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 | Location | WCAG | Fix | Points |
| Bad font style & family | Entire Site | [1.4 Distinguishable](https://www.w3.org/TR/WCAG21/#distinguishable) | * Remove the font style property in the css pages.   Ex) font-style: oblique;   * 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; | 3 |
| Terrible Color contrast | 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. | 3 |
| 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) | 3 |
| 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. | 1 |
| 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) |  | 3 |
| Broken links | Entire Site | Bonus | Make sure every link leads somewhere. | 1 |
| Non-distinguishable links | Entire Site | * [1.4.1 Use of Color](https://www.w3.org/TR/WCAG21/#use-of-color) * [1.4 Distinguishable](https://www.w3.org/TR/WCAG21/#distinguishable) | Style the links so that they are underlined. | 2 |
| Incorrect heading structure | 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. | 1 |
| Incorrect document language | 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. | 3 |
| Character encoding not declared | Entire Site | Bonus |  | 3 |
| Div tags without roles | Entire Site |  |  | 2 |
| No “Skip to main” link | 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) |  | 2 |
| No landmarks | Entire Site | [1.3.1 Info and Relationships](https://www.w3.org/TR/WCAG21/#info-and-relationships) |  | 2 |
| Images with incorrect alt text | 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. | 1 |
| Screwed up tab order | Home | [2.4.3 Focus Order](https://www.w3.org/TR/WCAG21/#focus-order) | Remove tab index values. | 2 |
| 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. | 1 |
| The page is styled so that it does not read with a screen reader in the same way that it appears visually | Home | [1.3.2 Meaningful Sequence](https://www.w3.org/TR/WCAG21/#meaningful-sequence) |  | 3 |
| 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) |  | 1 |
| Text scaling causes text to spill over other elements on page | Home | * [1.4.4 Resize Text](https://www.w3.org/TR/WCAG21/#resize-text) * [1.4.10 Reflow](https://www.w3.org/TR/WCAG21/#reflow) * [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) |  | 2 |
| 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) |  | 1 |
| Images in place of bullet points | Hints | Bonus | Remove image from css styles page. | 1 |
| Name does not match the displayed text/label for an interactive element | 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” | 1 |
| “Press for sparkles” button opens a window in the background without notifying the user | Form | * [3.3.2: Labels or Instructions](https://www.w3.org/WAI/WCAG21/Understanding/labels-or-instructions) * [3.2 Predictable](https://www.w3.org/TR/WCAG21/#predictable) * [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. | 1 |
| The opened window closes after 9 seconds without notifying the user | Form | [2.2.1 Timing Adjustable](https://www.w3.org/TR/WCAG21/#timing-adjustable) | Remove function that closes the window.  Or create an alert to notify the user that another window has closed. | 1 |
| Radio buttons are not properly grouped, using both name attributes and 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. | Radio buttons are not properly grouped, using both name attributes and a <fieldset> |
| Radio buttons have no label | Form | * [3.3.2 Labels or Instructions](https://www.w3.org/TR/WCAG21/#labels-or-instructions) * [H44 Technique](https://www.w3.org/WAI/WCAG21/Techniques/html/H44) | Add labels to the radio buttons. | 2 |
| Form inputs don’t have aria-labels | Form | * [3.3.2 Labels or Instructions](https://www.w3.org/TR/WCAG21/#labels-or-instructions) * [H44 Technique](https://www.w3.org/WAI/WCAG21/Techniques/html/H44) | Associate text labels using <label> elements. | 2 |
| Enter button is 40 x 20 px | Form | [2.5.5: Target Size](https://www.w3.org/WAI/WCAG21/Understanding/target-size.html) (AAA) | The enter button should be at least 44 px in length and width | 2 |
| Font size for enter button is too small | Form | Bonus | Increase the font size of the enter button. | 2 |
| Tagged Incorrectly | PDF | [PDF Accessibility Quick-Start Guide](https://confluence.glhec.org/confluence/display/ADA/PDF+Accessibility+Quick-Start+Guide#PDFAccessibilityQuick-StartGuide-Tags) |  | 1 |
| Bad reading order | 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. | 3 |
| Incorrect forms (form fields in table area) | 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. | 2 |
