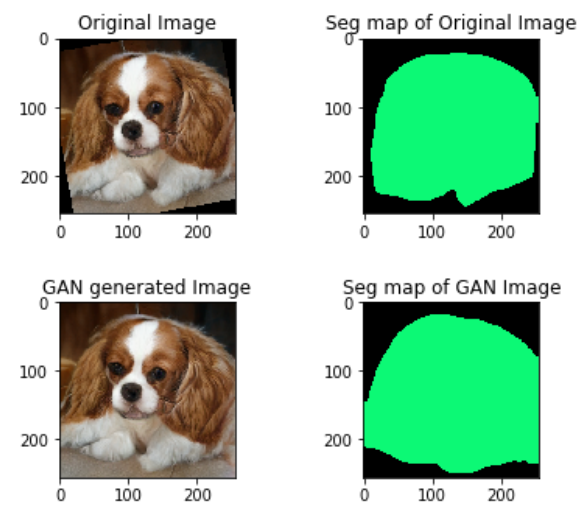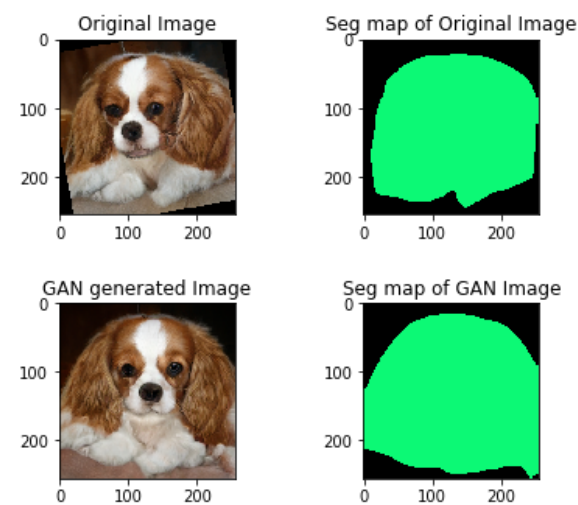```
    print('-'*100)
    cost.backward()
    optimizer.step()

print('End')
```
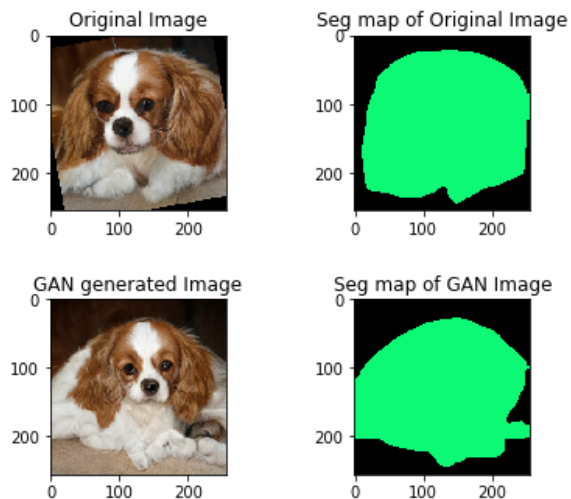
```
cost_old 1 is tensor(0.9865, device='cuda:0', grad_fn=<SqrtBackw
ard>)
cost 1 is tensor(0.1986, device='cuda:0', grad_fn=<NllLoss2DBack
ward>)
```
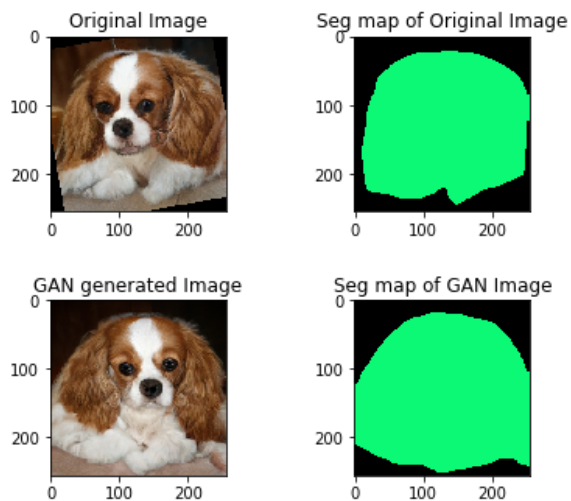


Original Image | Seg map of Original Image

GAN generated Image | Seg map of GAN Image

```
----------------------------------------------------------------
-----------------------------------
cost_old 2  is  tensor(1.1567, device='cuda:0', grad_fn=<SqrtBackw
ard>)
cost 2  is  tensor(0.2580, device='cuda:0', grad_fn=<NllLoss2DBack
ward>)
```


Original Image | Seg map of Original Image

GAN generated Image | Seg map of GAN Image

