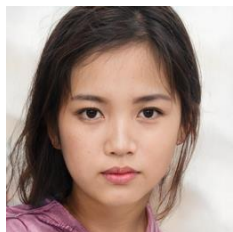
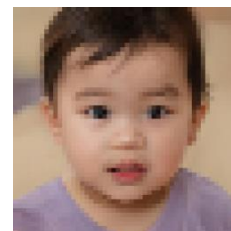


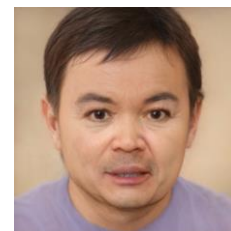
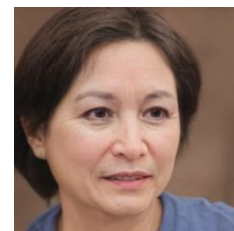
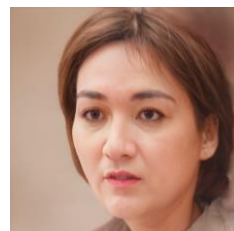
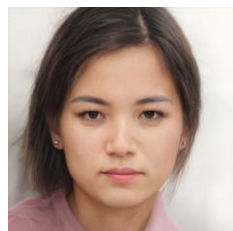
Original



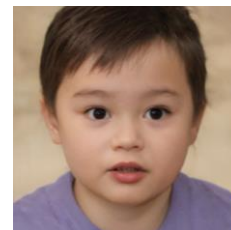
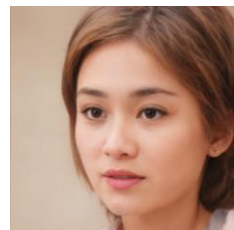
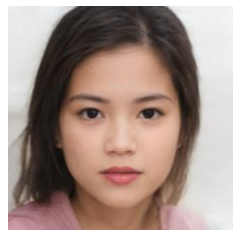
Blurred



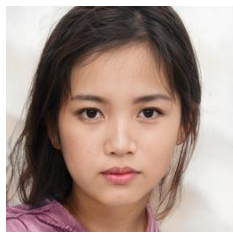
Aged



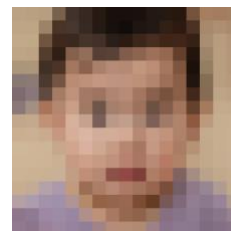
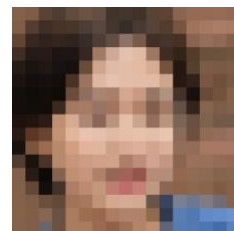
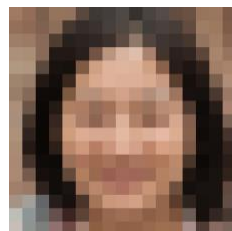
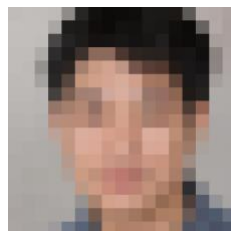
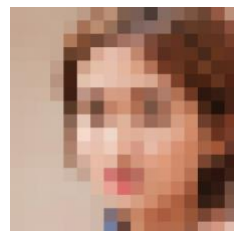
Recoverd



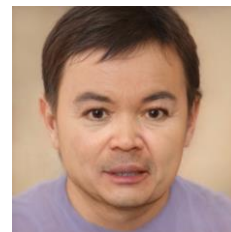
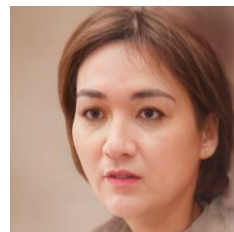
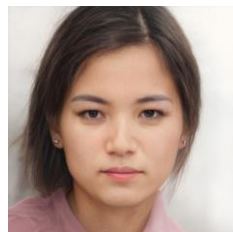
Original



