

PUI FP4 Write-up

Part 1 - Introduction

My website is a digital portfolio, displaying my projects in architecture and art. The primary purpose is to offer potential employers and other interested users a quick and easy way to view my portfolio. My ultimate goal is to provide visitors with a clear and concise understanding of my style and working quality, even within a minute of browsing.

To achieve this goal, I researched several architecture portfolio websites and analyzed their design patterns to apply them to my website. By doing so, users can easily navigate the website and familiarize themselves with its structure. I established a clear hierarchy within the project gallery page to guide users to view my most notable projects. Additionally, I use a hierarchy within the project detail pages to emphasize the more important images.

To enhance the user's experience, I adjusted the font size and color to make the text easier to read. The layout and page margin were also designed to add a concise sense of aesthetics, highlighting my works and skills. To add interest, I incorporated animation on the title of each page. However, I made sure not to use too much animation to avoid overwhelming the visitors.

Overall, my website's design is clean, user-friendly, and appealing. Potential employers and interested users can quickly browse through my portfolio, gaining an understanding of my skills and style. The concise and straightforward design language will keep visitors engaged while providing them with a seamless experience.

Part 2 – Interaction Guide

Users may encounter three situations base on the pages they are on:

Situation 1 - Gallery Page:

Users can interact with the following three parts:

1. Navigation Bar:

- **Interaction Type:** Hover, Click
- **Reproduction:**
 - Hovering on an option causes the hovered option to turn into a thick grey font, indicating that the option is selected and is clickable.
 - Clicking on an option navigates to another gallery page or to the profile page. Clicking on the logo navigates to the architecture gallery page.

2. Project Gallery:

- **Interaction Type:** Hover, Click
- **Reproduction:**
 - Hovering on a project image displays a small white box on top of the image with basic project information.
 - Clicking on a project image leads to the project detail page.
- 3. Contact Information Section:**
 - **Interaction Type:** Click
 - **Reproduction:**
 - Clicking on the email address leads to Outlook, enabling direct email.
 - Clicking on the Instagram link leads to my Instagram homepage.

Situation 2 - Project Detail Page:

Users can interact with the following four parts:

- 1. Navigation Bar:**
 - **Interaction Type:** Hover, Click
 - **Reproduction:** Similar to Situation 1.
- 2. Images:**
 - **Interaction Type:** Hover, Click
 - **Reproduction:**
 - Hovering on an image displays a zoom-in icon,
 - Clicking on an image displays a separate window with the zoomed-in image.
 - Clicking on the cross icon closes the window and returns to the project detail page.
- 3. Whole Page:**
 - **Interaction Type:** Scroll
 - **Reproduction:** Users can scroll up and down the page to view more project information.
- 4. Contact Information Section:**
 - **Interaction Type:** Click
 - **Reproduction:** Similar to Situation 1.

Situation 3 - Profile Page:

Users can interact with the following three parts:

- 1. Navigation Bar:**
 - **Interaction Type:** Hover, Click
 - **Reproduction:** Similar to Situation 1 and 2.
- 2. Portfolio and Resume Link:**
 - **Interaction Type:** Click
 - **Reproduction:** Clicking on "View My Paper Portfolio" or "View My Resume" leads to a Google file of the portfolio or resume. The portfolio and resume are downloadable.
- 3. Contact Information Section:**
 - **Interaction Type:** Click

- **Reproduction:** Similar to Situation 1 and 2.

Part 3 - Tools

Tool 1: JavaScript library - textillate.js

I chose the textillate.js tool because it allows me to add text animations easily and quickly. Specifically, I applied the fade-in from the left animation to the title on every page, which draws users' attention upon loading the page and helps them identify the page they are on, facilitating navigation. The animation only plays once and won't disrupt users while they read the page. Furthermore, the animation enhances the liveliness of my website.

Tool 2: Zoom in Animation

I add the zoom in animation on the image caption while the user zooms in an image on project detail page. I choose to use the animation because it creates a sense of continuity, helping the user understand that they have just zoomed in on the image. I intentionally only implement the animation to the caption, but not the image itself to avoid making the animation too disturbing.

