Color map → 0: [78, 93, 13] (R, G, b)

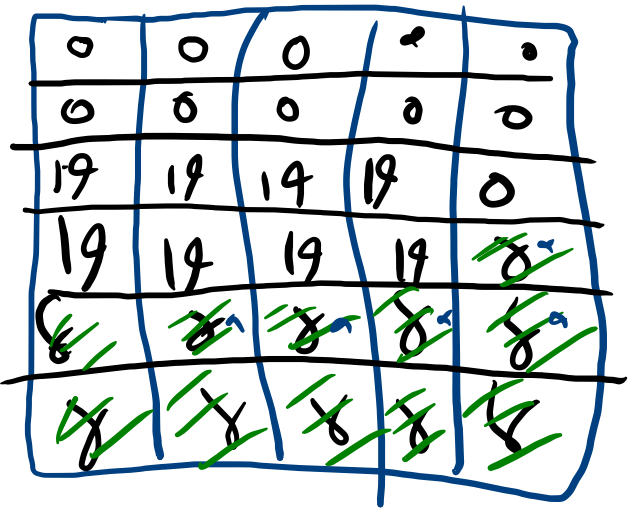
1: [R G b]

4: [R G B]

$l = 4$

Mask

0	0	0	0	0
0	0	0	0	0
19	19	19	19	0
19	19	19	19	4
4	4	4	4	4
4	4	4	4	4

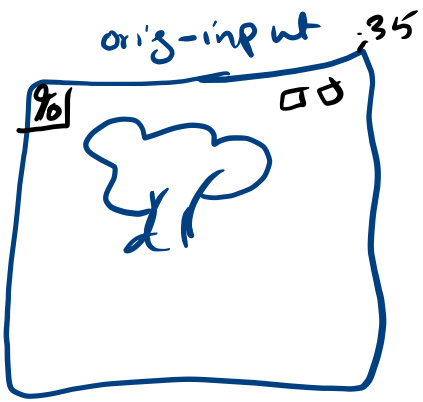


idx = mask == l

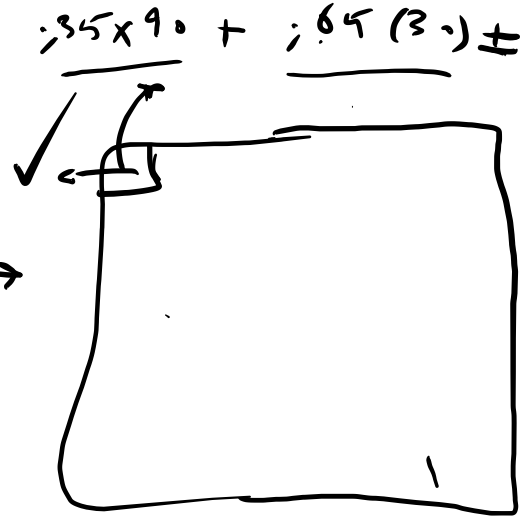
r[idx] = colormap[l, 0]

g[idx] = colormap[l, 1]

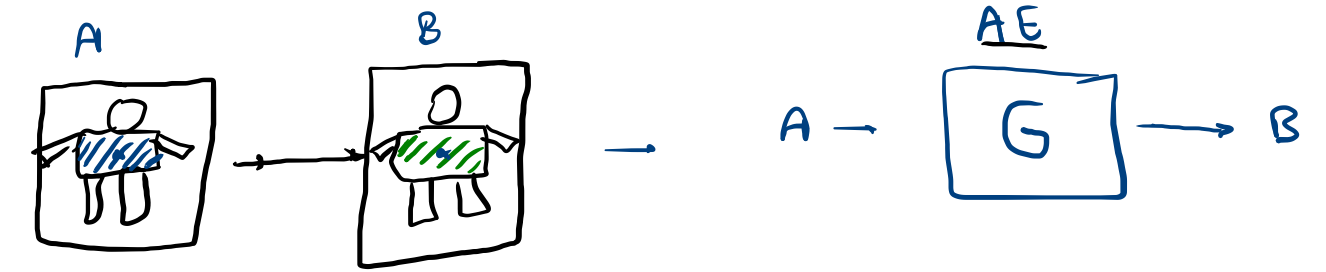
Overlay :