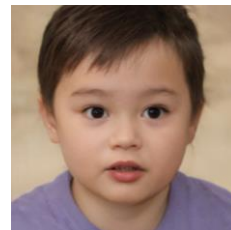
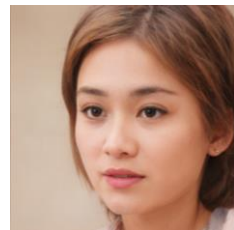
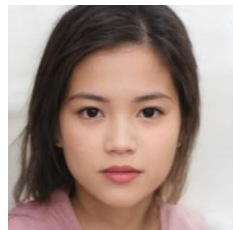
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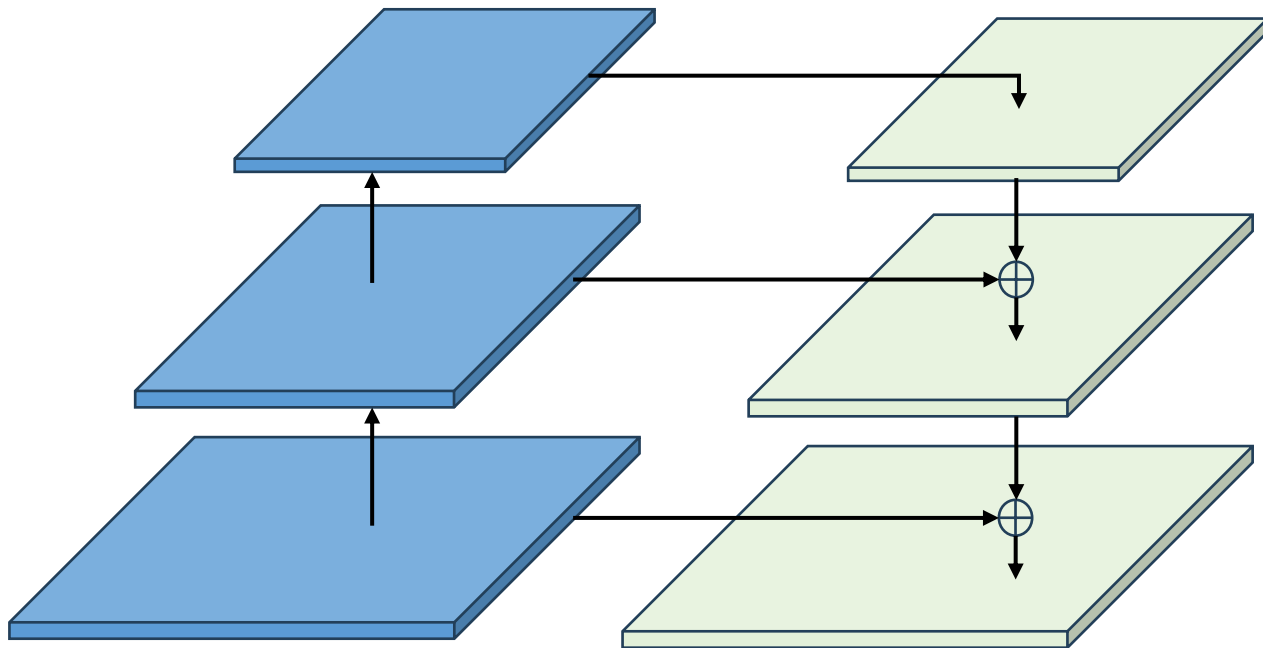


