

- Ran with Kaggle Data

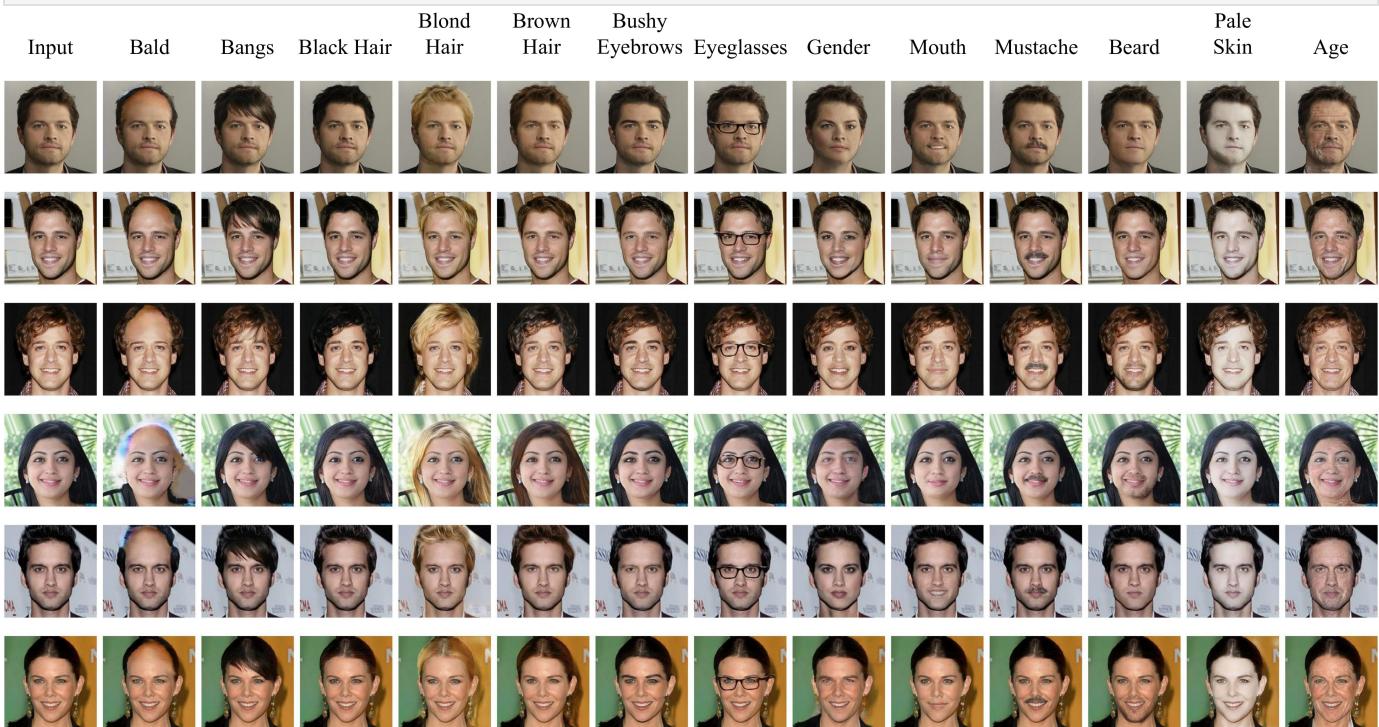
Data

```
256.jpg* mask.jpg* overview.jpg* schema.jpg*
```

In [39]:

```
from PIL import Image  
Image.open("256.jpg")
```

Out[39]:

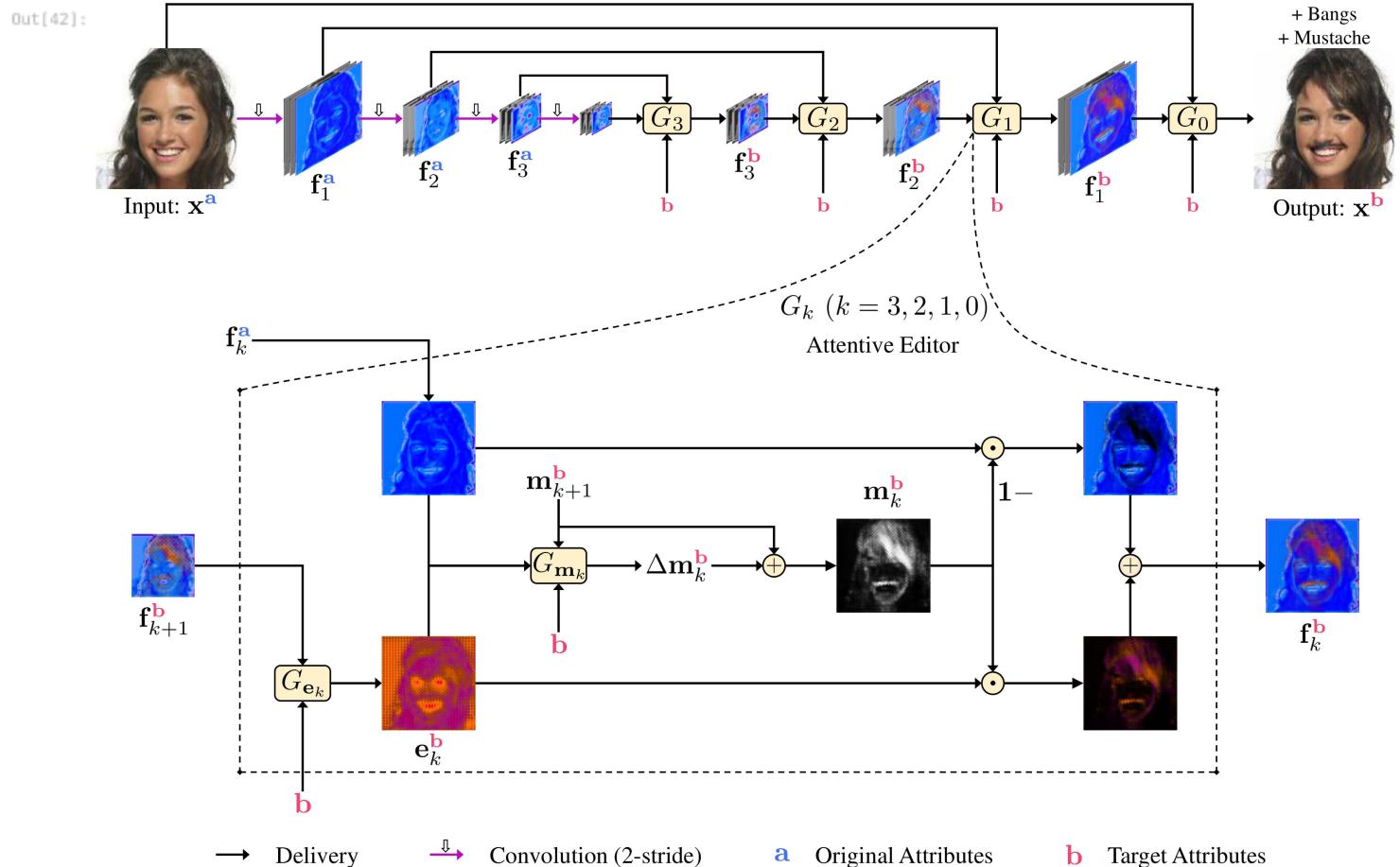


Original

Attention: Where to Add “Bangs”

