# Neural Style Transfer NeuralArt - Stylize your Image

Avishi Gupta, Vaseem Naazleen, Shivangi Tomar

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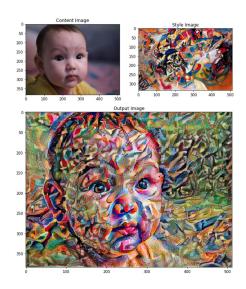
#### Overview

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



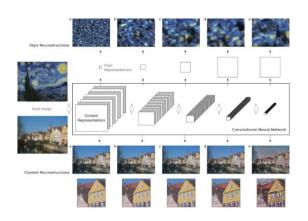
# What is Neural Style Transfer?



## 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.

# What is Neural Style Transfer?



# Key Finding

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

#### Technical Stack

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

#### Status and Statistics

- Project completed.
- Total number of commits: 210
- Total lines of code: 1122

### Learnings

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

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#### Difficulties Faced

- The program was taking lot of time to output stylized image
- Allocating space for user images

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#### 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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# Thank You!