAI/WCAG21/Understanding/sensory-characteristics.html) * [G96 Technique](https://www.w3.org/WAI/WCAG21/Techniques/general/G96) | Add appropriate alt text to images that describe what orientation they are in. |
| Continuous timed alert |  | Timeout | * [2.2.1: Timing Adjustable](https://www.w3.org/WAI/WCAG21/Understanding/timing-adjustable.html) * [G180 Technique](https://www.w3.org/WAI/WCAG21/Techniques/general/G180) * [G198 Technique](https://www.w3.org/WAI/WCAG21/Techniques/general/G198) * [SCR16 Technique](https://www.w3.org/WAI/WCAG21/Techniques/client-side-script/SCR16) | Remove alert or add reasonable time between its activation. |
| Unexplained, excessive abbreviations |  | Timeout | * [3.1.4: Abbreviations](https://www.w3.org/WAI/WCAG21/Understanding/abbreviations.html) * [G102 Technique](https://www.w3.org/WAI/WCAG21/Techniques/general/G102) * [G97 Technique](https://www.w3.org/WAI/WCAG21/Techniques/general/G97) | Remove abbreviations and replace with full words. |
| Audio autoplays and loops when the page loads |  | Timeout | * [1.4.2: Audio Control](https://www.w3.org/WAI/WCAG21/Understanding/audio-control.html) * [G170 Technique](https://www.w3.org/WAI/WCAG21/Techniques/general/G170) * [G171 Technique](https://www.w3.org/WAI/WCAG21/Techniques/general/G171) * [G60 Technique](https://www.w3.org/WAI/WCAG21/Techniques/general/G60) | Remove autoplay code and show controls for audio to be manually playable and stoppable. |
| The element that is used to stop the audio is reliant on ability to see shapes | Low | Timeout | * [1.3.3: Sensory Characteristics](https://www.w3.org/WAI/WCAG21/Understanding/sensory-characteristics.html) * [G96 Technique](https://www.w3.org/WAI/WCAG21/Techniques/general/G96) | Remove the shapes and add the audio player controls. |
| Mobile scaling is prevented |  | Timeout | * [1.4.4: Resize text](https://www.w3.org/WAI/WCAG21/Understanding/resize-text.html) * [G142 Technique](https://www.w3.org/WAI/WCAG21/Techniques/general/G142) | Remove line that prevents mobile scaling. |
| Images are not keyboard accessible | High | Timeout | * [2.1.1: Keyboard](https://www.w3.org/WAI/WCAG21/Understanding/keyboard.html) * [G202 Technique](https://www.w3.org/WAI/WCAG21/Techniques/general/G202) |  |

Note: June 24