Edited

In [42]: `Image.open("schema.jpg")`

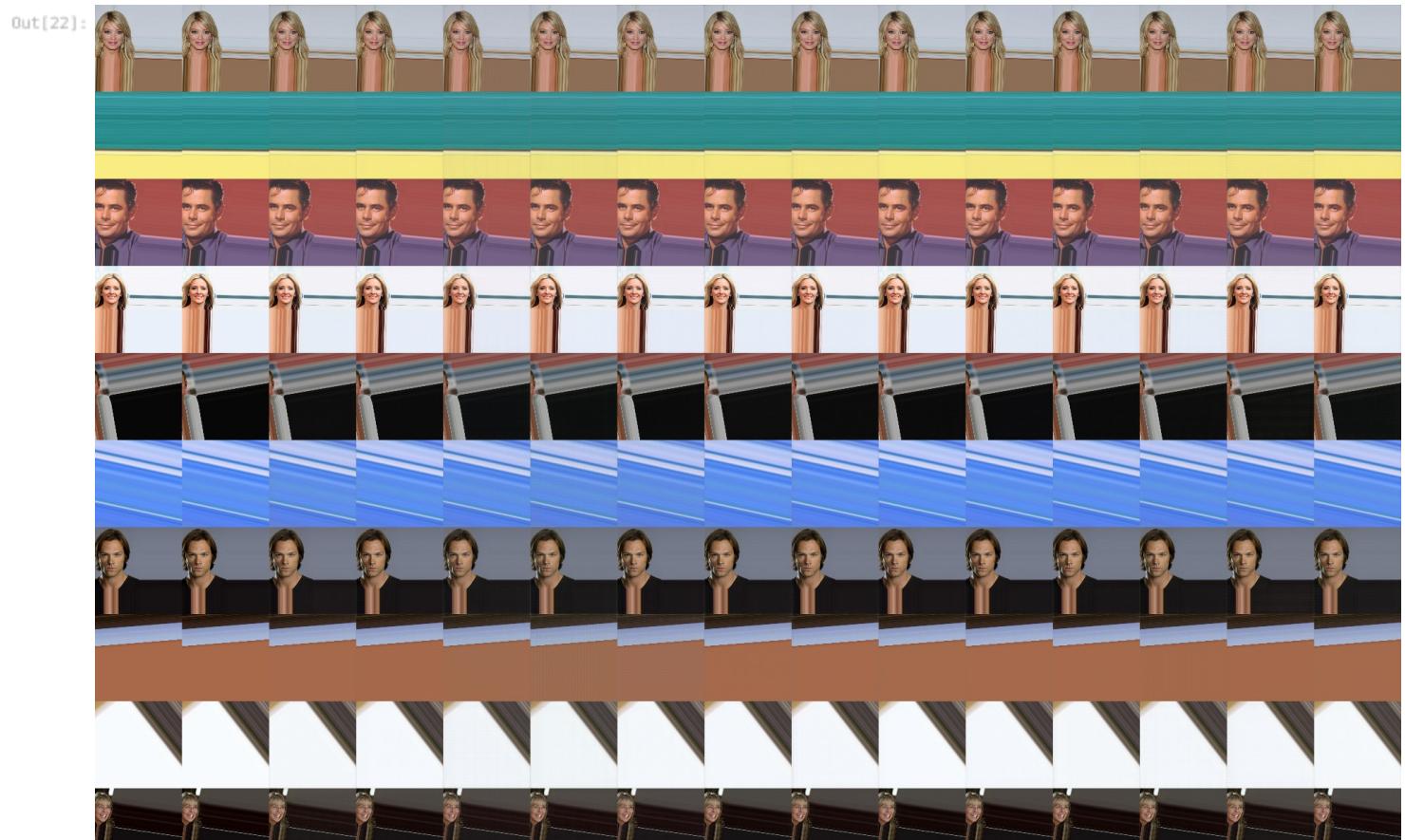


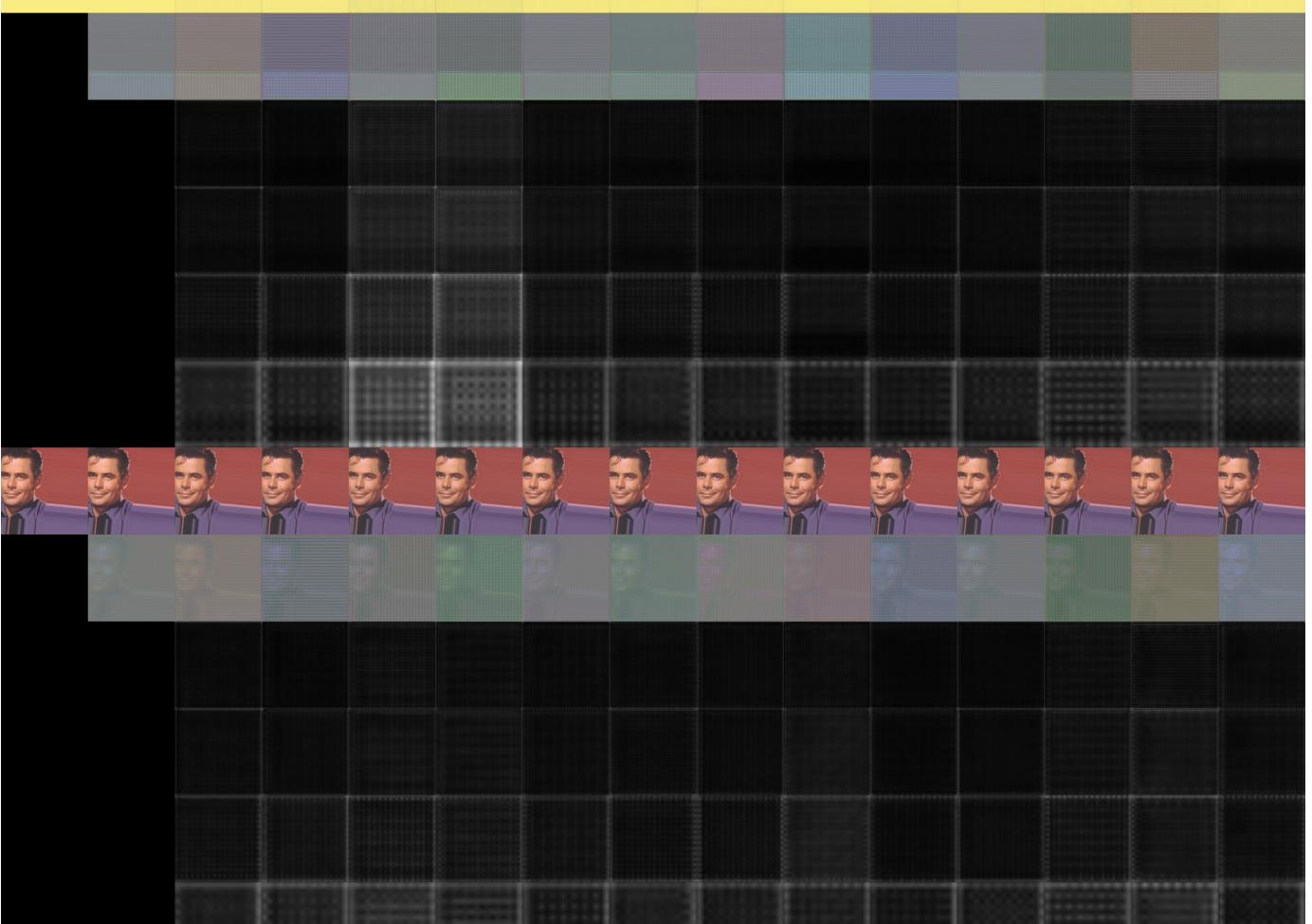
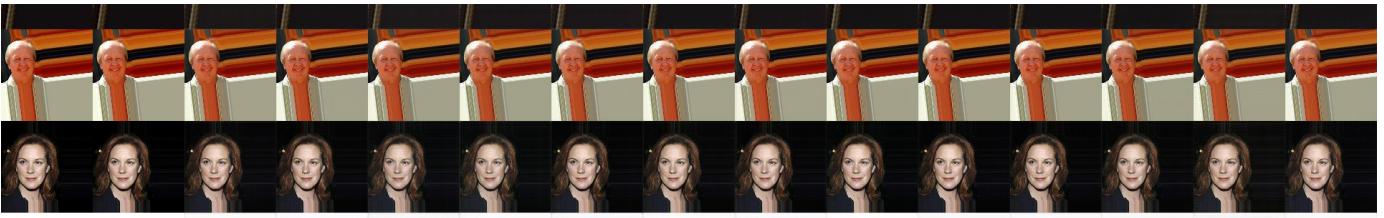
Samples training

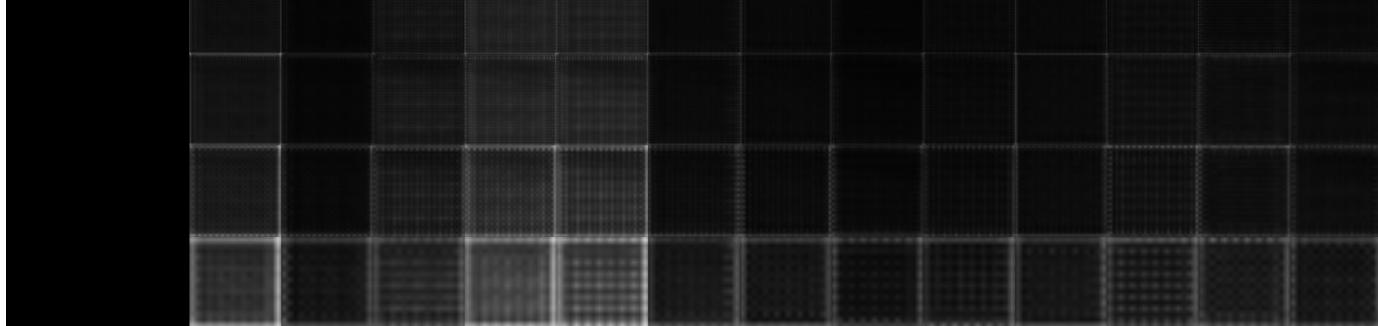
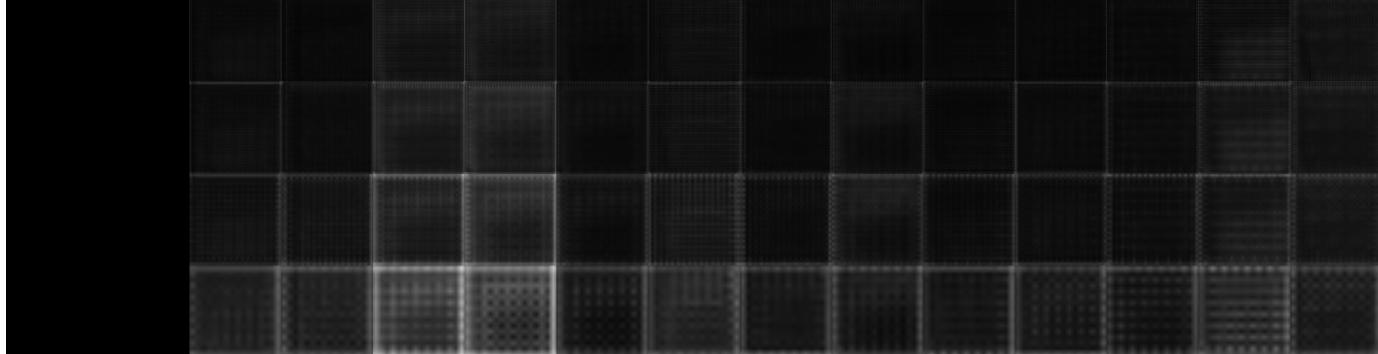
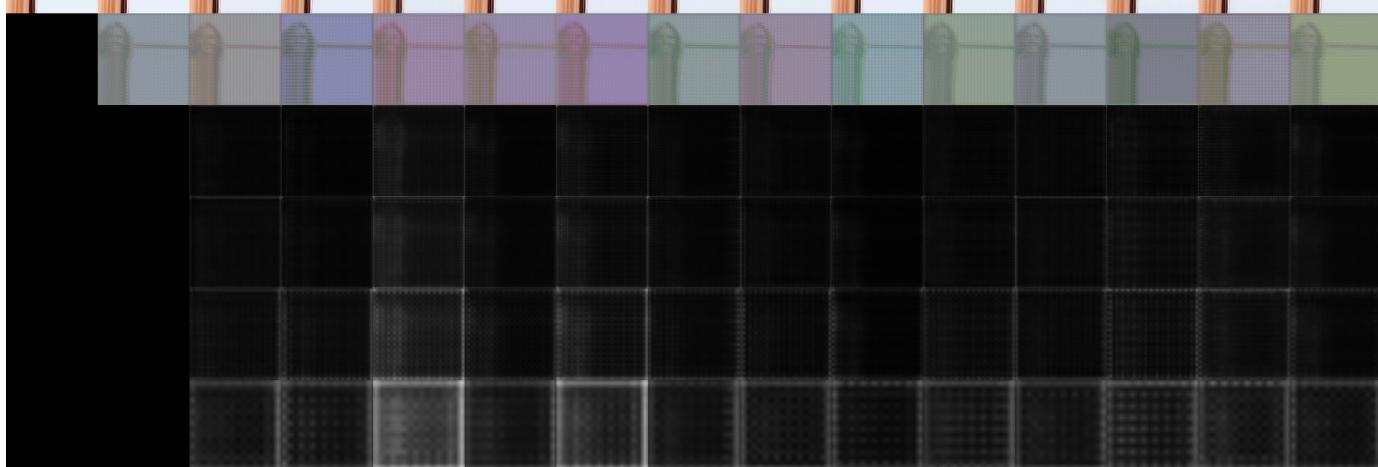
CUDA_VISIBLE_DEVICES=0 \ python train.py \ --experiment_name PA-GAN_128

