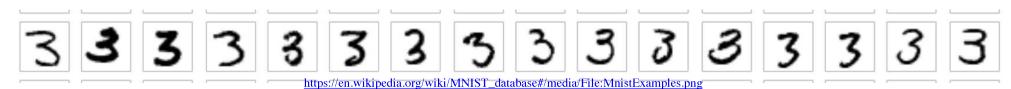
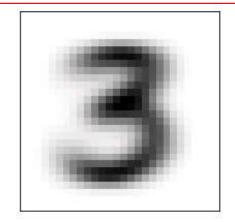
Application to the MNIST dataset (just the 3's)



RD×D = R28×28



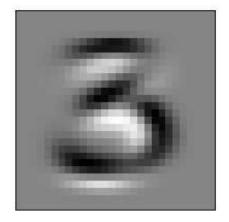
Mean and eigenvectors:

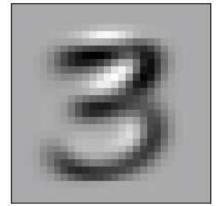


PREDICTIVE

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▼ offset

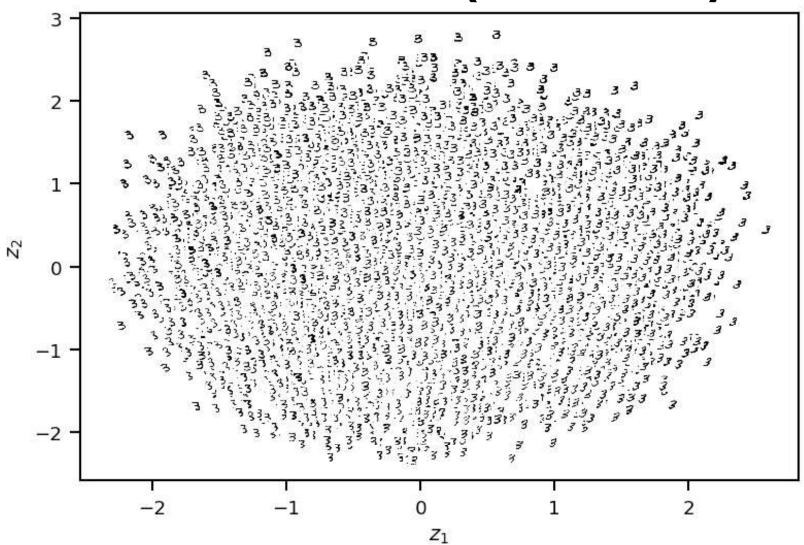
 \mathbf{w}_1

 \mathbf{W}_2

 \mathbf{W}_3

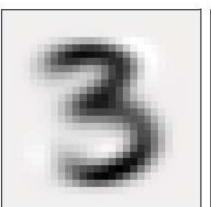
correspond to orthonal directions

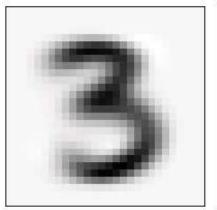
Projection of the data in two dimensions (1 and 2)

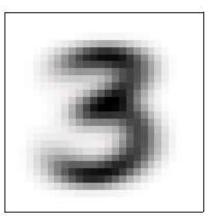


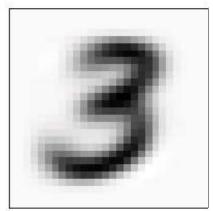


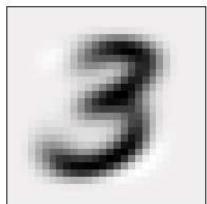
What happens when you only change z_1







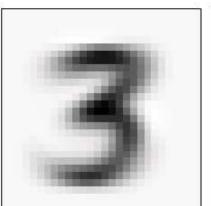


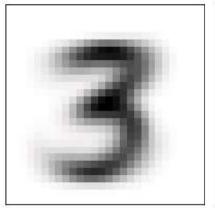


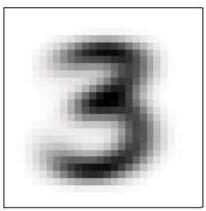
 z_1

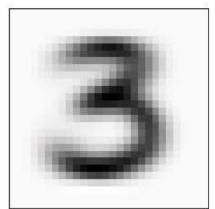


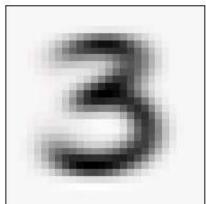
What happens when you only change z_2







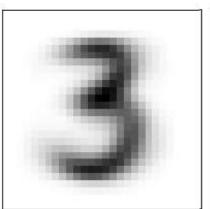


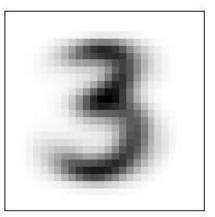


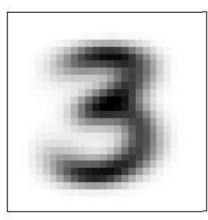
 \mathcal{Z}_2

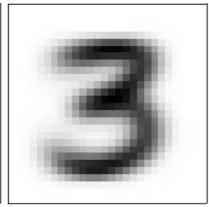


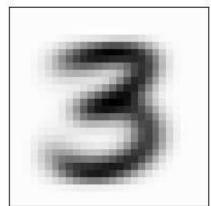
What happens when you only change z_3











*Z*₃

directions capture certain features of the higher dimensional data &

