

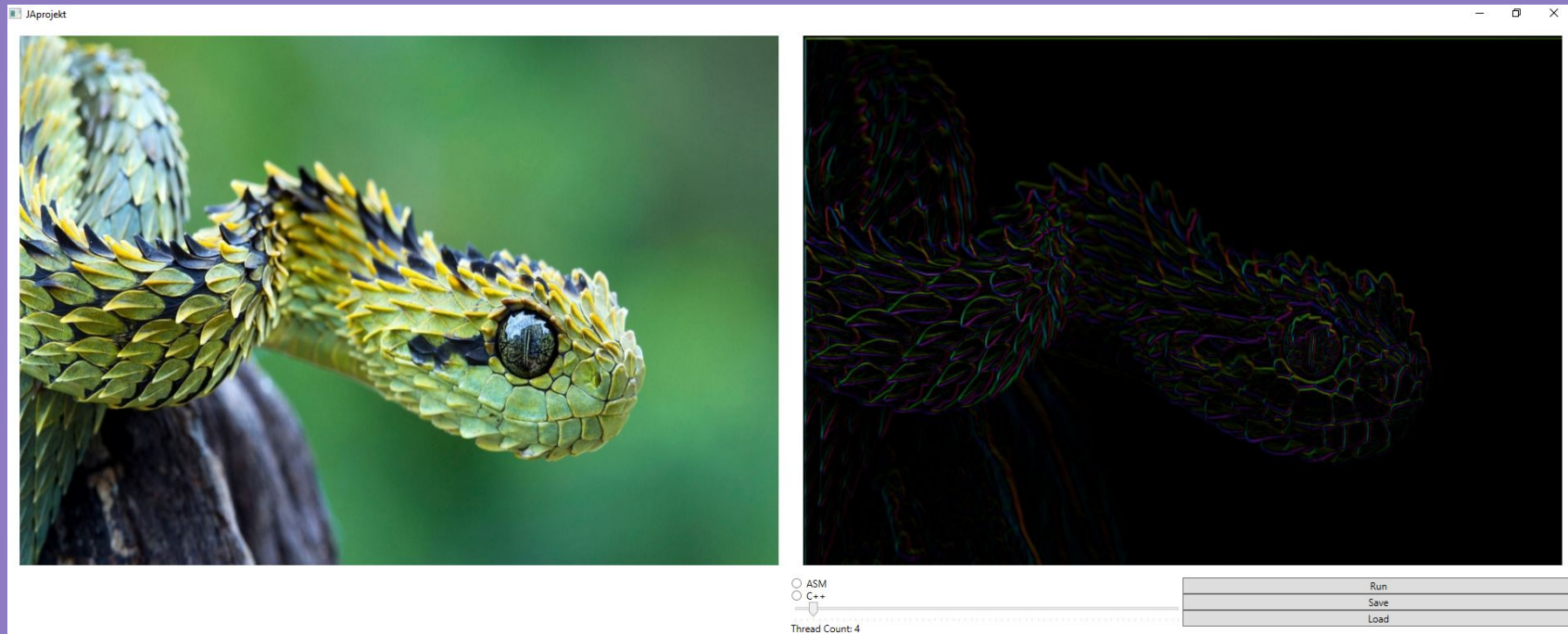
Face Generation using VAE

Convolution

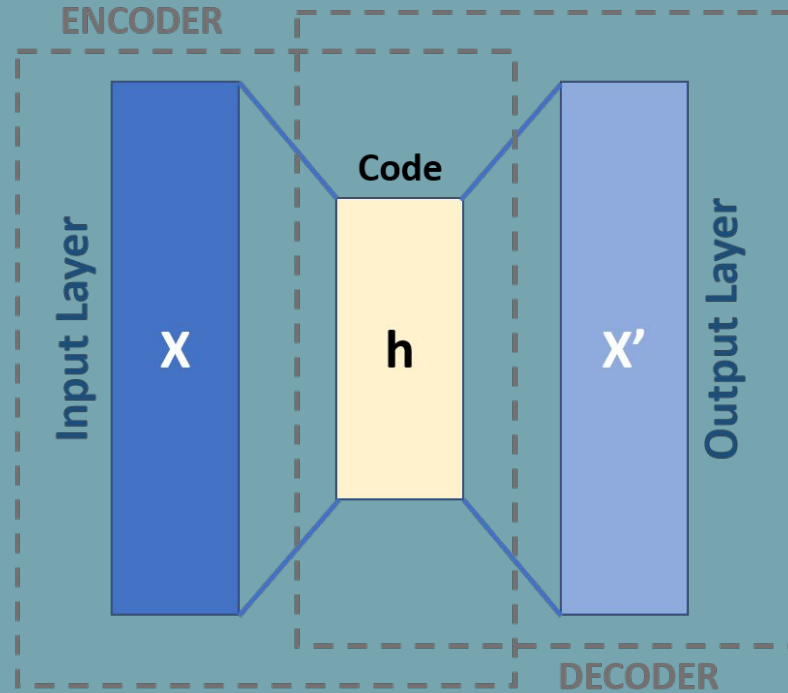
1	2	1
2	3	2
1	2	1

1	2	3	3	2
2	3	1	2	1
1	3	3	2	2
3	2	1	3	2
1	3	2	3	1

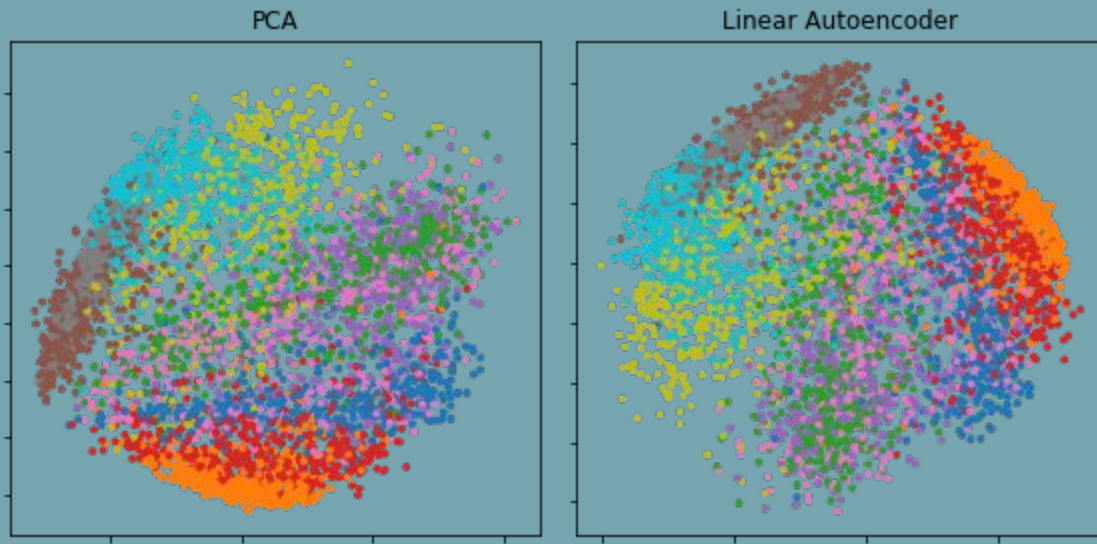
