Clustering

- K means
- Hierarchical

Goal: To make 3 marketing strategies

Age (in years)

Engagement with the page (in days/week)

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Age (in years)

Engagement with the page (in days/week)



Age: 42

Eng. 7



Age: 18

Eng. 3



Age: 23

Eng. 2



Age: 49

Eng. 1



Age: 37

Eng. 7



Age: 51

Eng. 1



Age: 40

Eng. 6



Age: 20

Eng. 4

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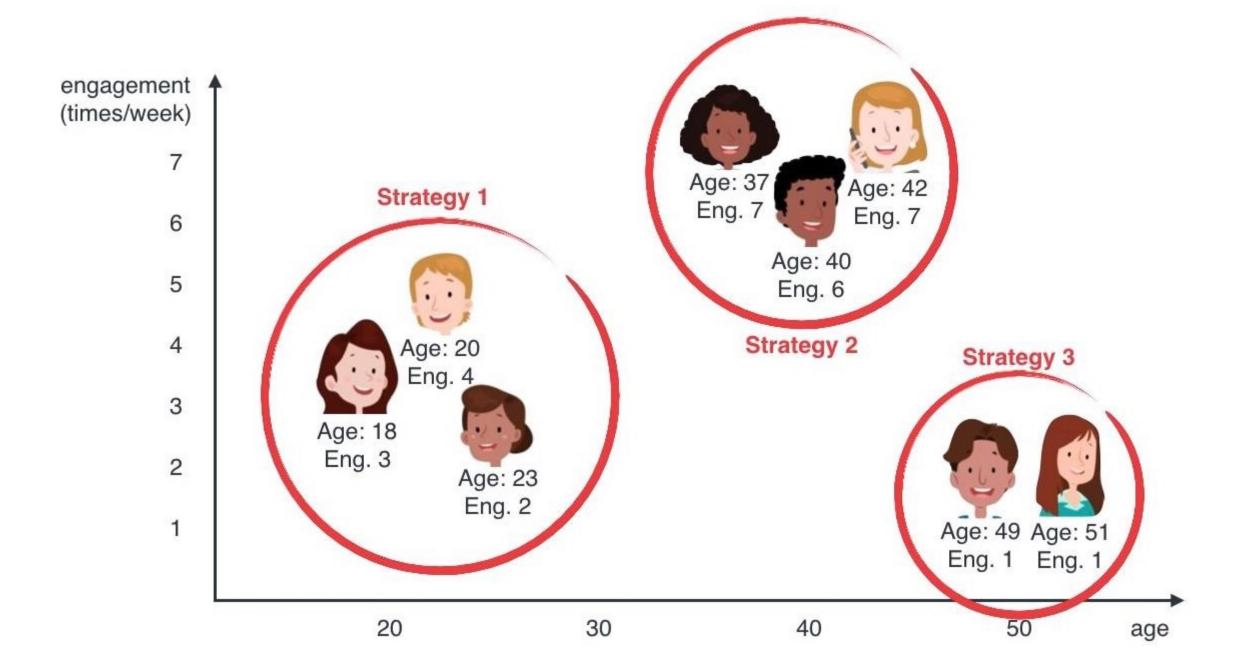
Age: 40 Eng. 6