Tool 3: font-awesome library

I choose to use this tool because I want to implement an Instagram icon at the contact information section. The Instagram icon helps the user understand that this link leads to my Instagram page more intuitively.

Part 4 – Iterations on prototype

During the implementation of my website, I made several changes to my original design based on feedback and my own observations. I decided to use the same navigation bar and contact information session on each page, rather than different grayscale to distinguish between pages, as it created consistency and improved the overall appearance of the website. Additionally, I abandoned the idea of creating a timeline for my past experience on the profile page, as it didn't show the hierarchy of my experience and I wanted to lead the users to pay more attention to my projects. Instead, I added a link to my resume in Google Drive for users interested in my past experience.

To enhance the user experience, I added a new feature that allows users to zoom in on project images to see them more clearly. I also incorporated animations, such as fade-in from the left for the page titles and zoom-in for the image captions, to make the website more engaging.

Part 5 – challenge

One of the most challenging aspects of this project was determining the hierarchy and structure of the project gallery page and implementing the hover feature seamlessly. To ensure the hierarchy displayed correctly, I used nested `<div>` elements. Additionally, I made sure that the white box displaying information would appear immediately when users hovered over the image, even if the cursor was at the edge.

Another challenge was ensuring the zoom-in function on the project detail pages worked correctly for images with different ratios. For most images, I set the height of the zoom-in image to 80%. However, for landscape images where the width was significantly larger than the height, I set the width of the zoom-in image to 80% to ensure it was displayed properly on the page.

Part 6 – responsive design

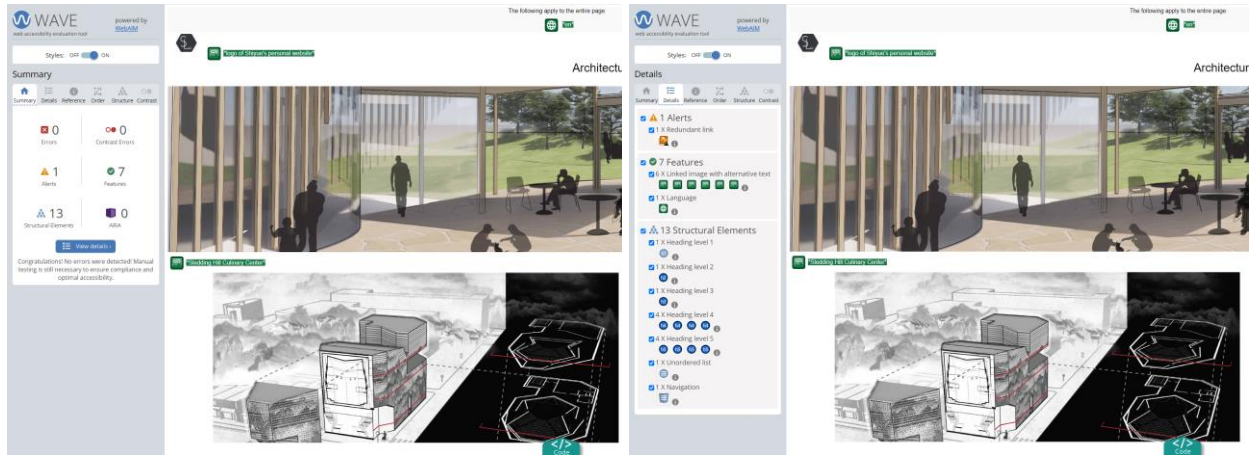
The website should be view at:

