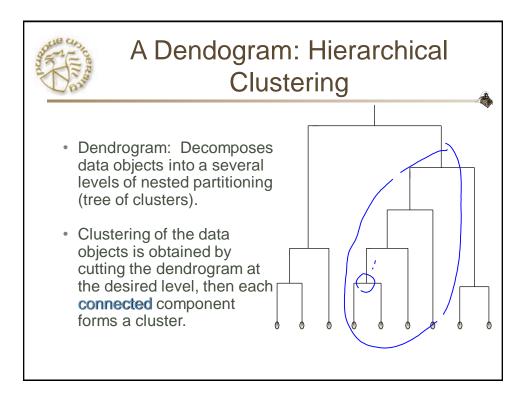
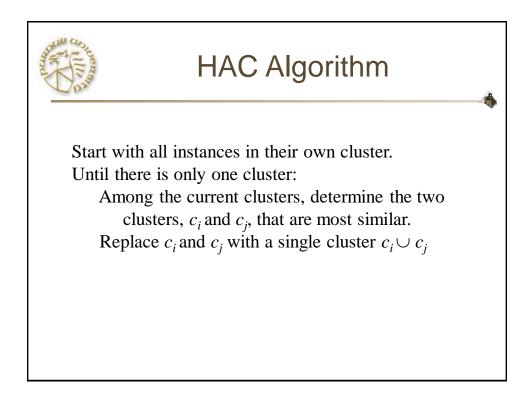
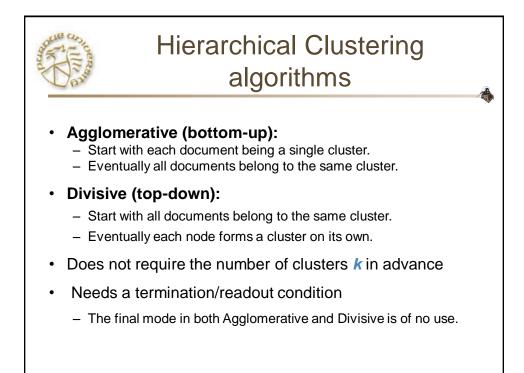


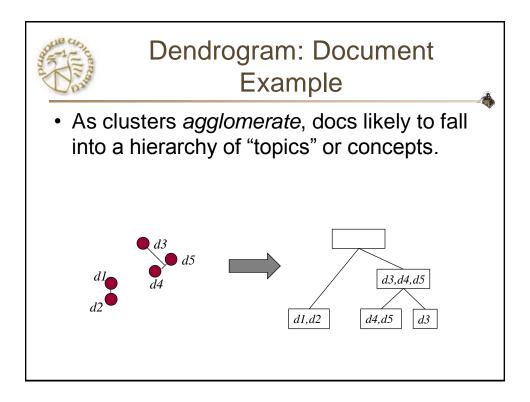
## Hierarchical Agglomerative Clustering (HAC)

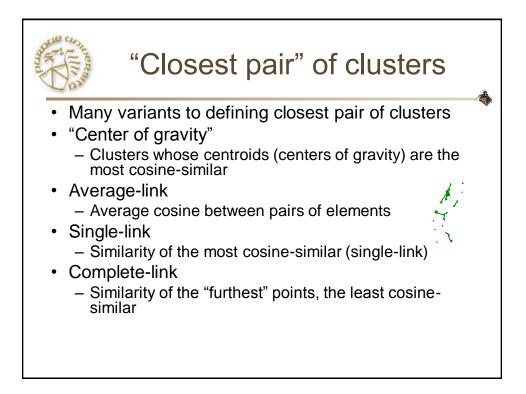
- Assumes a similarity function for determining the similarity of two instances.
- Starts with all instances in a separate cluster and then repeatedly joins the two clusters that are most similar until there is only one cluster.
- The history of merging forms a binary tree or hierarchy.

