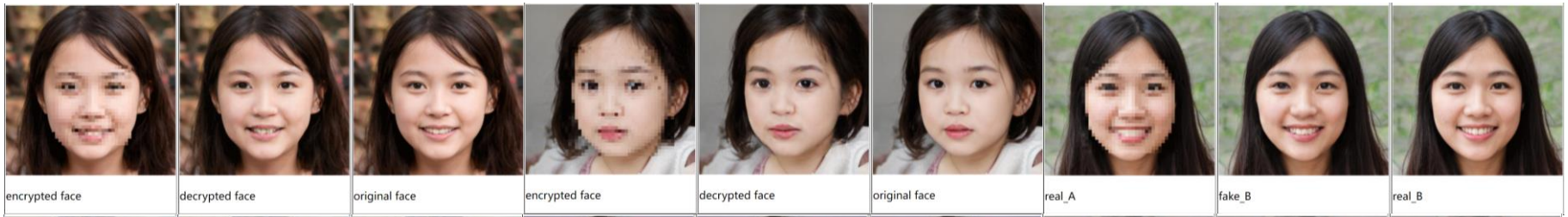
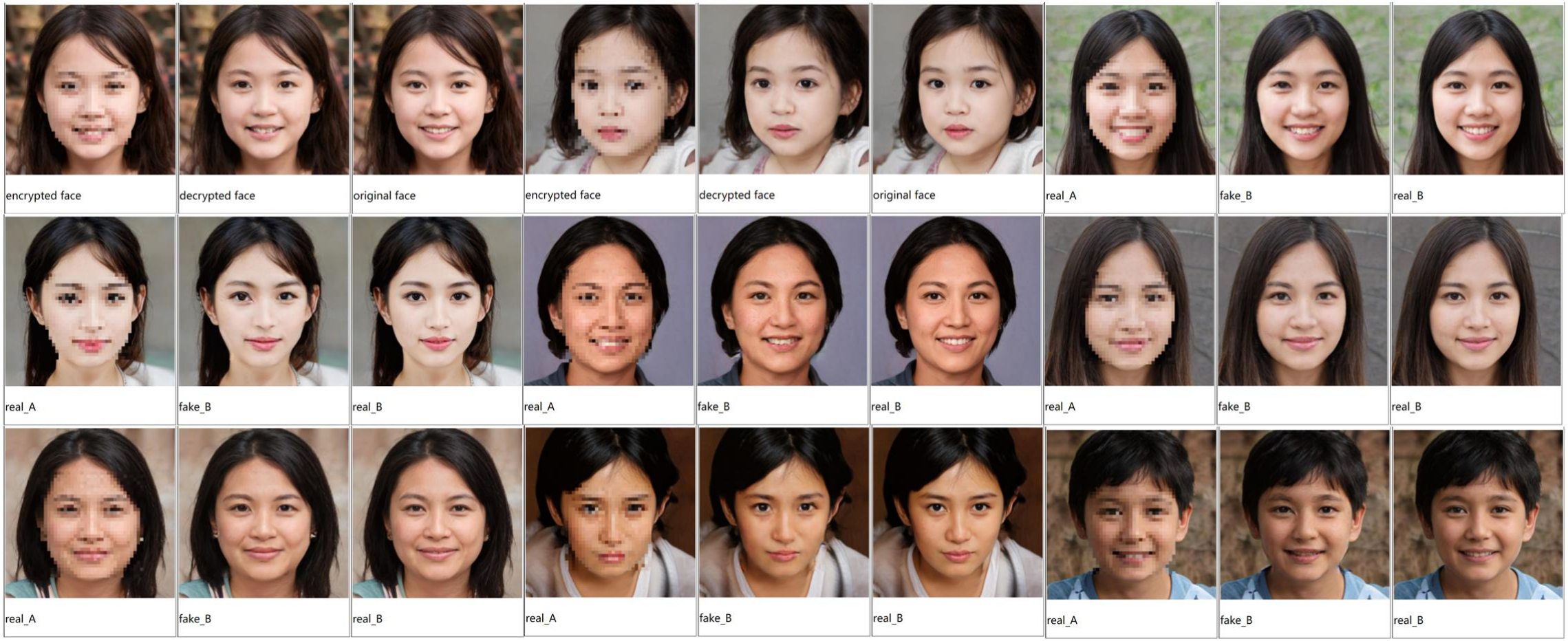


encrypted face	decrypted face	original face	encrypted face	decrypted face	original face	real_A	fake_B	real_B
real_A	fake_B	real_B	real_A	fake_B	real_B	real_A	fake_B	real_B
real_A	fake_B	real_B	real_A	fake_B	real_B	real_A	fake_B	real_B

