

HW Chap. 7

Clustering

1. Identify a bias found in typical distance-based k -Means clustering.
 - Hint: think about geometry
2. What are some desirable properties of a distance measure?
3. The following table gives the Euclidean distance between each pair of six data objects. Give the dendrogram that results from doing a *single-linkage* hierarchical clustering of the six objects.

	A	B	C	D	E	F
A	0					
B	4.2	0				
C	5.9	7.6	0			
D	1.2	7.0	10.3	0		
E	6.1	2.6	5.4	7.8	0	
F	1.3	3.6	4.5	3.2	8.2	0