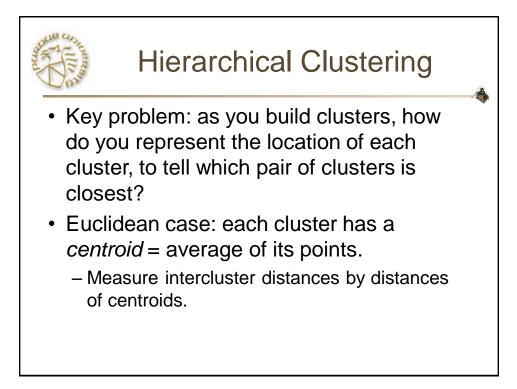


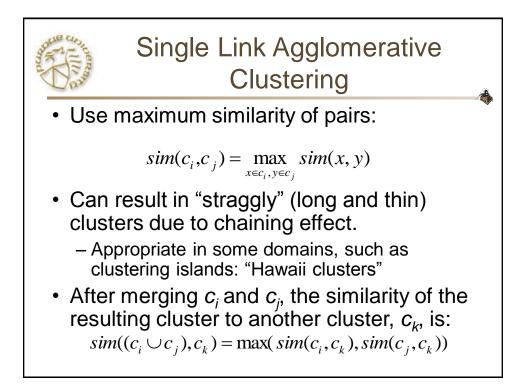


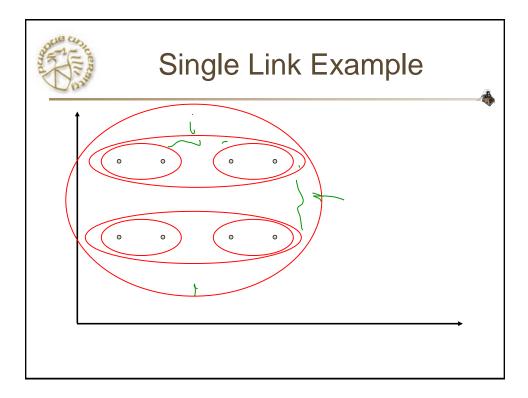


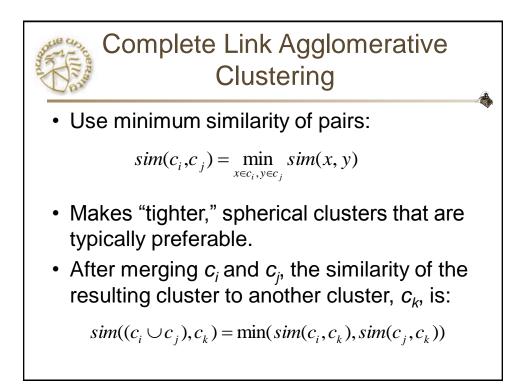


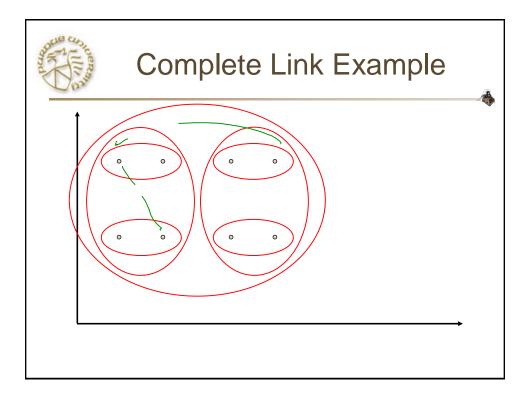


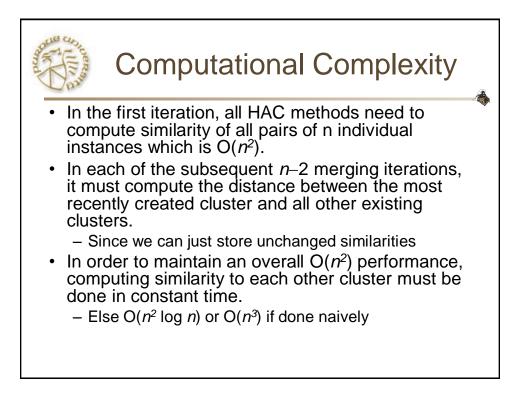


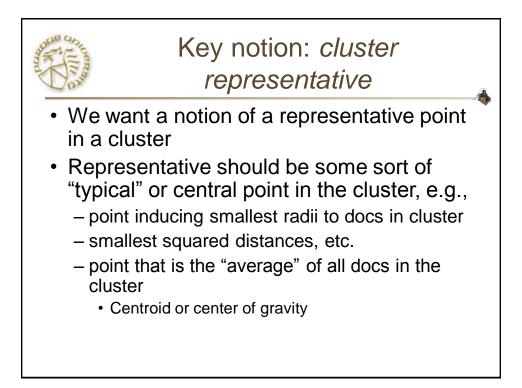