Laptop size: 1920 x 1080

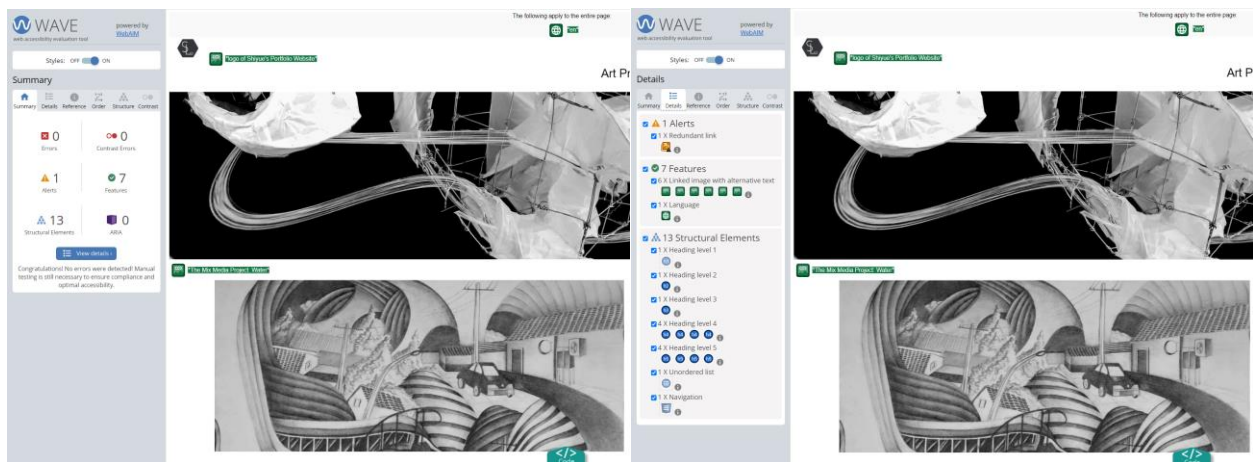
Mobile device size: 480 x 800

Part 7 – Accessibility

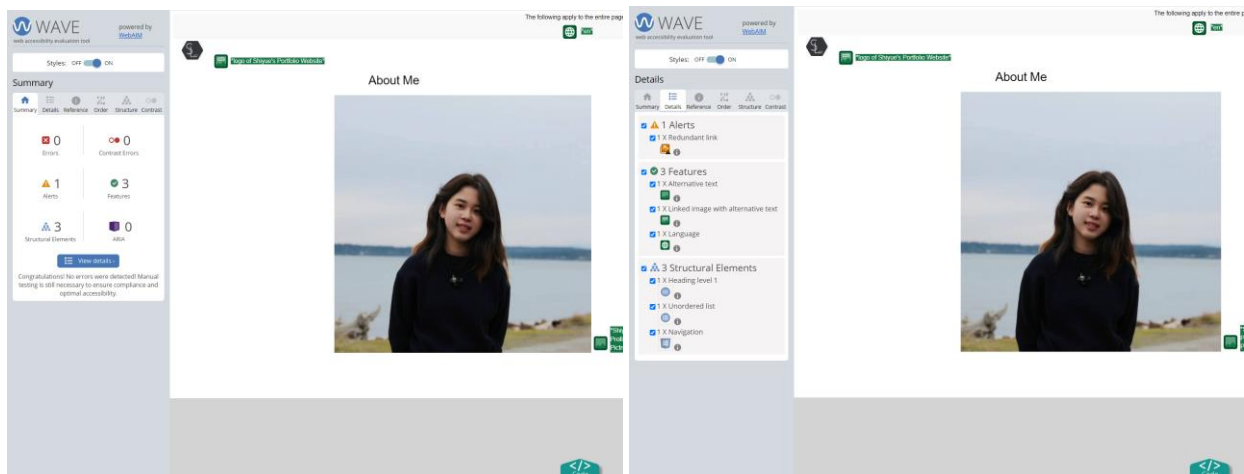
