CLUSTERING - Activity 2 of 2

Use k-means clustering to form 3 clusters from the NPs that captured the Hist1 region.

Before the next class (Tuesday) implement the following steps of k-means clustering and perform the steps on the NPs that captured the Hist1 region.

1-Randomly select k=3 distinct data points. These are the initial clusters.

2-Measure the distance between each point and each of the ‘k’ clusters.

3-Assign each point to the nearest cluster.

4-Calculate the mean of each cluster.

5-Repeat until the clusters no longer change.

6-Assess the quality of the clustering by adding up the variation within each cluster.

~~7-Pick the best value for ‘k’ by finding the “elbow” in the plot.~~

Do not perform step 7. Let k = 3.