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CS338: Graphic User Interface

Project: Color Beats

Stage: 3.1

File Description

Class explanation:

_imageColor.java:

- 1. public static void resize(String imgPath, String reimgPath, int w, int h, String type):
- + Resize the image for faster processing. The program might take very long time if user input a high quality image.
 - + We just need the major colors not details color of every pixels.
 - 2. public static List<Color> valRGB(String filepath):
 - + Extract the RGB value
 - 3. public static Multimap<String, String> imgData(String image):
 - + Put the rgb value in a multi map with key as name of the color.
 - 4. public String getCatergory(String rgb):
- + Extract the category of the rgb such as red, green, blue, white, black, ... base on the HSL value.

_sound.java:

- 1. public static void play (String type, Integer hue, Integer but):
 - + Play the sound when button is click

_customButton.java:

- 1. public customButton (Color rgb):
 - + Used to customized the background and hover color of button.

_mainWindow.java:

+ Create the swing user interface of the application.

_main.java

+ Run the program.

Further Development for Final Stage:

- Option button that allows user to choose level of analyzing: High, Medium, Low.
- _ Background pictures.
- _ Add more instruments for sound library.

Test Image:







