Construction of a “Color Blog”

**Background Information**

Color blogs originated as an internet fad in popular social blogging platforms such as Tumblr and Blogspot. Each blog is different in how it operates, but the ideas are generally the same: images are posted in sequence such that each image is chronologically surrounded by images with similar color palettes. These sequences of images have a pleasing aesthetic, though they are created manually by people with an artistic eye. I would like to venture into generating such a thing automatically.

**Proposed Project**

I will create a bot that automatically generates a “color blog.” The bot will scrape images from the internet (from safe-for-work image websites, such as flickr) and use image processing techniques to deduce a color palette for each image. It will then automatically generate a stream of images that exhibit qualities of a well-done color blog. This stream of images will be presented to users in some graphical context such that you can scroll through the images and view the gradual change in color palettes, be it a web page or desktop application.

Generating a stream of images in a color-blog-like fashion might be a bit tricky. After color palettes are generated, I must construct a space of color palettes such that I can generate a stream of images by walking through palette-space and selecting images that exist near my route. This might be tricky, because the number of colors in an image’s palette is not necessarily fixed.

**Examples**

To get a better idea of what I am proposing to construct, please see these example color blogs:

http://color-carousel.tumblr.com/
http://coluhr.tumblr.com/

Here is also an example of a blog based around identifying color palettes of images. I hope to generate such palettes automatically:

http://design-seeds.com/

**Proposed Grading**

10% - Automated image scraping
30% - Palette Analysis: Automated generation of color palettes given an image
40% - Construction of a “palette space” wherein I can generate random routes
20% - A visualization of the image stream generated by routes through palette space