

Summary of Carried Experiments

Bauhaus Style Transfer

Tips for convergence model

- **Small batch size** for quick convergence, better generalization
- **Large learning rate** to prevent failing in a local minima, and decay it to **smaller learning rate** for better convergence
- **Balance of data** in the dataset

Experiments made

- Renaissance ↔ Bau (Painting)
- Portrait ↔ Bau (Painting)
- Gothic ↔ Bau (Architecture)
- Nonbau ↔ Bau (Architecture)
- ...

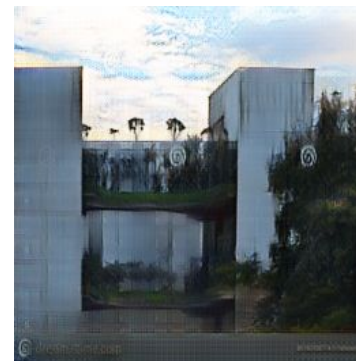
Portrait2Bau Results



Sustainable <-> Bauhaus

- First Experiment:
 - TrainA: 180, TrainB: 180, TestA: 90, TestB: 90
 - Number of epochs: 100, Number of epochs decay: 100
- Second Experiment:
 - Check the datasets
 - Filter out sustainable images that look unreal, or with text on it
 - Add some Bauhaus buildings images from internet
 - Try to keep a balance in the dataset
 - TrainA: 180, TrainB: 180, TestA: 66, TestB: 115
 - Number of epochs: 300, Number of epochs decay: 300

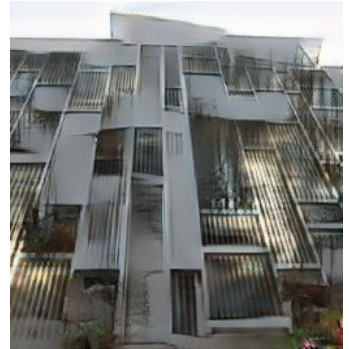
Result (First Experiment)



Result (First Experiment)



Result (Second Experiment)



Result (Second Experiment)



Temple <-> Bauhaus

- Third Experiment:
 - TrainA: 336, TrainB: 180, TestA: 200, TestB: 115
 - Number of epochs: 200, Number of epochs decay: 300
 - (training in herder computer stopped for unknown reason after 277 epochs)

Result (Third Experiment)

