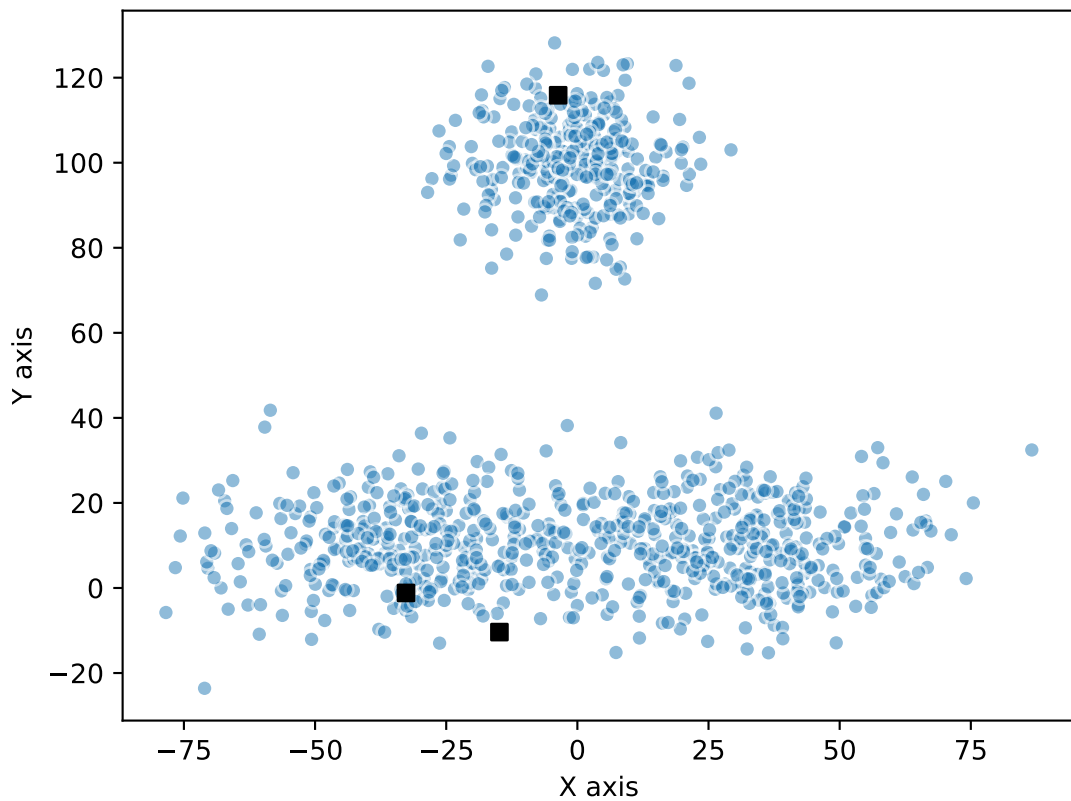
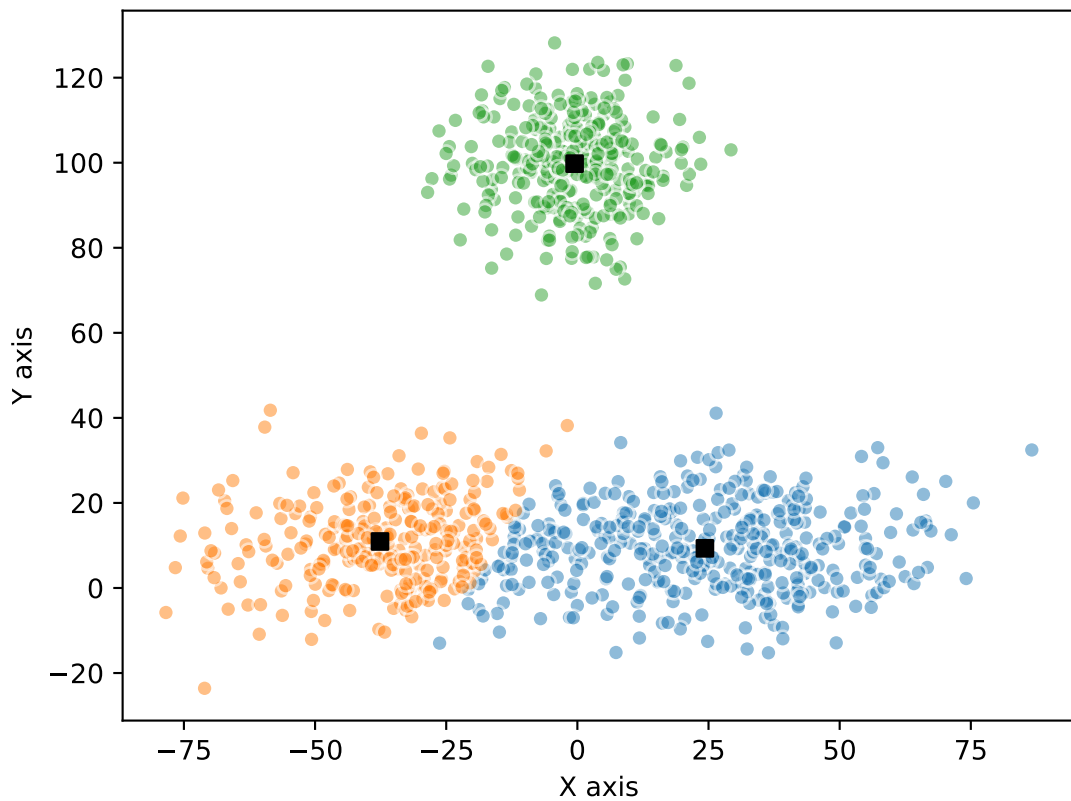