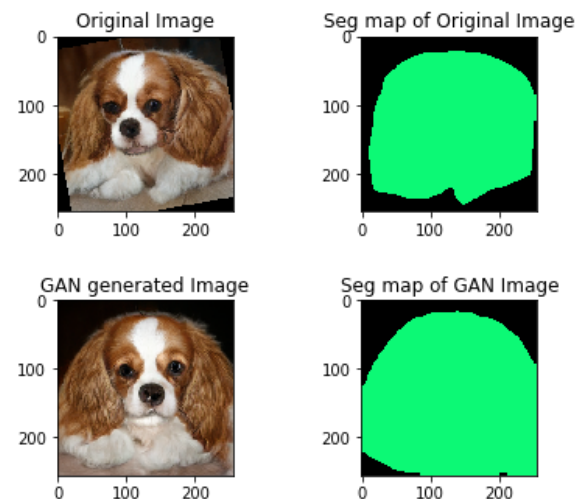-----------------------------------

cost_old 3 is tensor(1.3811, device='cuda:0', grad_fn=<SqrtBackward>)

cost 3 is tensor(0.3621, device='cuda:0', grad_fn=<NllLoss2DBackward>)

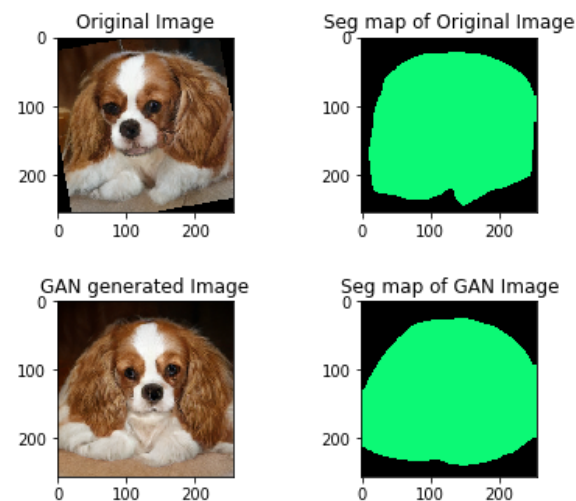
cost_old 4 is tensor(1.3125, device='cuda:0', grad_fn=<SqrtBackward>)

cost 4 is tensor(0.2166, device='cuda:0', grad_fn=<NllLoss2DBackward>)

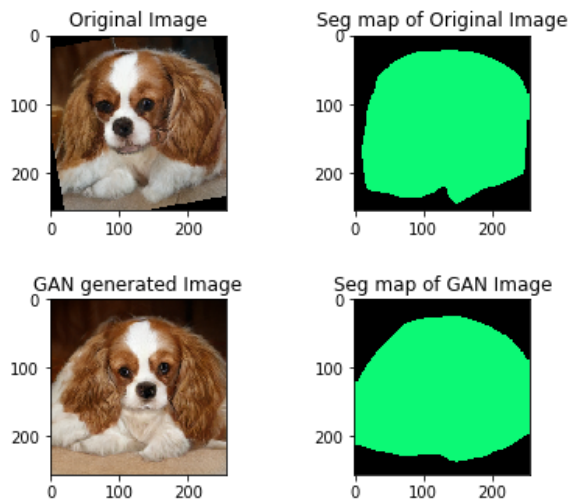
cost_old 5 is tensor(1.2158, device='cuda:0', grad_fn=<SqrtBackward>)

cost 5 is tensor(0.3588, device='cuda:0', grad_fn=<NllLoss2DBackward>)

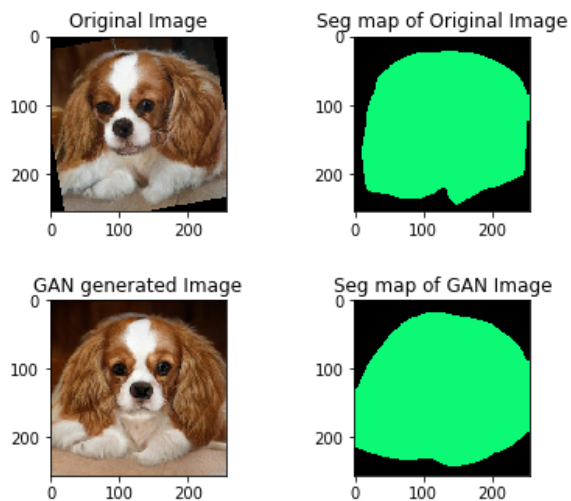-----------------------------------

cost_old 6 is tensor(1.0316, device='cuda:0', grad_fn=<SqrtBackward>)

cost 6 is tensor(0.1662, device='cuda:0', grad_fn=<NllLoss2DBackward>)

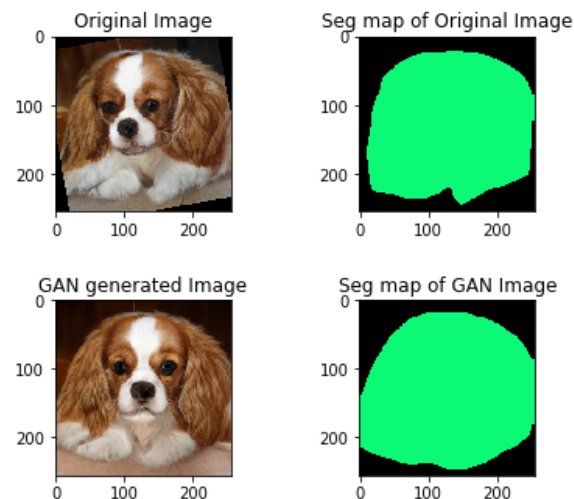-----------------------------------
