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cs6475_neural_style _

Literate Python implementation of 'A Neural Algorithm of Artistic Style'

cs6475_neural_style

This was a final project for CS6475 (http://www.omscs.gatech.edu/cs-6475-computational-photography) at Georgia Tech. Most of the material here is duplicated in final_report.tex and in the Python notebook.

Goal

The goal of this project was to create a literate implementation (as in literate programming) / https://dentwikipedialorg/syiki/Literate_(programming)) / https://dentwikipedialorg/syiki/Literate_(programming) / https://dentwikipedialorg/syiki/Literate_(programming) / https://dentwikipedialorg/syiki/Literate_(programming) / https://dentwikipedialorg/syiki/Literate_(programming) / https://dentwikipedialorg/syiki/Literate_(programming) / https://dentwiki/Literate_(programming) / https://dentwiki/Literate_(

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https://github.com/jcjohnson/neural-style (https://github.com/jcjohnson/neural-style)
https://github.com/kaishengtai/neuralart (https://github.com/kaishengtai/neuralart)
https://github.com/andersbll/neural_artistic_style
(https://github.com/andersbll/neural_artistic_style)
https://github.com/fzliu/style-transfer (https://github.com/fzliu/style-transfer)
https://github.com/woodrush/neural-art-tf (https://github.com/woodrush/neural-art-tf)
https://deepart.io (https://deepart.io)

However, I found that many of these lacked clear explanations on why they were implemented how they were. The hope was that students in CS6475 (and maybe CS4495/CS6476 (http://www.cc.gatech.edu/~hays/compvision/)) could understand and use this implementation, starting from their existing familiarity with Python, NumPy, SciPy, and OpenCV in the algorithms of computational photography.

Notebook

The eventual result was an IPython notebook (via Jupyter (https://jupyter.org/)) which gives a simplified (but still functional) example of how to actually implement this algorithm with Caffe (http://caffe.berkeleyvision.org/).

That notebook is available in ["Neural Algorithm of Style" Notebook.ipynb](./"Neural Algorithm of Style" Notebook.ipynb) in this repository. The conversion of this to a PDF is available in neural-style-notebook.pdf (./neural-style-notebook.pdf).

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Recommended high-quality free and open source development tools, resources, reading. Currently tracking 1,458,697 (https://devhub.io/list/newest) open source projects, 443,037 (https://devhub.io/developers) developers

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