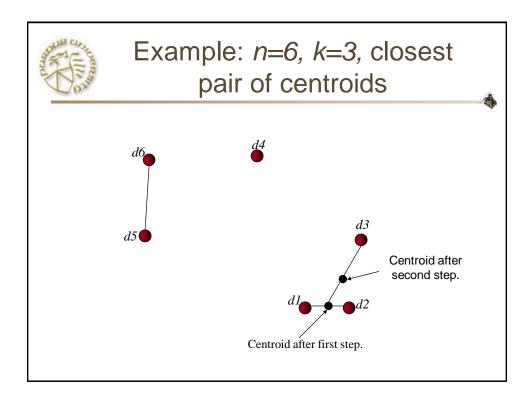


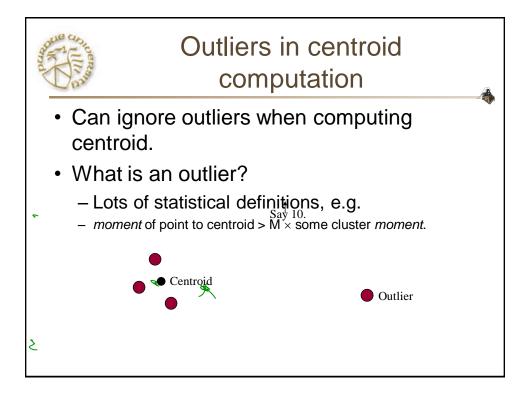


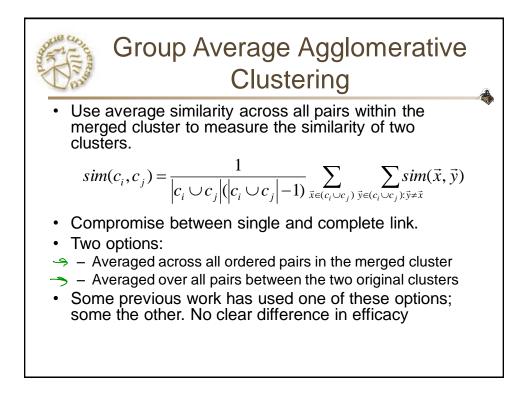


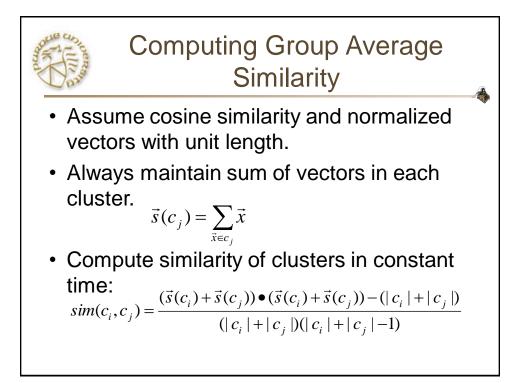


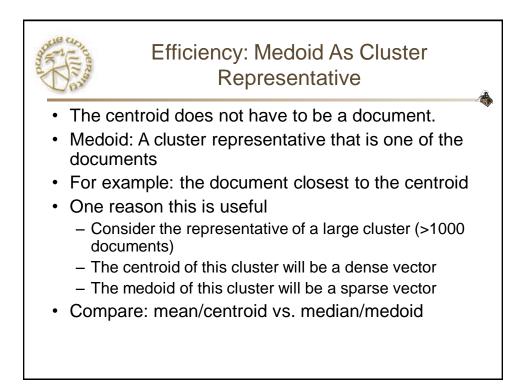


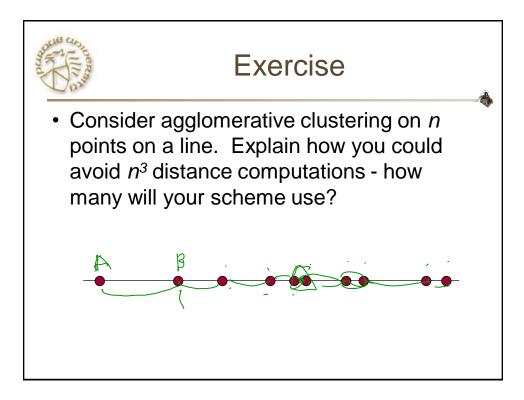


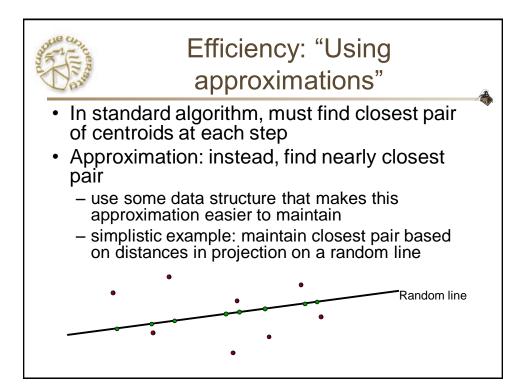


