1D 🡪 a line

2D 🡪 a x and y axis

3D 🡪 x y and z axis

Cannot plot more than 3 dimensional

But using PCA you can \*shocked\*

PCA calculates the distance between the points and the x and y axis for the average values

We try to get the data center

Plot new graph over data centre with the center being 0,0

Think linear 🡪 we do the LINE

We put in the line and rotate it until it fits the data. (zie linear regression ofzo)

Minimize the distances. Square the distances to always have a positive number to make the sum

Take the mean from that sum.

Rotate and repeat until you have the optimal line.

The fitted line is the principal component one (PC1)

Mostly spread around x axis one.

Afbeelding met tekst, schermopname, Lettertype

Automatisch gegenereerde beschrijving

Standardize data; If we don’t do it, our learning algorithm cannot learn.