# Homework 4

Due: 2021-11-10 (Wed.) 8pm

### Introduction

In this assignment, you will explore how to use a pretrained model on ImageNet to implement Style Transfer.

• Explore various applications of image gradients, and implement techniques for image style transfer.

# Setup

### Start IPython

you should start the IPython notebook from the homework\_4 directory, with the jupyter notebook command.

# Experiments

There are ### START CODE HERE / ### END CODE HERE tags denoting the start and end of code sections you should fill out. Take care to not delete or modify these tags, or your assignment may not be properly graded.

# • Q1: Style Transfer (50 points)

In the Jupyter notebooks StyleTransfer-PyTorch.ipynb you will learn how to create images with the content of one image but the style of another.

See the code file for details.

### Submission

You need to accomplish the following files:

### 1) Convolutional Neural Networks

StyleTransfer-PyTorch.ipynb

#### 2) Report

- Please convert your experiment report to PDF format.
- You just need to upload all your code and report and do not upload datasets.