

## **Related Questions**

How can I choose the best K in KNN (K nearest neighbour) classification?

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How is the k-nearest neighbor algorithm different from k-means clustering?

What is a good way to choose initial points of k clusters in k-means clustering?

What are the advantages of K-Means clustering?

What is the k-Means algorithm and how does it work?

What are the proper settings for document clustering with K-means?

How can I choose the optimal number of clusters in K-mode clustering?

How do you interpret k-means clustering results?

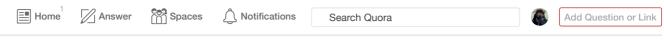
Why initial seed selection is important in K-means Clustering? Seed selection algorithm like-SPSS

What is the difference between k-means and hierarchical clustering?

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A quick (and rough) method is to take the **square root of the number of data points divided by two,** and set that as the number of clusters. The elbow



For example, if I was trying to separate a population into 3 shirt sizes, I would be optimizing for the best location of the 3 clusters, rather than optimizing for the number of clusters that best segment the data.



From: Determining the number of clusters in a data set

Paper on using a kernel matrix to find the optimal number of clu... (more)



You may use **G-means** (Gaussian-means algorithm). It discovers the number of clusters automatically using a statistical test to decide whether to split a k-means center into two. This algorithm takes a hierarchical approach to detect the number of clusters, based on a statistical test for the hypothesis that a subset of data follows a Gaussian distribution (continuous function which approximates the exact binomial distribution of events), and if not it splits the cluster. It starts with a small number of centers, say one cluster only (k=1), then the algorithm splits it into two centers (k=2) ... (more)



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