



Paletä

Your Creative Companion

Group Root 9
November 27 2023



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Project Overview

Our project is designed to cater to visual artists and individuals seeking creative inspiration.

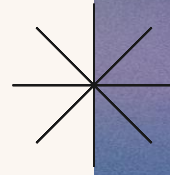
Key Features:

1. Image-Based Colour Extraction

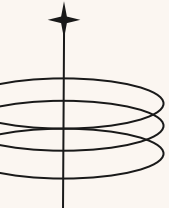
- Extract dominant colours from user-uploaded images,
- Identify and organize the extracted colours into visually appealing palettes.

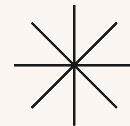
2. Prompt-Driven Palette Generation

- Generate colour palettes based on text prompts through a chat interface.
- Experience a dynamic and personalized interaction, enhancing the overall user experience.



Paletta





Our APIs



ColorAPI

Comprehensive Color Data

Offers color names for palettes, HEX values, and RGB values for design precision.

Interactive Backgrounds

Provides data to create engaging, animated color backgrounds for digital media.



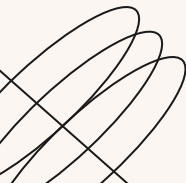
OpenAI API

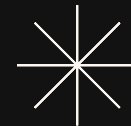
Creative Content Generation:

Utilizes advanced AI to process descriptive prompts into creative outputs, including HEX color codes.

Pattern Recognition:

Employs a HEX_COLOR_PATTERN regex to extract color data from AI-generated content.





CI/CD Infrastructure

Continuous Integration

Continuous integration is done with a Github Action workflow file which runs a test command.

Continuous Deployment

Continuous deployment is done with Netlify and Heroku, deploying static and server sided applications respectively.





Project Takeaways/Challenges



Group Communication

Communicating regularly as a group is hard when used to working individually.

Learned that communication should be frequent and have set timetables.

Simultaneous Coding

Without proper communication, coding at the same times as others causes conflicts

Learned to pull often and always check github for updates to not push over another commit.

Creating test cases

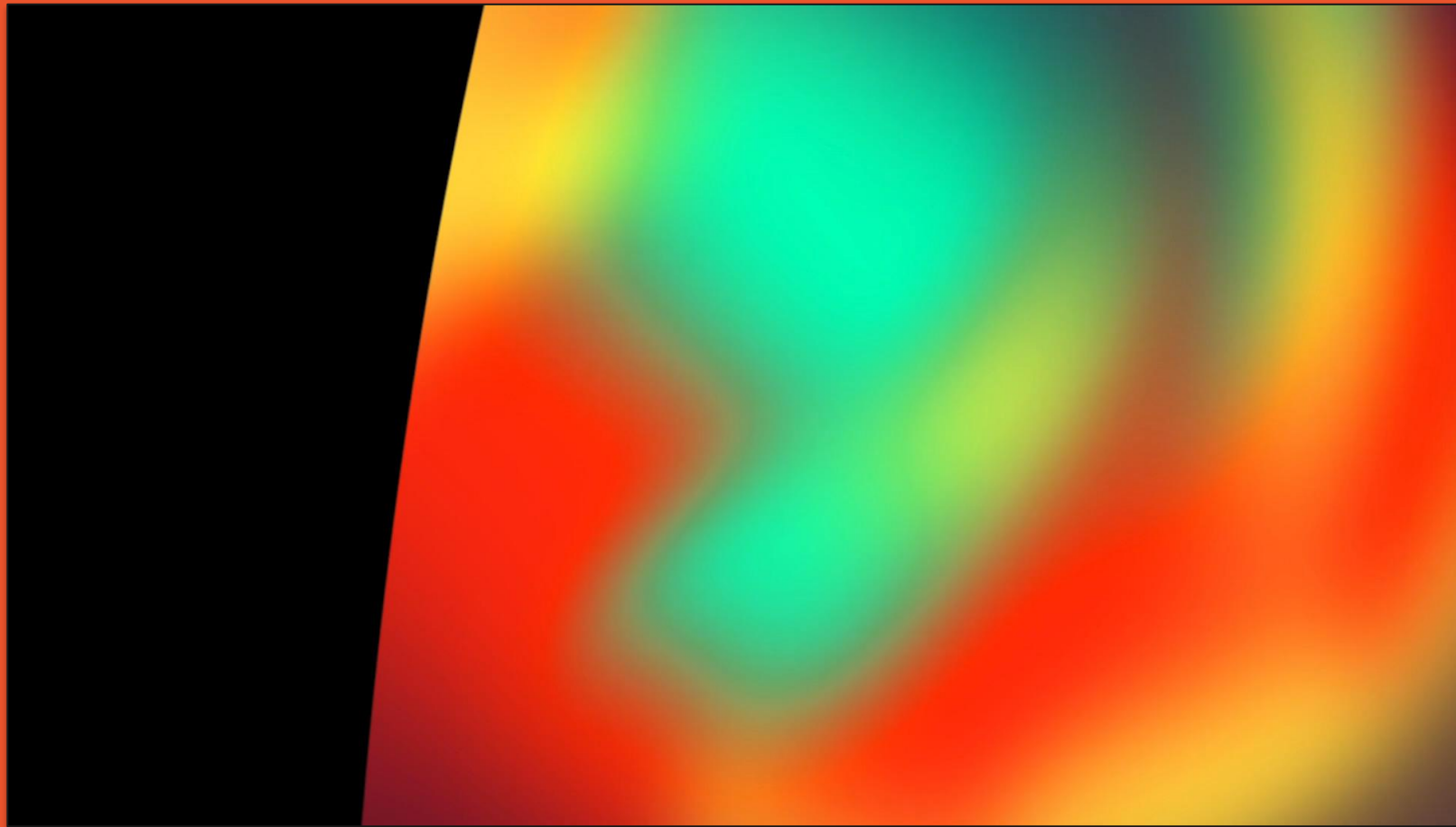
Testing the UI elements of the web application was tricky to figure out.

Took some time to figure out to use Jest with Github Actions.

Choosing APIs

Most of our initial APIs were changed from our initial plan.

Difficult to find best API from initial planning phase.



<https://youtu.be/yhZiRMkjtFk>



THANK YOU!

We will now answer questions

LINK: [Found Here](#)



Conclusion and Credits

Our group members and their contact information can be found below as well as our Github Repository.

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Github Repository: [Linked Here](#).

