β – *VAE* MNIST experiments

by bumjin Park.

Beta: 0

hidden	Generated (This is actually just the AutoEncoder)
10	20
30	20 - 4/ 20 - 7/ 20 - 5/ 20 - 2/ 20 - 5/ 20 - 2/ 20 - 5/ 20 - 2/ 20 - 5/ 20 - 2/ 20 - 5/ 20 - 2/ 20 - 5/ 20 - 2/ 20 - 5/ 20 - 2/ 20 - 5/ 20 - 2/ 20 - 5/ 20 - 2/ 20 - 5/ 20 - 2/ 20 - 5/ 20 - 2/ 20 - 5/ 20 - 2/ 20 - 5/ 20 - 2/ 20 - 5/ 20 - 2/ 20 - 5/ 20 - 2/ 20 - 5/ 20 - 2/ 20 - 5
70	20 8 20 0 20 0 20 0 20 0 20 0 20 0 20 0
100	22- 9

Beta: 0.01

hidden	generated
10	20 · O 20
30	20 - 1 20 - 6 20 - 7 20 - 7 20 - 7 20 - 7 20 - 7 20 - 7 20 - 7 20 - 3 20 - 7 20
70	20
100	20 - 7 20 - 9 20 - 7 20 - 7 20 - 7 20 - 8 20 20 - 8 20 20 20 20 20 20 20 20 20 20 20 20

Beta: 0.1

hidden	generated
10	20. 3
30	20 6 10 1 20 10 10 10 10 10 10 10 10 10 10 10 10 10
70	20
100	20 5 20 0 70 8 20 3 70 9 20 8 70 8 70 5 70 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1

Beta: 0.2

hidden	generated
10	20
30	20 9 20 0 20 0 20 0 20 0 20 0 20 0 20 0
70	20. 4
100	20- 1 20- 6 20 20- 1 20- 20- 20- 20- 20- 20- 20- 20- 20- 20-

Beta: 0.5

hidden	generated
10	20
30	20
70	20 8 20 1 20 6 20 0 20 7 20 6 20 20 20 20 20 20 20 20 20 20 20 20 20
100	20 8 20 7 20 9 20 20 20 0 20 0 20 0 20 0 20

Beta: 1

hidden	Generated (This is VAE)
10	20 3 70 5 20 7 20 0 70 9 20 1 20 7 7 70 1 20 1 20 20 70 1 20 70 1 20 70 1 20 70 1 20 70 1 20 70 1 20 70 70 70 70 70 70 70 70 70 70 70 70 70
30	20
70	20
100	20

Beta: 2

hidden	generated
10	20
30	20 8 20 4 20 20 20 20 20 20 20 20 20 20 20 20 20
70	20
100	20

Beta: 5

hidden	generated
10	20 4 20 3 20 9 20 0 70 6 20 0 70 9 20 0 70 6 20 0 70 0 70 0 70 0 70 0 70 0
30	20
70	20.
100	20 2 20 8 20 1 20 7 20 1 20 20 20 20 20 20 20 20 20 20 20 20 20