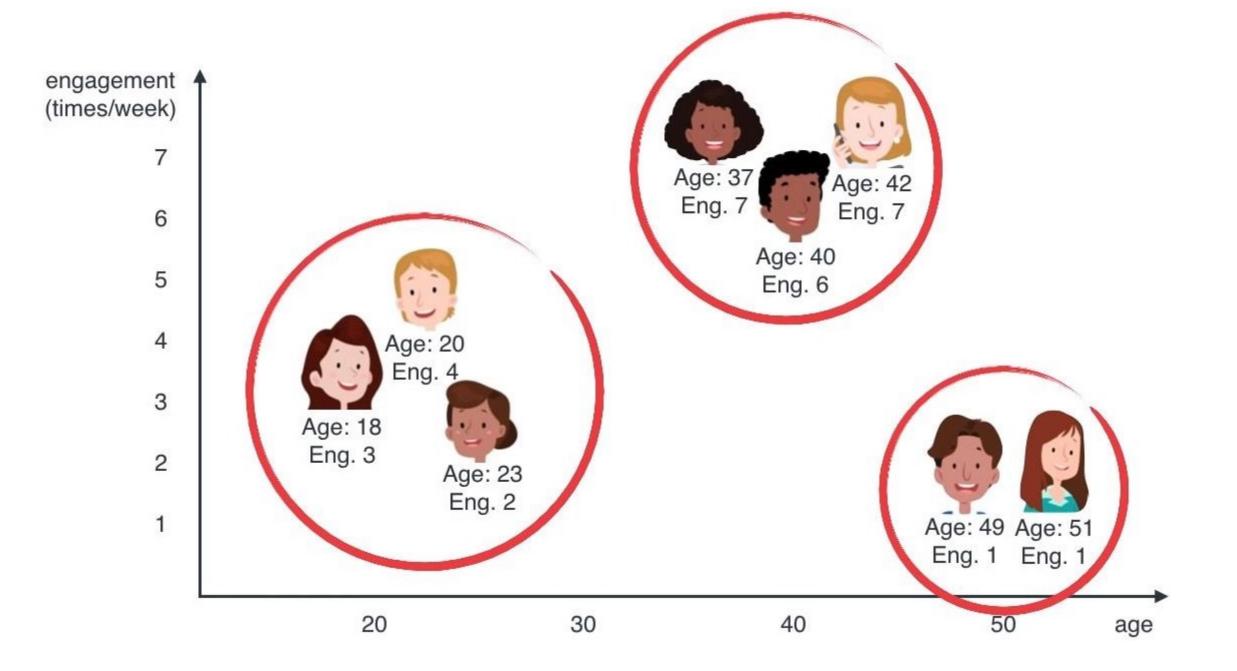
Age: 20 Eng. 4







K-means clustering



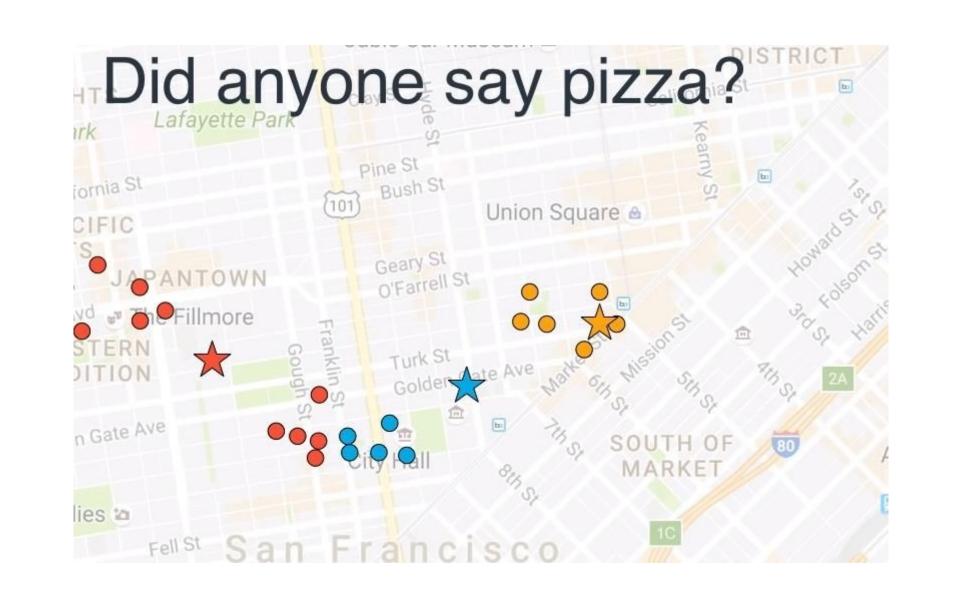








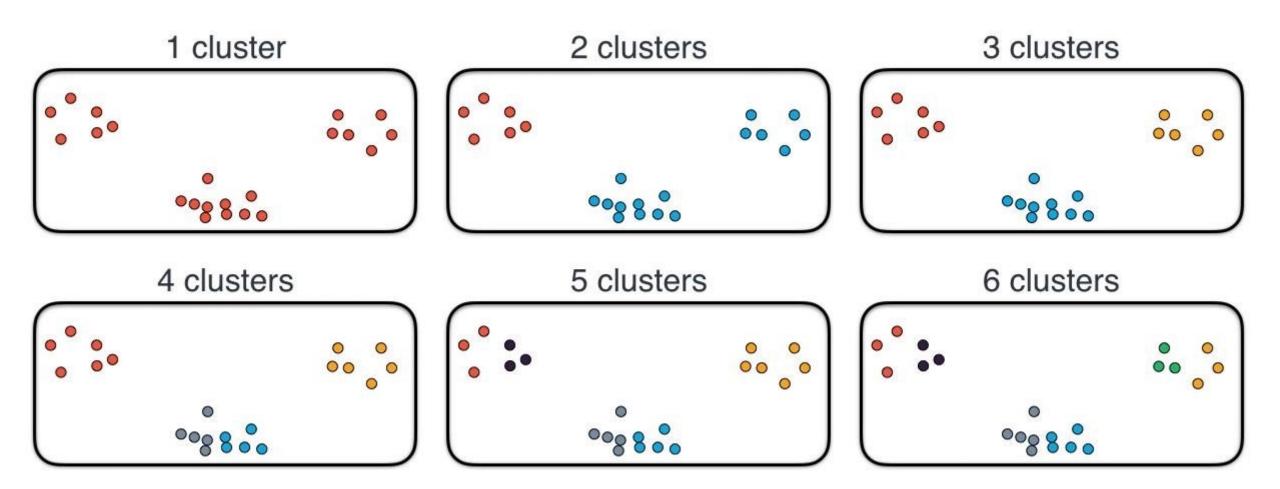