Running K-means for  $N = 1$

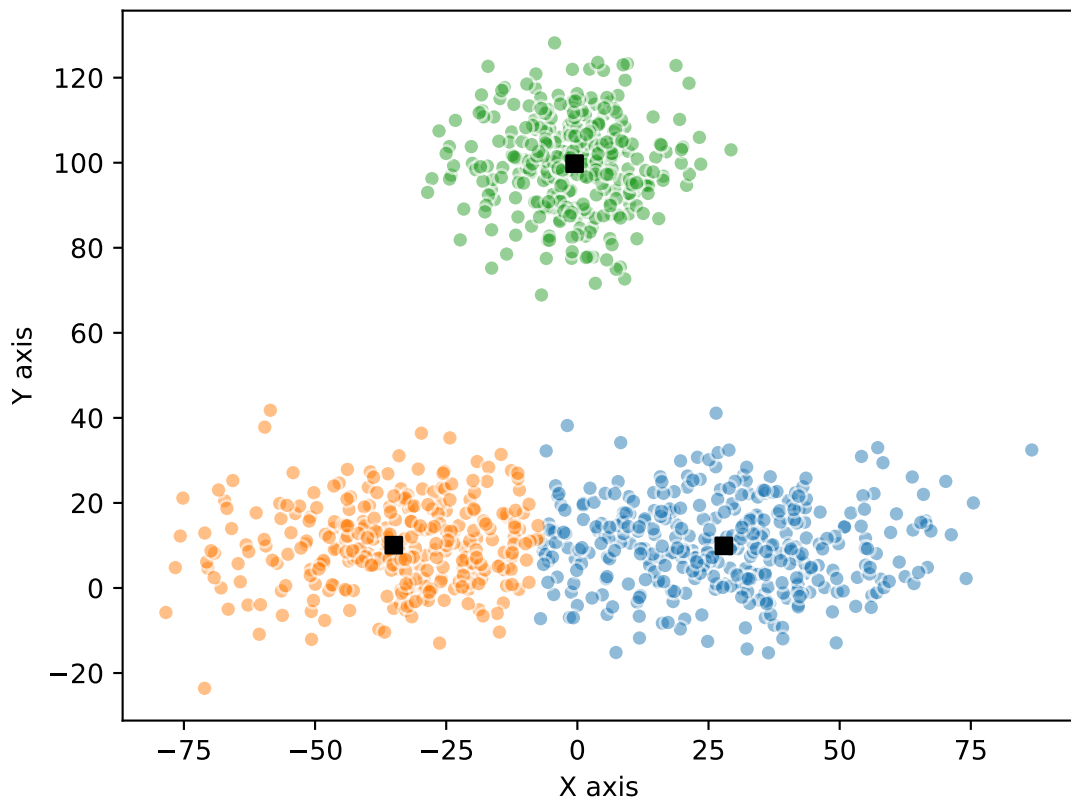
# Iteration 0



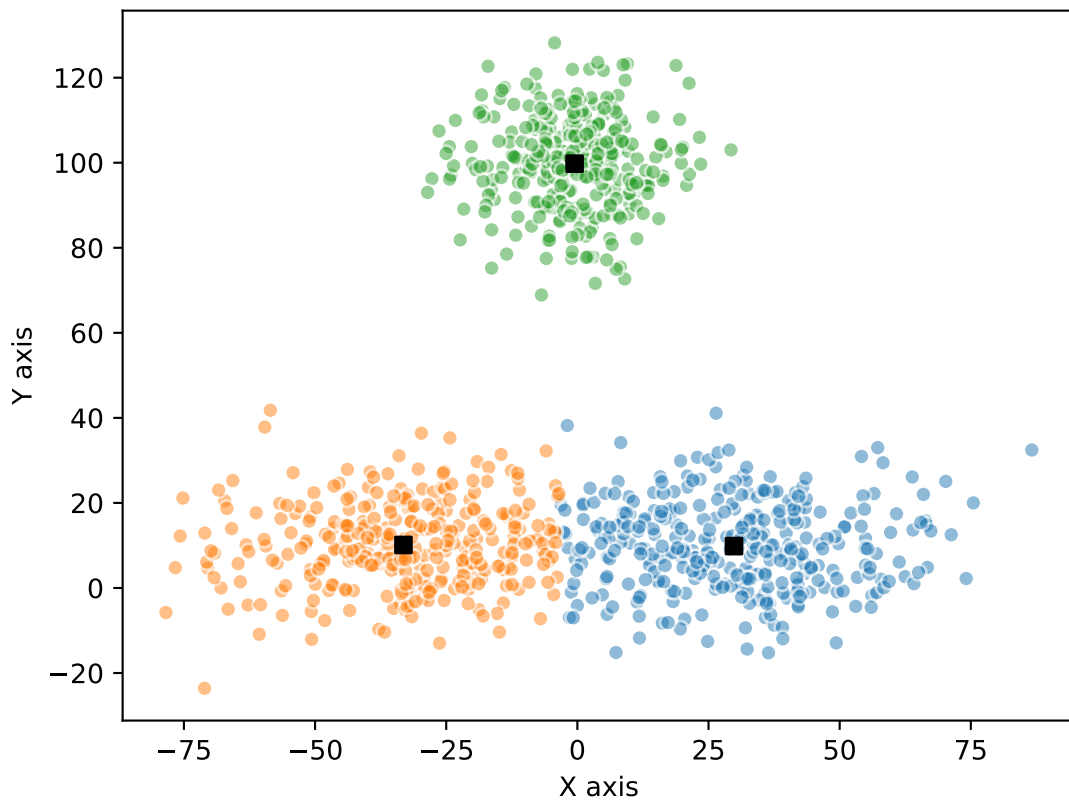
