

2016 DIP Final Project

Image Style Transfer

Genius Painter

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Concept

- Reserve content image's structure
 - Do image segmentation on content image
- Put style image's color and texture into content image
 - Do edge detection on style image and find the strokes and color
 - Pick regional strokes to paint into each segment of the content image

Overview



Edge
Detection



Let's Paint!



Segmentation



Schedule

- 12/27 ~ 01/03 - Content image segmentation & Transfer style image to palette
- 01/04 ~ 01/12 - Fill color & texture into the content image
- 01/13 ~ 01/16 - Fine tuning
- 01/17 ~ 01/19 - Demo

Cooperation

- Content image segmentation - 忠道
- Transfer style image to palette - 建宇
- Use generated palette to paint - Together
 - Maybe try different ways to find the best