

05-430: Programming Usable Interfaces
G/A Augustin (gaugusti)
04/26/24

FP4: Final Project WriteUp

Part 1: In 300 words (only!) describe your website (We will stop reading at 300 words, so please be concise). Include the following:

My project is a minisite about the Risograph Printer and how it works! I talk about its history, its place within crafting culture, and resources to start getting started in making your own art! This website is great for people who are already interested in print-making or illustrative/design based art, but haven't been exposed to Riso yet and are seeking to learn. My website features videos, ways to understand how printing works, and why it's a great skill to pick up even if you're not an artist.

The screen sizes for testing are as follows: Desktop (1920x1080) and iPadMini (1024 x 768)

Part 2: Use a bulleted list to describe how a user would interact with your website. For each item in your list, state the interaction type you implemented how we should reproduce it (e.g., click on X on page Y, or scroll on page X, etc.)

- Color Extractor: Click on 'Riso Playtime' Page
- Zines & Riso - Hover on gallery images: Scroll over images in Gallery to see artist name.

Part 3: Describe what external tool you used (JavaScript library, Web API, animations, or other). Following the bulleted list format below, reply to each of the prompts)

- P5 & P5.Riso: I chose P5 because it is a very well documented artistic javascript library and aimed at helping create artistic pieces through code. I used it for my creation of a Risograph printer simulator on my site that shows how an image is split into different colors. I think it adds to my website because it helps more fully demonstrate how these types of printers work and what makes them so specifically unique and prevailing as an art type.
- Animations: There are a few select animations on my website. I did this because Risograph printing is an iterative process that is easier to understand while seeing it in motion. Most prominently, I feature an Animation on the 'What is Riso Printing'/Riso_Printing.html page in order to show the anatomy of the printer. I think it adds to my website by adding a higher level of understanding!

Part 4: Describe how you iterated on your prototypes, if at all, including any changes you made to your original design while you were implementing your website. (4-8 sentences max)

- While my site design and intention remained relatively the same, I went through a lot of iterations on how I should implement the 'Playtime' page – originally, I was intending on persistent font color changing and layering in order to show how Risograph prints and leaning more into a skeuomorphic interface. However, over time, I realized that did not

properly show how Riso prints. Instead, I decided to change my interaction to doing an Image editor and simulator.

Part 5: What challenges did you experience in implementing your website? (2-4 sentences max)

- While I'm familiar with P5 controls generally, this was my first time using P5.Riso – the Risograph specific sub-library. The P5.Riso library changes base functions within the overall P5 code & so I spent a lot of time reworking and refitting my code to fit its new functions. P5 also does not easily combine with outside Javascript controls so understanding how to best showcase this had an immense learning curve.

WAVE Screenshots

Index/Home Page

The screenshot displays the WAVE web accessibility evaluation tool interface. The top bar shows the WAVE logo, "powered by WebAIM", and the address: `https://gaugust09.github.io/PUI-2024S/#`. A "Styles" toggle is set to "ON". The left sidebar contains a "Summary" section with icons for Errors (0), Contrast Errors (0), Alerts (0), Features (3), Structural Elements (7), and ARIA (0). A message at the bottom of the sidebar states: "Congratulations! No errors were detected! Manual testing is still necessary to ensure compliance and optimal accessibility." The main content area shows the website's index page. It features a header with the text "The following apply to the entire page:" and a "Screen" icon. The page content includes a large image of a green risograph printer, a section titled "What is Riso Printing?" with a description of the technique, a "Welcome to August's world of Riso!" message, and a list of links: "Riso's history Craft Culture", "Riso Playtime", "Zines & Riso Resources", and "About the Author". A "Code" icon is visible at the bottom right.

Riso History

Address: >UI-2024S/final_assgn/riso_printing.html

Styles: OFF ☒ ON

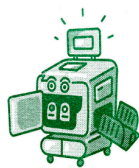
Summary

Summary Details Reference Order Structure Contrast

0 Errors	0 Contrast Errors
0 Alerts	3 Features
7 Structural Elements	0 ARIA

[View details](#)

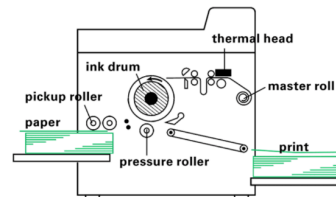
Congratulations! No errors were detected! Manual testing is still necessary to ensure compliance and optimal accessibility.



