Recap 5 Dimensionality Reduction & Clustering ISLR 12, ESL 14, tSNE

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Lecture Recap 2

- K-Means
 - Clustering: group similar points into *clusters*
 - K-means: find clusters defined through a centroid and assign closest points to it
 - Efficient algorithm with convergence to local optimum

K-Means







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K-Means

- Clustering: group similar points into *clusters*
- K-means: find clusters defined through a centroid and assign closest points to it
- Efficient algorithm with convergence to local optimum
- Hierarchical Clustering
 - Iteratively merge closest clusters bottom-up/top-down
 - Dendogram shows hierarchy of clusters
 - Different linkage (single, complete) results in vastly different results

Hierarchical Clustering

Average Linkage





