

The website is responsive, suggested viewing in Chrome browser laptop (1339px x 847px) and iPhone 14 pro max(430px x 932px)

Part 1:

Serenity Soundspace is an inviting mindfulness website that guides users through a calming journey amidst nature's tranquility. Upon entering the site, visitors are greeted by a user-friendly interface that transports them to various serene environments, each thoughtfully crafted with ambient sounds to promote relaxation and inner peace. The website's interactive sound mixer allows users to customize each soundscape, adjusting elements to create a personalized auditory experience that resonates with their needs and preferences.

The website goes beyond mere relaxation. As users navigate the site, they'll discover a curated collection of resources and practical tips on mindfulness and meditation, presented in an accessible and relatable manner. Motivated by a commitment to promoting mental well-being, Serenity Soundspace serves as a digital sanctuary where individuals can find respite from the stresses of daily life and cultivate a sense of inner calm.

Whether you're a busy professional seeking stress relief, a student looking to enhance focus and clarity, or simply someone who appreciates the restorative power of nature, Serenity Soundspace offers a welcoming platform to explore the benefits of mindfulness. The website is designed to be an inclusive space, accessible to people of all ages and backgrounds interested in prioritizing their mental health and well-being.

Part 2:

- Upon landing on the homepage, users are greeted with a prominent title and a scrolling instruction. The interaction begins with the user scrolling down to explore further.
How to interact: Scroll down on the homepage.
- After scrolling, users encounter three selectable spaces: Forest, Ocean, and Fireplace. Selecting any of these leads to a dedicated soundscape page with themed ambient sounds.
How to interact: Click on any of the three spaces on the homepage.
- On each soundscape page, users can interact with three icons representing different sounds. Each icon is paired with a slider to adjust the volume. Users can play multiple sounds simultaneously, and toggle each sound on or off by clicking the respective icon.
How to interact: Adjust the sliders to change volume and click the icons to play/pause sounds.
- From the 'Choose Your Space' page, the 'Create Your Space' button takes users to a mixer interface with all nine available sound icons. Here, users can mix and match to create a personalized soundscape.

How to interact: Click the 'Create Your Space' button, then use the icons and sliders to mix sounds.

- Each page features a navigation menu accessible by clicking the menu icon. The menu slides in, offering links to different sections of the site. Clicking outside the menu or on a link closes the menu.

How to interact: Click the menu icon to open, select a link, or click outside the menu to close.

Part 3:

Name of tool: Intersection Observer API

Why you chose to use it: This API was chosen for its efficient way of handling element visibility on the webpage, which helps in creating dynamic, responsive UIs that react as users scroll, it creates smooth animation when users scroll down to see the different spaces.

How you used it: It's implemented to manage the visibility of various sections and elements such as the sound cards, dynamically adding animation effects as they enter the viewport.

What does it add to your website?: Enhances user engagement by triggering animations and transitions smoothly as the user scrolls through the site, making the experience more interactive and visually appealing.

Name of tool: HTML5 Audio API

Why you chose to use it: The HTML5 Audio API is integral for handling on-demand sound playback, which is essential for the interactive soundscapes of this project.

How you used it: Used to control audio playback, allowing users to play, pause, and adjust the volume of ambient sounds associated with each soundscape.

What does it add to your website?: Provides an immersive audio experience that complements the visual tranquility of each environment, enhancing the overall thematic immersion and user engagement.

Part 4:

During the iterative process of developing the website, several enhancements and additions were made to improve functionality and user experience:

Initially, the website lacked a navigation bar for seamless browsing. Recognizing the importance of aiding user navigation, a navigation bar was introduced to facilitate easy access to different sections of the site.

Smooth animations were not initially implemented, but it became evident that they could enhance the visual appeal and user engagement. Consequently, animations created a more polished and dynamic browsing experience.

The addition of a "Create Your Space" page was inspired by feedback and the desire to provide users with more interactive features. This page allows users to customize their auditory

environment by mixing and matching various sound options, enhancing personalization and engagement.

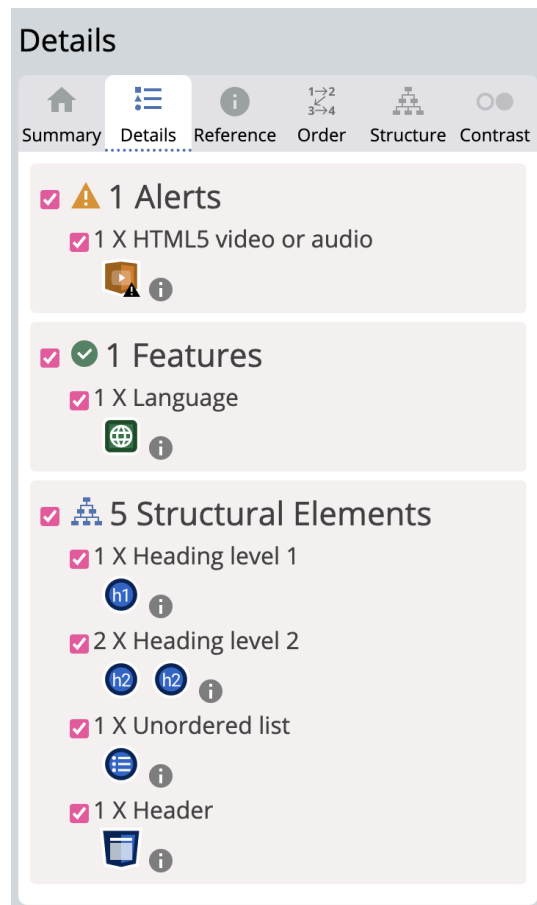
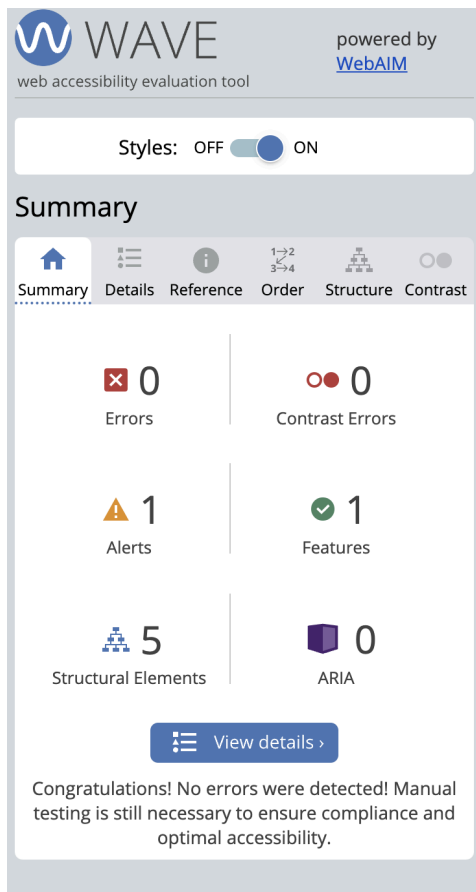
An "About" page was introduced to provide users with an introduction to the website and its purpose. This addition helps establish a connection with visitors by offering insights into the website's background and goals, fostering a sense of familiarity and trust.