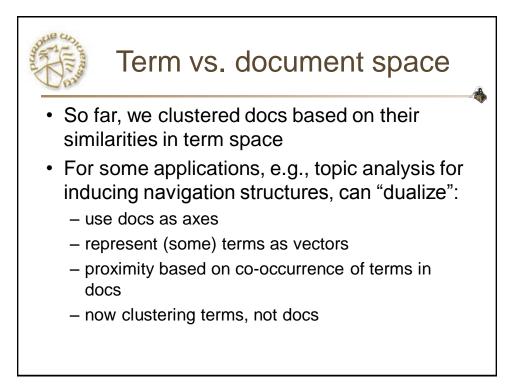


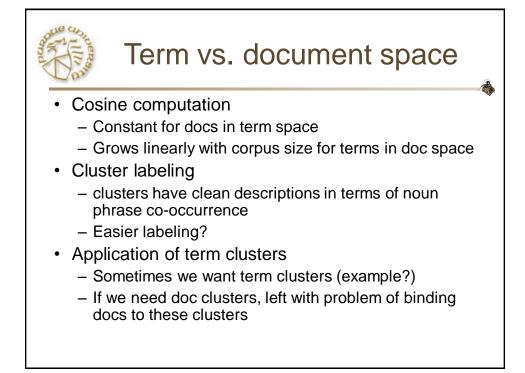


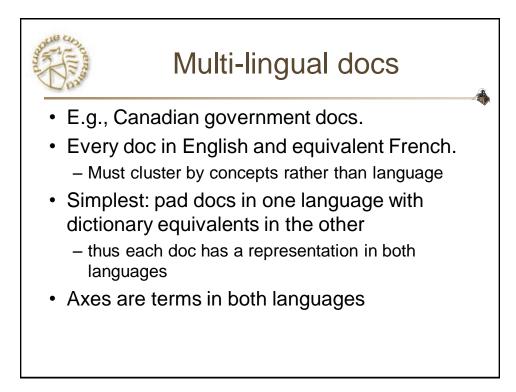


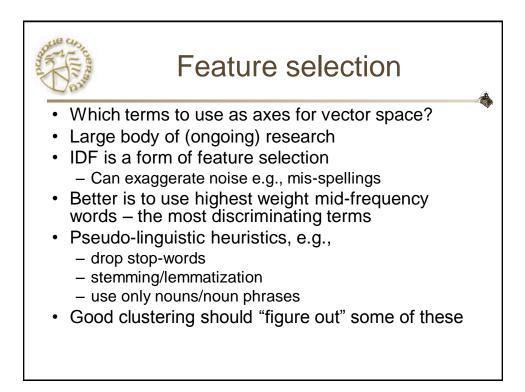


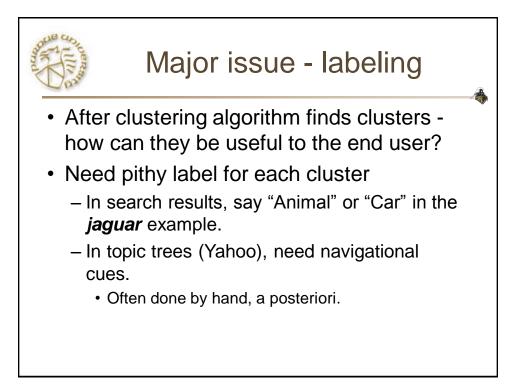


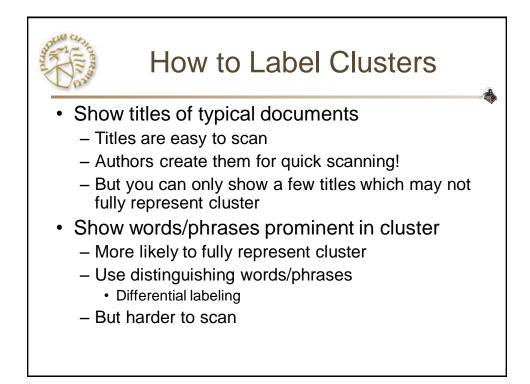