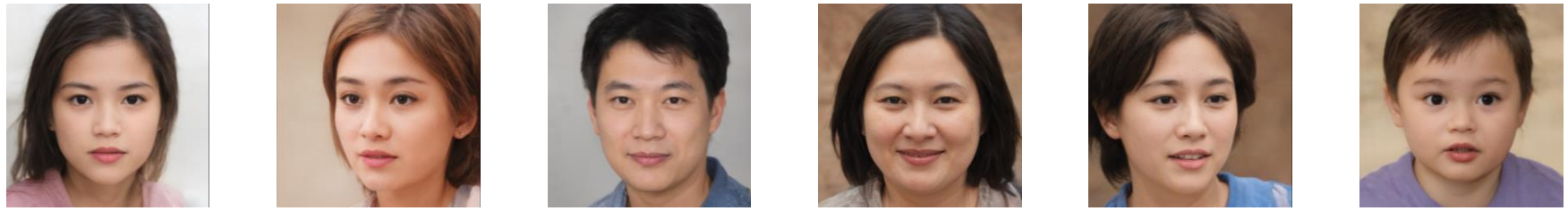

encrypted face
decrypted face
original face
encrypted face
decrypted face
original face
real_A
fake_B
real_B
real_A
fake_B
real_B
real_A
fake_B
real_B
real_A
fake_B
real_B
real_A
fake_B
real_B
real_A
fake_B
real_B
real_A
fake_B
real_B