- [What is Riso Printing?](#)
- [Riso's history Craft Culture](#)
- [Riso Playtime](#)
- [Zines & Riso Resources](#)
- [About the Author](#)

To understand Risograph machines, you also have to understand the process of additive color processing. When using a Risograph machine, one sheet of paper goes through the printer multiple times because of how it layers and understanding colors. Riso machines work by transforming a singular layer of an image into greyscale and then passing it through and applying varying levels of inking pressure to a page. For example — you may first begin a Print by making a stencil of the extracted 'Blue' layer that is rendered as a greyscale Master. Once you print your X number of sheets with just blue, you would then change your ink color, and re-pass it through the machines.

Paper, when pressed through a machine, is passed through (usually) one ink drum with the stencil wrapped tightly around it. When the paper passes under the drum, it prints the color layer onto it. In order to add additional colors to the print, you would change the ink color, and push the same pages through the printer in order to create a vibrant artwork.



An animated graphic showing how risograph printing works.

Zines & Resources

WAVE powered by WebAIM

web accessibility evaluation tool

Address: o/UI-2024S/final_assgn/resources.html

Styles: OFF ☒ ON

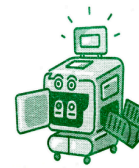
Summary

Summary Details Reference Order Structure Contrast

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

[View details](#)

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



- [What is Riso Printing?](#)
- [Riso's history Craft Culture](#)
- [Riso Playtime](#)
- [Zines & Riso Resources](#)
- [About the Author](#)

The following apply to the entire page:



Zines and Riso


Zines (often shorted from Magazine or Fanzine) are a form of hand-made, (sometimes!) small-batch art form. Zines are generally understood to be miniature magazines that are self-published works of original artwork and texts arranged into small booklets. Zines have a history in the usage of political and social movements as ways for communities and subcultures generally based of marginalized individuals to share ideas, express themselves and thoughts, and provide space for one another.

Usually reproduced through copy machine, many artists have begun to use Risograph printers for Zine making and distribution. Because it is cheaper to utilize a Riso printer for large batches, they are an extremely popular use medium for Zine makers to share their work. Risograph printing and Zines are usually tied together, with many Zine artists utilizing the printers and sharing them with their communities. For this purpose, Zines and Riso are intrinsically tied together both historically and culturally.

Resources!

- [The Creative Independent: How to make a zine](#)
- [ALL ABOUT RISO - olivia and pindot](#)

About the Author


 **WAVE**
web accessibility evaluation tool


powered by
WebAIM


Address: ub.io/PUI-2024S/final_assgn/author.html →


Styles: OFF ☐ ON ☒


Summary
Summary Details Reference Order Structure Contrast


 0
Errors

 0
Contrast Errors

 1
Alerts

 3
Features


 7
Structural Elements

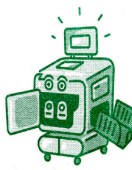
 0
ARIA

[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:

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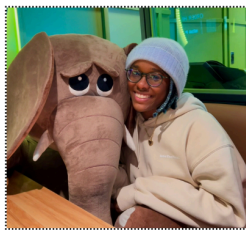
What is Riso Printing?

Riso's history Craft Culture

Riso Playtime

Zines & Riso Resources


About the Author




A young femme nonbinary person. They are black and posing with a stuffed elephant.

About the Author !! **

Hi again! In case you missed it, my name is August :o)! Away from my interest in the arts, I'm an avid crafter, designer, and video game researcher in the HCI. I like to bake sweets for my loved ones, weight lift, and play with my dog. I hope you enjoy my little site!

 Contact me: gaugusti@andrew.cmu.edu

 Code

**note: I did see the alerts present on the Author page – the alert is because it detected a possible header, but I wanted my “Contact Me:...” div to be regular text.*