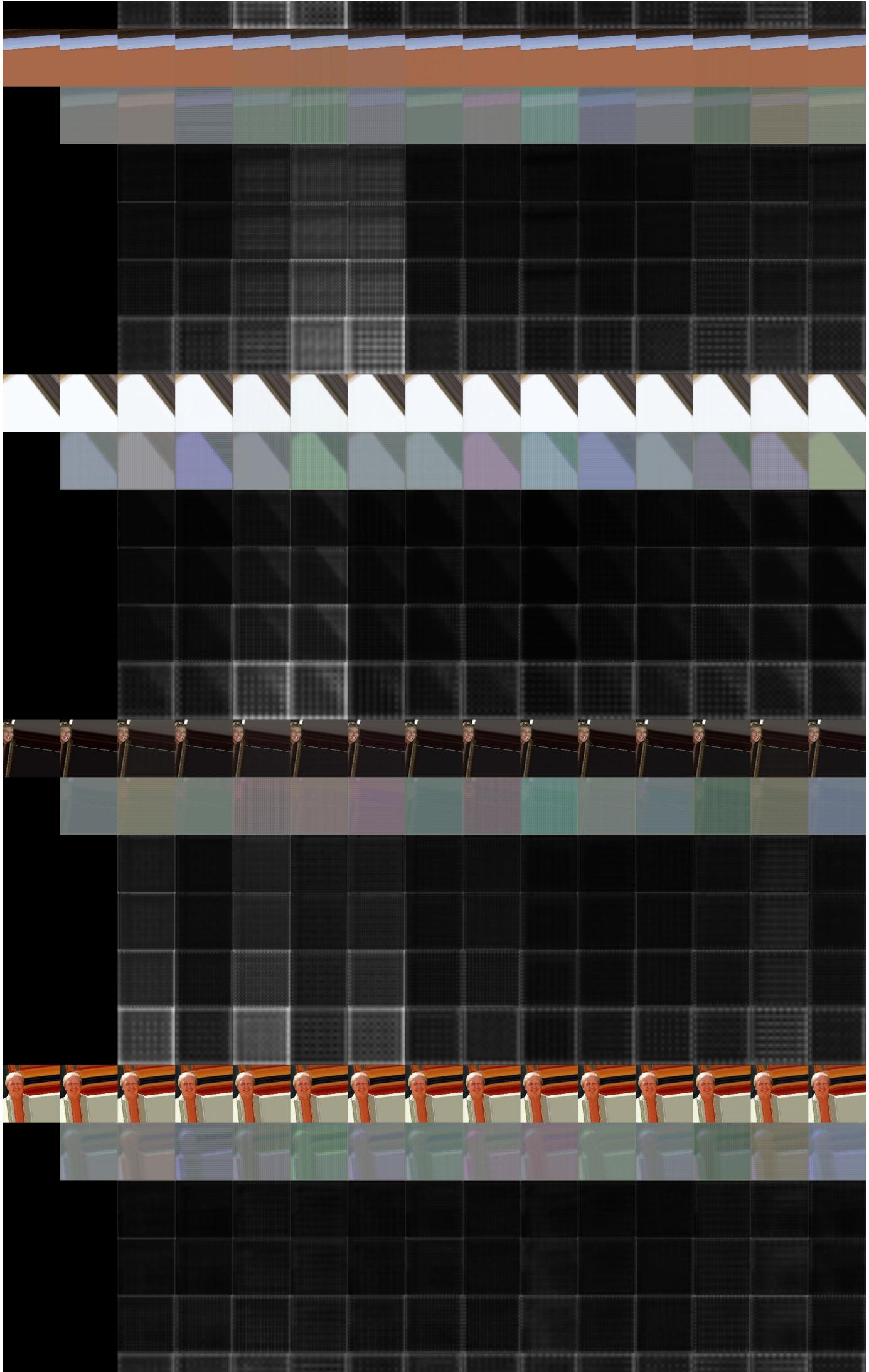
epoch 0, iteration 1199

In [22]: `im = Image.open('Epoch-0_Iter-1199.jpg')`
im

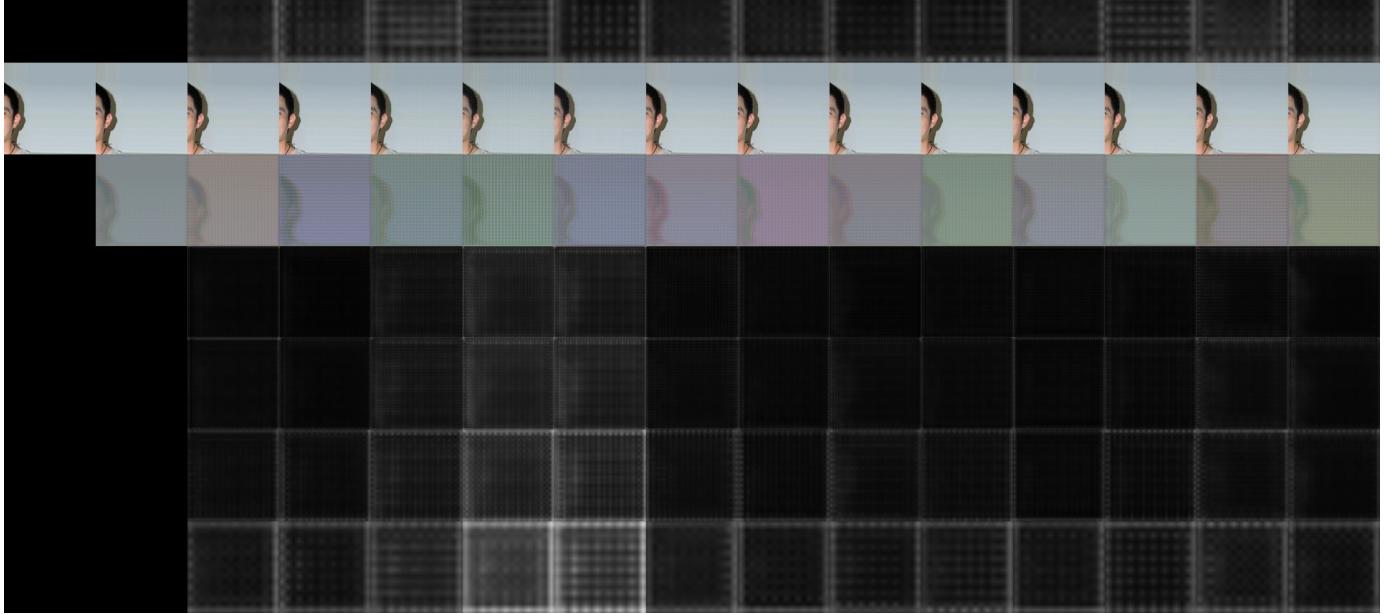








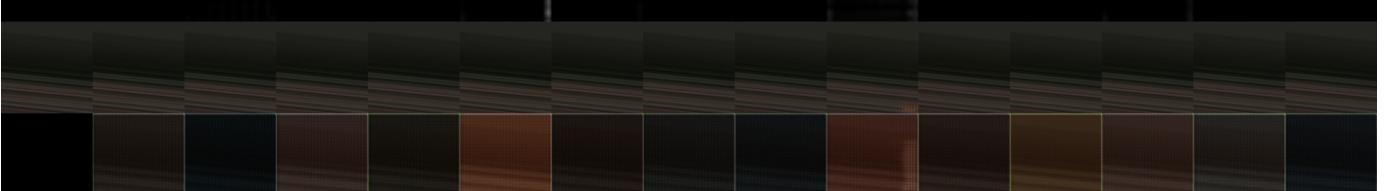
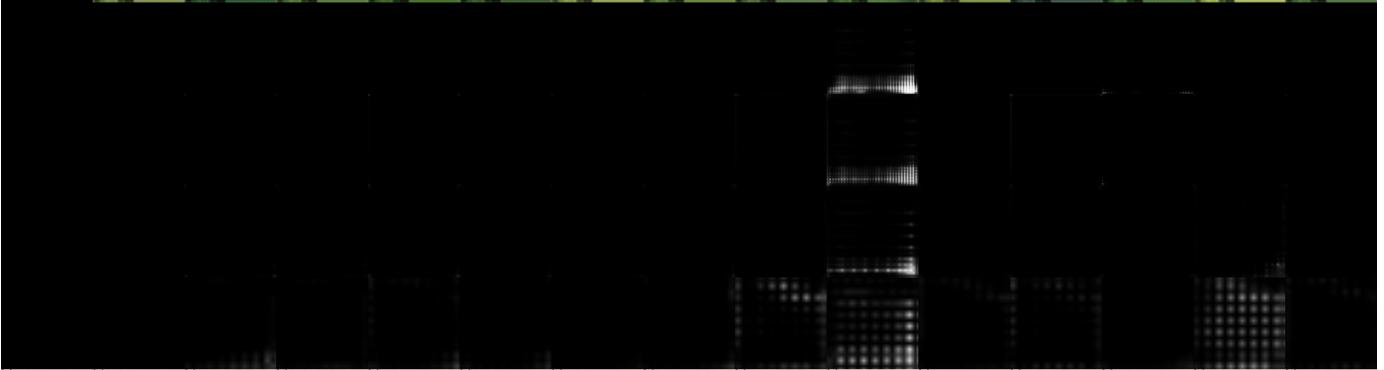
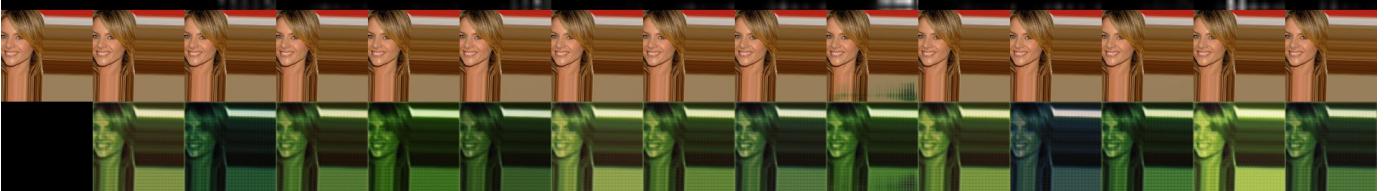


