Neural Style Transfer NeuralArt - Stylize your Image

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Overview

Our project aims to recast the content of one image in the style of another image by implenting a neural algorithm by Leon A.Gatys, Alexander S. Ecker and Matthias Bethge.

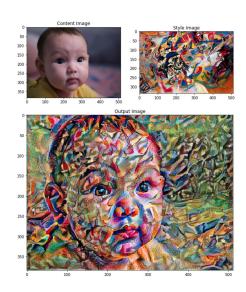
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What is Neural Style Transfer?

- Neural Style Transfer is an optimization technique.
- Input:
 - Content image
 - Style reference image
- Output:
 - Stylized image: looks like the content image, but painted in the style of the style reference image

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Example



Key Finding

The representations of content and style in the Convolutional Neural Network are seperable.

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Technical Stack

- Keras (TensorFlow backend)
- NumPy
- SciPy
- Flask

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Status

- Read the research paper.
- Completed the implementation of model.
- Working on website.

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Learnings

- Version Control System
- Making presentation using Beamer
- Convolutional Neural Networks
- HTML, CSS and JavaScript

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Difficulties

 The program is taking lot of time to output stylized image.

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Thank You!

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