Original

Blurred

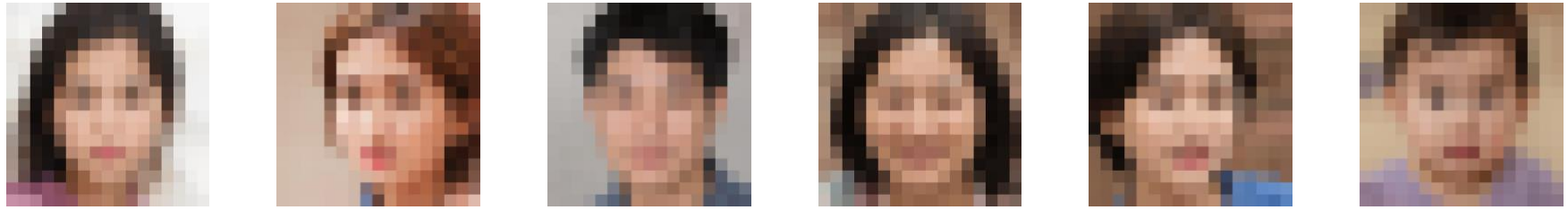
Aged

Recoverd



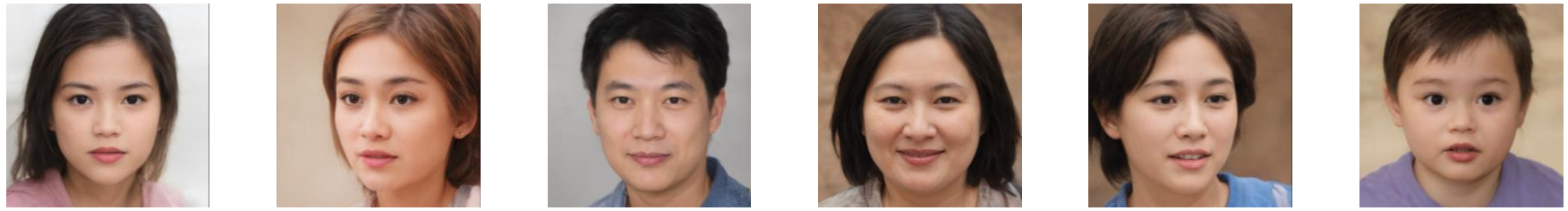
Original

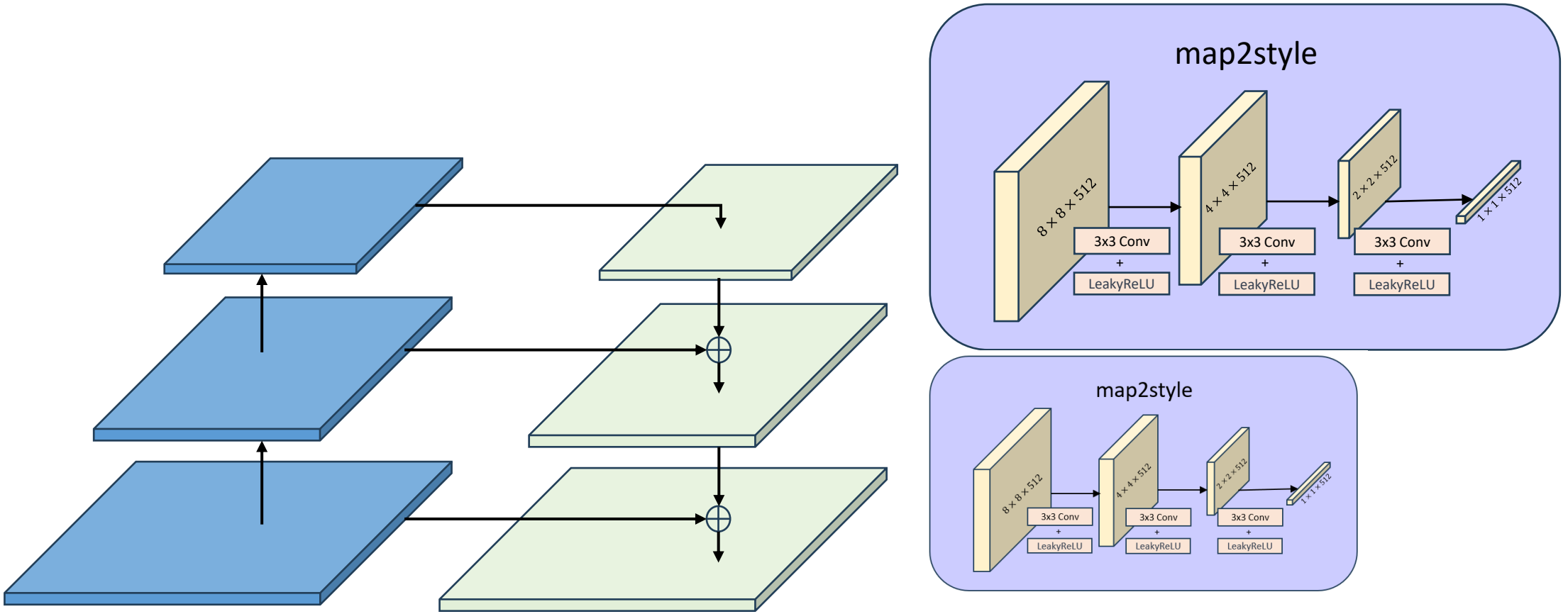
Blurred



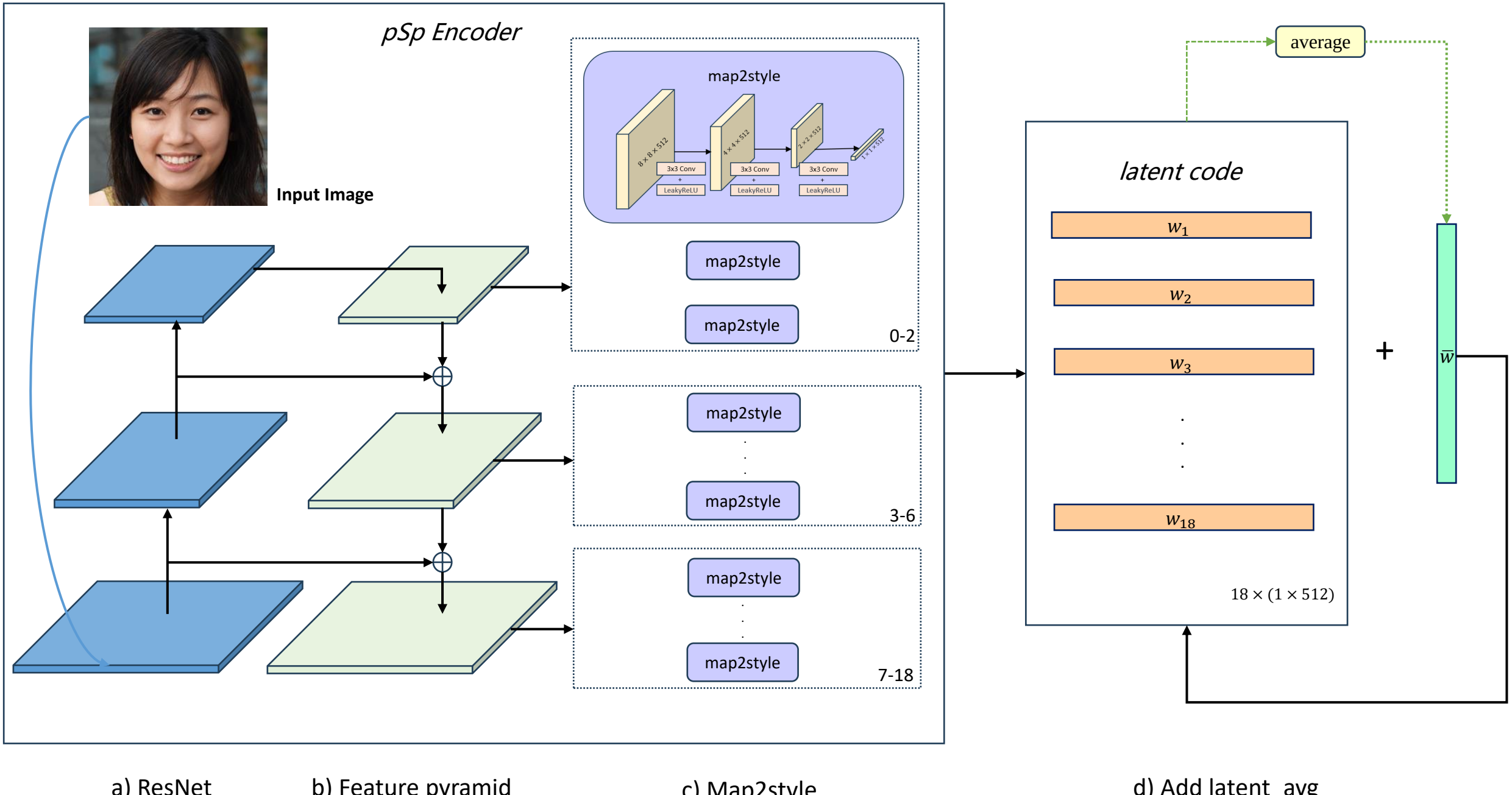
Aged

Recoverd

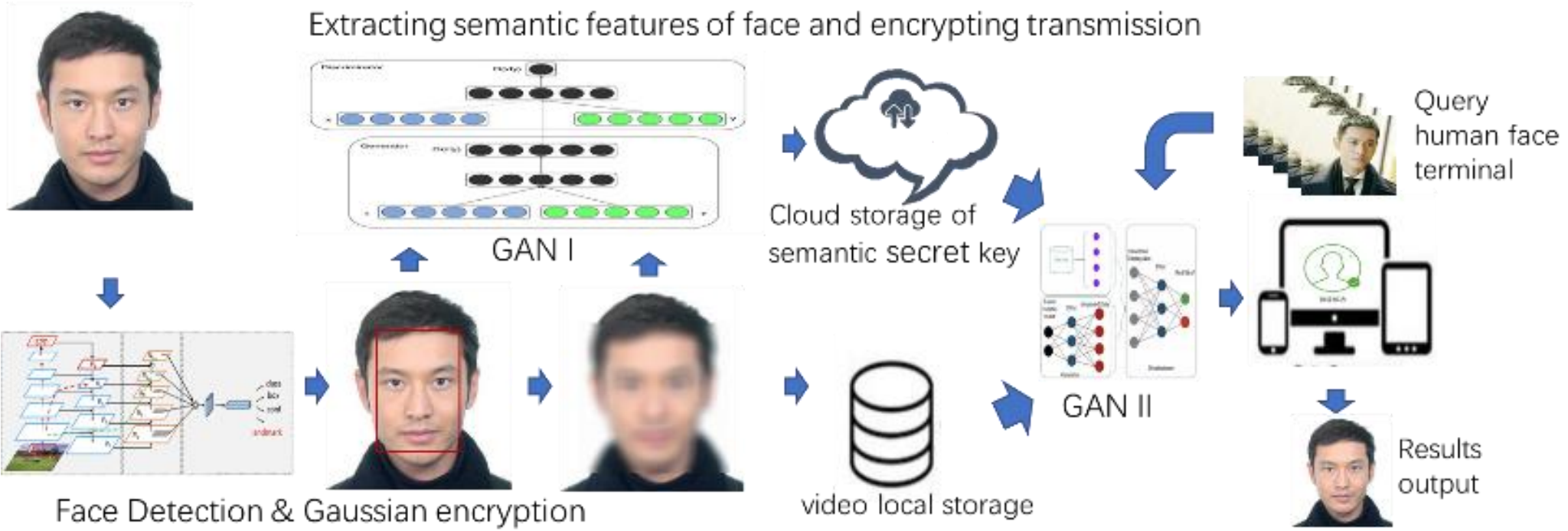




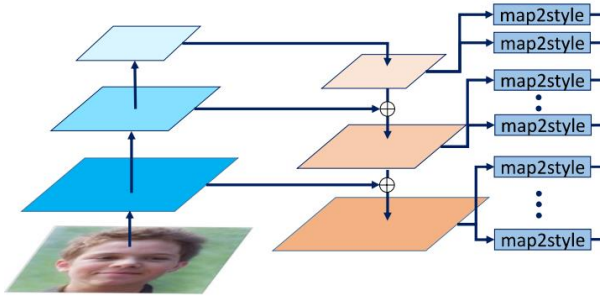