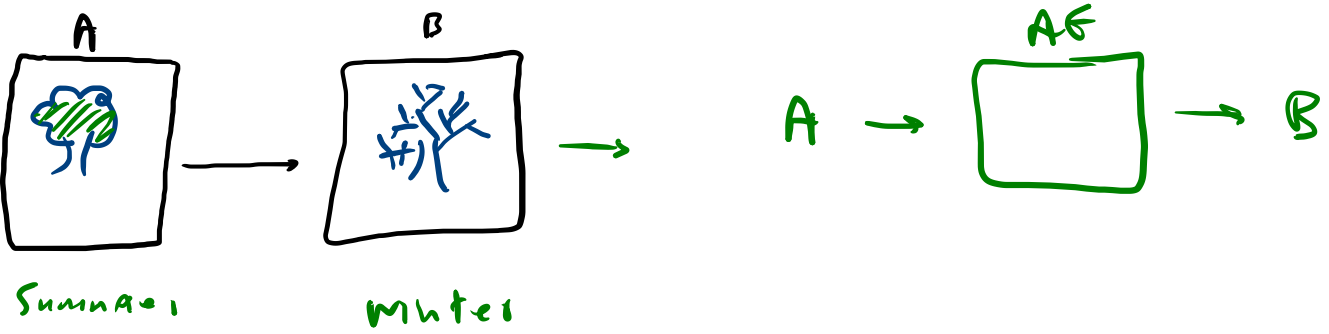


predicted mask



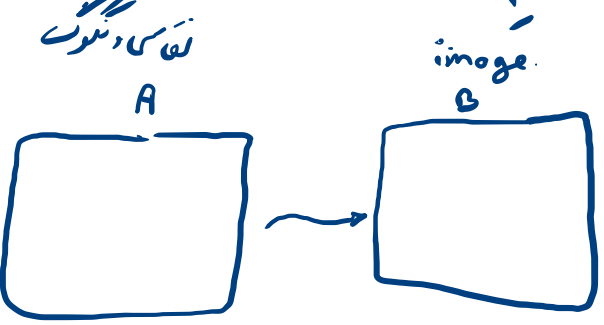
Cycle GAN

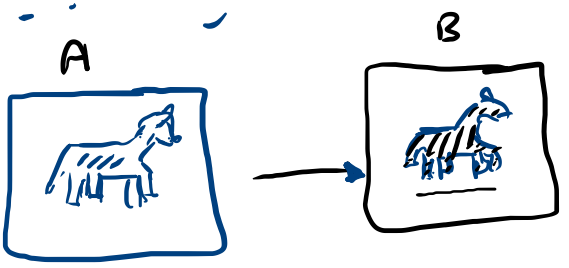

A
B
AE
A
G
B


A
B
AE
A
B
Summer
Winter

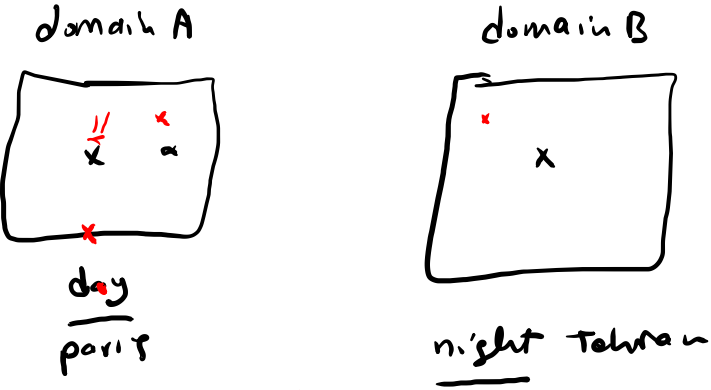
Cycle GAN ?

همیشه در طبیعت یا در دنیای واقعی تصویر B را نداریم.

