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... K-means clustering can be used to classify

observations into k groups, based on their similarity.

Each group is represented by the mean value of points

in the group, known as the cluster centroid. K-means

algorithm requires users to specify the number of

cluster to generate. K-Means Clustering in R: Algorithm

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method of vector quantization, originally from signal

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cluster with the nearest mean (cluster centers or

cluster centroid), serving as a prototype of the

cluster. k-means clustering - Wikipedia This book

addresses these challenges and makes novel

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$$Gap_k = \sum_{j=1}^p w_j \left(\frac{1}{A} \sum_{a=1}^A \log \left(\sum_{j=1}^k W_{aj} \right) - \log \left(W_j^k \right) \right)$$

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