Part 5:

One significant challenge I encountered was integrating the Intersection Observer API to enable dynamic content visibility as users scroll. This feature enhances user engagement by revealing content progressively. The implementation required extensive research, including reviewing multiple tutorial videos and considerable debugging efforts to ensure smooth functionality. Additionally, optimizing the website for responsiveness posed a substantial challenge. Given the importance of accessibility and the likelihood of access via mobile devices, it was essential to ensure the website's functionality and aesthetic appeal across various screen sizes. The process involved meticulous adjustments to CSS and layout configurations to accommodate different viewing contexts, ensuring a consistent and accessible user experience.

Appendix:

Home page:



Space page (ocean):

Summary

Summary







Details

Reference

Order

Structure

Contrast

 0	 0
Errors	Contrast Errors
 3	 4
Alerts	Features
 1	 3
Structural Elements	ARIA

View details

Congratulations! No errors were detected! Manual testing is still necessary to ensure compliance and optimal accessibility.

Details

Summary


Details


Reference


Order


Structure


Contrast


 3 Alerts


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 1 X Device dependent event handler


 1 X HTML5 video or audio


 4 Features


 3 X Alternative text

 1 X Language

 1 Structural Elements

 1 X Unordered list

 3 ARIA

 3 X ARIA label

Space page (forest):

Summary

Summary







Details

Reference

Order

Structure

Contrast

 0	 0
Errors	Contrast Errors
 3	 4
Alerts	Features
 1	 3
Structural Elements	ARIA

View details

Congratulations! No errors were detected! Manual testing is still necessary to ensure compliance and optimal accessibility.

Details

Summary


Details


Reference


Order


Structure


Contrast


 3 Alerts


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 1 X Device dependent event handler


 1 X HTML5 video or audio


 4 Features


 3 X Alternative text

 1 X Language

 1 Structural Elements

 1 X Unordered list







 3 ARIA

 3 X ARIA label

Space page (fireplace):

Summary

Summary Details Reference Order Structure Contrast





 0 Errors	 0 Contrast Errors
 3 Alerts	 4 Features
 1 Structural Elements	 3 ARIA

[View details >](#)


Congratulations! No errors were detected! Manual testing is still necessary to ensure compliance and optimal accessibility.

Details

Summary Details Reference Order Structure Contrast

- ✓  3 Alerts
 - ✓ 1 X No heading structure
 - ✓ 1 X Device dependent event handler
 - ✓ 1 X HTML5 video or audio
- ✓  4 Features
 - ✓ 3 X Alternative text
 - ✓ 1 X Language
- ✓  1 Structural Elements
 - ✓ 1 X Unordered list
- ✓  3 ARIA
 - ✓ 3 X ARIA label







Create space page:

 **WAVE** powered by [WebAIM](#)
web accessibility evaluation tool

Styles: OFF ☐ ON ☒

Summary

Summary Details Reference Order Structure Contrast





 0 Errors	 0 Contrast Errors
 4 Alerts	 10 Features
 1 Structural Elements	 9 ARIA

[View details >](#)

Congratulations! No errors were detected! Manual testing is still necessary to ensure compliance and optimal accessibility.







Details

Summary Details Reference Order Structure Contrast







- ✓  4 Alerts
 - ✓ 1 X No heading structure
 - ✓ 1 X Broken same-page link
 - ✓ 1 X Device dependent event handler
 - ✓ 1 X HTML5 video or audio
- ✓  10 Features
 - ✓ 9 X Alternative text
 - ✓ 1 X Language
- ✓  1 Structural Elements
 - ✓ 1 X Unordered list
- ✓  9 ARIA
 - ✓ 9 X ARIA label


About page:

Summary









Summary Details Reference Order Structure Contrast

 0	 0
Errors	Contrast Errors
 2	 1
Alerts	Features
 3	 0
Structural Elements	ARIA



 View details >



Congratulations! No errors were detected! Manual testing is still necessary to ensure compliance and optimal accessibility.



Details







Summary Details Reference Order Structure Contrast



 2 Alerts



 1 X Missing first level heading







 1 X HTML5 video or audio







 1 Features



 1 X Language







 3 Structural Elements

 1 X Heading level 3



 1 X Unordered list



 1 X Header