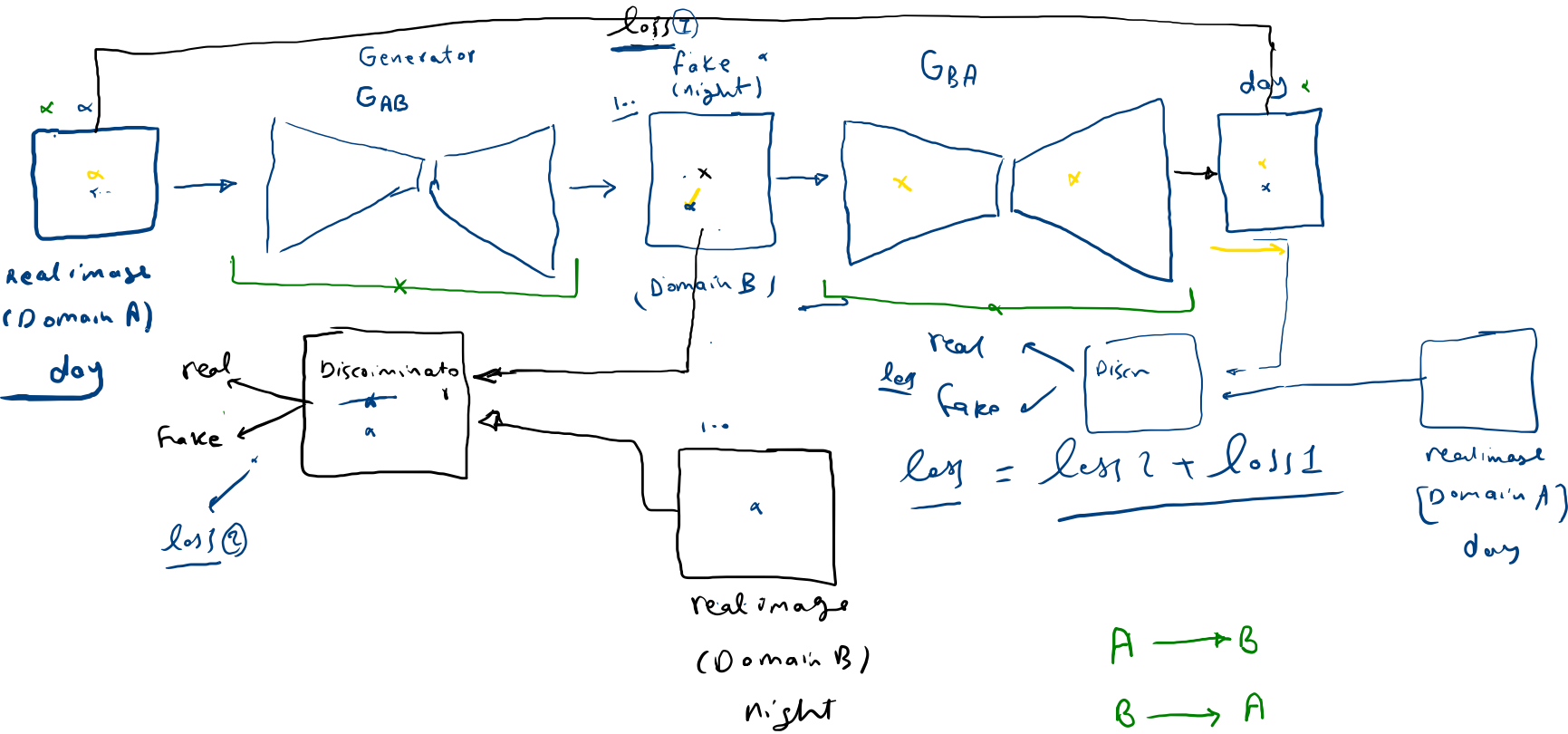




Day → Night



۱. ۲ مجبور نیستند که دیتاستی با صحنه‌های مشابه در domain های مورد نظر تهیه کنید!


loss(1)
Generator
GAB
fake
(night)
GBA
day
Real image
(Domain A)
day
(Domain B)
real
Fake
Discriminato
loss(2)
real image
(Domain B)
night
real
fake
Discn
loss = loss2 + loss1
real image
(Domain A)
day

A → B

B → A