Architecture Projects Gallery



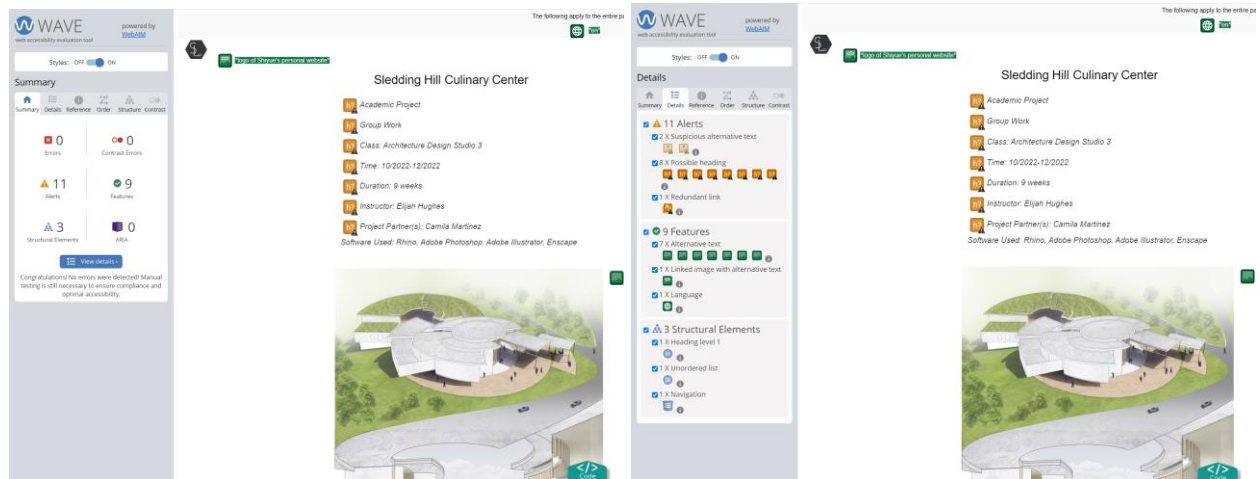
Art Projects Gallery



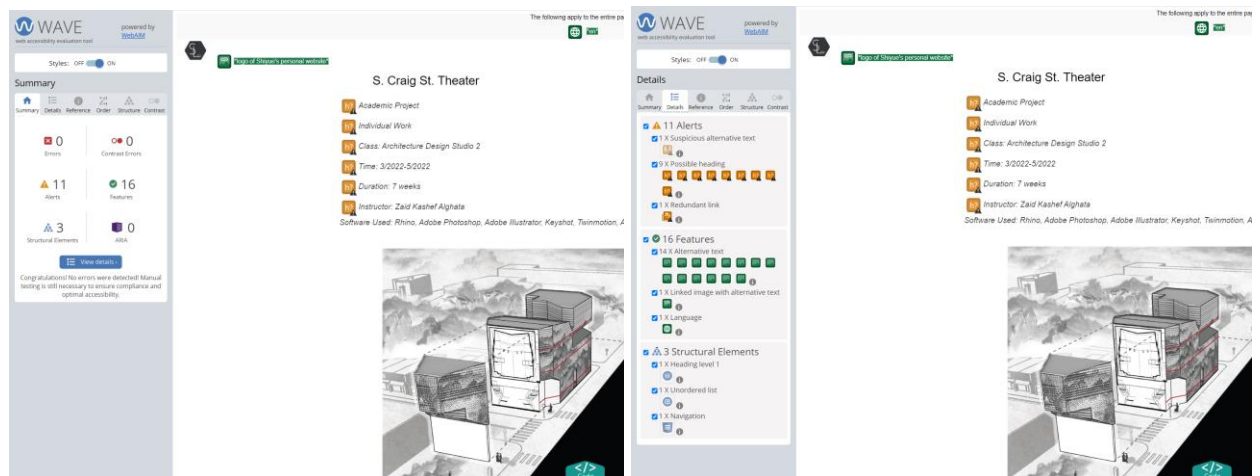
