K-Means Clustering

Cluster Analysis

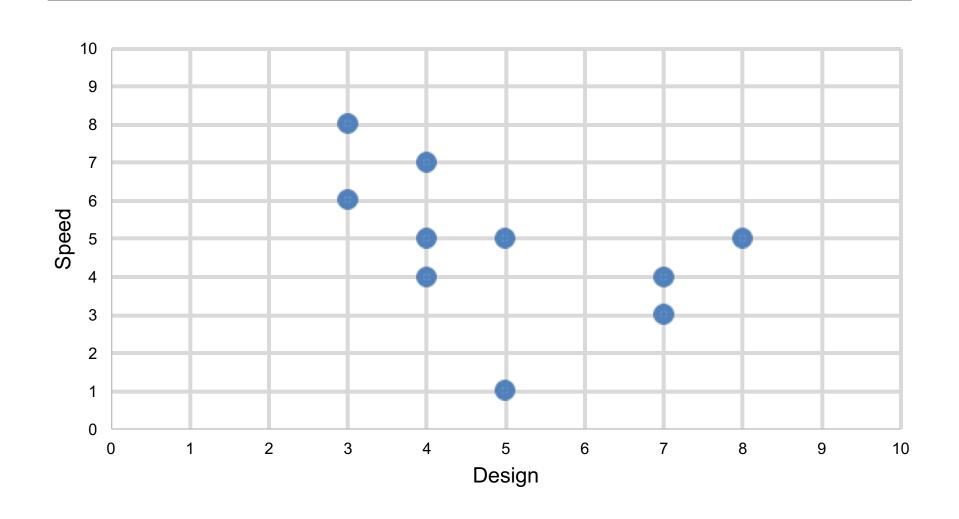
- Deriving Clusters and Assessing Overall Fit
 - Decide on clustering algorithm
 - Many algorithms are available
 - More coming all the time
- Main goal: maximize differences between clusters relative to variation within clusters

Customer Preferences

| Customer | Design | Speed |
|----------|--------|-------|
| 1 | 5 | 1 |
| 2 | 7 | 3 |
| 3 | 4 | 4 |
| 4 | 7 | 4 |
| 5 | 4 | 5 |
| 6 | 5 | 5 |
| 7 | 8 | 5 |
| 8 | 3 | 6 |
| 9 | 4 | 7 |
| 10 | 3 | 8 |

Preference on a 10-point scale, 10 most preferred and 1 least preferred for design and speed of a laptop

Customer Preferences



Nonhierarchical Clustering

K-Means Clustering

