Fall 2021 — Felix Muzny

k-means clustering

Due dates for this week: 12pm Friday — practicum 9

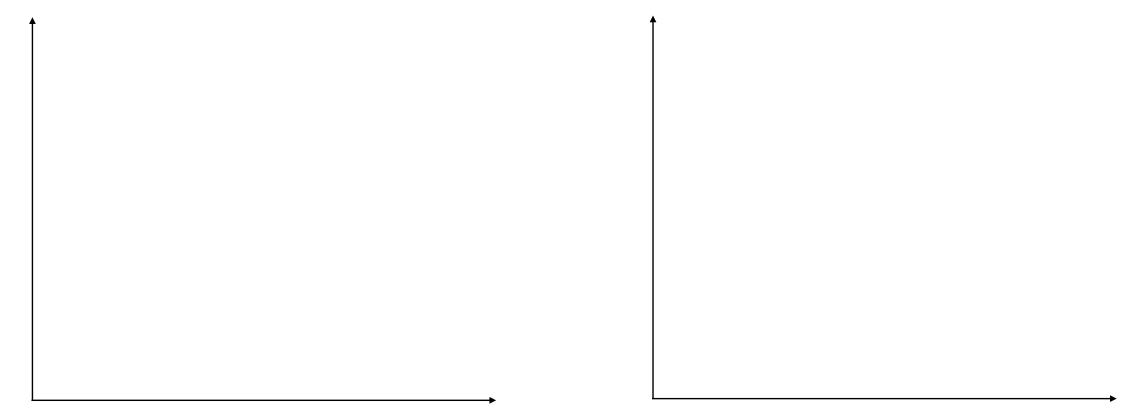
Next week:

Office hours/in-person help time for <u>all final projects</u> during regularly scheduled Wednesday sections.

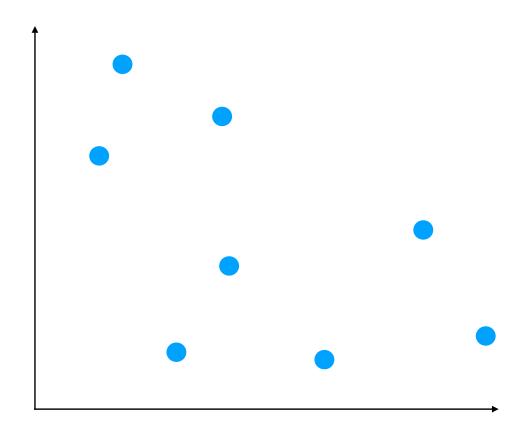
No class on 11/11 (during Thursday sections), it's Veteran's Day



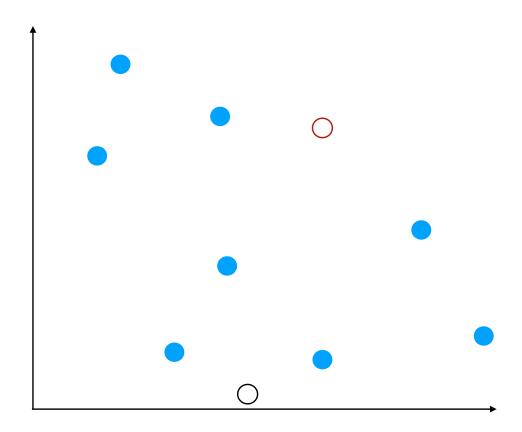




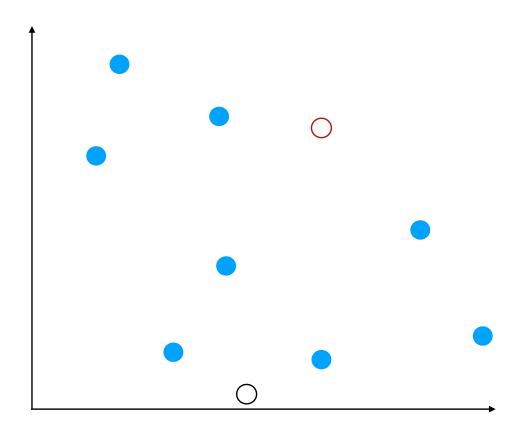
• Step 1: plot your data



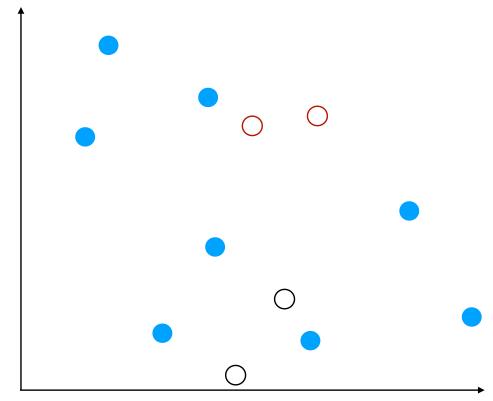
• Step 2: randomly initialize **k** means ("centroids")



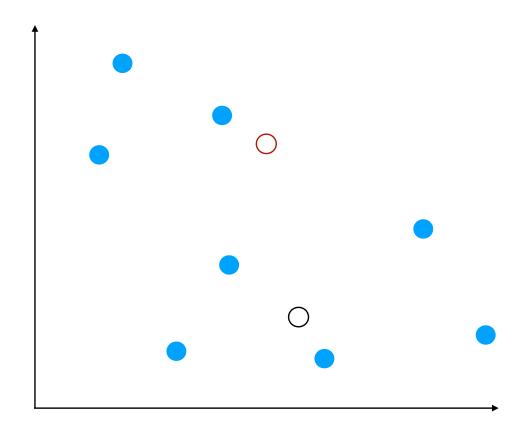
• Step 3: assign data points to closest centroid



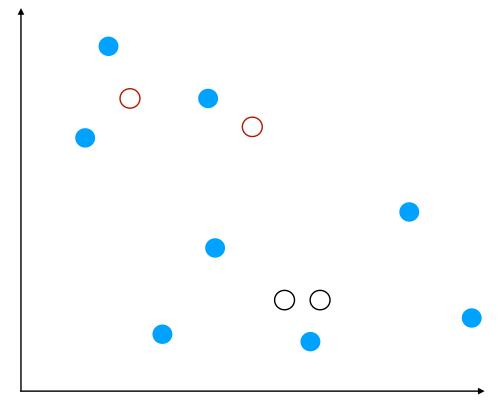
• Step 4: adjust the centroids to be the mean of the group of data that they "belong" to



• Step 3: assign data points to closest centroid



• Step 4: adjust the centroids to be the mean of the group of data that they "belong" to



 Terminate either after a pre-determined number of iterations or when centroids no longer move

