# Neural Style Transfer NeuralArt - Stylize your Image

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#### Overview

Our project aims to stylize image by implementing A Neural Algorithm of Artistic Style paper by Leon A. Gatys, Alexander S. Ecker and Matthias Bethge.

https://arxiv.org/pdf/1508.06576.pdf

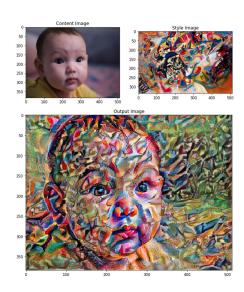


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## What is Neural Style Transfer?

- 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

# Example



# Key Finding

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

#### Technical Stack

- Keras
- Tensorflow
- NumPy
- SciPy
- Matplotlib
- Flask

#### Status and Statistics

- Project complete.
- Total number of commits:
- Total lines of code:

#### Future Extensions

- Apply neural style transfer algorithm on videos
- Edit photos of different formats
- Photo editor- image enhancement, image manipulation, crop, rotate etc

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### Learnings

- Version Control System.
- 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.
- Allocating space for user's image.

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#### **Future Extensions**

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# Thank You!