# Iteration 1



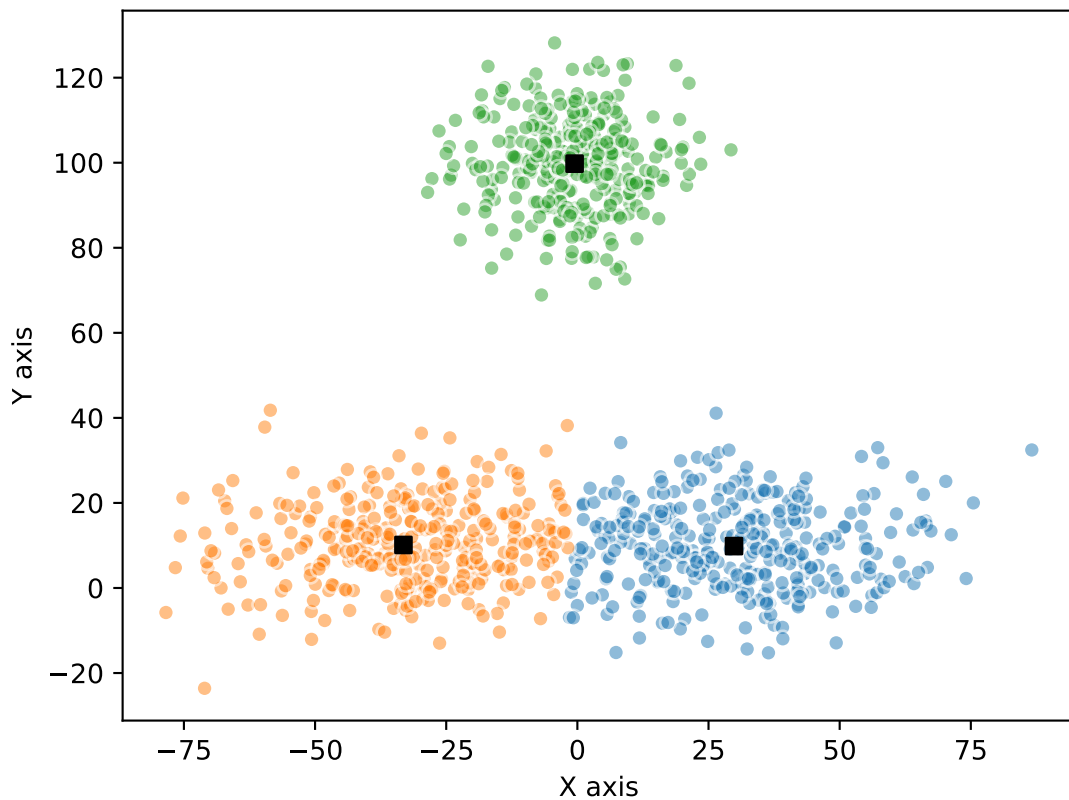
# Iteration 2



# Iteration 3