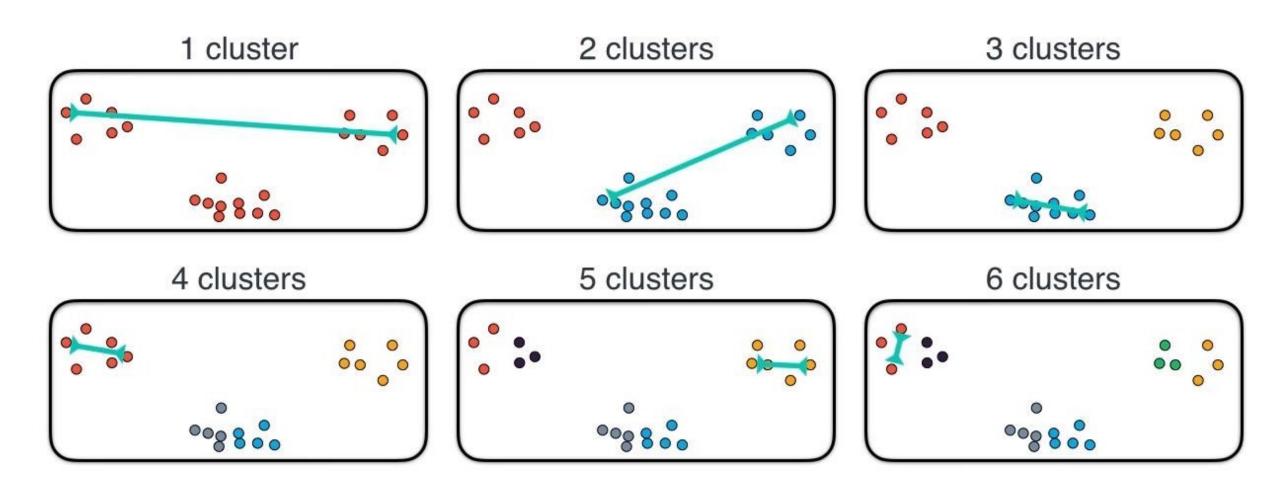


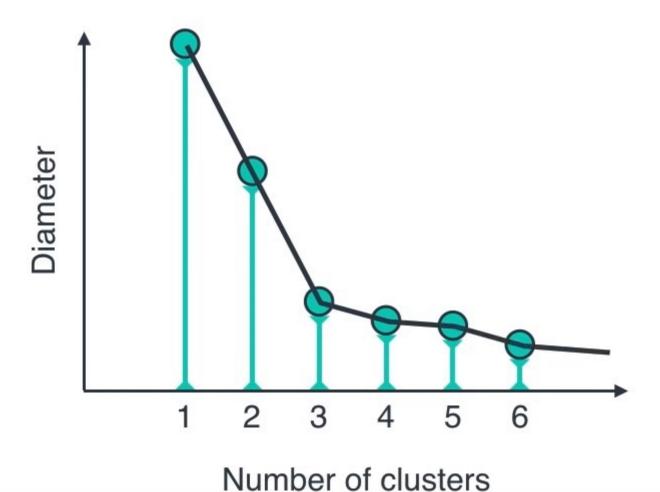


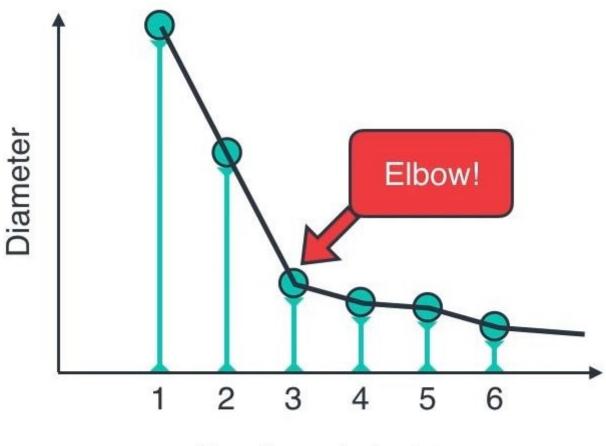


How do we know how many clusters?