About Me



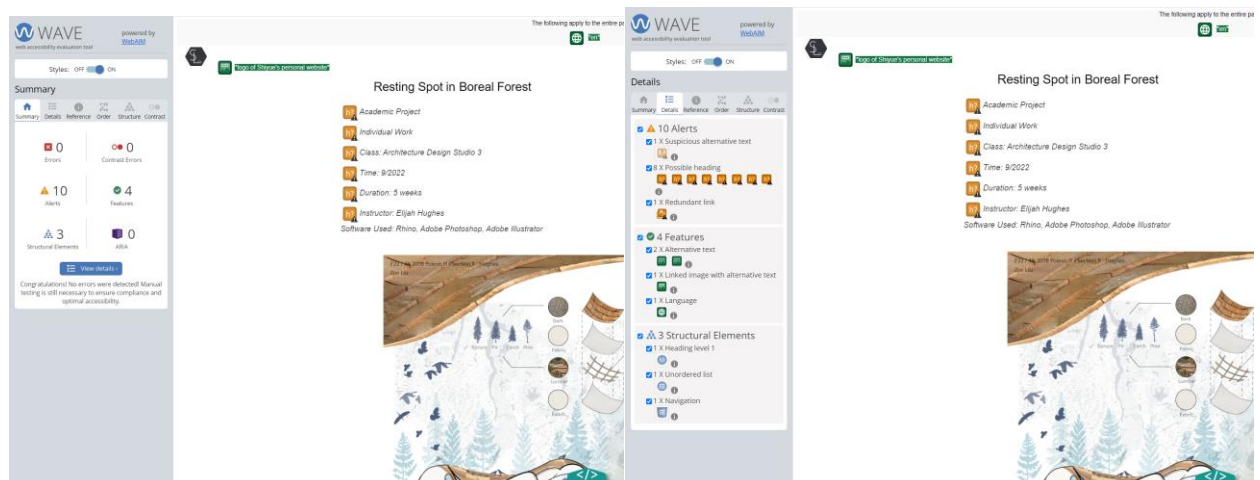
Project Detail Page – Culinary Center



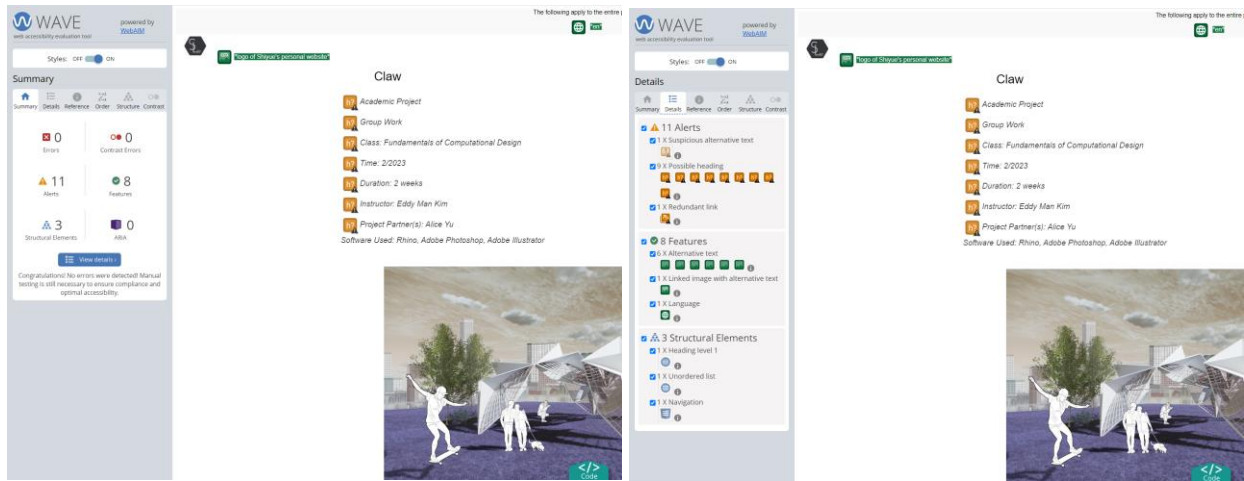