cost_old 7 is tensor(1.0076, device='cuda:0', grad_fn=<SqrtBackward>)
cost 7 is tensor(0.1840, device='cuda:0', grad_fn=<NllLoss2DBackward>)

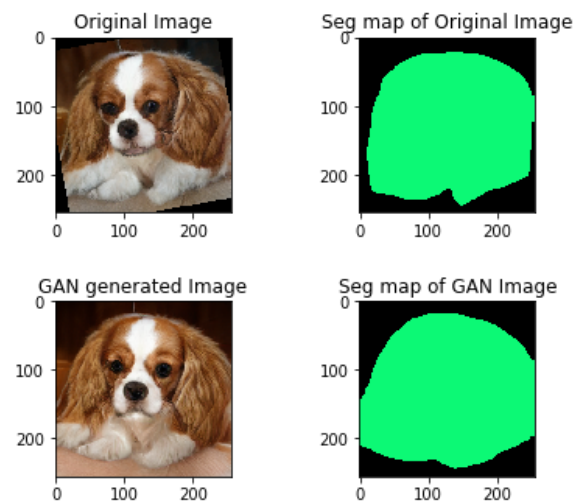-----------------------------------
cost_old 8 is tensor(1.1667, device='cuda:0', grad_fn=<SqrtBackward>)
cost 8 is tensor(0.1622, device='cuda:0', grad_fn=<NllLoss2DBackward>)

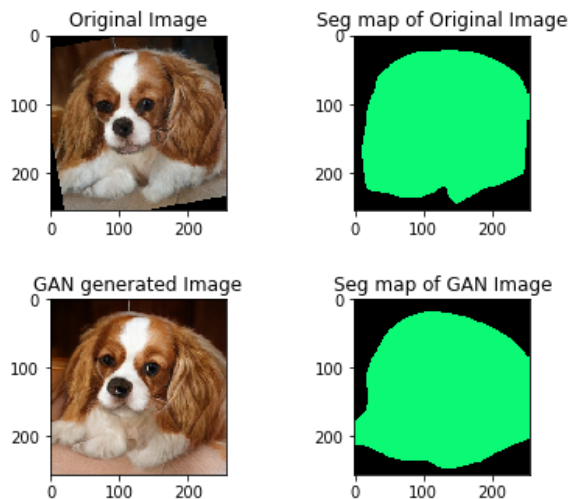cost_old 9 is tensor(1.1398, device='cuda:0', grad_fn=<SqrtBackward>)
cost 9 is tensor(0.1691, device='cuda:0', grad_fn=<NllLoss2DBackward>)

----
cost_old 10 is tensor(0.9687, device='cuda:0', grad_fn=<SqrtBackward>)
cost 10 is tensor(0.1341, device='cuda:0', grad_fn=<NllLoss2DBackward>)

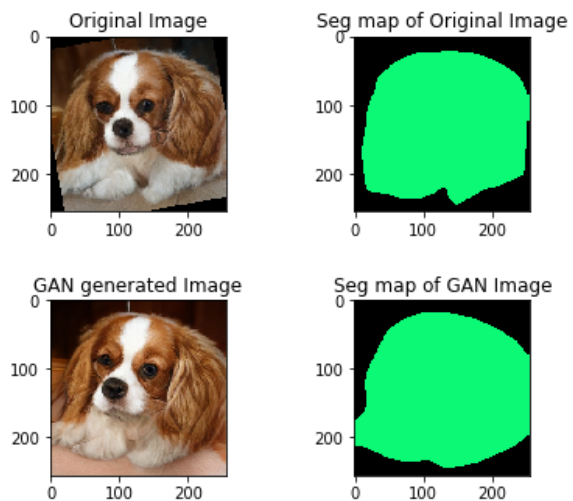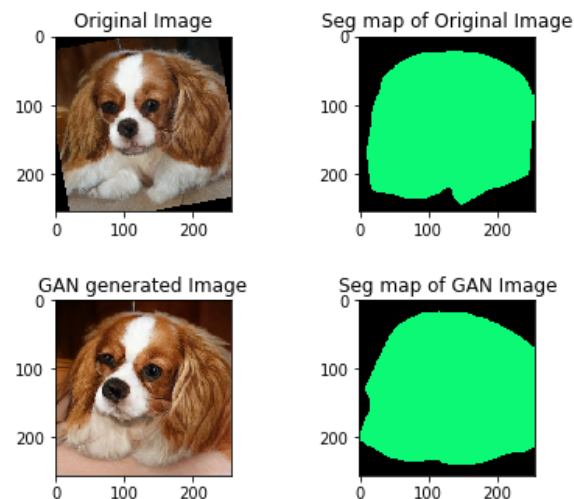-----------------------------------
cost_old 11 is tensor(0.9497, device='cuda:0', grad_fn=<SqrtBack
