# **Project Progress Report**

"Stained-Glass"

Course: COMP 4102 Date: 2021/03/31 Student Names and Student Numbers:

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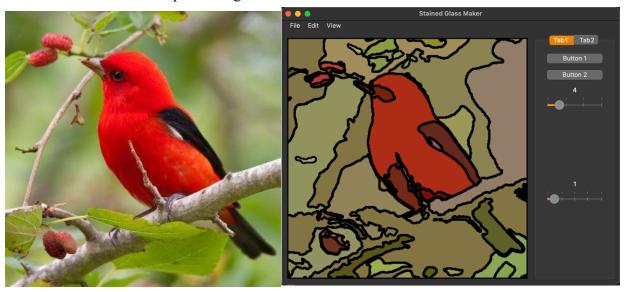
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# **1. Introduction (0.25-0.5 page)**

The purpose of this project is to create stained-glass representations of images, and give options for users to customize the processing.



The processing is done by running a k-mean colour clustering on the image, and then collecting the contours of each cluster. Colours are selected by taking the mean colour of the contour, but this process needs to be refined, as the colours seem muted and the blacks are poorly selected. This will likely be changed to a frequency selected. A boost in saturation and lightness might also be considered.

Features for limiting the size of colour regions and smoothing contours will be added.

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## 2. Tasks (0.5-1 page)

List the project tasks that must be completed in order to demonstrate your project. Write "done" in front of a completed task.

Task	Effort/expected	Expected	Issues
	effort (in days)	Completion	
		day	
Addition of colour	1		
options			
Smoothing contours	1		Some shapes are already well made.
			Might do a check on contour length vs
			contour area instead of a flat smoothing
			to all contours.
Additional shape	0.5		This covers easy options such as line
options			thickness.
Max Area setting	2		Will split contours that are over a
			certain size. Unsure as of yet on how to
			decide the split.
Save output Button	1		•
Process K-means over	2		K-means does well to locate large scale
subregions			features, but loses smaller features.
			Processing the image over subregions
			allows k-means to identify features
			without the computational overhead of
			increasing k.
Abstract colours	2		more and m

#### 3. Show Stoppers (0.5 page)

The core foundation of the project is complete, so there are no show stoppers. The remaining portion of the project are improvements to the workings, but don't include large overhauls.

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