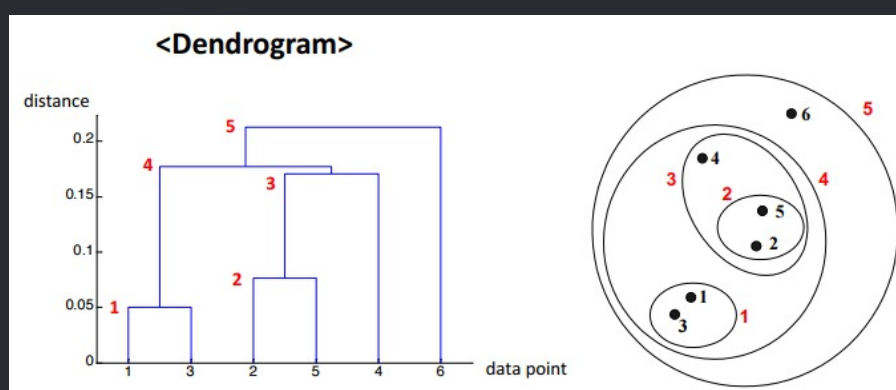
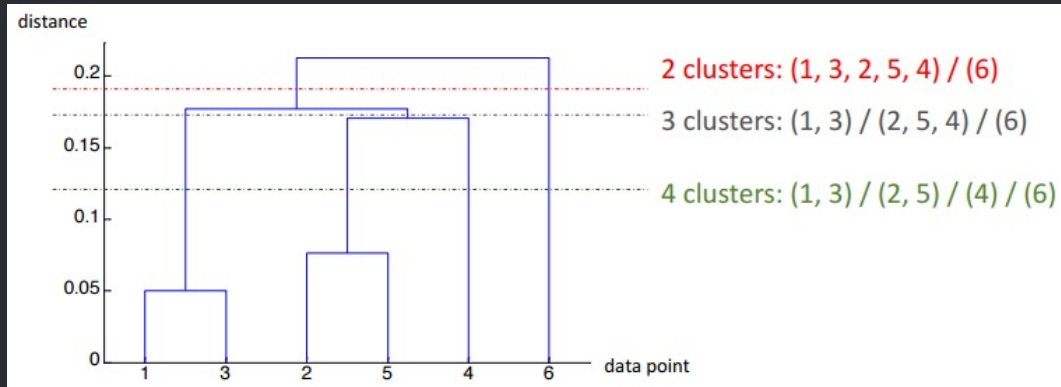


# Hierarchical clustering

1



2



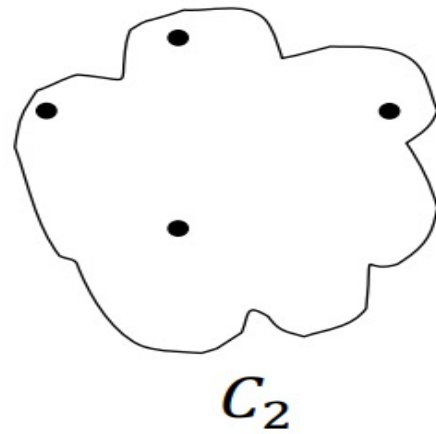
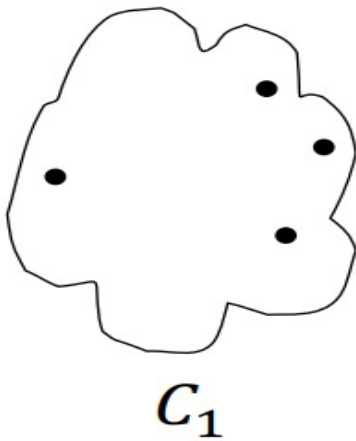
3