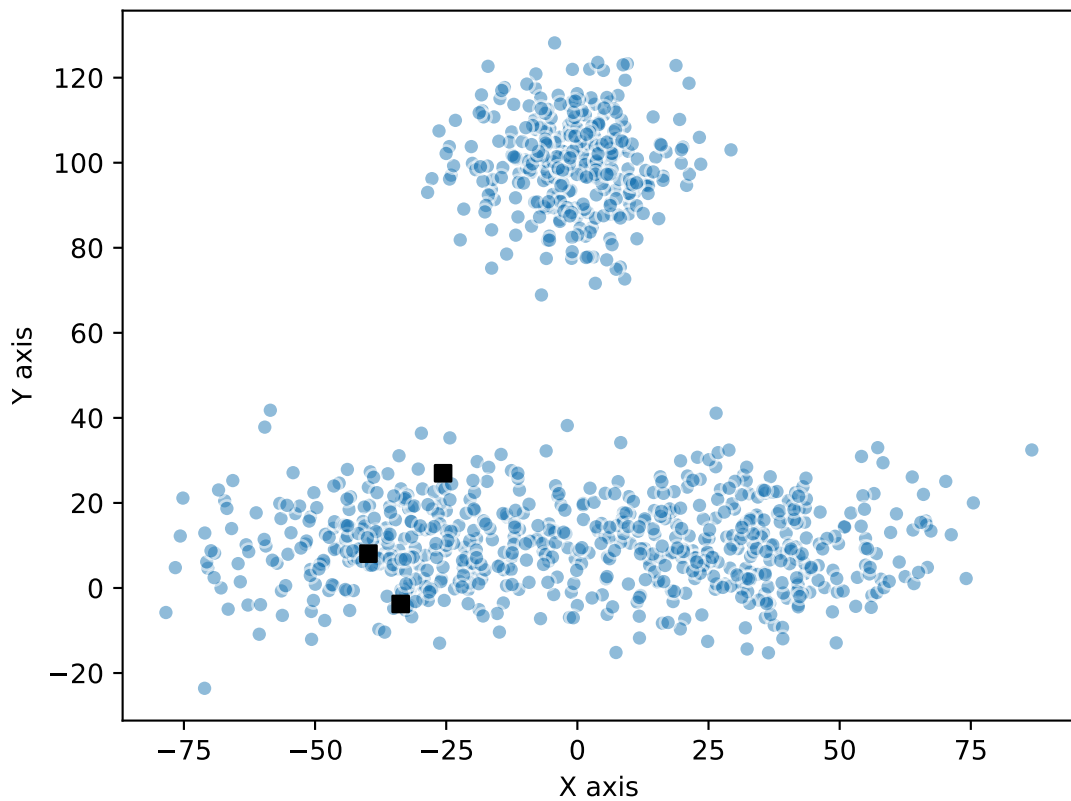


# Iteration 4



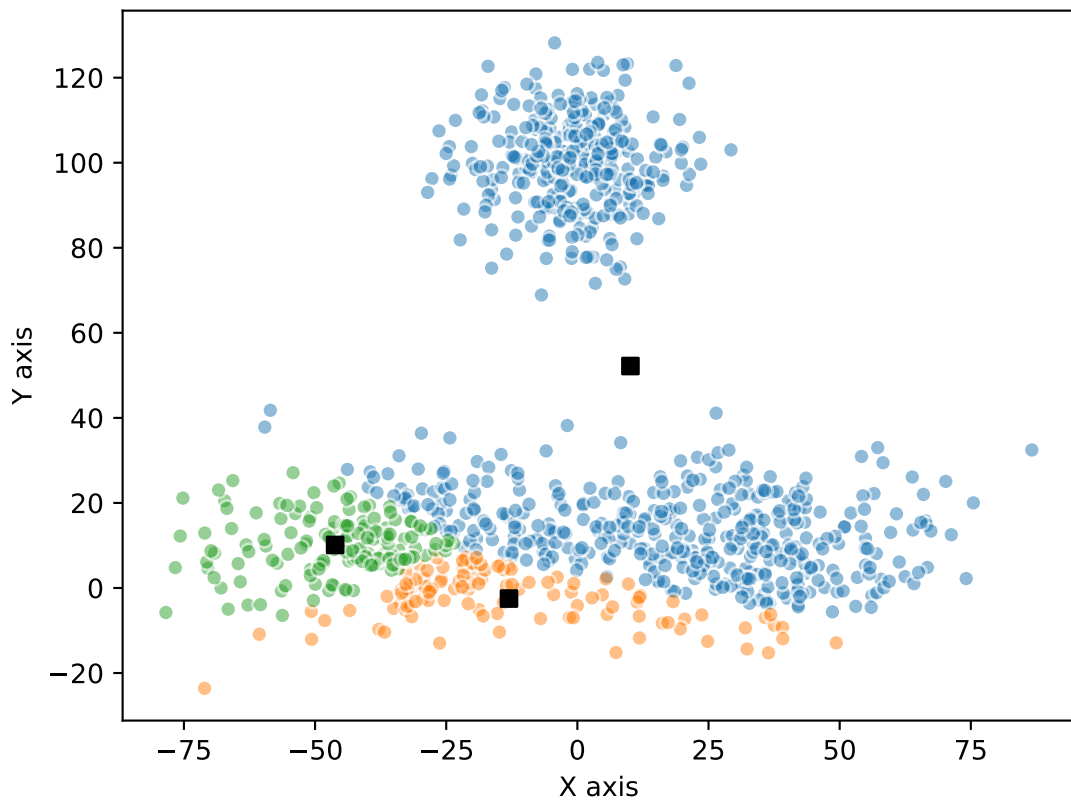
Running K-means for  $N = 2$