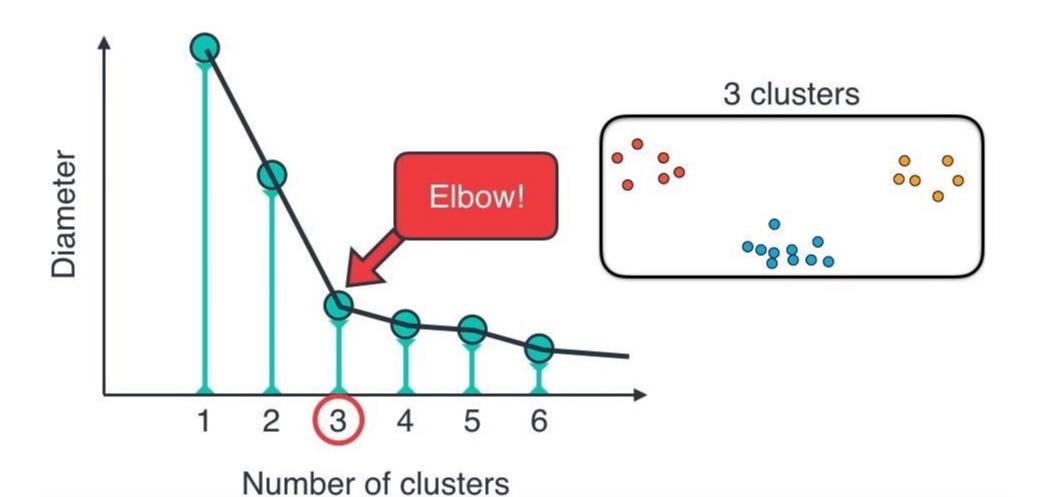




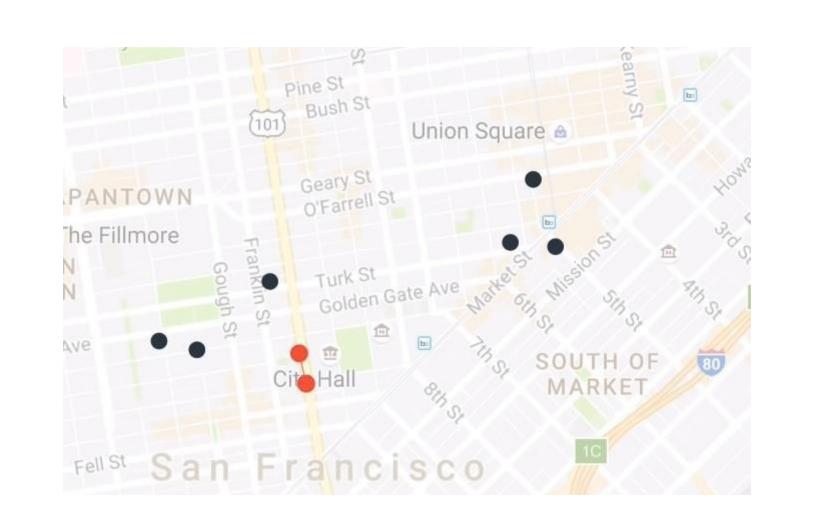


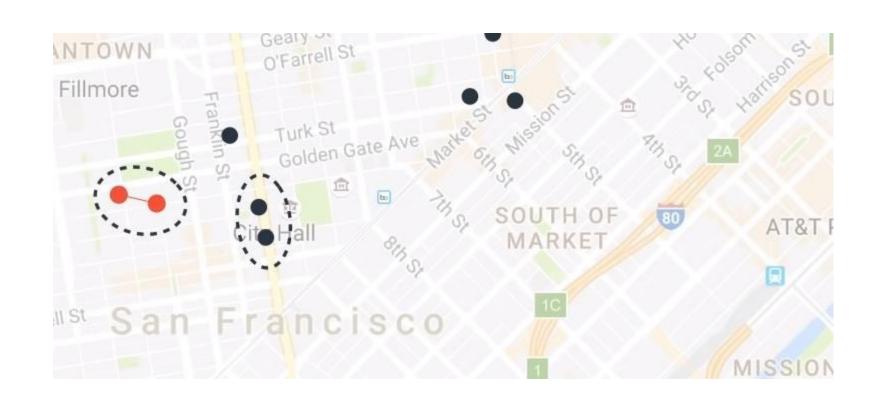


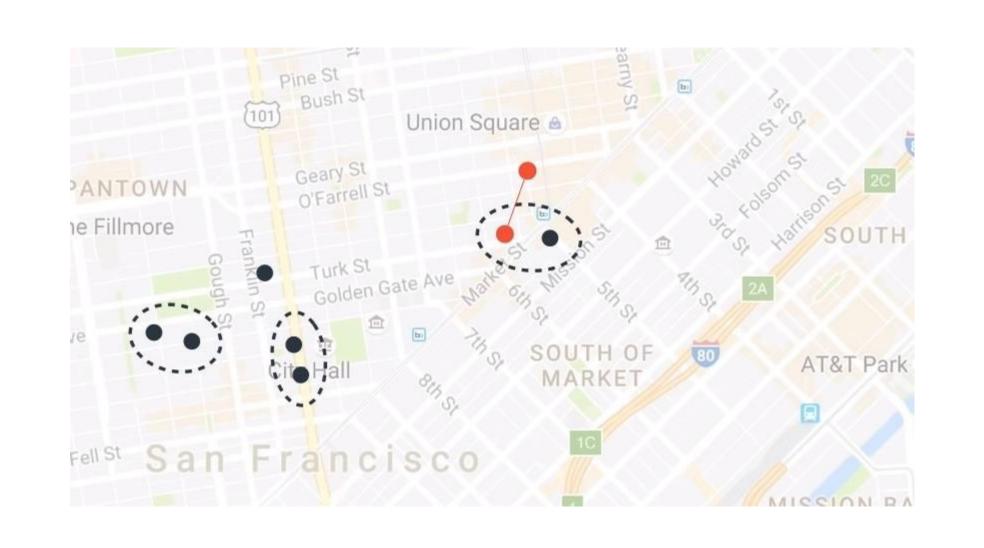
Number of clusters