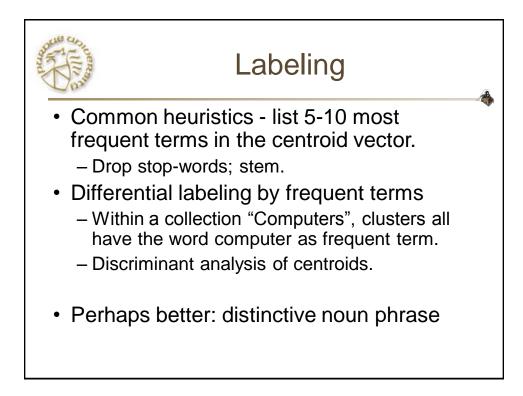


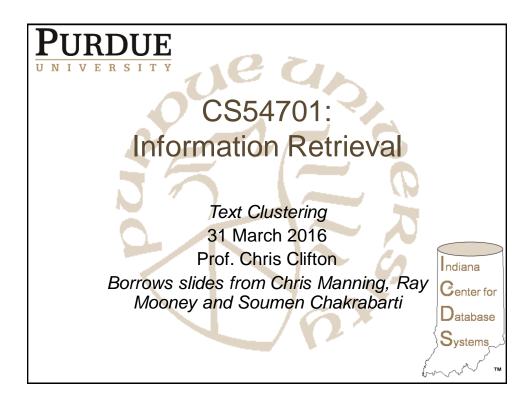


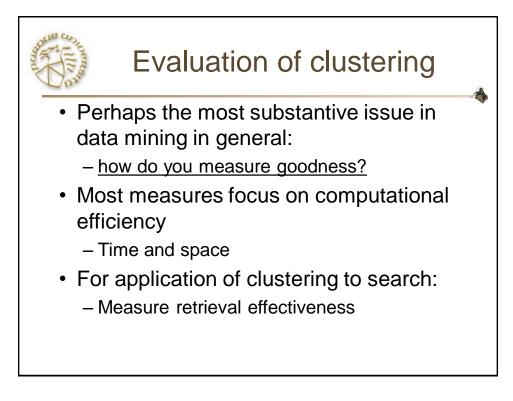


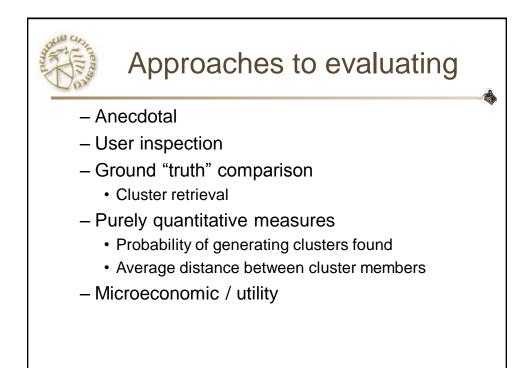


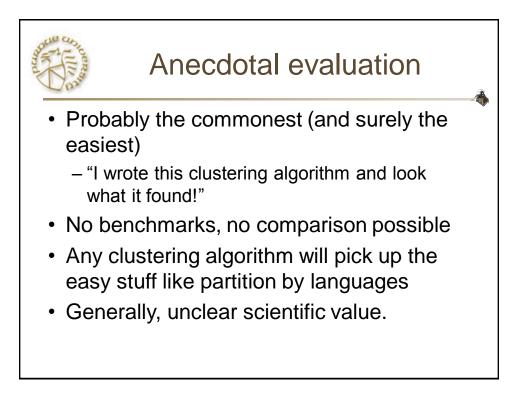


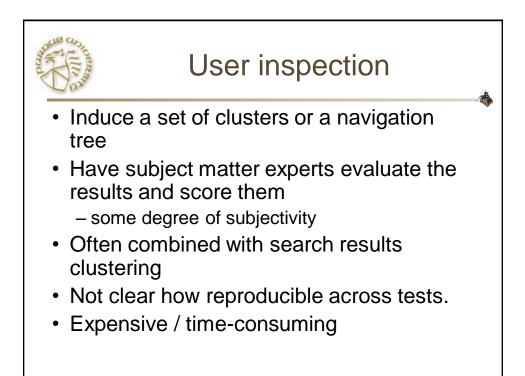


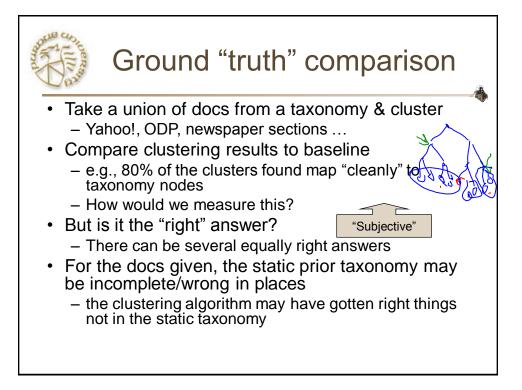


