



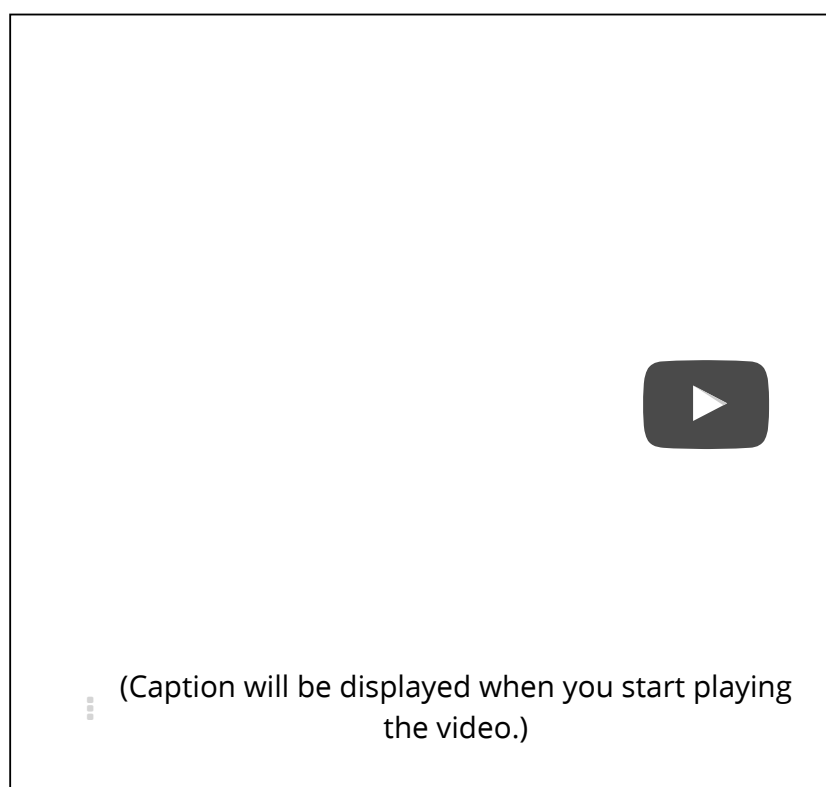
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Video

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SciKit-Learn and K-Means

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Let's take a peek at how to use KMeans for clustering with scikit-learn. KMeans is a class in scikit-learn's clustering module. So you'll have to import that in order to use it, of course. And there are many other different clustering classes or techniques that scikit-learn also supports as well. We'll take a look at some of

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It's very simple to get up and running with K-Means in SKLearn. Given a dataframe `df`, you can compute its labels and centroids as follows:

```
>>> from sklearn.cluster import KMeans
>>> kmeans = KMeans(n_clusters=5)
>>> kmeans.fit(df)
KMeans(copy_x=True, init='k-means++', max_iter=300, n_clusters=5, n_init=10,
       n_jobs=1, precompute_distances='auto', random_state=None, tol=0.0001,
       verbose=0)

>>> labels = kmeans.predict(df)
>>> centroids = kmeans.cluster_centers_
```

The most important factor for you to focus on being `n_clusters`, the "K" number of clusters you want K-Means to place for you. Also experiment with different initialization methods, including rolling your own and in the positions as an NDAarray shaped as `[n_clusters, n_features]`. We've include more details for you on that in the dive deeper section.

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