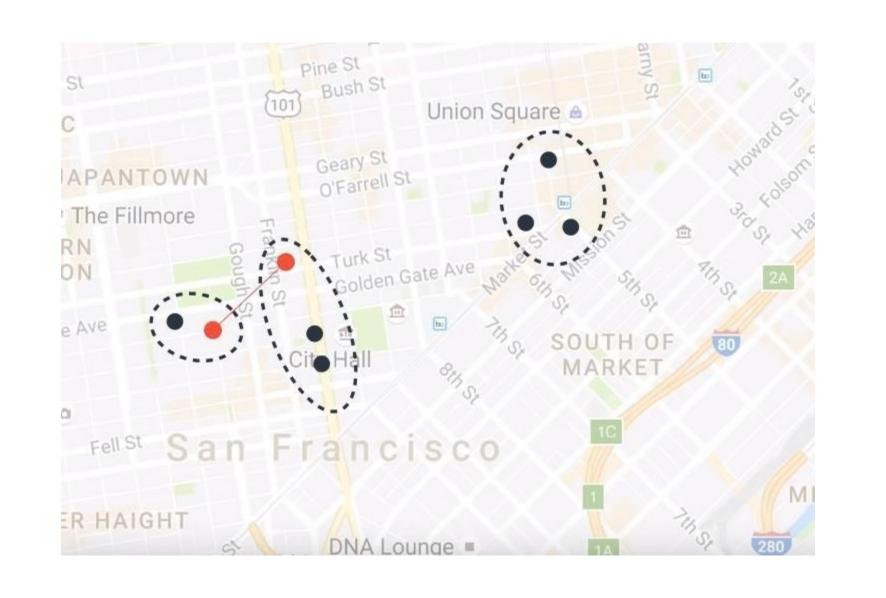
Hierarchical clustering

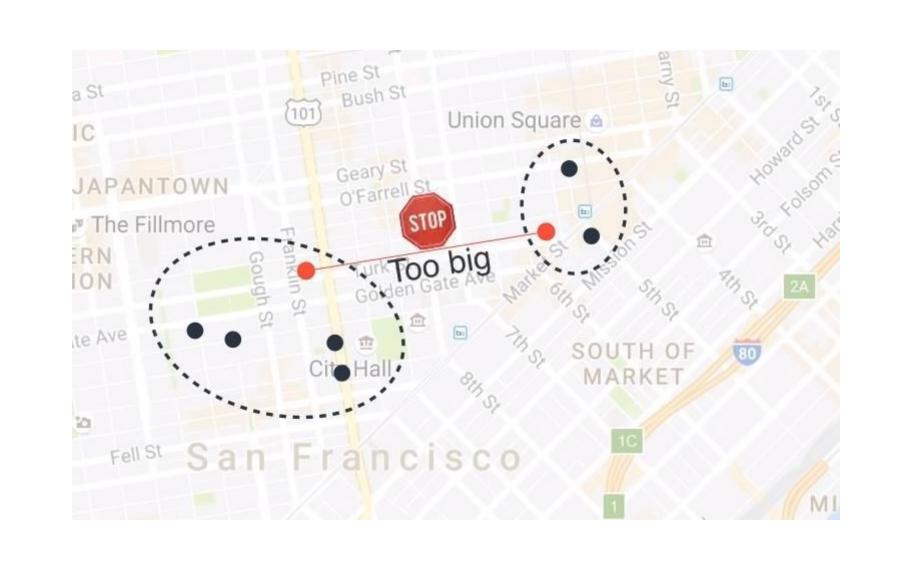






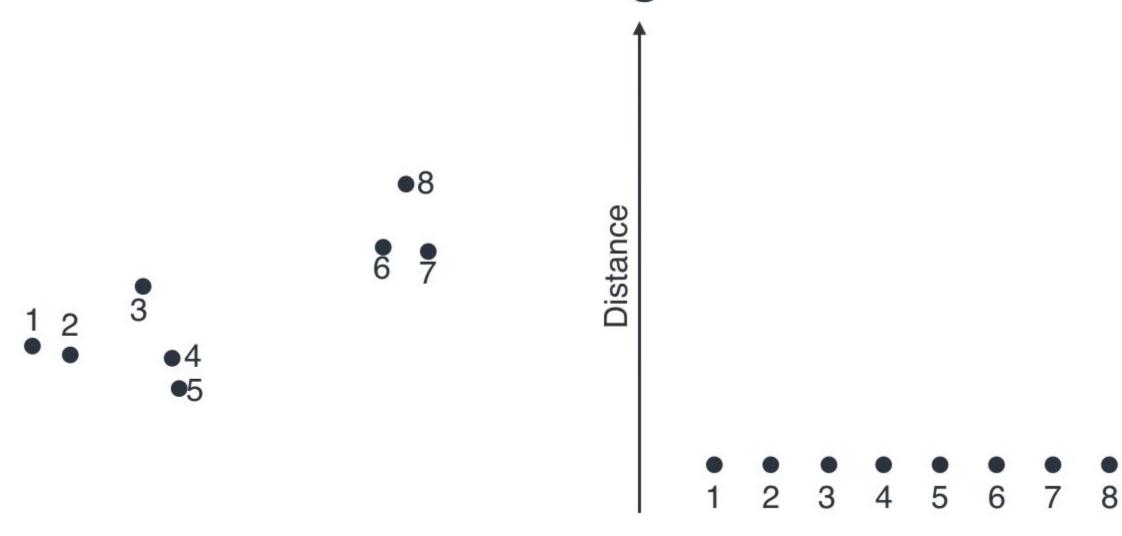


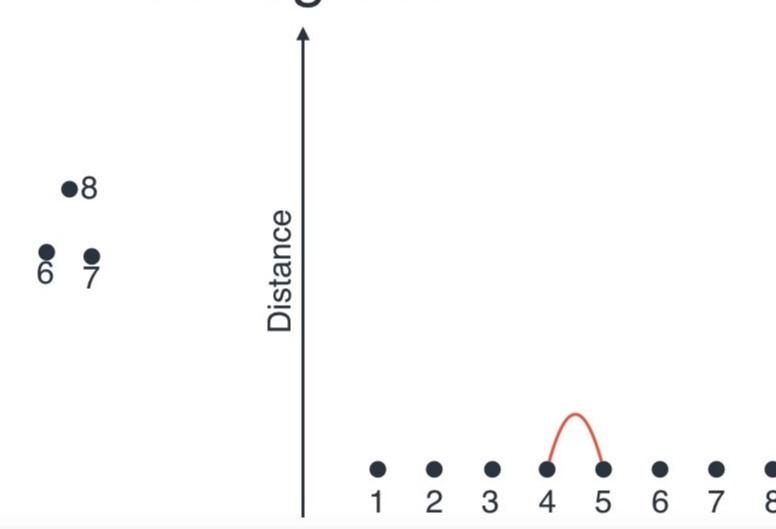