Project Detail Page - S.CraigSt.Theater



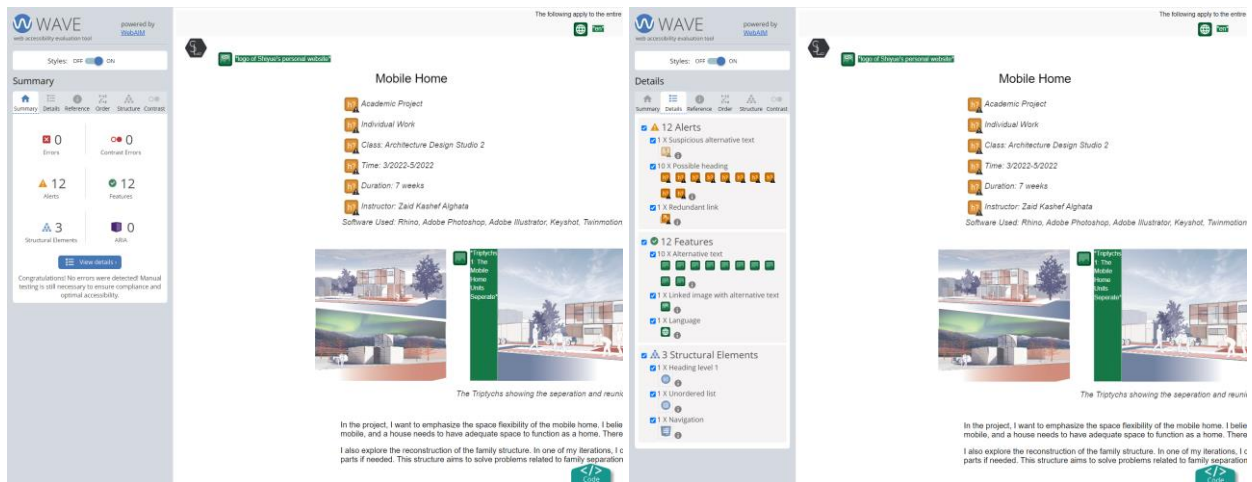
Project Detail Page - RestingSpotinBorealForest