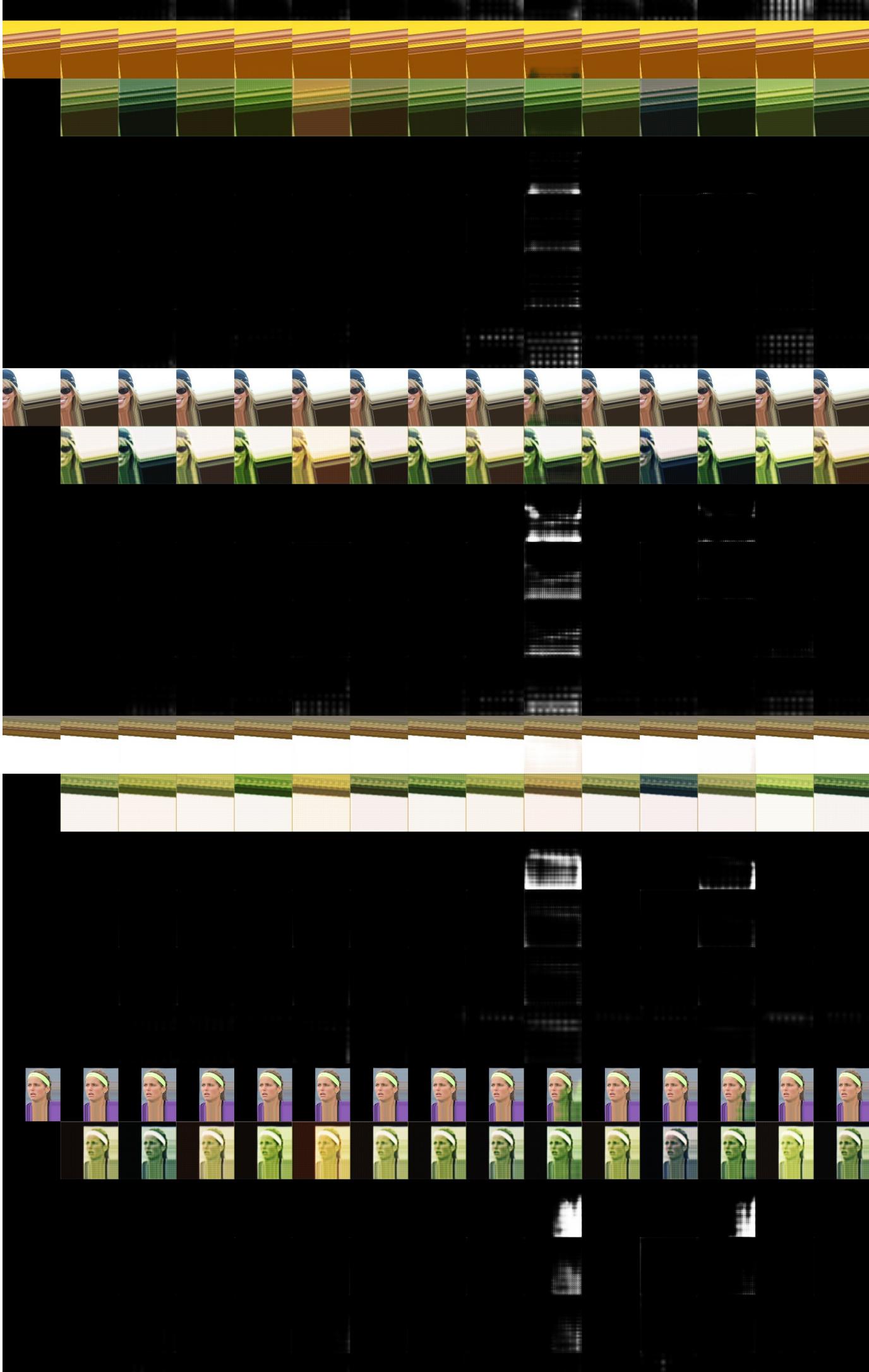


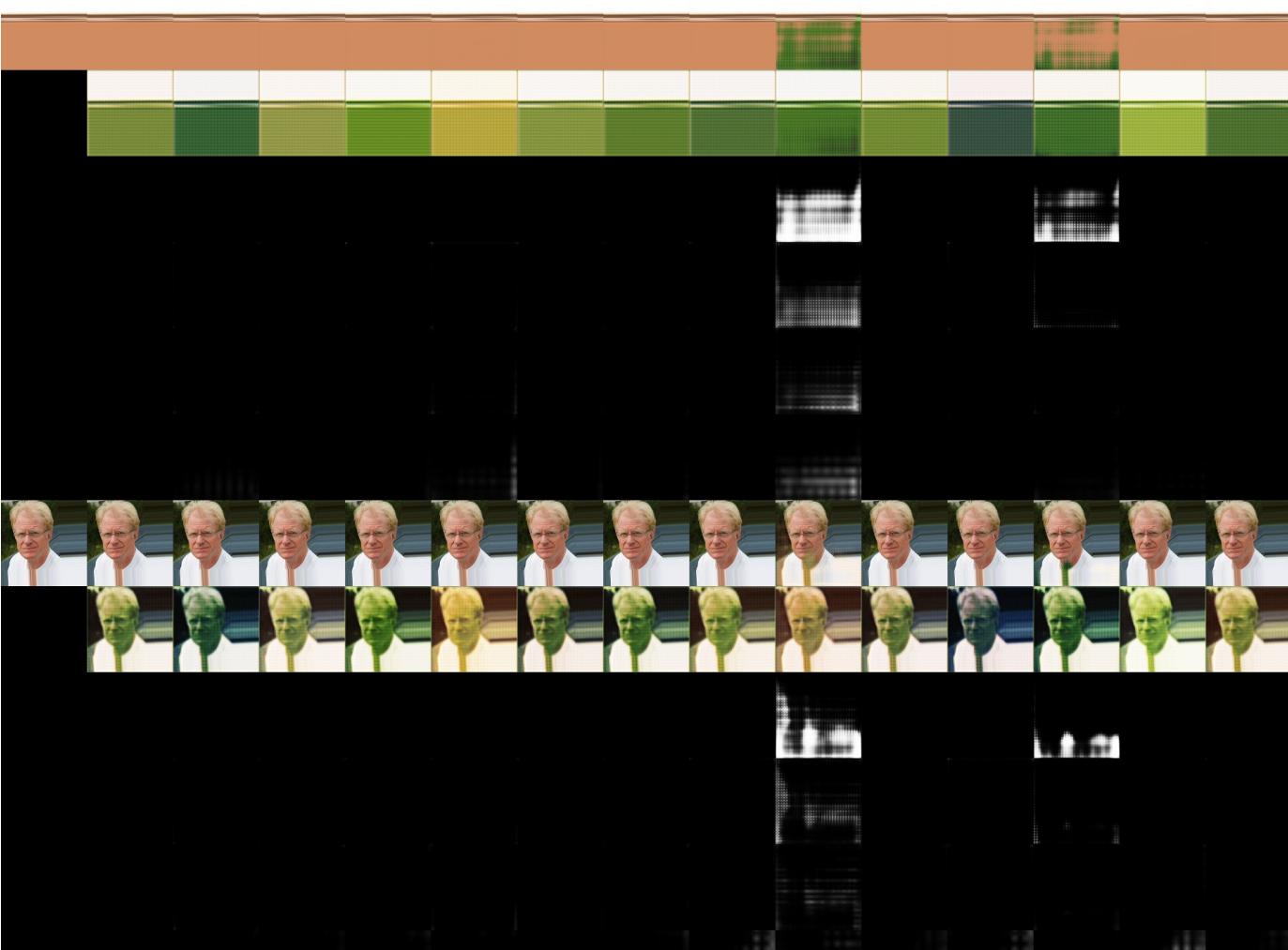
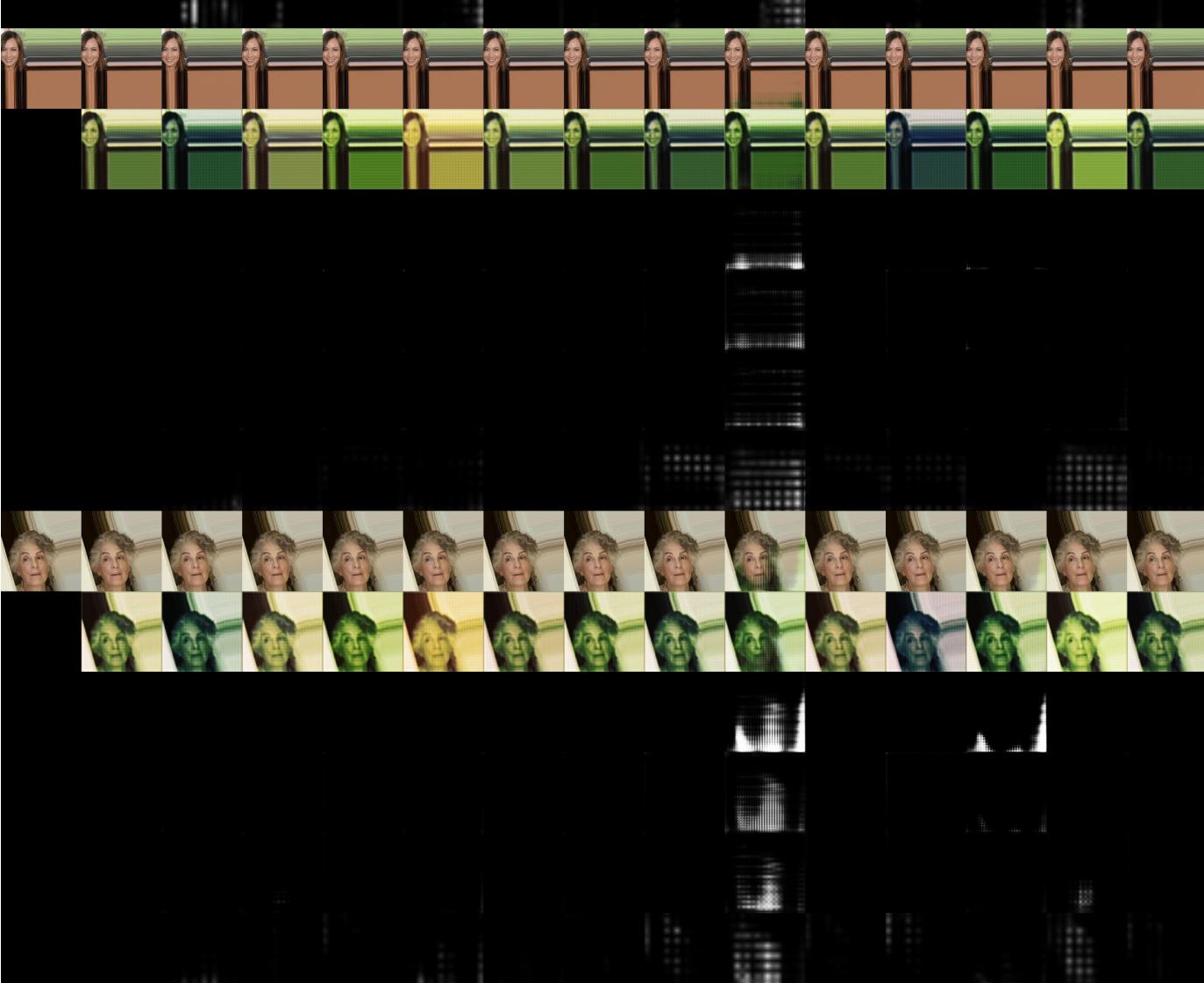
epoch 20, iteration 2079

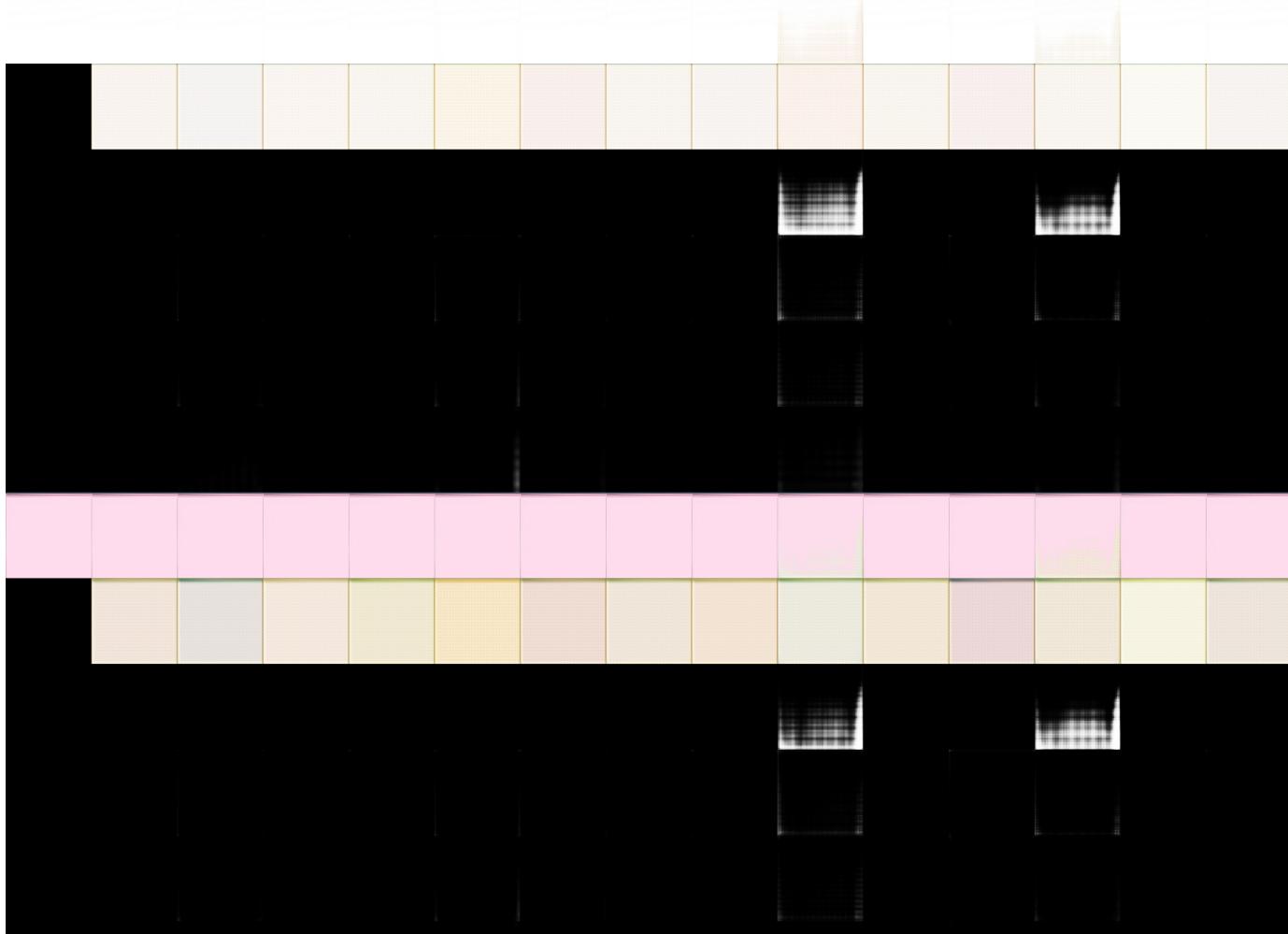
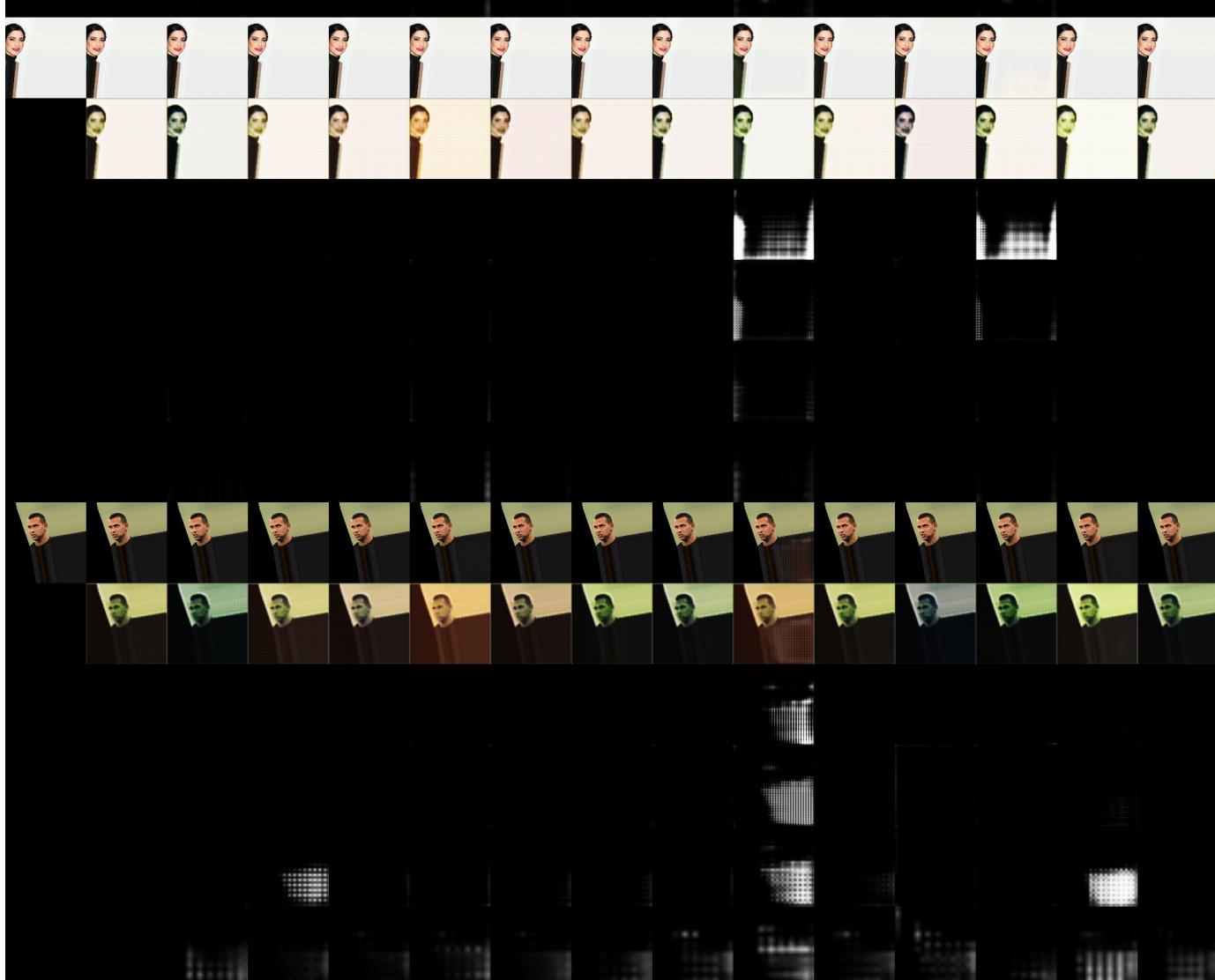
```
In [24]: im2 = Image.open('Epoch-20_Iter-2079.jpg')  
im2
```







