

 $C(x^{T}y) = \lambda(x^{T}y).$ $C\underline{y} = \lambda \underline{y}$ Thus, (X^TY) is a normalized eigenvector of (X^TY) value (X^TY) . Thus we have calculated the PCA solution for C using the eigendecomposition of matrix B. alos 100 m=100 eigen vectors M=100 images wyh. d= Wxhx3 Eigen vectors in a d-din space. How many eigen vectors will me get 7.7.
with non-zus eigen values 3 despare m prints in a d-dim spare 2 points in a 3 d spare m < 2 d 3 points in a 2 departers.

Plane
Zeigenvectors.

3×106 to 100 d=wxhx3 I, in the new space of 2 eigenspace:

with 100 dimensional 1000 vector II--- Ino each image requies a 150-din vector.

3×106,

d=100 We need to store the bases of the new space also MXWXhX3 color beiginal. Mx100) + mxwxh x3 Eigen space Using m' < m eigenvectors in m'= 50 the new space mx50 + 50 x wxhx3

PCA Bases also need to be stored. . WXLX3