Convolution



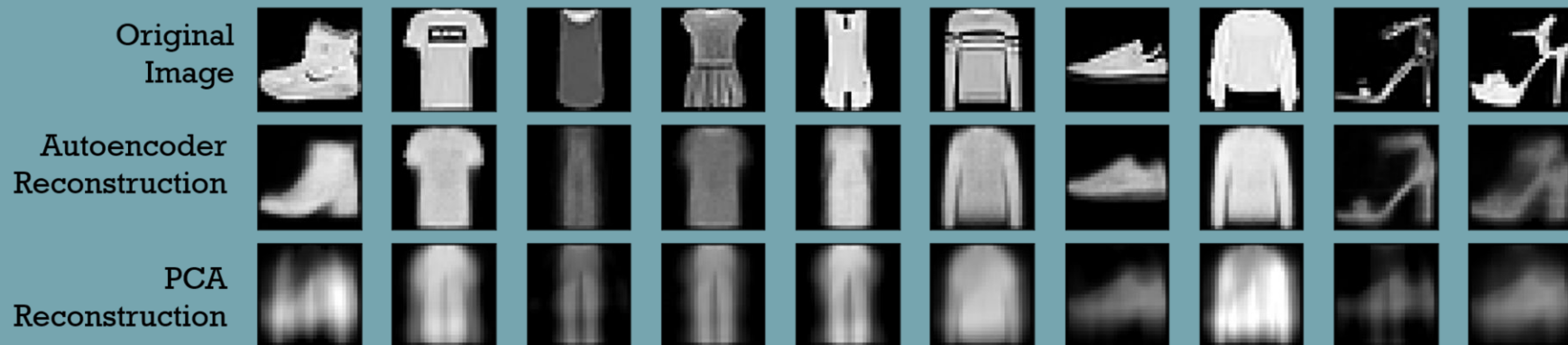
Coder Decoder Dynamic



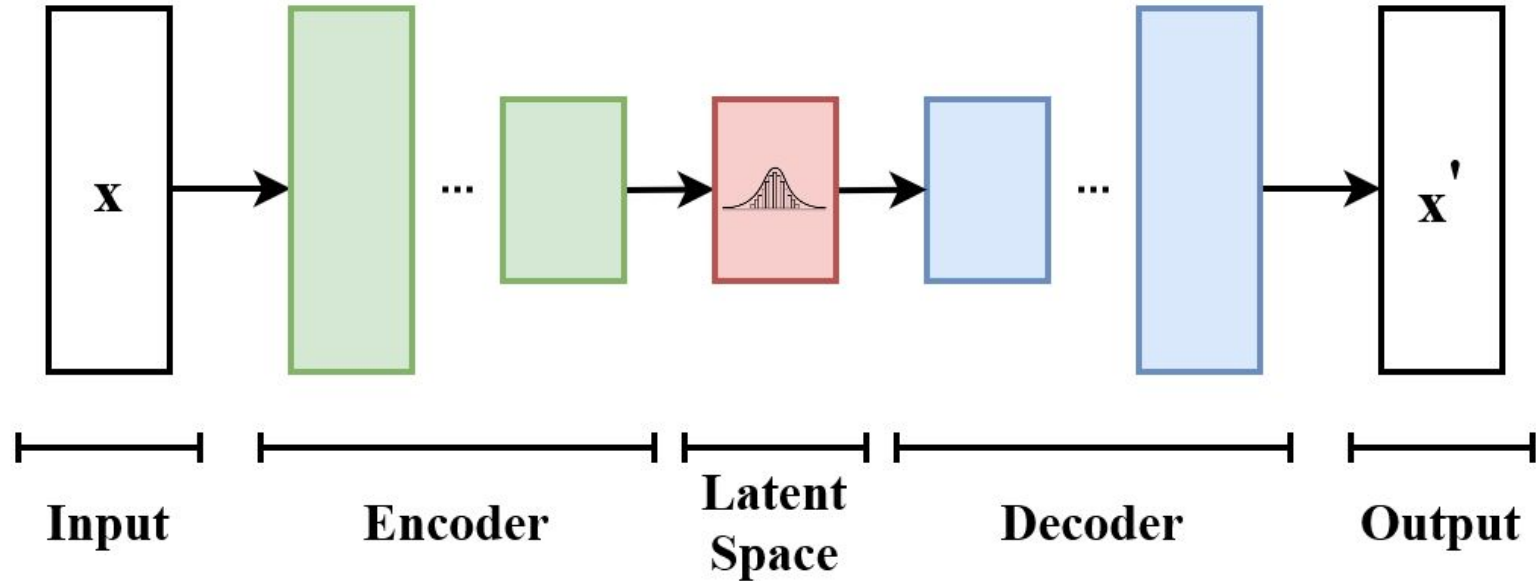
Example



Example

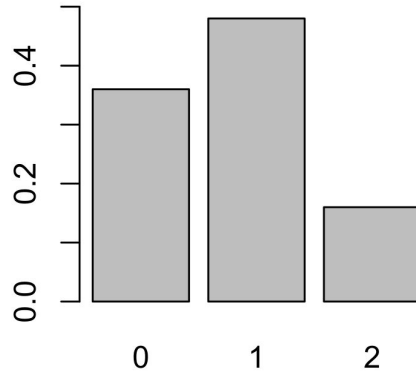


Variational Auto Encoder

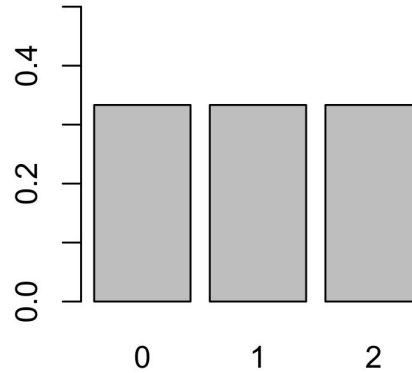


Kullback-Leibler divergence

Distribution P
Binomial with $p = 0.4$, $N = 2$



Distribution Q
Uniform with $p = 1/3$



Face generation

VAE face interpolation



The end