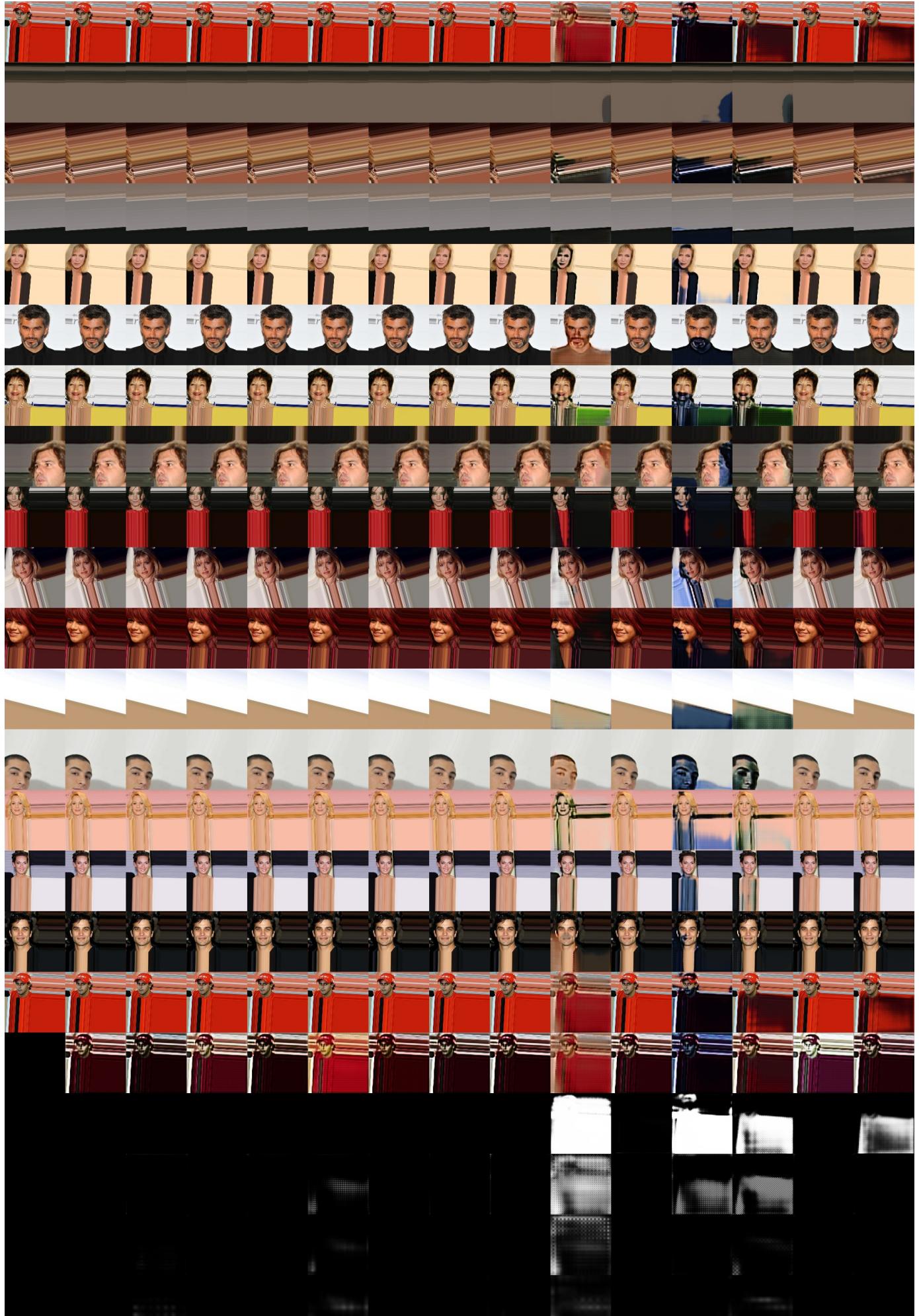


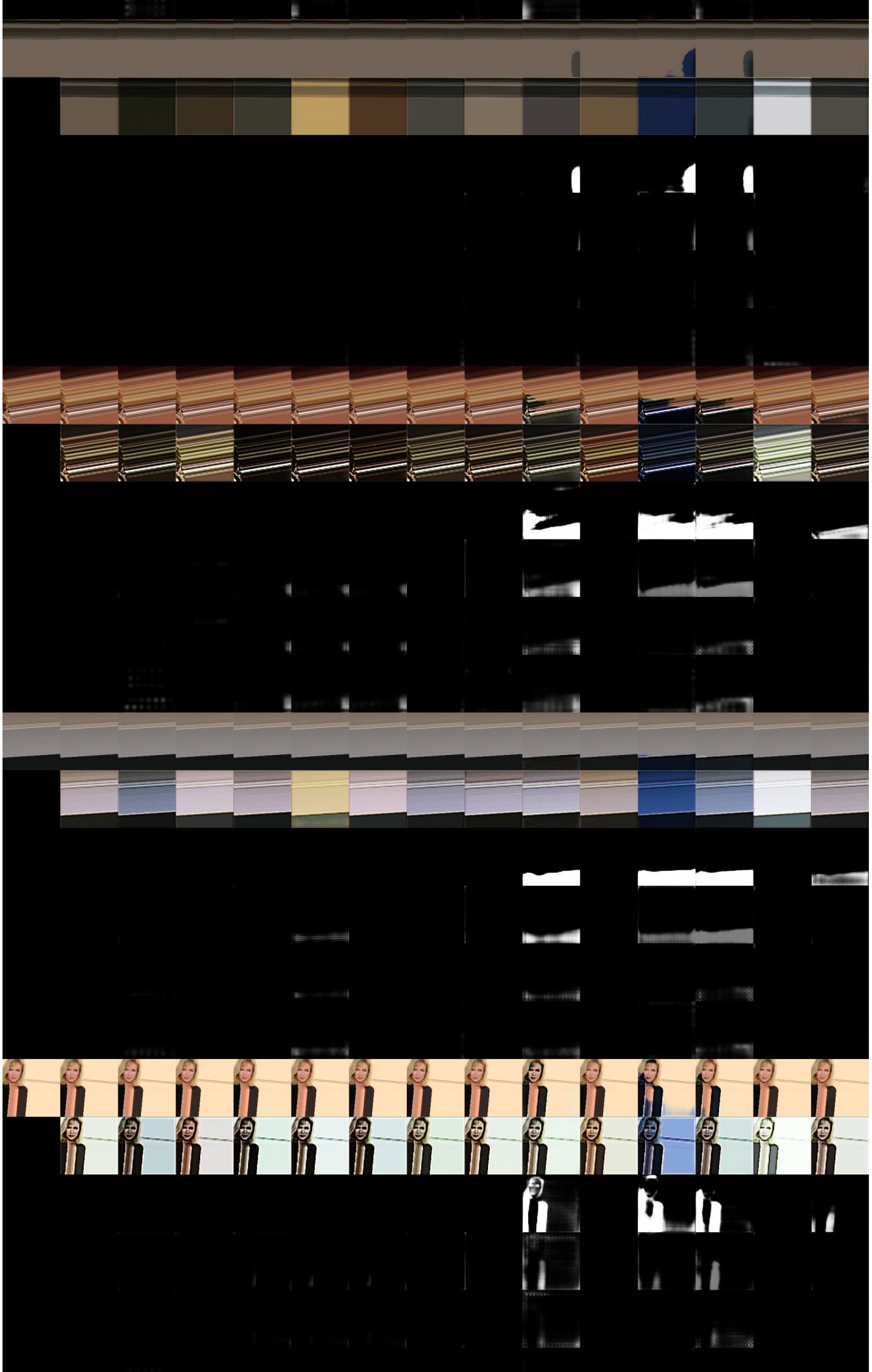


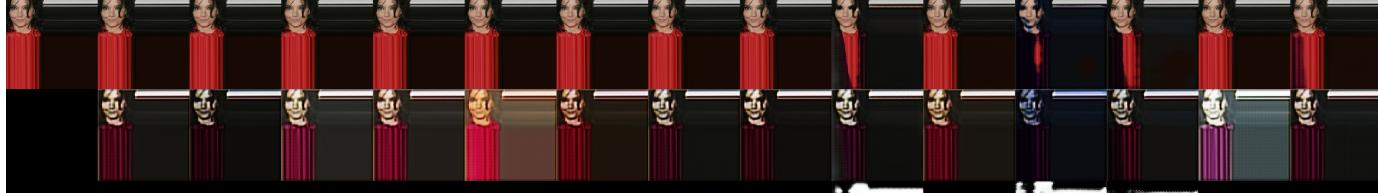
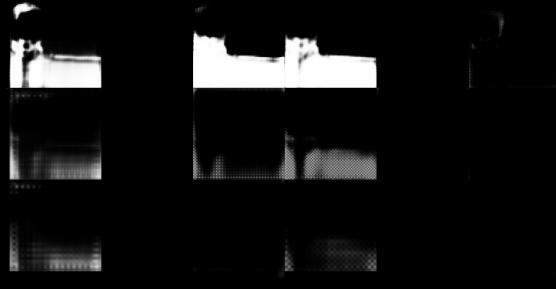
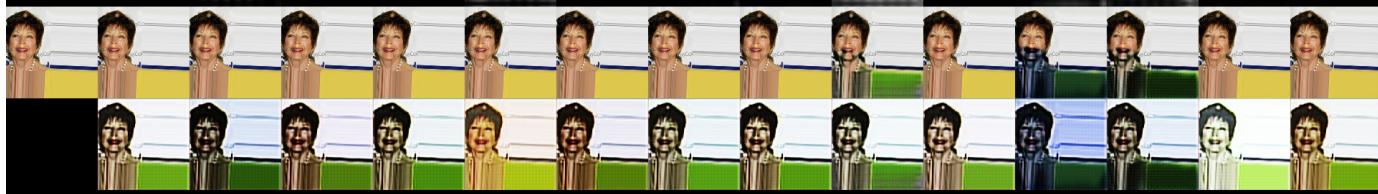
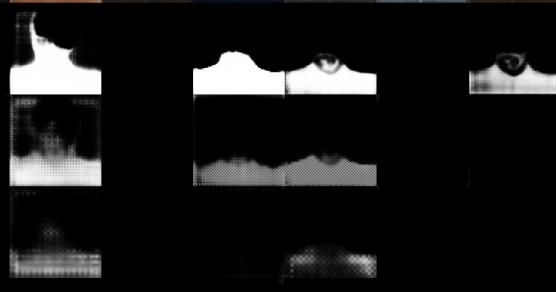
epoch 47, iteration 4557