Aged



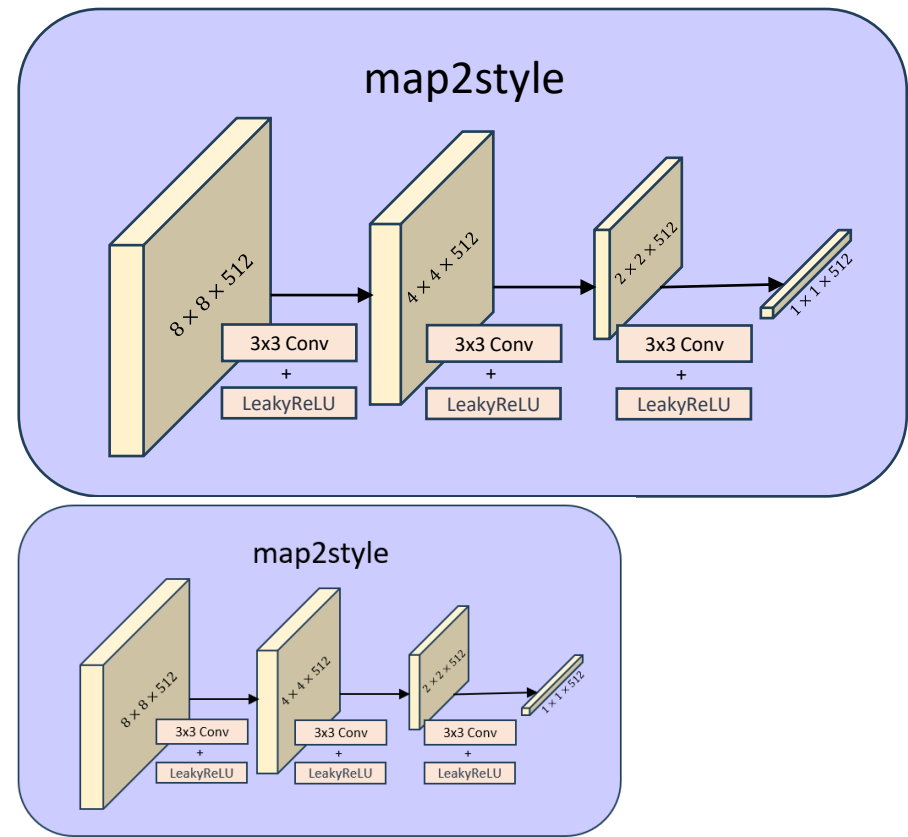
Recoverd



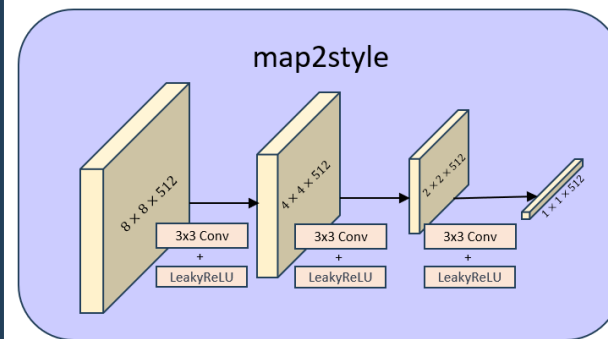
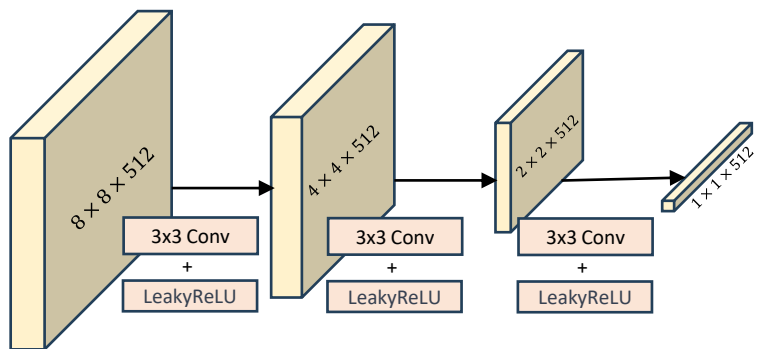