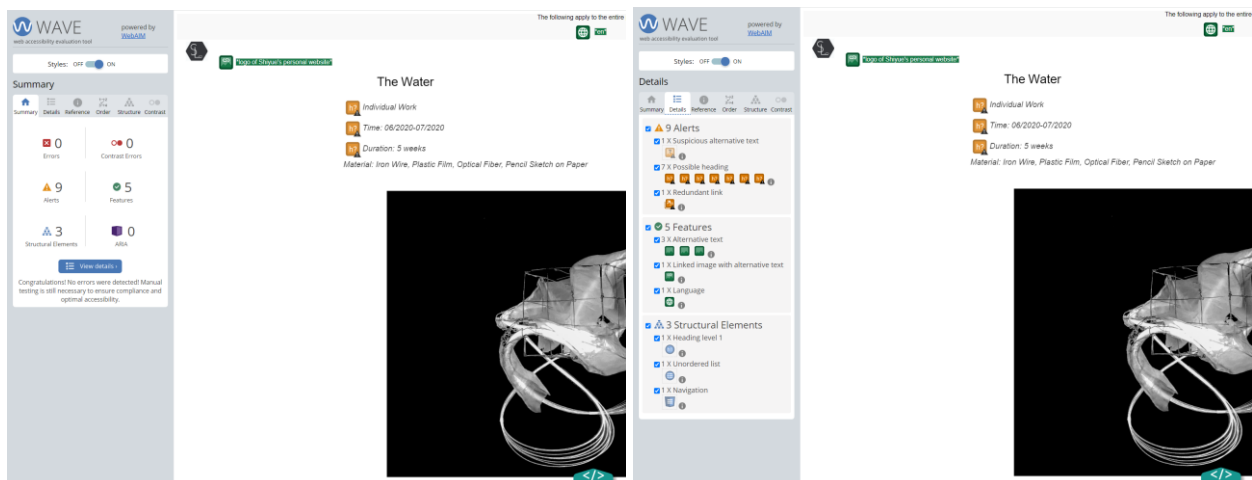
Project Detail Page - Claw



Project Detail Page – Mobile Home



Project Detail Page – the Water



Project Detail Page – Hutong and Galaxy Soho

WAVE

powered by

Stuba

Styles: OFF ON

Summary

0 Errors

0 Contrast Errors

9 Alerts

4 Features

3 Structural Elements

0 ARIA

View details

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

The following apply to the entire page

Hutong and Galaxy Soho

Individual Work

Time: 09/2020

Duration: 2 weeks

Material: Pencil Sketch on Paper

Code

WAVE

powered by

Stuba

Styles: OFF ON

Details

9 Alerts

1 X Suspicious alternative text

7 X Possible heading

1 X Redundant link

4 Features

2 X Alternative text

1 X Linked image with alternative text

1 X Language

3 Structural Elements

1 X Heading level 1

1 X Unordered list

1 X Navigation

The following apply to the entire page

Hutong and Galaxy Soho

Individual Work

Time: 09/2020

Duration: 2 weeks

Material: Pencil Sketch on Paper

Code

Project Detail Page – WaterTownsin“Jiangnan”

WAVE

powered by

Stuba

Styles: OFF ON

Summary

0 Errors

0 Contrast Errors

10 Alerts

6 Features

3 Structural Elements

0 ARIA

View details

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

The following apply to the entire page

Water Towns in “Jiangnan”

Individual Work

Time: 07/2020

Duration: 2 weeks

Material: Card Board, Voile, Gouache on Paper

Water Town Model

Size: 12 x 12 x 12 in.

In this project, I extract shapes of trapezoid from the houses in Wu Guangzhong's Ink w Jiangnan, an area in south China. By reconstructing the layout of the buildings and add display the dramatic mixture of traditions and imaginary technological cityscape.

Code

WAVE

powered by

Stuba

Styles: OFF ON

Details

10 Alerts

1 X Suspicious alternative text

9 X Possible heading

1 X Redundant link

6 Features

4 X Alternative text

1 X Linked image with alternative text

1 X Language

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Code

Project Detail Page – Cathedral Facade

WAVE

powered by

Stuba

Styles: OFF ON

Summary

0 Errors

0 Contrast Errors

10 Alerts

3 Features

3 Structural Elements

0 ARIA

View details

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

The following apply to the entire page

Cathedral Facade

Academic Project

Individual Work

Class: Drawing 2

Instructor: Douglas Cooper

Time: 03/2022

Duration: 4 hrs

Material: Pencil on Paper

Code

WAVE

powered by

Stuba

Styles: OFF ON

Details

10 Alerts

1 X Suspicious alternative text

9 X Possible heading

1 X Redundant link

3 Features

1 X Alternative text

1 X Linked image with alternative text

1 X Language

3 Structural Elements

1 X Heading level 1

1 X Unordered list

1 X Navigation

The following apply to the entire page

Cathedral Facade

Academic Project

Individual Work

Class: Drawing 2

Instructor: Douglas Cooper

Time: 03/2022

Duration: 4 hrs

Material: Pencil on Paper

Code

Project Detail Page – Our Old Days

WAVE

web accessibility evaluation tool

powered by

StepCyber

Style: OFF ON

Summary

Summary Details Reference Order Structure Contrast

0

Errors

0

Contrast Errors

8

Alerts

3

Features

3

Structural Elements

0

Issues

View details

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

1

Copy of Stephen's personal website


Our Old Days

Individual Work

Time: 08/2020

Duration: 1 weeks

Material: Gouache on Paper



WAVE

web accessibility evaluation tool

powered by

StepCyber

Style: OFF ON

Details

Summary Details Reference Order Structure Contrast

8 Alerts

1 X Suspicious alternative text

1 X Possible heading

1 X Redundant link

3 Features

1 X Alternative text

1 X Linked image with alternative text

1 X Language

3 Structural Elements

1 X Heading level 1

1 X Unordered list

1 X Navigation

2

Copy of Stephen's personal website

Our Old Days

Individual Work

Time: 08/2020

Duration: 1 weeks

Material: Gouache on Paper