# Iteration 0

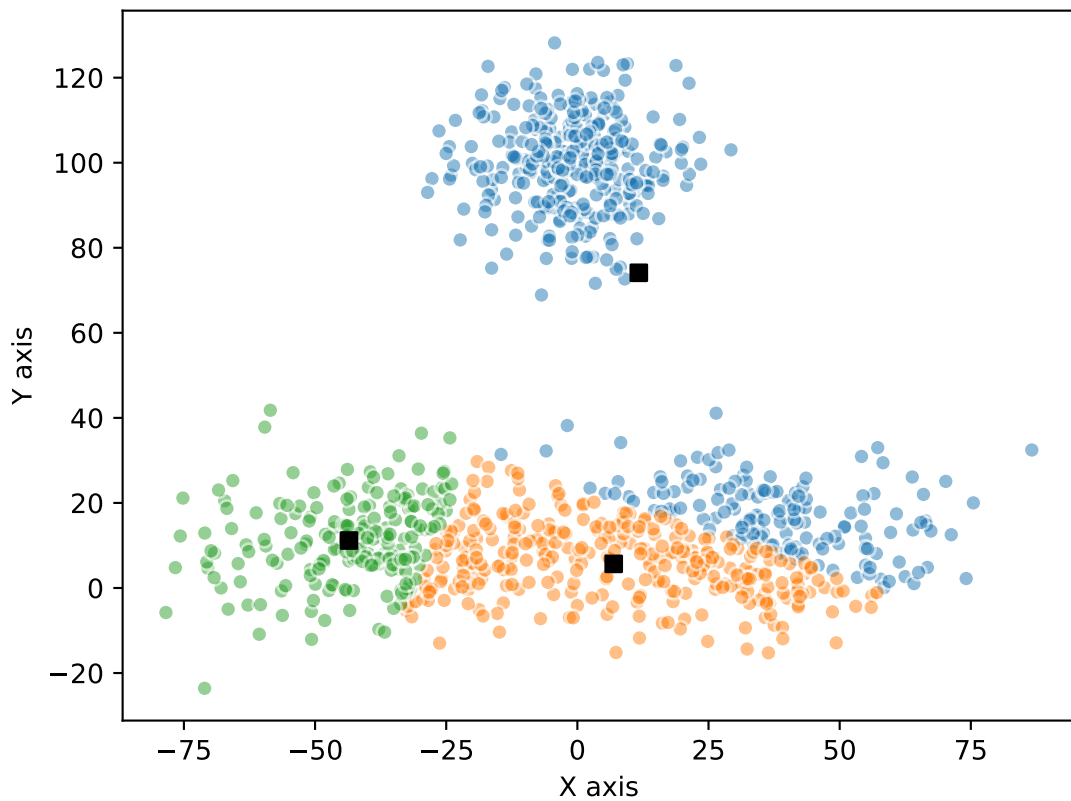




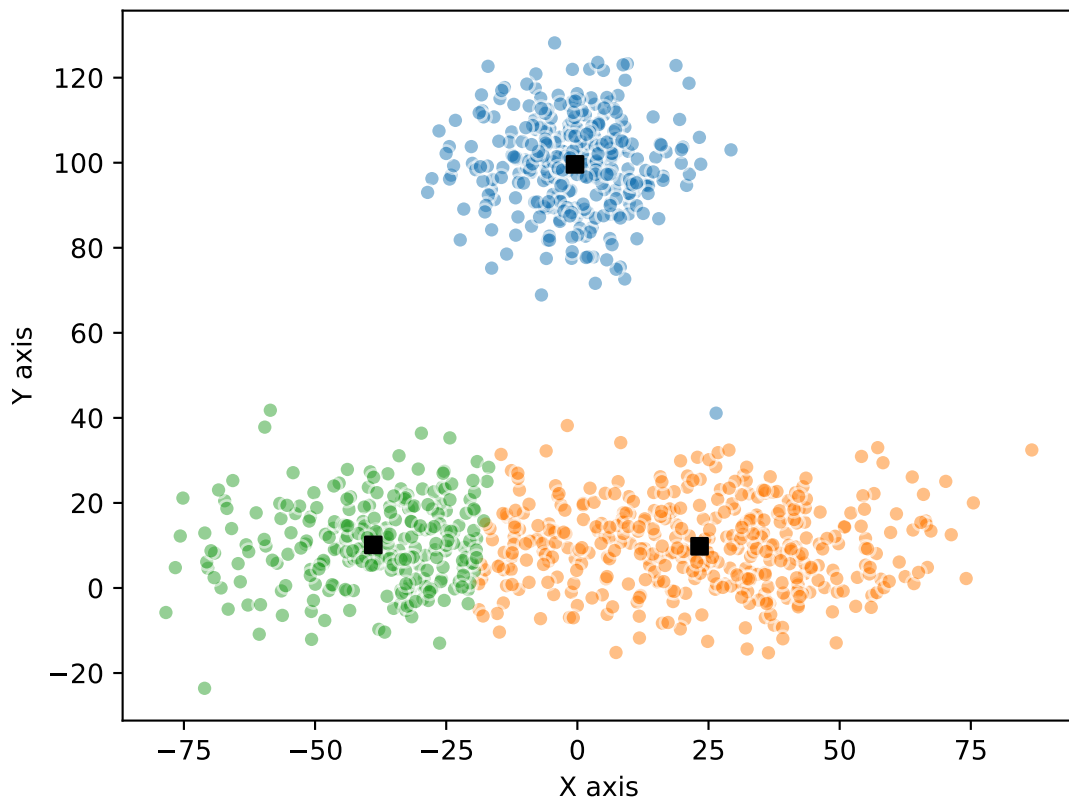