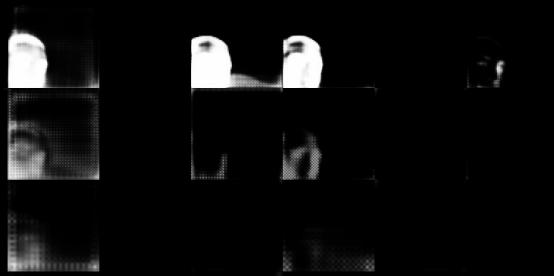
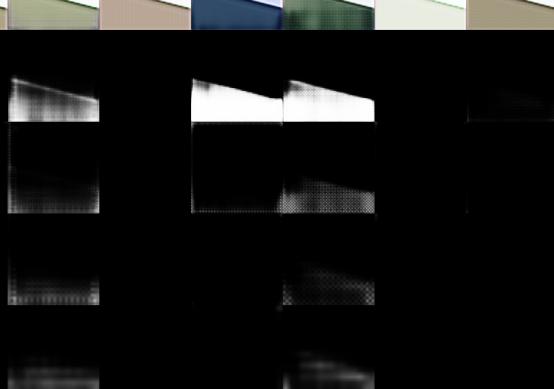
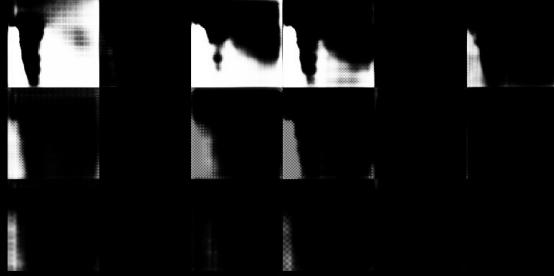
```
In [25]: im3 = Image.open("Epoch-47_Iter-4557.jpg")
im3
```

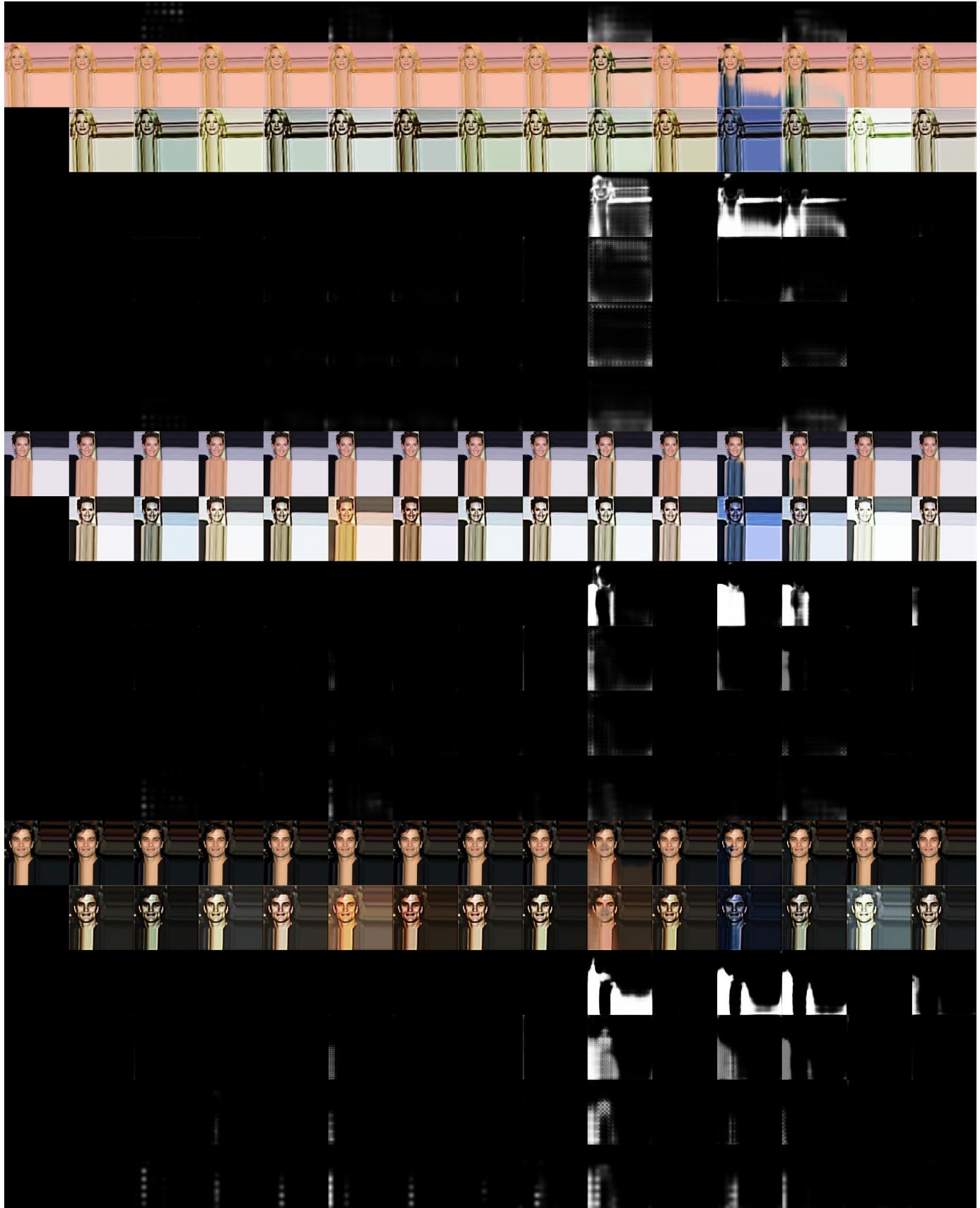
Out[25]:







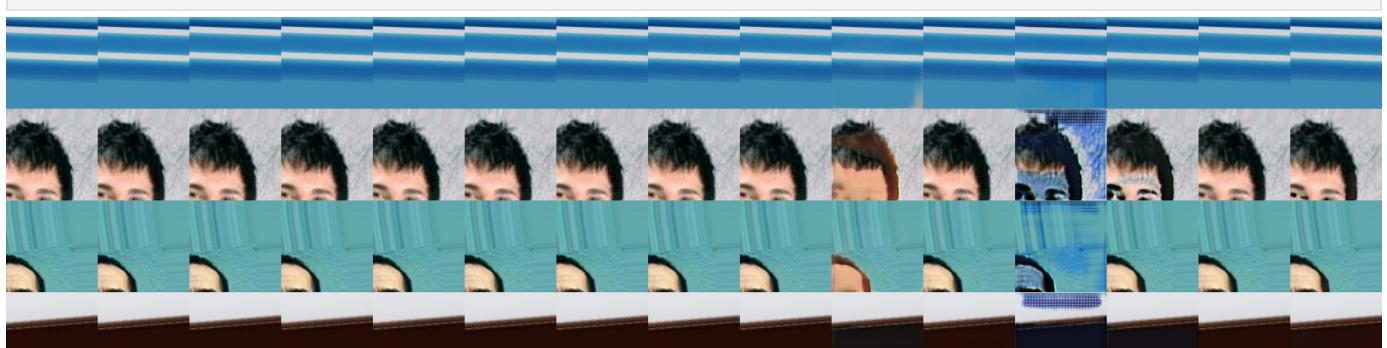


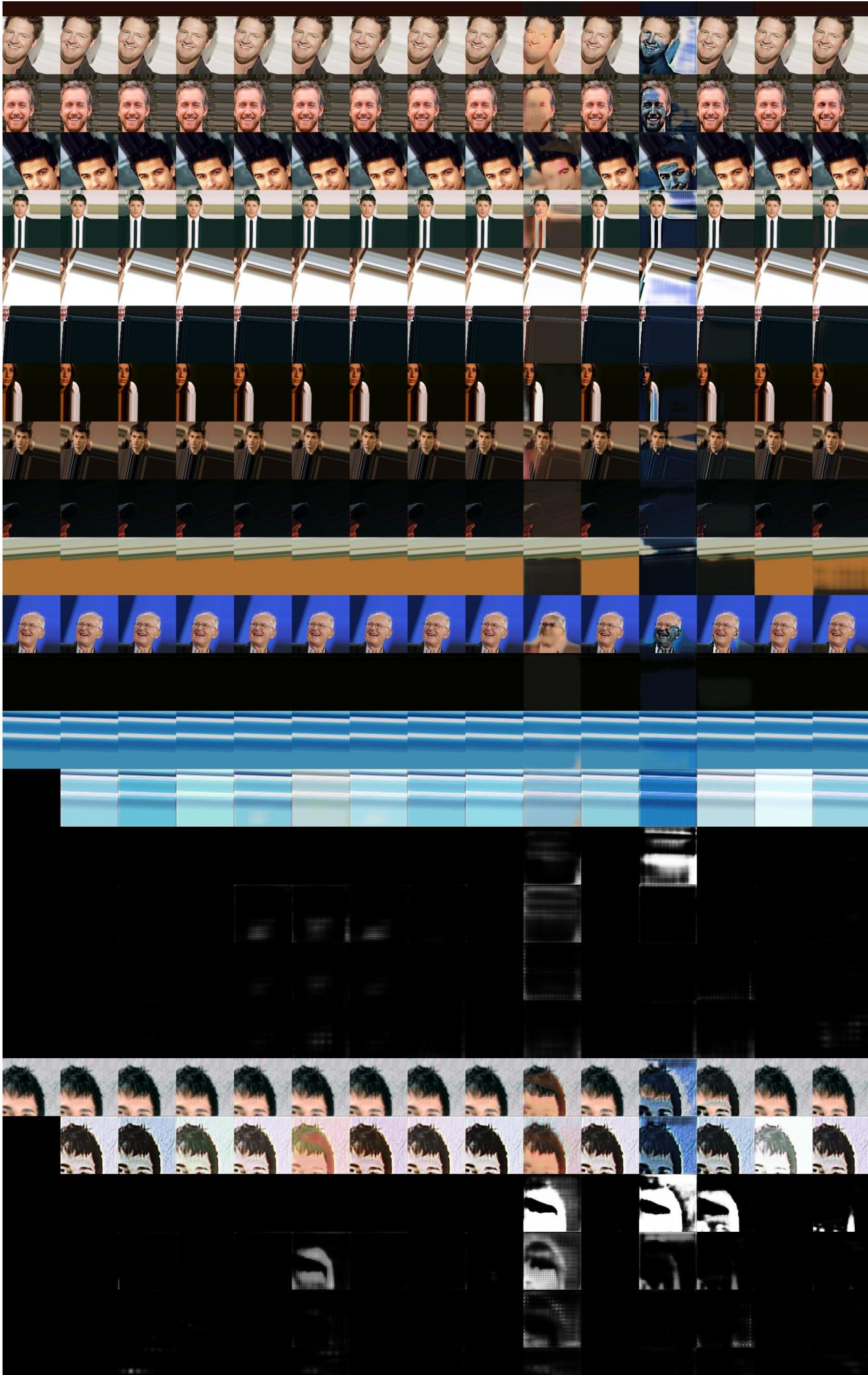


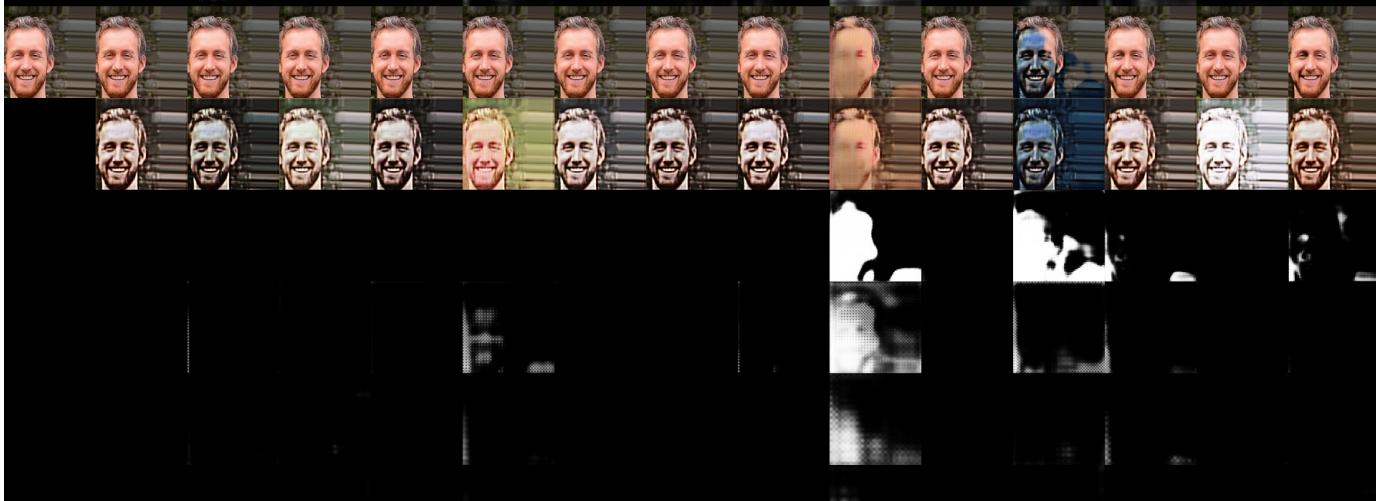
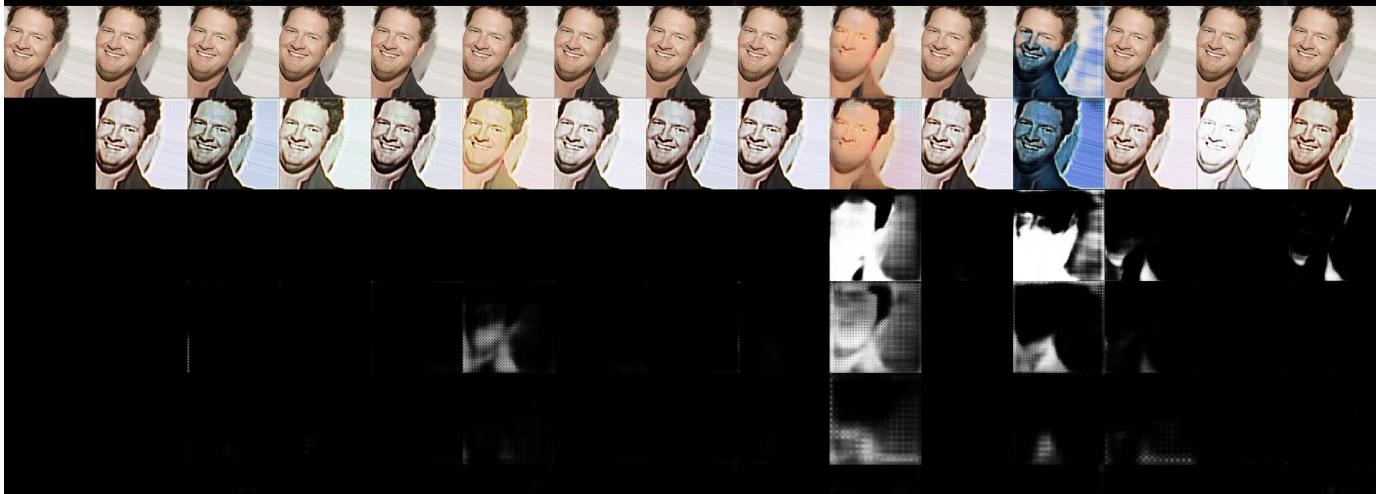
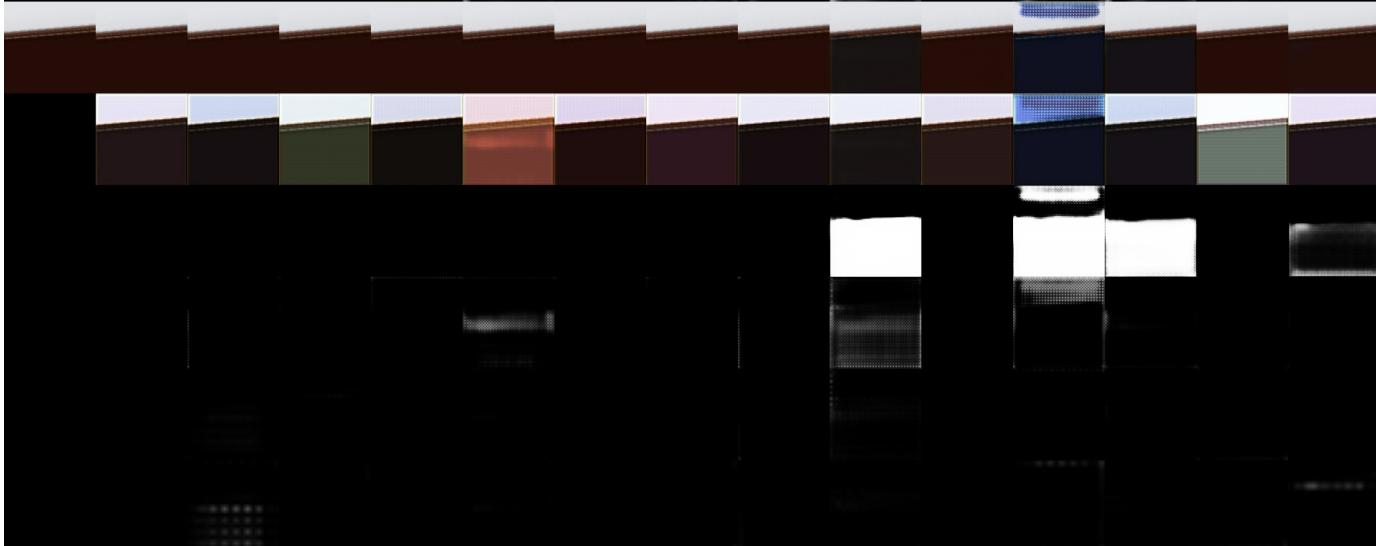
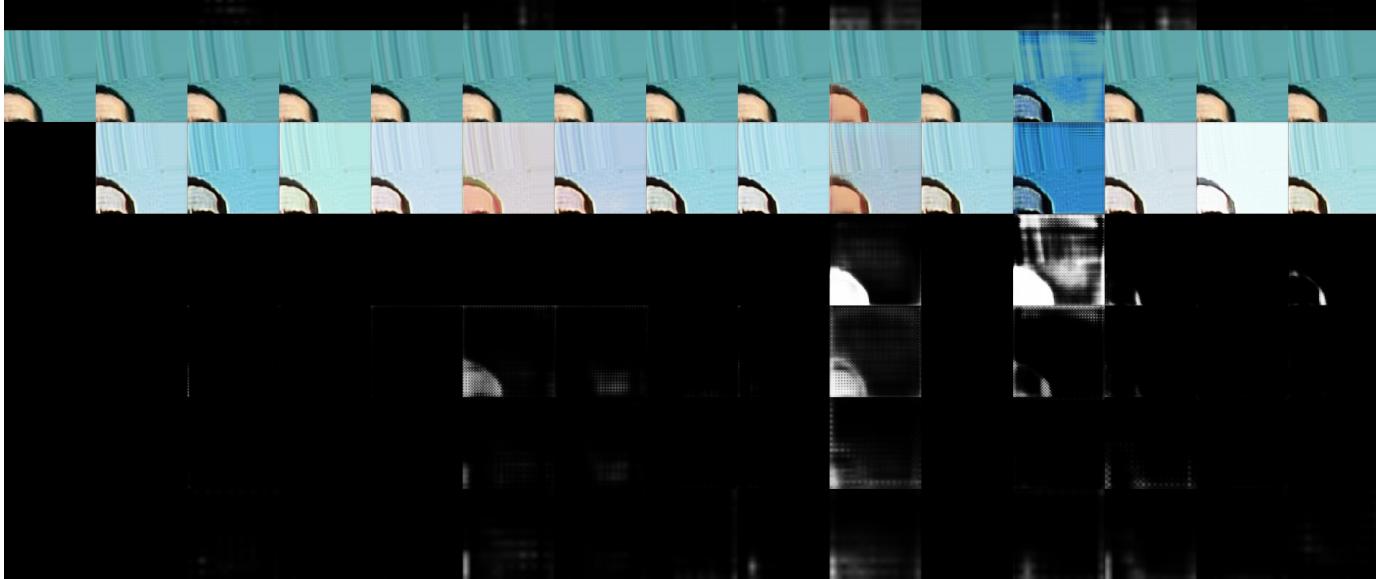
epoch 59, iteration 4725

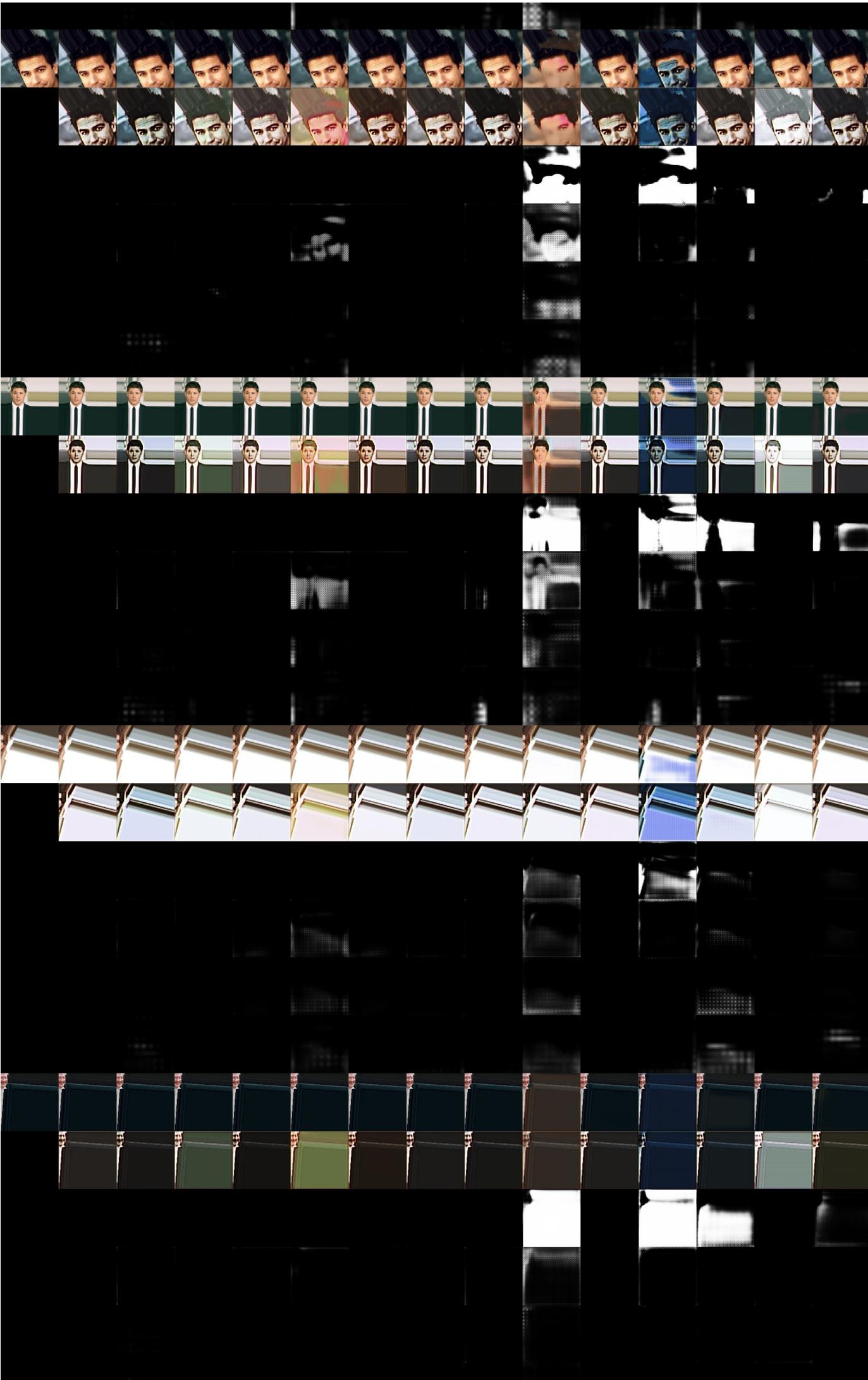
```
In [26]: im4 = Image.open("Epoch-59_Iter-4725.jpg")
im4
```

```
Out[26]:
```