유사도

4

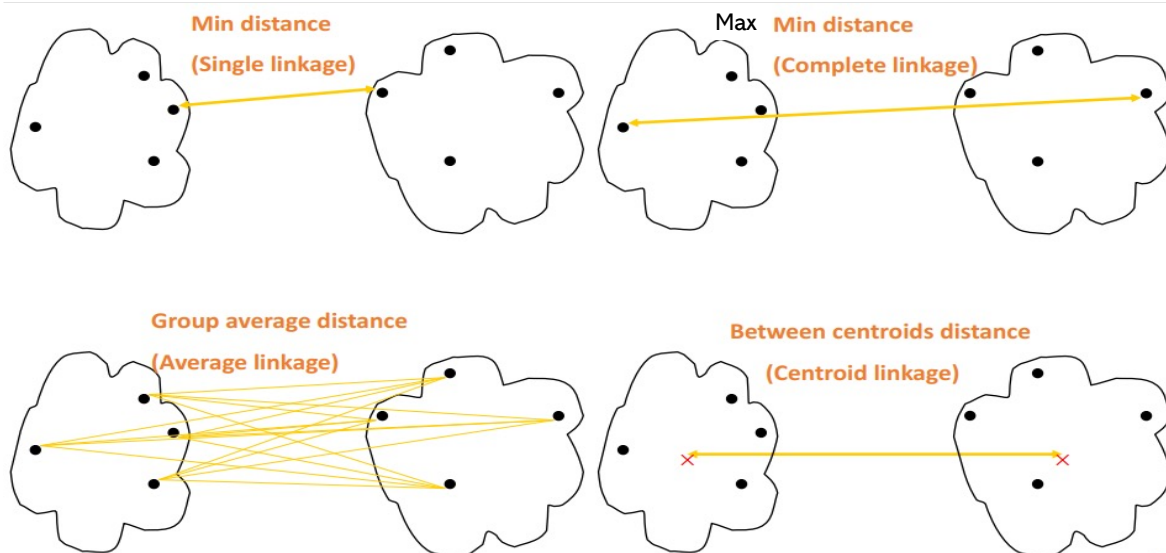
## 유사도

$$d(C_1, C_2) = ?$$

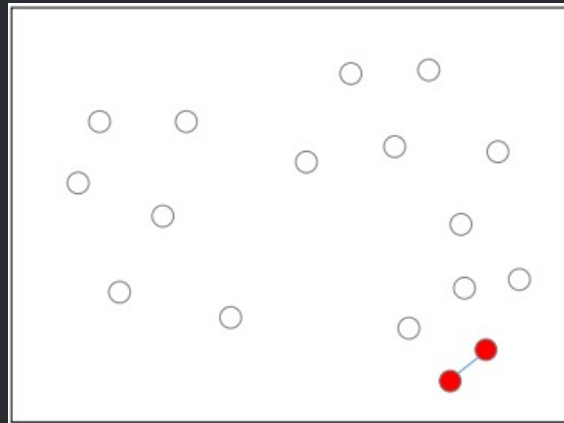


5

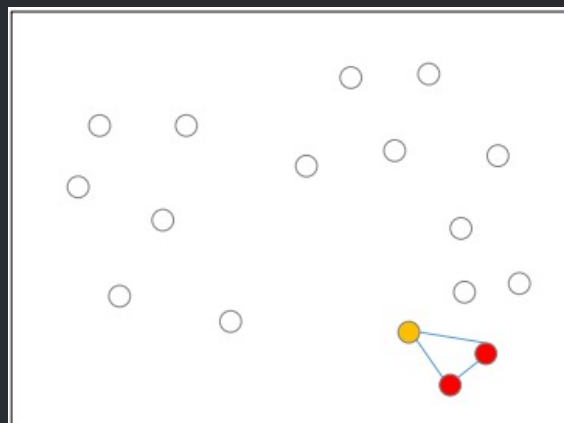
## 유사도



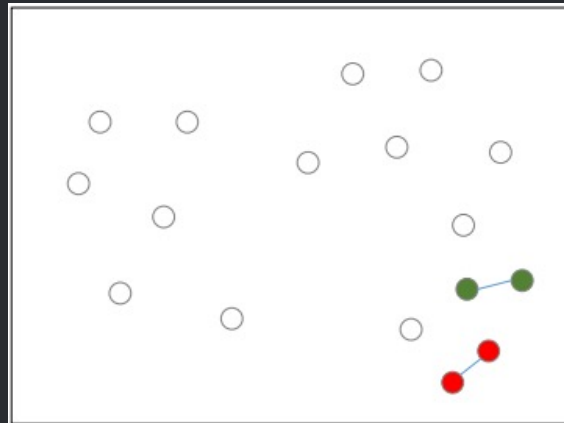
6



8

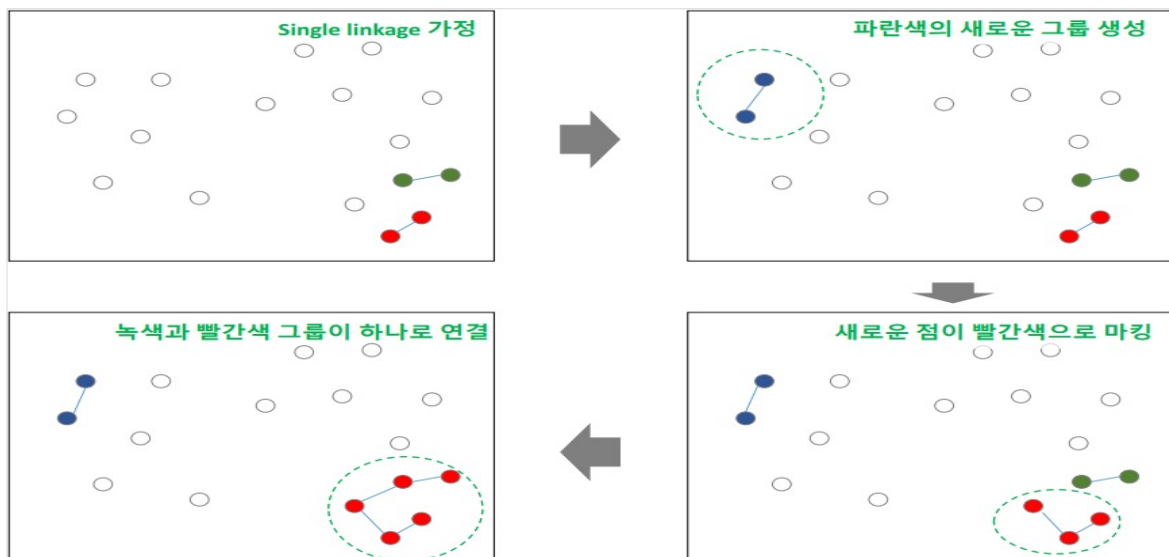


9



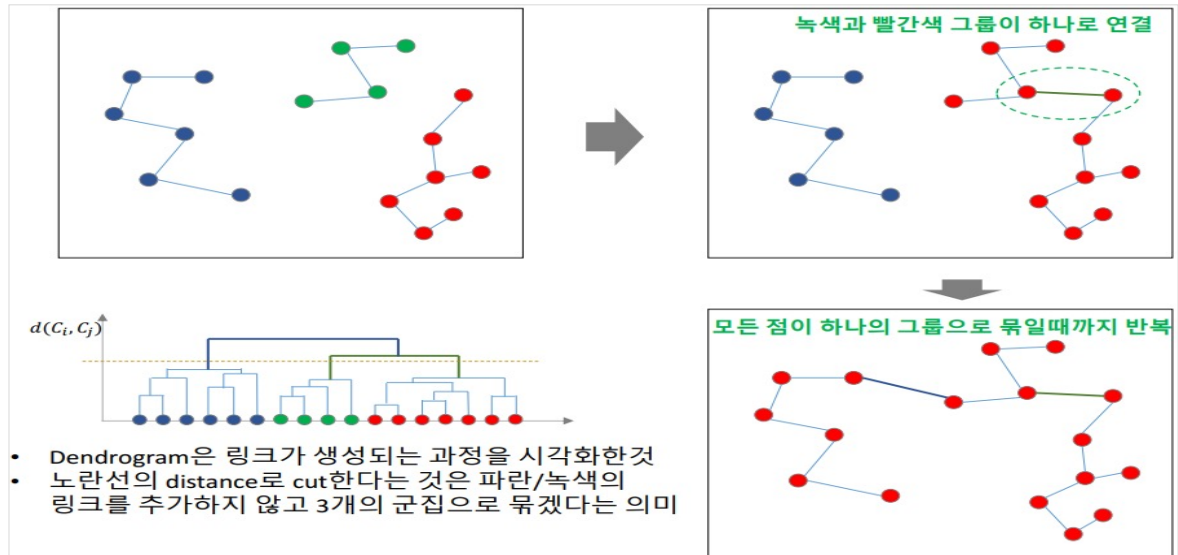
10

