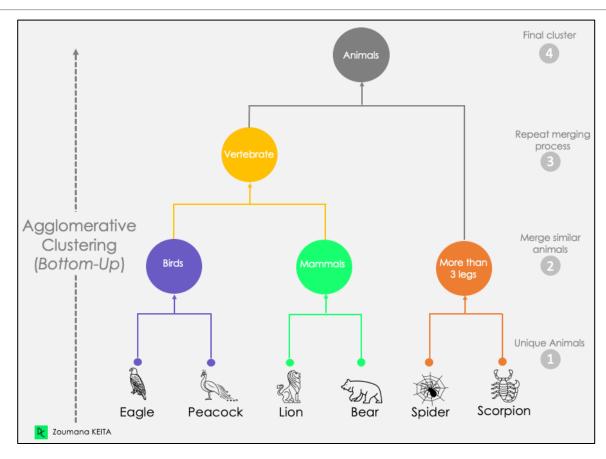
Hierarchical Clustering

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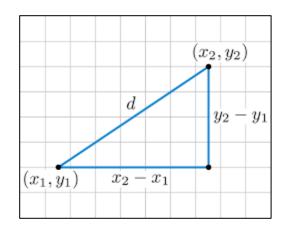
CLASS STARTS SHARP AT 8:05 PM

Hierarchical Clustering Explained

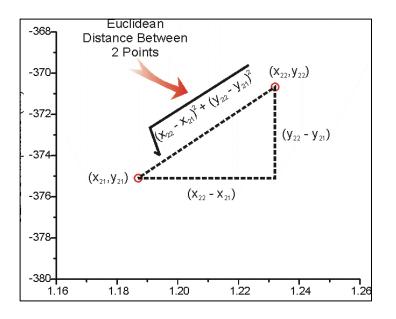


Divisive

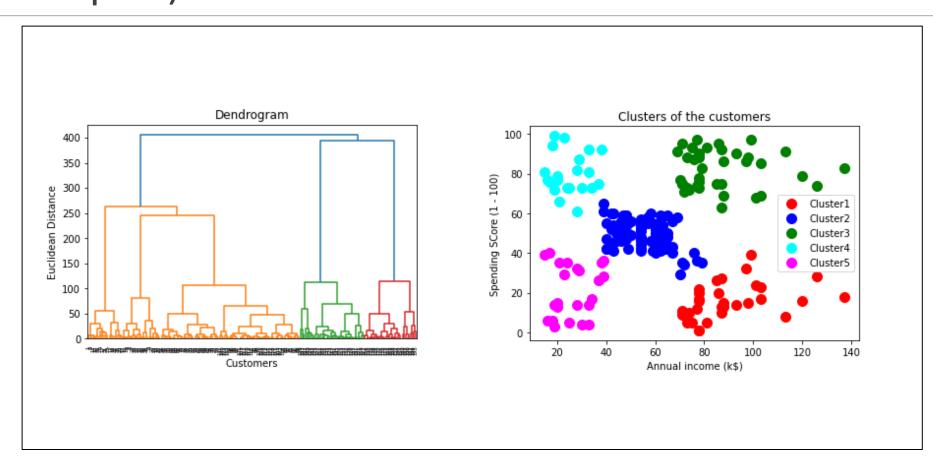
Euclidian Distance



$$\sqrt{(x_2-x_1)^2+(y_2-y_1)^2}$$

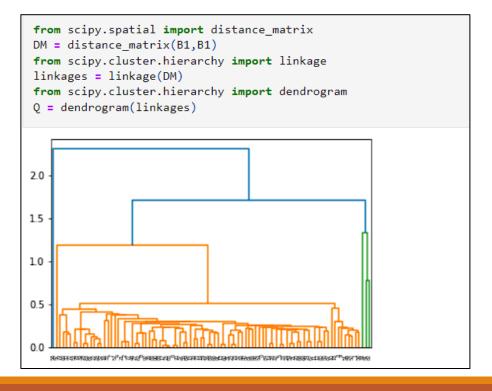


Hierarchical clustering (Customer Mall example)

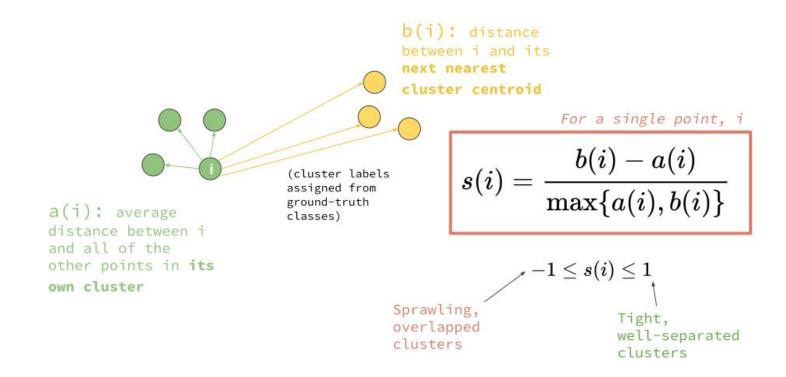


Agglomerative Clustering code

```
from sklearn.cluster import AgglomerativeClustering
agc = AgglomerativeClustering(n_clusters=7)
model = agc.fit(B1)
```



Silhoutte score calculation



Thank you

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