# Iteration 1



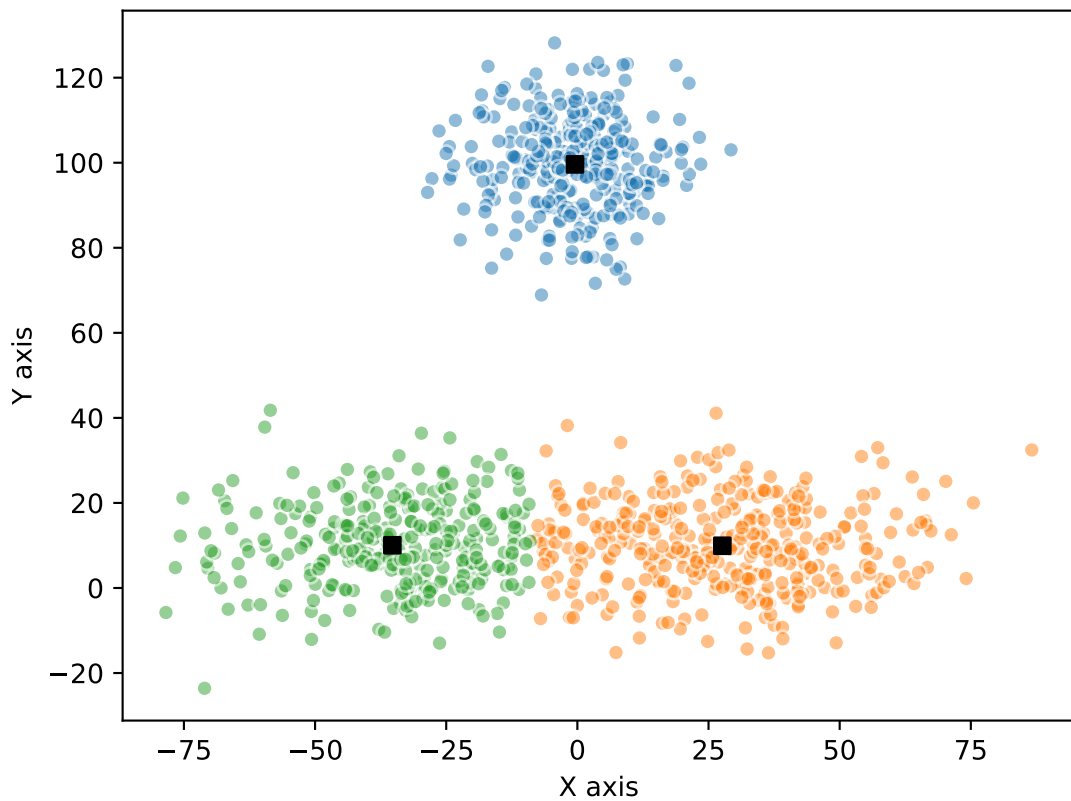
# Iteration 2



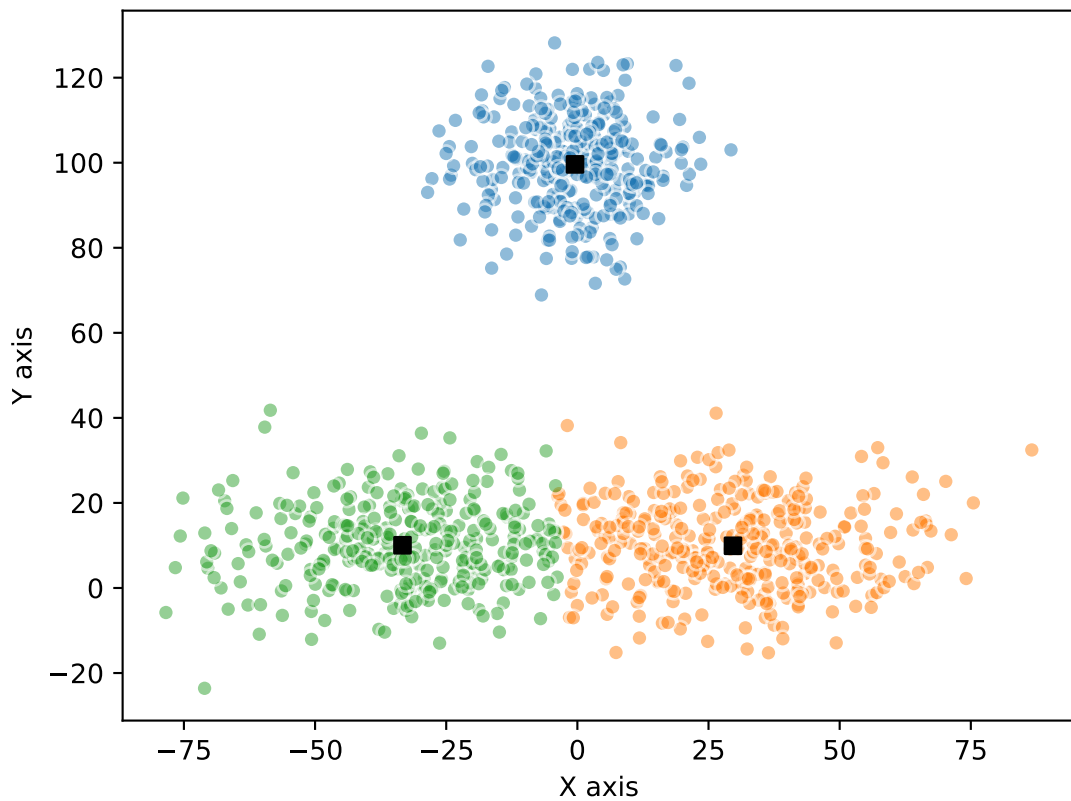
