Face Aging by CycleGAN

Reference:

Unpaired Image-to-Image Translation using Cycle-Consistent Adversarial Networks
Jun-Yan Zhu*, Taesung Park*, Phillip Isola, Alexei A. Efros
Berkeley AI Research Lab, UC Berkeley
In ICCV 2017.

Young to Old ❓ Old to Young

Training Procedure

DataSet : UTKFace

Domain A : Young (7Y - 28Y)
Domain B : Old (47Y - 90Y)
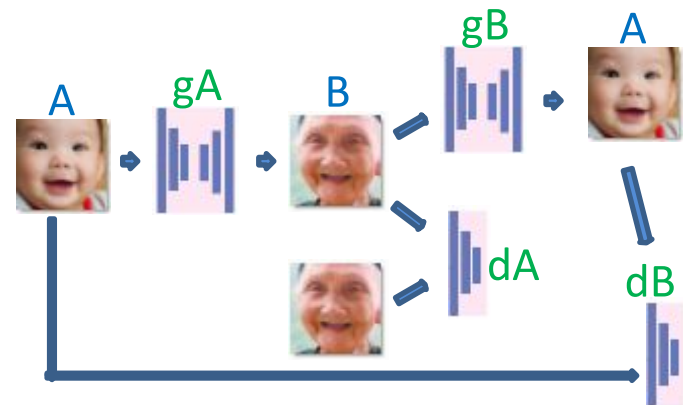
Generator model:

1. Res-Net
2. U-net

Parameter:

Model (A to B) : Generator A loss weight x 10

DataSet Adjustment

1. Men & Women merged (Res-net)
2. Men & Women merged (U-net)
3. Men only (U-net)
4. Women only (U-net)
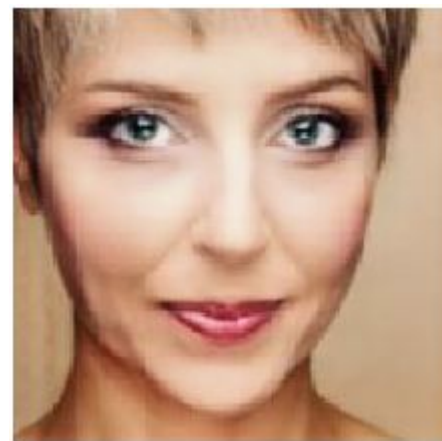5. Young Women + Old Men (U-net)
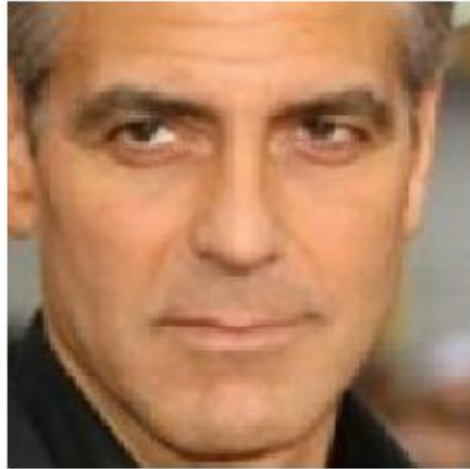
Young Women + Old Men

20 epochs

older   younger

Young Women + Old Men

older younger

Training Continued   30 epochs