## HIERARCHICAL CLUSTERING



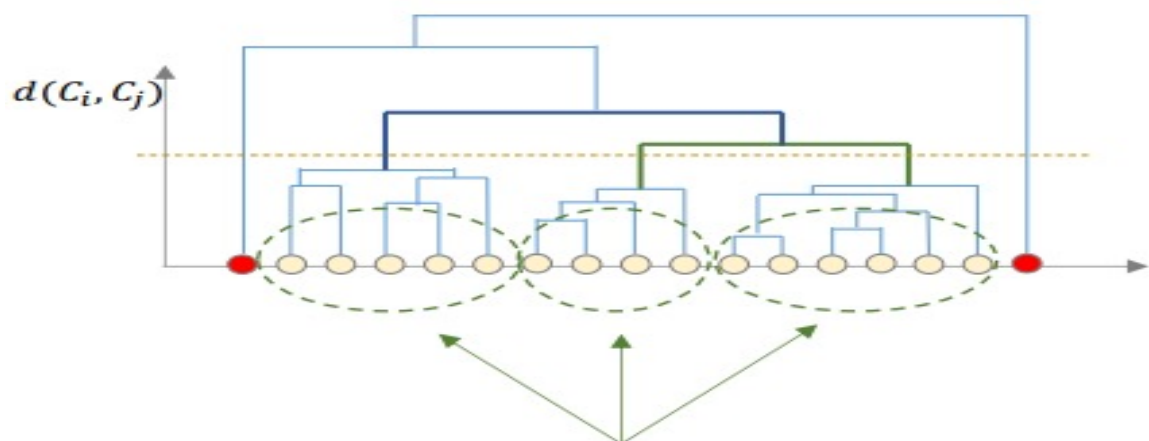
11

## HIERARCHICAL CLUSTERING



12

## HIERARCHICAL CLUSTERING



다른 점들은 큰 3개의 그룹으로 묶이지만,  
 붉은색 점들은 마지막에 큰 군집으로 묶임

13

Hierarchical clustering	
장점	군집 구조 정보가 매우 풍부
	군집화의 결과가 <b>stable</b> 하게 생성
	임의의 모양을 갖는 군집을 생성
단점	계산 복잡도가 높다. 메모리 확보 필요
이슈	Is it possible to cut dynamically a hierarchical cluster tree?