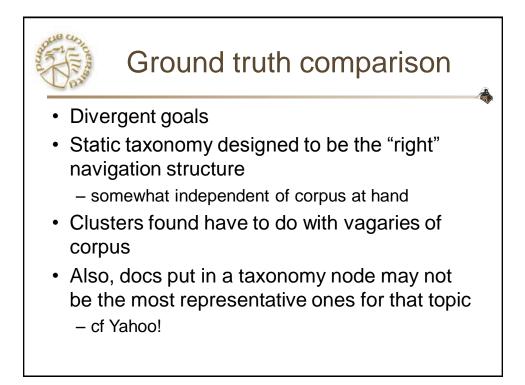


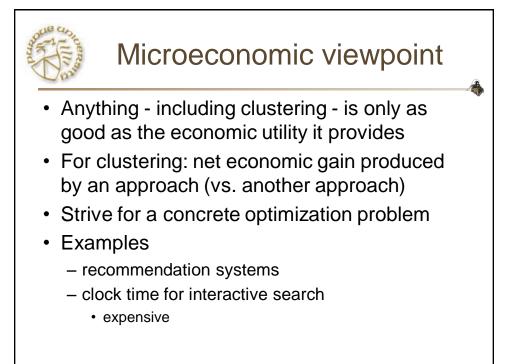


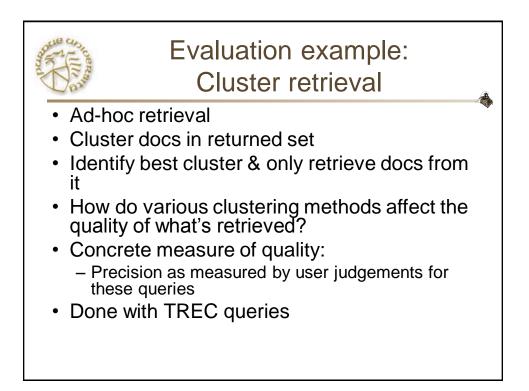


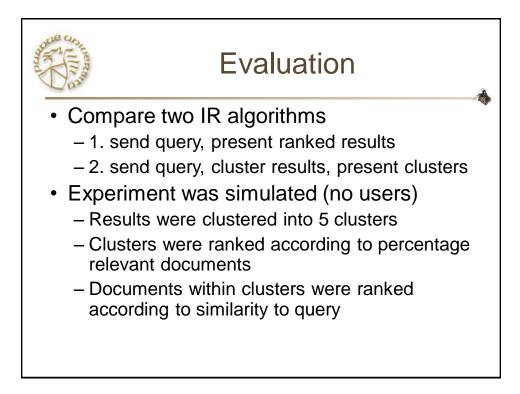












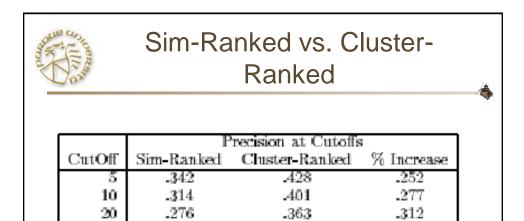


Table 4: Precision at small document cutoff levels for the one-step algorithm.

