Neural Style Transfer
NeuralArt - Stylize your Image

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Overview

Our project aims to stylize image by implenting A Neural Algorithm of Artistic Style paper by Leon A.Gatys, Alexander S.Ecker and Mathias Bethge.
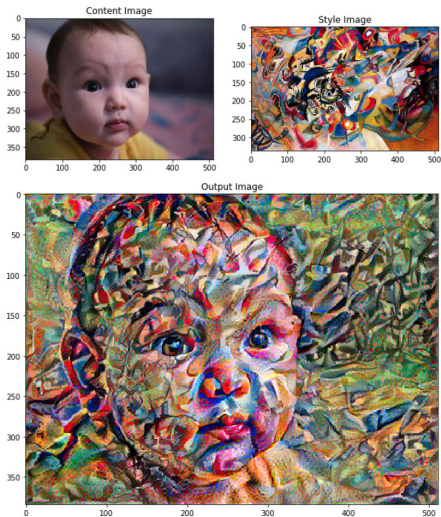
https://arxiv.org/pdf/1508.06576.pdf

What is Neural Style Transfer?

Neural style transfer is an optimization technique used to take two images:

- a content image
- a style reference image

and blend them together so the output image looks like the content image, but painted in the style of the style reference image.

Example

Key Finding

The representation of content and style in the Convolutional Neral Network are seperable.

Technical Stack

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

Status

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

Learnings

- Learned to work with Version Control System conveniently.
- Learned to make presentation using Beamer.
- Studied about CNN.
- Learned HTML and CSS.

Difficulties

- The program is taking lot of time to output stylized image.(Working on it)

Thank You :)