

<Bonus>

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Dataset: bird2chicken(bird: A, chicken: B)

Model: CycleGAN: (learning rate = 0.0002, batch size = 10, epoch = 100)

- Image preprocessing: resize(64, 64, 3) applied for all train image, then randomly cropped to (56, 56, 3)

reference:

<https://github.com/junyanz/pytorch-CycleGAN-and-pix2pix>

<https://github.com/hanyoseob>

```
!python3 '/content/drive/My Drive/pytorch-cyclegan/main.py' \  
    --mode 'train' \  
    --train_continue 'on' \  
    --lr 2e-4 \  
    --batch_size 10 \  
    --num_epoch 100 \  
    --ny 56 \  
    --nx 56 \  
    --nch 3 \  
    --nker 64 \  
    --wgt_cycle 1e2 \  
    --wgt_ident 5e-1 \  
    --network 'CycleGAN' \  
    --data_dir '/content/drive/My Drive/pytorch-  
cyclegan/datasets/bird2chicken' \  
    --ckpt_dir '/content/drive/My Drive/pytorch-  
cyclegan/checkpoint' \  
    --log_dir '/content/drive/My Drive/pytorch-cyclegan/log' \  
    --result_dir '/content/drive/My Drive/pytorch-cyclegan/result'
```

Training Results:

Input



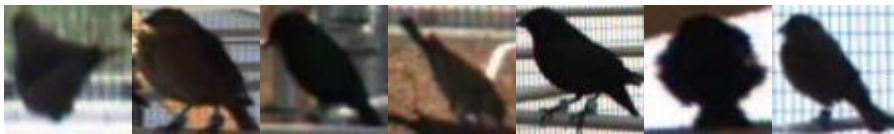
Output



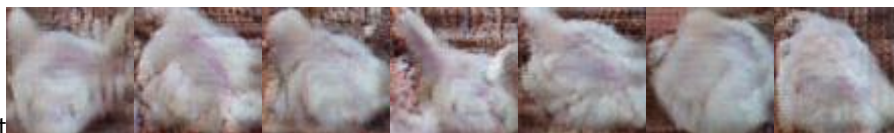
Test Result:

- Image preprocessing: `resize(64, 64, 3)` applied for all test image

input



output



- Texture of birds, color is very similar to chicken
- Limitation: shape of chicken is dependent on the background, for example, if there is cage rod or bird's leg on input image, this model failed to distinguish background and birds.