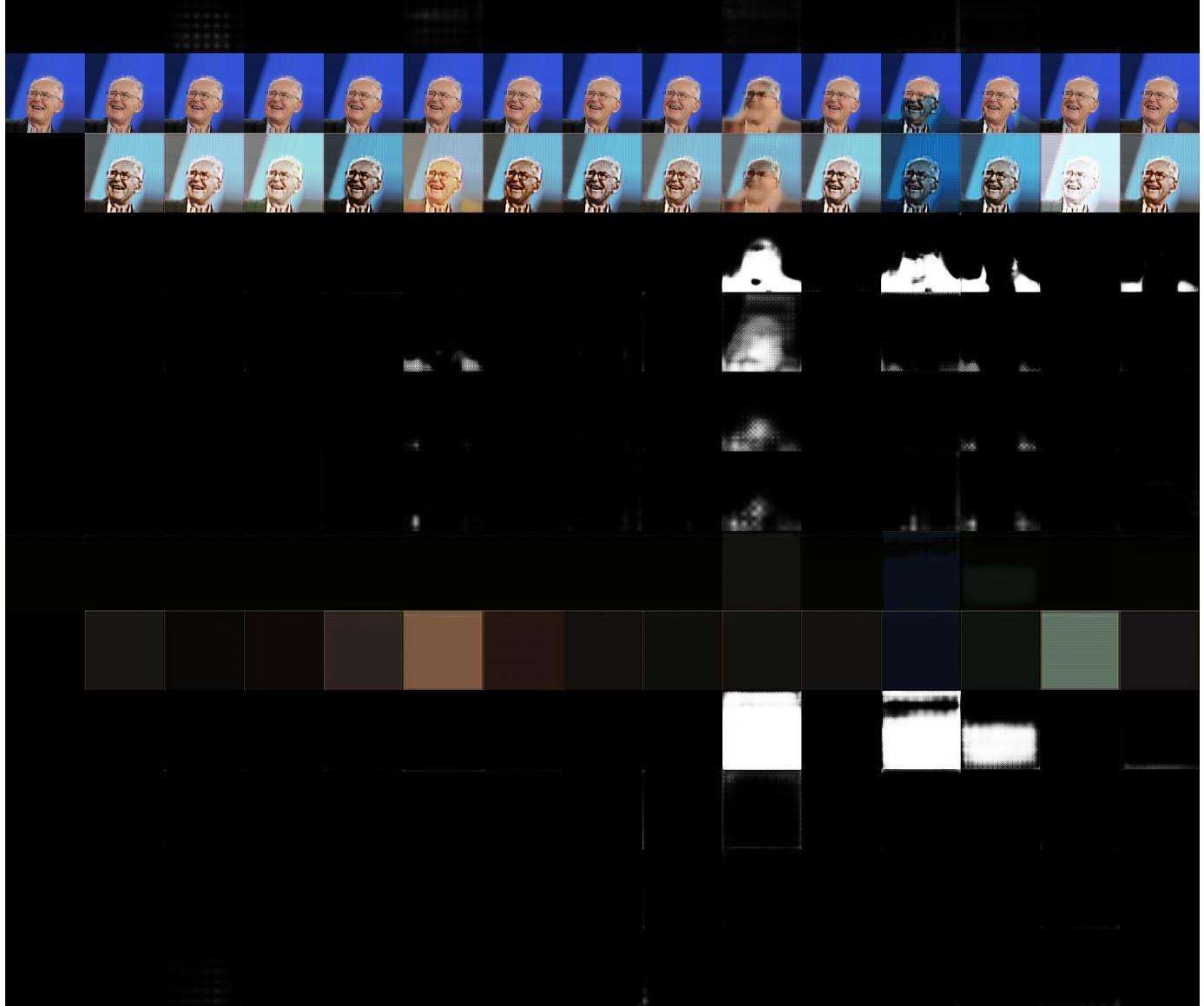












Output samples from testing

```
CUDA_VISIBLE_DEVICES=0 \ python test.py \ --experiment_name PA-GAN_128
```

```
In [43]: cd ..
```

```
/home/ubuntu/jupyter/Chaeun/PA_GAN
```

```
In [44]: ls
```

```
celeba-dataset/ PA_GAN_getKaggleData.ipynb      test_multi.py  
data/          pics/                            test.py  
data.py        __pycache__/                         tflib/  
imlib/         pylib/                           tfprob/  
LICENSE        README.md                         train.py  
make-CelebA-HQ/ 'Results from running PA-GAN.ipynb'  utils.py  
module.py     run_PA-GAN.ipynb  
output/        scripts/
```

```
In [46]: cd output/
```

```
/home/ubuntu/jupyter/Chaeun/PA_GAN/output
```

```
In [48]: ls
```

```
PA-GAN_128/
```

```
In [49]: cd PA-GAN_128/
```

```
/home/ubuntu/jupyter/Chaeun/PA_GAN/output/PA-GAN_128
```

```
In [50]: cd samples_testing_2/
```

```
/home/ubuntu/jupyter/Chaeun/PA_GAN/output/PA-GAN_128/samples_testing_2
```

```
In [51]: Image.open("1097.jpg")
```



```
In [52]: Image.open("13976.jpg")
```



```
In [53]: Image.open("12472.jpg")
```



```
In [54]: Image.open("15468.jpg")
```



```
In [55]: Image.open("1.jpg")
```



Check the original data

```
In [57]: pwd
```

```
Out[57]: '/home/ubuntu/jupyter/Chaeun/PA_GAN/output/PA-GAN_128/samples_testing_2'
```

```
In [58]: %cd ..
```

```
/home/ubuntu/jupyter/Chaeun/PA_GAN/output/PA-GAN_128
```

```
In [59]: %cd ..
```

```
/home/ubuntu/jupyter/Chaeun/PA_GAN/output
```

```
In [60]: %cd ..
```

```
/home/ubuntu/jupyter/Chaeun/PA_GAN
```

```
In [61]: ls
```

```
celeba-dataset/ PA_GAN_getKaggleData.ipynb test_multi.py  
data/ pics/ test.py  
data.py __pycache__ tflib/  
imlib/ pylib/ tfprob/  
LICENSE README.md train.py  
make-CelebA-HQ/ 'Results from running PA-GAN.ipynb' utils.py  
module.py run_PA-GAN.ipynb  
output/ scripts/
```

```
In [62]: cd data/
```

```
/home/ubuntu/jupyter/Chaeun/PA_GAN/data
```

```
In [63]: ls
```

```
img_celeba/ img_celeba_previous/
```

```
In [64]: cd img_celeba/
```

```
/home/ubuntu/jupyter/Chaeun/PA_GAN/data/img_celeba
```

```
In [66]: %cd /home/ubuntu/jupyter/Chaeun/PA_GAN/data/img_celeba
```

```
/home/ubuntu/jupyter/Chaeun/PA_GAN/data/img_celeba
```

```
In [66]: Image.open("022480.jpg")
```

```
Out[66]:
```



To [F5/F11]

```
In [68]: Image.open("021479.jpg")
```



```
In [69]: import fnmatch  
dirpath = "/home/ubuntu/jupyter/Chaeun/PA_GAN/data/img_celeba"  
print(len(fnmatch.filter(os.listdir(dirpath), '*.jpg')))
```

```
202599
```

```
In [70]: pwd
```

```
Out[70]: '/home/ubuntu/jupyter/Chaeun/PA_GAN/data/img_celeba'
```

```
In [71]: cd aligned/  
  
/home/ubuntu/jupyter/Chaeun/PA_GAN/data/img_celeba/aligned
```

```
In [72]: ls  
  
'align_size(572,572)_move(0.250,0.000)_face_factor(0.450).jpg'
```

```
In [73]: cd align_size(572,572)_move(0.250,0.000)_face_factor(0.450).jpg/  
  
/home/ubuntu/jupyter/Chaeun/PA_GAN/data/img_celeba/aligned/align_size(572,572)_move(0.250,0.000)_face_factor(0.450).jpg
```

```
In [74]: ls  
  
data/ landmark.txt
```

```
In [75]: pwd  
  
'/home/ubuntu/jupyter/Chaeun/PA_GAN/data/img_celeba/aligned/align_size(572,572)_move(0.250,0.000)_face_factor(0.450).jpg/data'
```

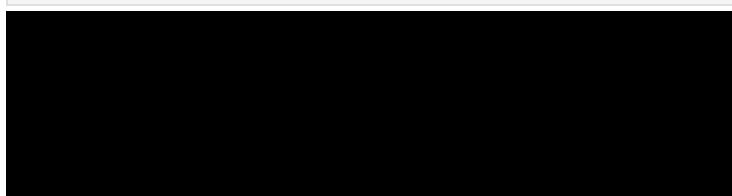
```
In [76]: Image.open("022480.jpg")
```

```
Out[76]:
```



```
In [77]: Image.open("021479.jpg")
```

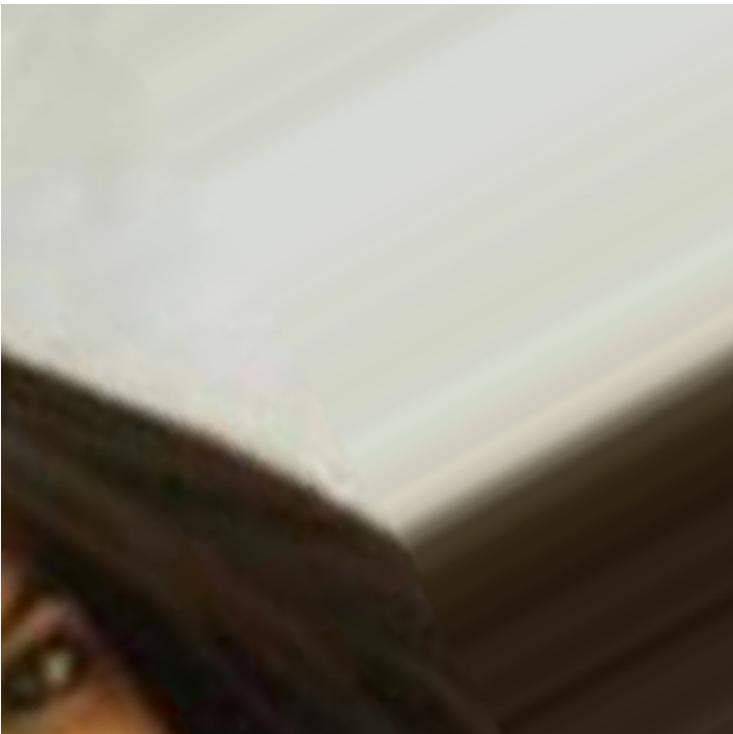
```
Out[77]:
```





In [82]: `Image.open("020235.jpg")`

Out[82]:



In [92]:

```
import fnmatch
dirpath = "/home/ubuntu/jupyter/Chaeun/PA_GAN/data/img_celeba/aligned/align_size(572,572)_move(0.250,0.000)_face_factor(0.450)_jpg/data"
print(len(fnmatch.filter(os.listdir(dirpath), '*.jpg')))
```

20259

Loading [MathJax]jax/output/CommonHTML/fonts/TeX/fontdata.js