ward>)
cost 11 is tensor(0.1414, device='cuda:0', grad_fn=<NllLoss2DBac
kward>)

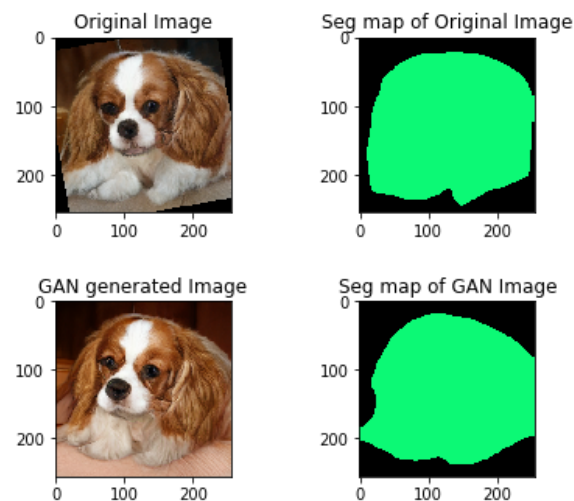cost_old 12 is tensor(0.8760, device='cuda:0', grad_fn=<SqrtBack
ward>)
cost 12 is tensor(0.1239, device='cuda:0', grad_fn=<NllLoss2DBac
kward>)

----
cost_old 13 is tensor(0.9134, device='cuda:0', grad_fn=<SqrtBack
ward>)
cost 13 is tensor(0.1390, device='cuda:0', grad_fn=<NllLoss2DBac
kward>)

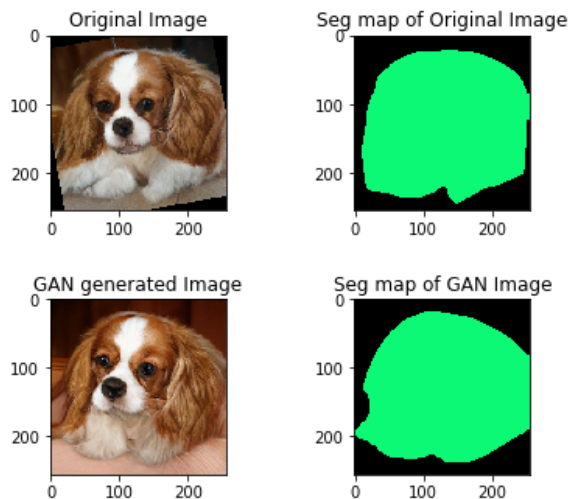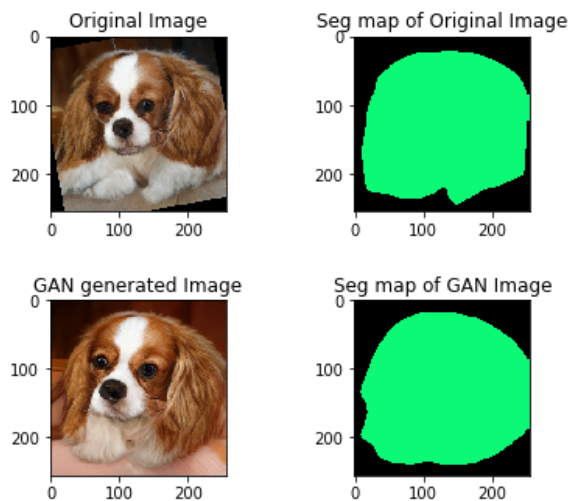cost_old 14 is tensor(0.9054, device='cuda:0', grad_fn=<SqrtBack
ward>)
cost 14 is tensor(0.1298, device='cuda:0', grad_fn=<NllLoss2DBac
kward>)

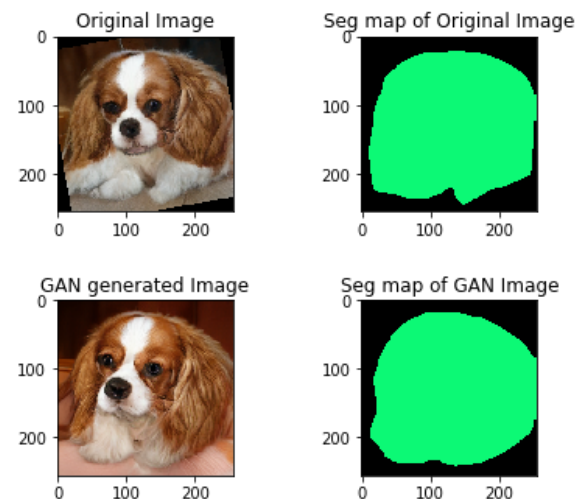-----------------------------------
cost_old 15 is tensor(0.7887, device='cuda:0', grad_fn=<SqrtBack
ward>)
cost 15 is tensor(0.1124, device='cuda:0', grad_fn=<NllLoss2DBac