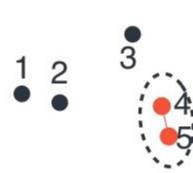


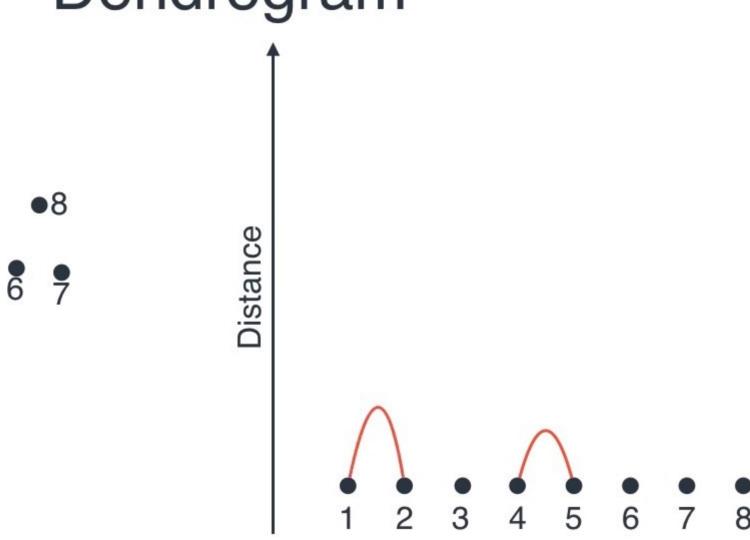


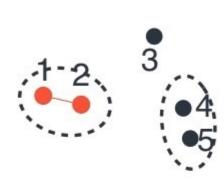
How to make a decision on number of clusters for Hierarchical clustering?