# Iteration 3



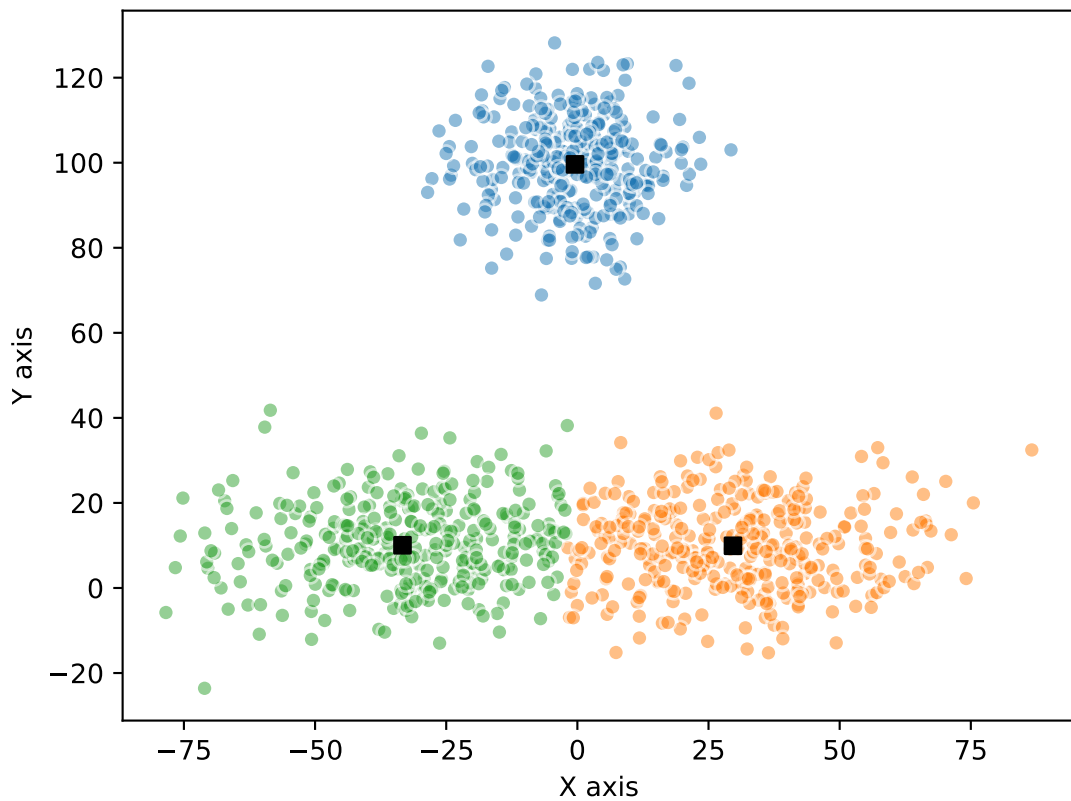
# Iteration 4



# Iteration 5

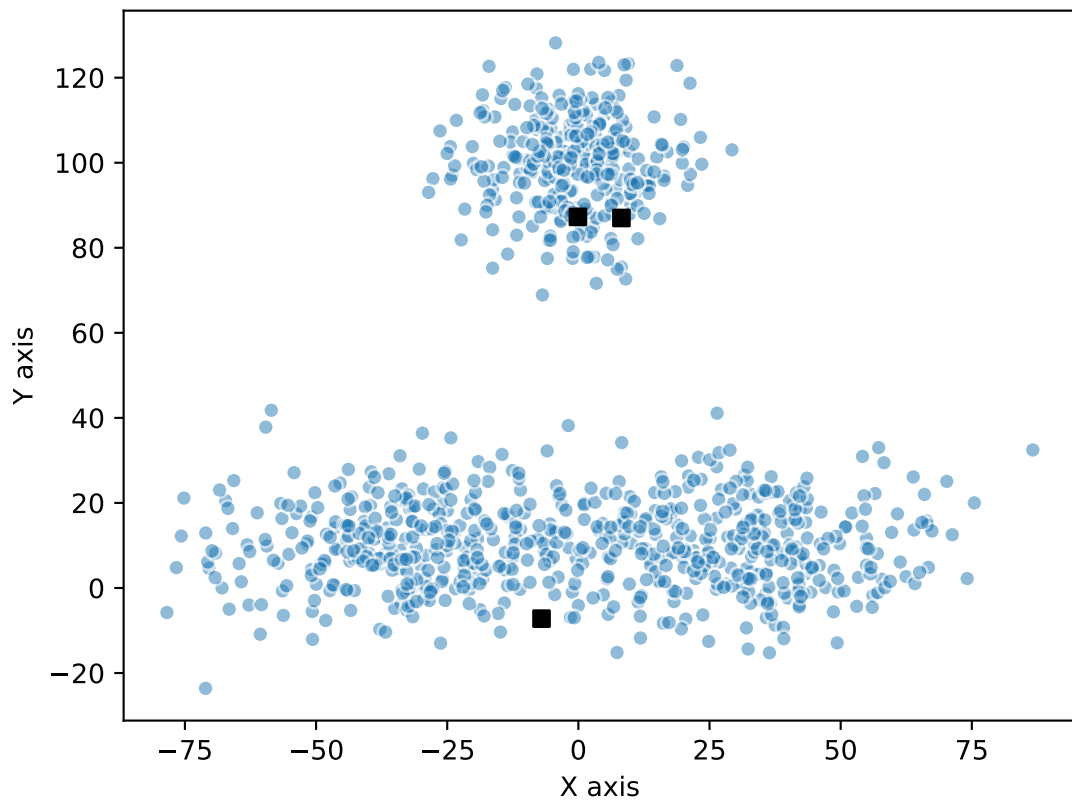


