

H20 K-Means Clustering

```
h2o.kmeans(training frame, x, model id = NULL, validation frame = NULL,
           nfolds = 0, keep cross validation predictions = FALSE,
           keep cross validation fold assignment = FALSE,
           fold assignment = c("AUTO", "Random", "Modulo", "Stratified"),
           fold column = NULL, ignore const cols = TRUE,
           score each iteration = FALSE, k = 1, estimate k = FALSE,
           user points = NULL, max iterations = 10, standardize = TRUE,
           seed = -1, init = c("Random", "PlusPlus", "Furthest", "User"),
           max runtime secs = 0, categorical encoding = c("AUTO", "Enum",
           "OneHotInternal", "OneHotExplicit", "Binary", "Eigen",
           "LabelEncoder", "SortByResponse", "EnumLimited"))
from h2o.estimators.kmeans import H2OKMeansEstimator
clusters = H2OKMeansEstimator(...)
clusters.train(x = x, training frame = data)
```









Principal Components Analysis

- Orthogonal rotation of covariance or correlation matrix that orders derived measures from highest to lowest variation
- Useful for dimensionality reduction / removing collinearities





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```
clusters = H2OKMeansEstimator(...)
clusters.train(x = x, training_frame = data)
```



