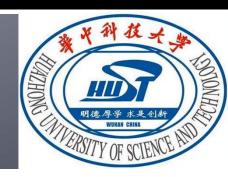
Chapter 4: Clustering

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High Dimensional Data

Given a cloud of data points we want to understand its



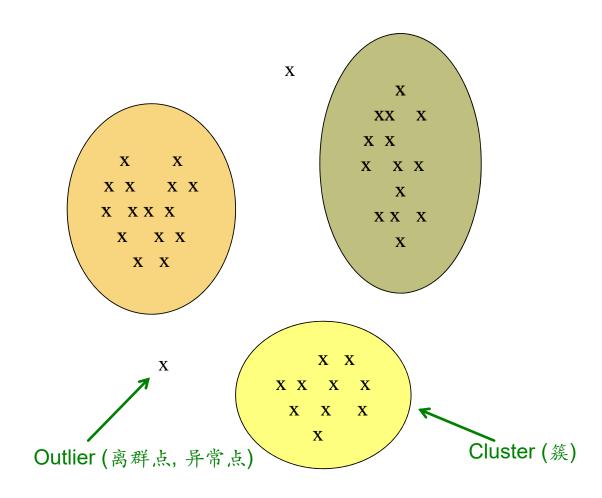
The Problem of Clustering

- Given a set of points, with a notion of distance between points, group the points into some number of clusters, so that
 - Members of a cluster are close/similar to each other
 - Members of different clusters are dissimilar

Usually:

- Points are in a high-dimensional space
- Similarity is defined using a distance measure
 - Euclidean, Cosine, Jaccard, edit distance, ...

Example: Clusters & Outliers



Clustering is a hard problem!

