Image Sonification

Week 4: Mapping Pixel Data to Sound Parameters

Objective: Experiment with mapping pixel data to sound properties like pitch, volume, and duration.

Assignment Details:

1. **Develop Mapping Functions**:
   - Write a Python function that takes pixel data as input and converts it into sound parameters (e.g., mapping brightness to pitch or RGB values to different sound effects).
   - Generate short sound files using libraries such as pydub or pygame to demonstrate your mapping.
2. **GitHub Requirements**:
   - Continue working in the same repository, making regular commits as you progress (e.g., "Added sound mapping function" or "Tested sound generation with small image section").
   - Update your README.md with details on how your mapping function works, including instructions for running your code and generating sound files.
   - Document any bugs or issues using GitHub Issues to keep track of challenges.
3. **Deliverables**:
   - Submit your GitHub repository link again, ensuring it includes:
     - The code for your sound mapping function and sound generation.
     - A sample sound file demonstrating the mapping.
     - Updated documentation in the README.md file.