kward>)

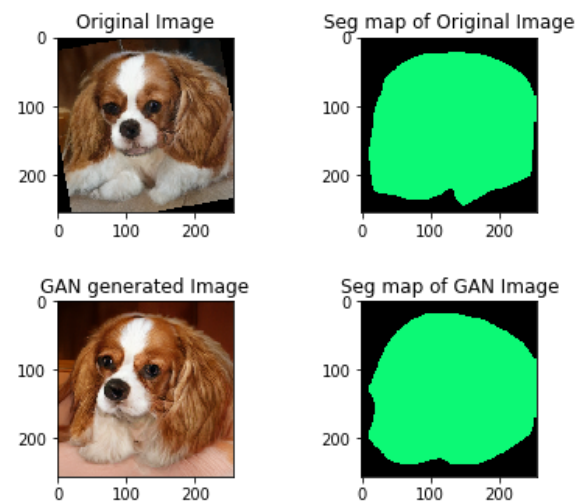cost_old 16 is tensor(0.8772, device='cuda:0', grad_fn=<SqrtBack
ward>)
cost 16 is tensor(0.1047, device='cuda:0', grad_fn=<NllLoss2DBac
kward>)
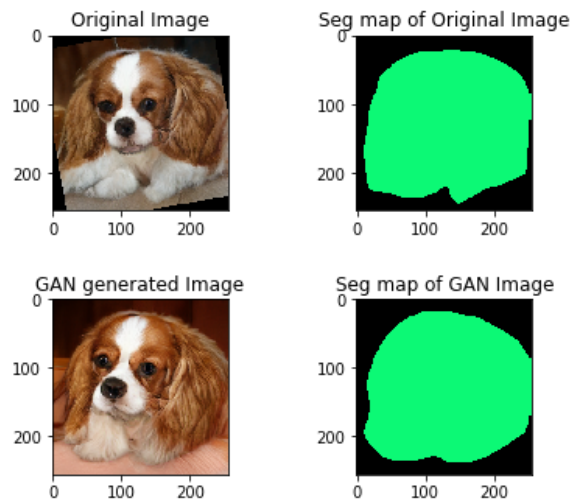

----
cost_old 17 is tensor(0.8857, device='cuda:0', grad_fn=<SqrtBack
ward>)
cost 17 is tensor(0.1012, device='cuda:0', grad_fn=<NllLoss2DBac
kward>)

----
cost_old 18 is tensor(0.8931, device='cuda:0', grad_fn=<SqrtBack
ward>)
cost 18 is tensor(0.0931, device='cuda:0', grad_fn=<NllLoss2DBac
kward>)

----
cost_old 19 is tensor(0.8383, device='cuda:0', grad_fn=<SqrtBack
ward>)
cost 19 is tensor(0.0886, device='cuda:0', grad_fn=<NllLoss2DBac
kward>)

----
cost_old 20 is tensor(0.8367, device='cuda:0', grad_fn=<SqrtBack
ward>)
cost 20 is tensor(0.0879, device='cuda:0', grad_fn=<NllLoss2DBac
kward>)