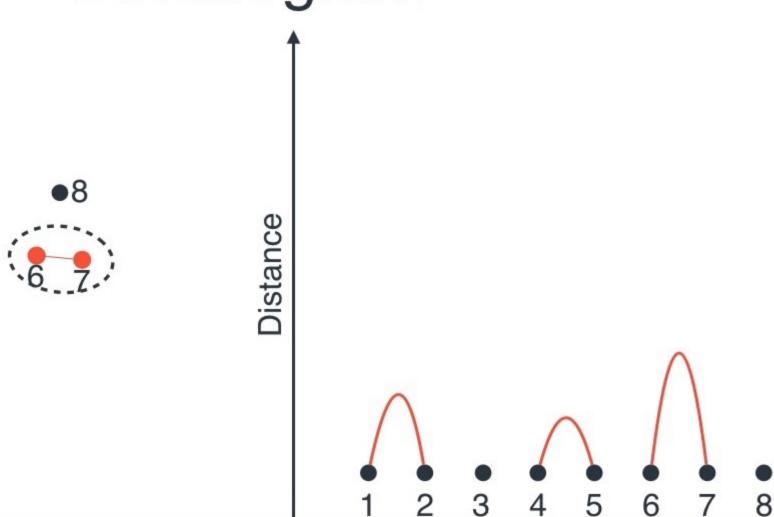


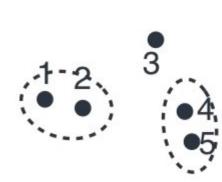


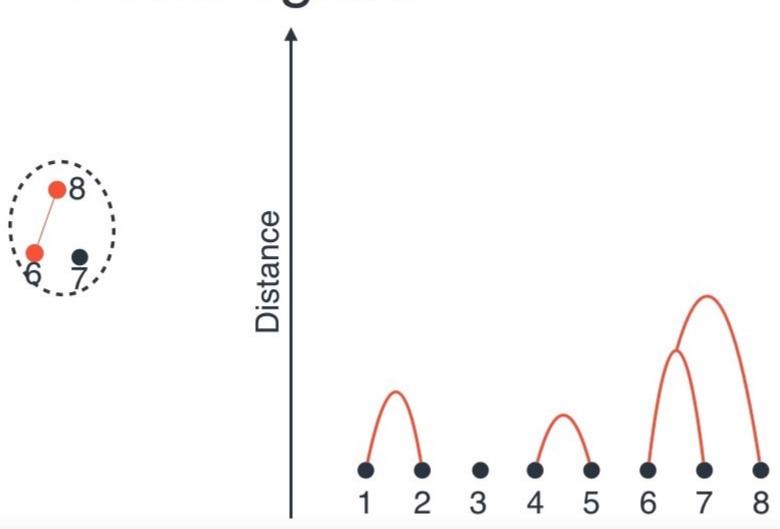


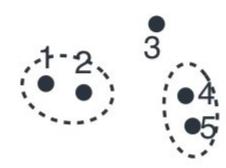


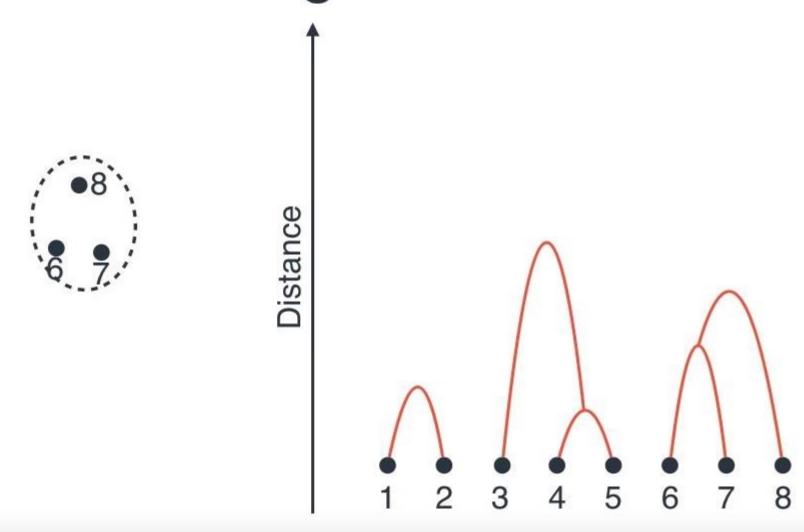


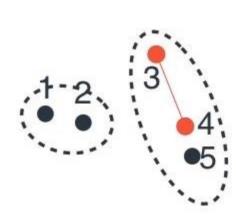


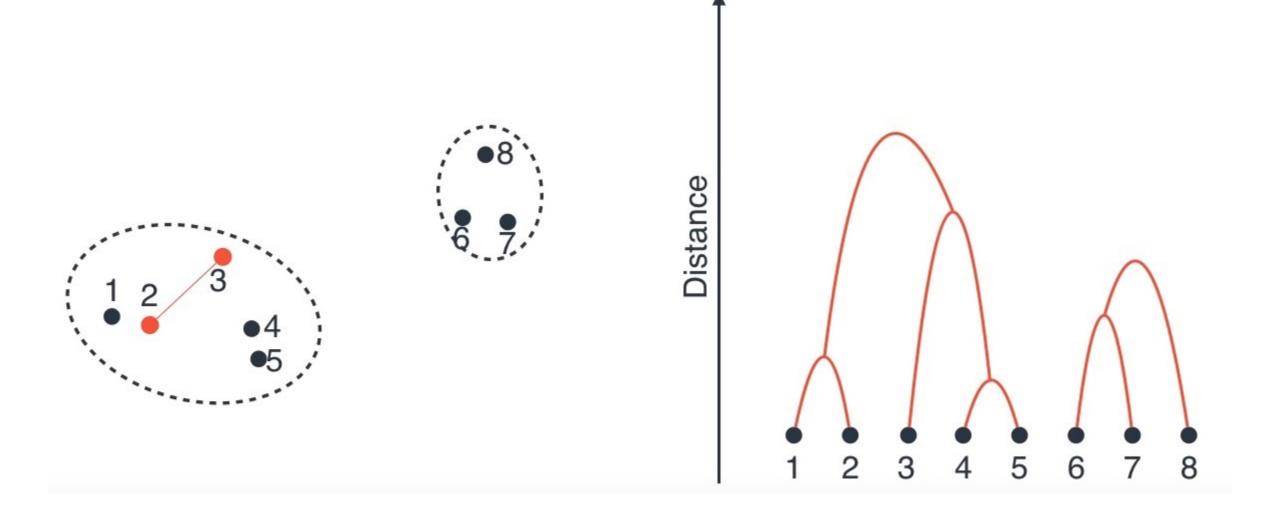