a) ResNet

b) Feature pyramid



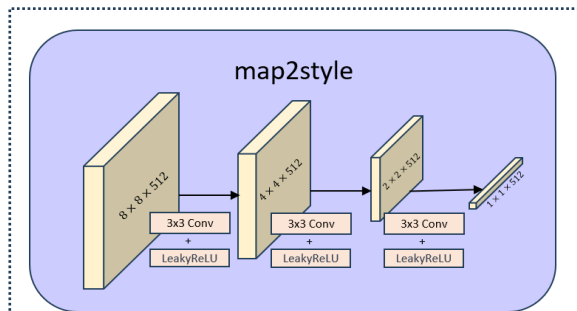
map2style





Input Image

pSp Encoder



map2style

map2style

0-2

map2style

⋮

map2style

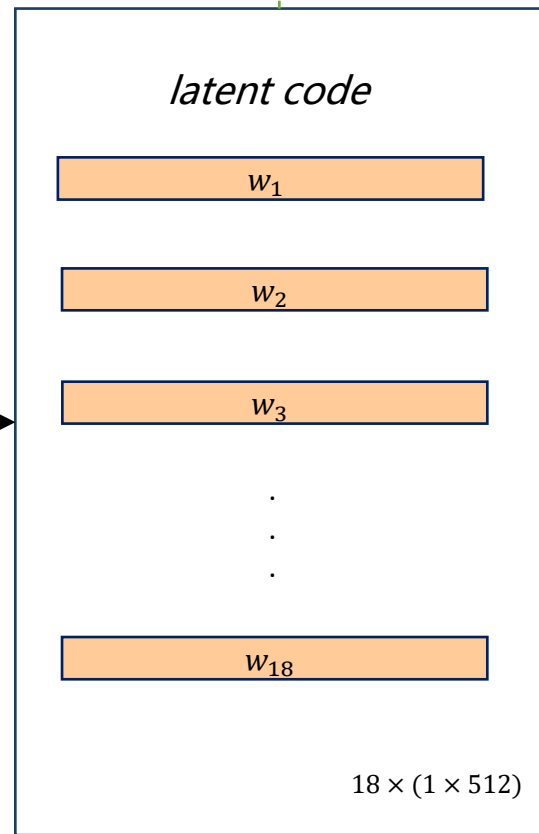
3-6

map2style

⋮

map2style

7-18



latent code

w_1

w_2

w_3

⋮

w_{18}

$18 \times (1 \times 512)$

average

+

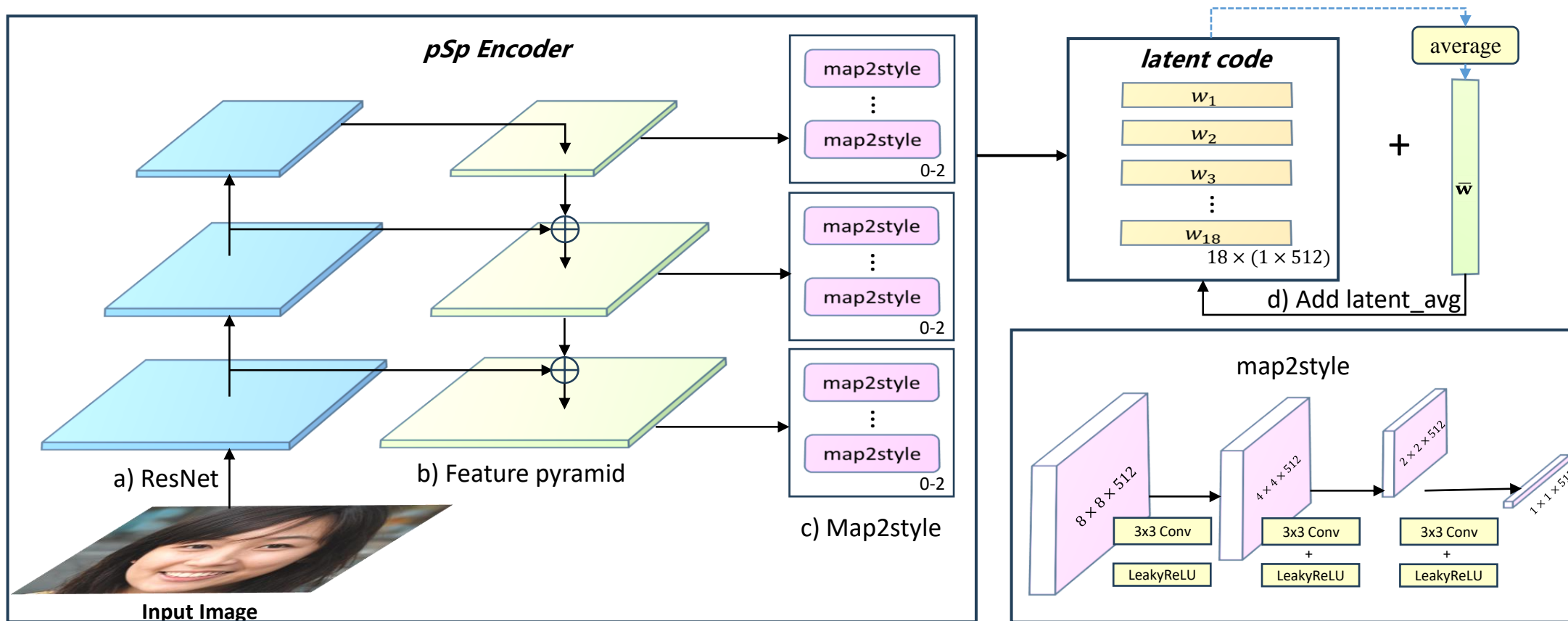
\bar{w}

a) ResNet

b) Feature pyramid

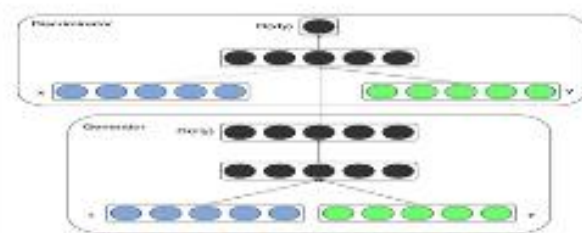
c) Map2style

d) Add latent_avg





Extracting semantic features of face and encrypting transmission



GAN I



Cloud storage of semantic secret key



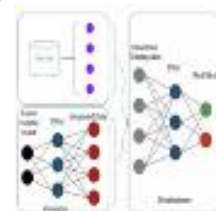
Query human face terminal



Face Detection & Gaussian encryption



video local storage



GAN II



Results output