| Bad data table | 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. | 2 |
| Artifact incorrectly tagged as figure | 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. | 1 |
| Initial view is set to file name | PDF |  | Set initial view to “Document Title”.  Document Properties -> Initial View -> Window Options -> Show: -> Document Title | 1 |
| PDF does not have a title | PDF |  | Assign title to PDF.  Document Properties ->  Description ->  Title | 1 |
| 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. | 1 |
| Cannot navigate back to the rest of the site (No navbar) | Gallery | Bonus | Add navbar to this page. | 2 |
| Footer covers up part of the gallery | Gallery | * [1.4.4 Resize Text](https://www.w3.org/TR/WCAG21/#resize-text) * [1.4.10 Reflow](https://www.w3.org/TR/WCAG21/#reflow) | 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. | 1 |
| Some of the images are also links | Gallery | [G 1.4 Distinguishable](https://www.w3.org/TR/WCAG21/#distinguishable) | Remove links around images. | 1 |
| Some of the images do not match the alt text | 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. | 1 |
| Some alt text is not related to the image or page | Gallery | * [1.1.1: Non-tex1t 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. | 1 |
| 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. | 1 |
| Repetitive multicolored background with a text color that is difficult to read | 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) | * Remove the background image in the css styles page. * Change the text color to something easy to read with the background. | 1 |
| Random tabindex values | Gallery | [2.4.3 Focus Order](https://www.w3.org/TR/WCAG21/#focus-order) | Remove all tabindex html attributes. (Ex. tabindex="3") | 3 |
| Empty heading tags | Gallery | [1.3.1 Info and Relationships](https://www.w3.org/TR/WCAG21/#info-and-relationships) | Remove heading tags or add relevant text to them. | 1 |
| Random tabindex values | Sign Up | [2.4.3 Focus Order](https://www.w3.org/TR/WCAG21/#focus-order) | Remove all tabindex html attributes. (Ex. tabindex="3") | 3 |
| The whole page is flashing | Sign Up | * [2.2.2 Pause, Stop, Hide](https://www.w3.org/TR/WCAG21/" \l "pause-stop-hide) * [G176 Technique](https://www.w3.org/WAI/WCAG21/Techniques/general/G176) | Remove styling that causes flashing. Everything under “/\* Flash class and keyframe animation \*/” | 1 |
| 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. | 3 |
| Different text color than the rest of the site | Sign Up | Bonus | Choose a text color that matches the text color of the rest of the site. | 3 |
| Doc lang is Spanish | 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) |  | 3 |
| Check box has no label | Sign Up | * [3.3.2 Labels or Instructions](https://www.w3.org/TR/WCAG21/#labels-or-instructions) * [H44 Technique](https://www.w3.org/WAI/WCAG21/Techniques/html/H44) |  | 1 |
| Obtrusive javascript in body element | Timeout | [3.2 Predictable](https://www.w3.org/TR/WCAG21/" \l "predictable) |  | 2 |
| Unformatted navbar | Timeout | [3.2.3 Consistent Navigation](https://www.w3.org/TR/WCAG21/#consistent-navigation) | Add navbar styling to layout css page | 2 |
| No footer | Timeout | Bonus | Add a footer to this page | 1 |
| 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 | 1 |
| 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. | 2 |
| 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. | 2 |
| Relies on sight dependence  ~ Color  ~ Style | 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) | Rephrase instructions to include a reference that isn’t based on color or style. | 3 |
| Color contrast between the button and other text is less than 3:1 | 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. | 3 |
| Images missing alt text | 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. | 1 |
| 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. | 1 |
| 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. | 1 |
| 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. | 1 |
| The element that is used to stop the audio is reliant on ability to see shapes | 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. | 3 |
| Mobile scaling is prevented | Timeout | * [1.4.4: Resize text](https://www.w3.org/WAI/WCAG21/Understanding/resize-text.html) * [1.4.10: Reflow](https://www.w3.org/WAI/WCAG21/Understanding/reflow.html) * [G142 Technique](https://www.w3.org/WAI/WCAG21/Techniques/general/G142) | Remove line that prevents mobile scaling. | 2 |
| Images are not keyboard accessible | 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) |  | 1 |