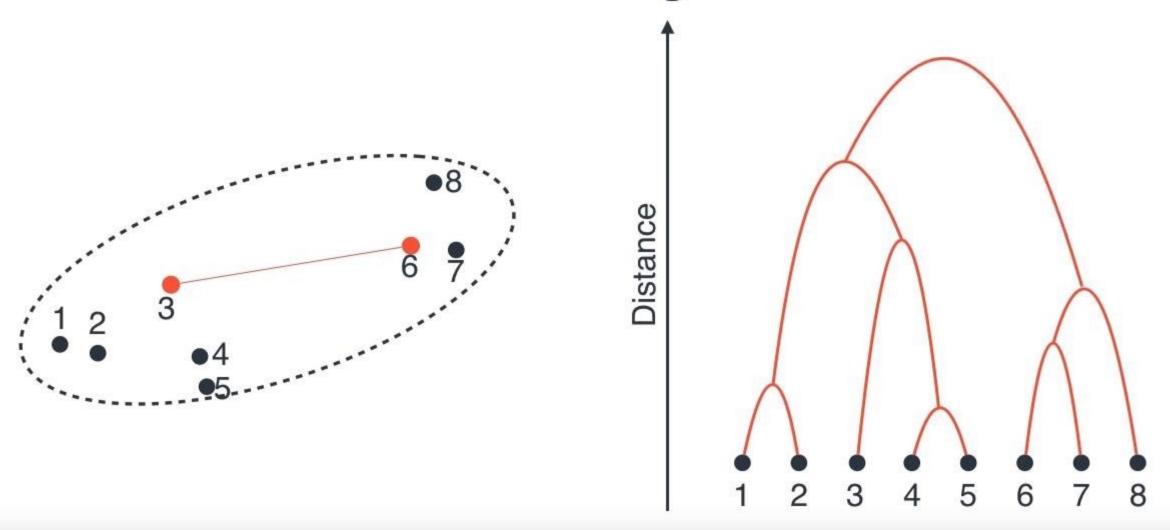


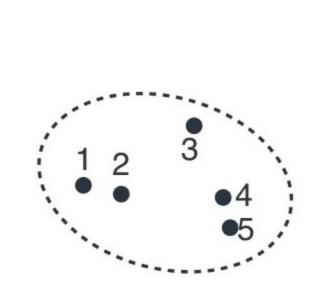




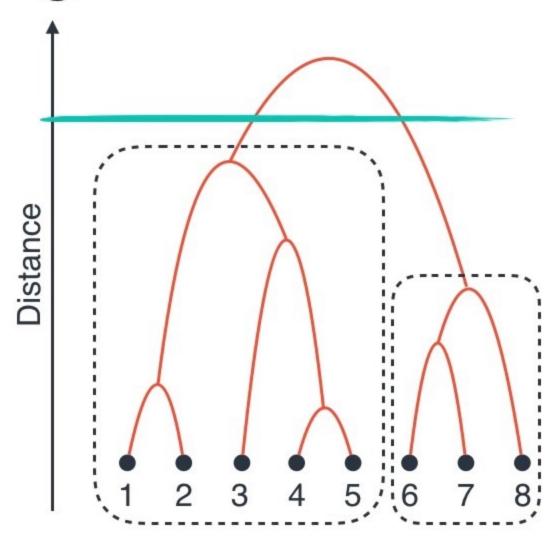


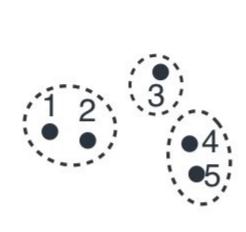




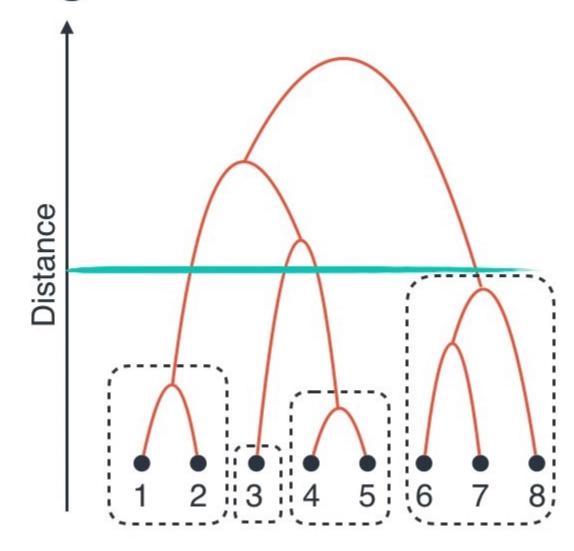












Credits:

The explanation is taken from Luis Serrano on Clustering