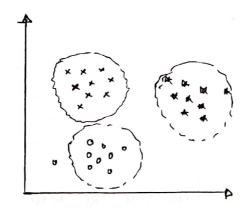
## K-Means Clustering



is unlabeled (unsupervised learning). Each sample is assigned to the cluster with the meanest mean.

## A Herative Optimization!

1. Initialize cluster centers (e.g. nandomby)

2. Repeat until converged:

-) Update cluster labels: Assign points to the meanest cluster center (centroid)

=> Update cluster centers (centroids); set center to the mean of each cluster.

## 1 Euclidean Distance!

Get the distance between two feature vectors  $d(P,q) = \sqrt{\sum (P_2 - q_3)^2}$