a)ResNet b)Feature pyramid



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
GAN II
Face Detection & Gaussian encryption
video local storage
Results
output

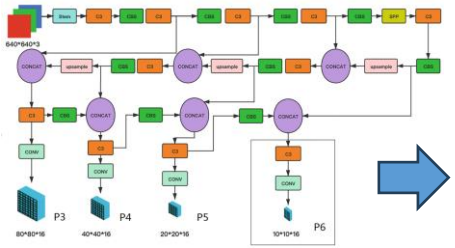
Extracting semantic features of face and encrypting transmission

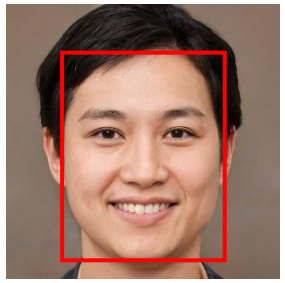


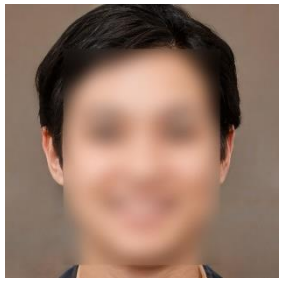
Encoder

Cloud storage of semantic secret key

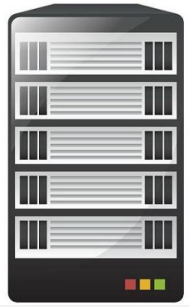
Query human face terminal



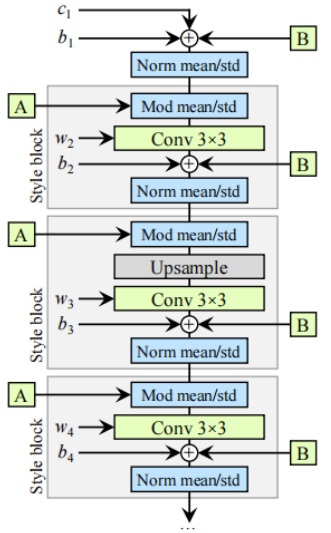




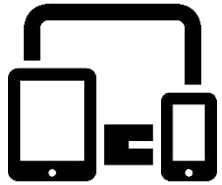
Face Detection & Gaussian encryption



video local storage



GAN generator



Results output