Pull Requests Made & Received

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2022.07.06

AdaIN

Style transfer with color control

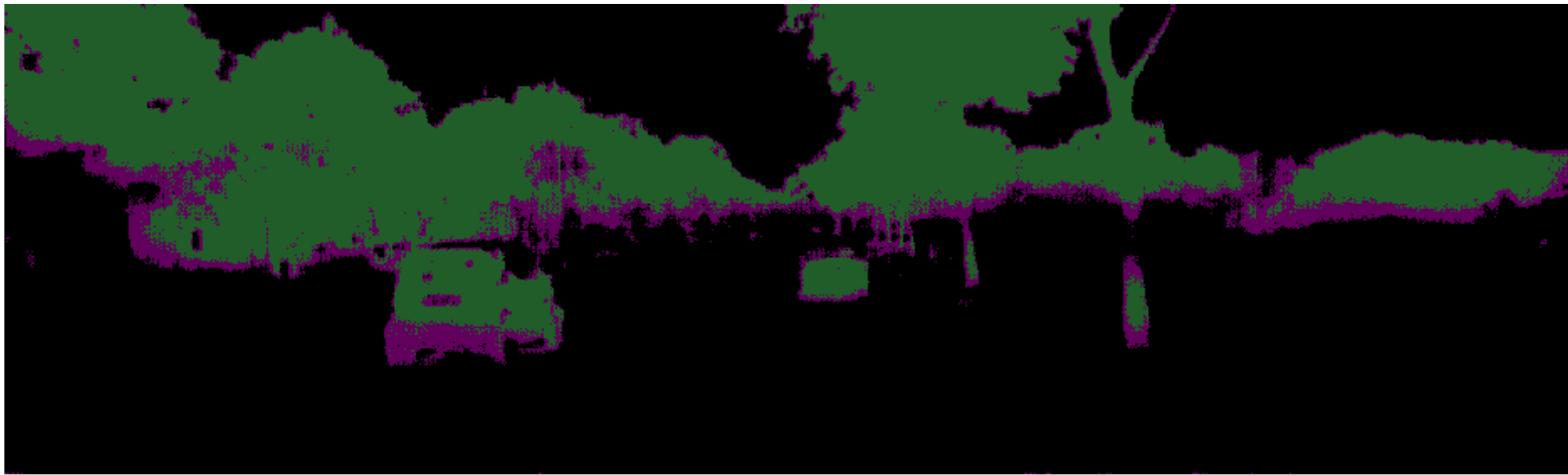Transfer the style image color to match the color of content image.

For each pixel i :

$$y_i = \frac{\sigma_y}{\sigma_x}(x_i - \mu_x) + \mu_y$$

μ : mean

σ : variance

U-Net

Implemented U-Net in PyTorch

Tensor :

[Batch, Channel, Height, Width]

Original code is implemented in Keras

Ndarray :

[Batch, Height, Width, Channel]

iSeparate

Multi-Task Audio Source Separation (MTASS) Dataset Preparation Code

→ Challenge to separate the speech, music and noise signals from monaural mixture

→ **D3Net** and **Demucs** can be applied to this task

Download following 3 datasets and generate mixture of them

Speech Dataset : **Aishell-1** (http://www.openslr.org/33/)

Music Dataset : **DSD100** (https://sisec.inria.fr/)

Noise Dataset : **Deep Noise Supression (DNS) Challenge**
(https://github.com/microsoft/DNS-Challenge/)

Received PR to Background Matting

Use Hydra for configuration Management

by Fu Lian (@dougefla)

Basic Idea

command line argument setting is written in configuration file.
→ No need to write long argument in command line.

Before

Python3 test_image.py $image_path $background_image_path $output_type —pretrained_model $model_path

After

Python3 test_image.py