# Iteration 6



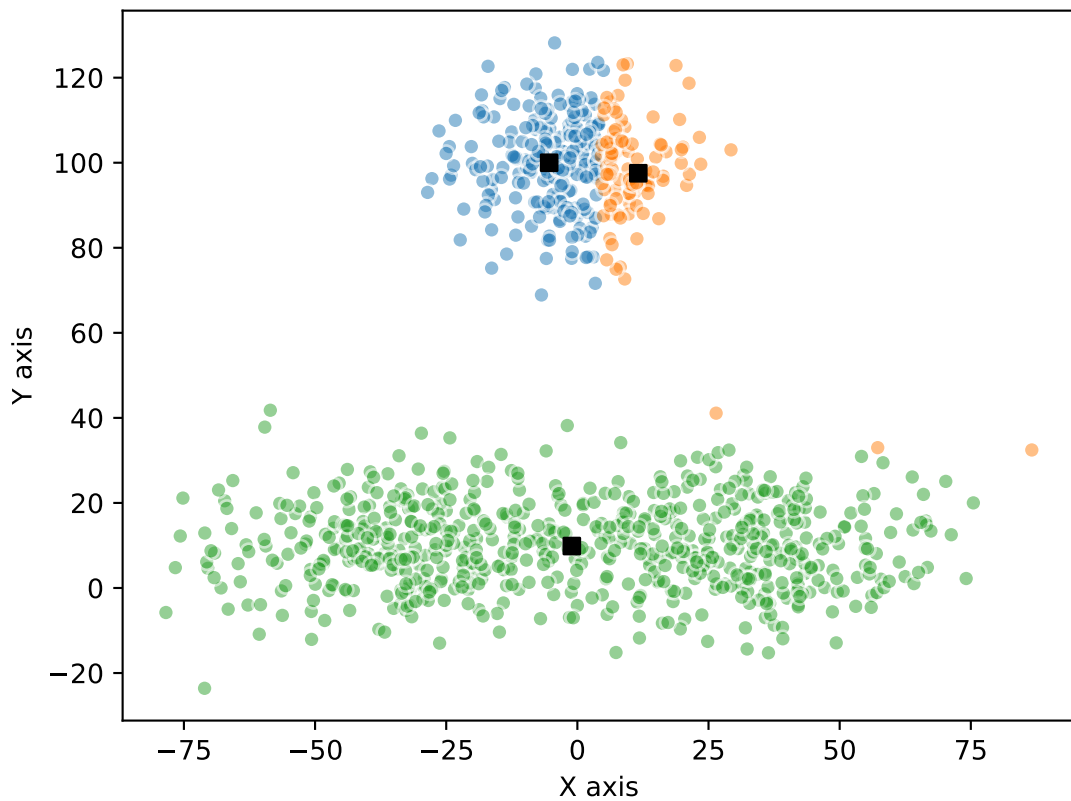
Running K-means for  $N = 3$

# Iteration 0

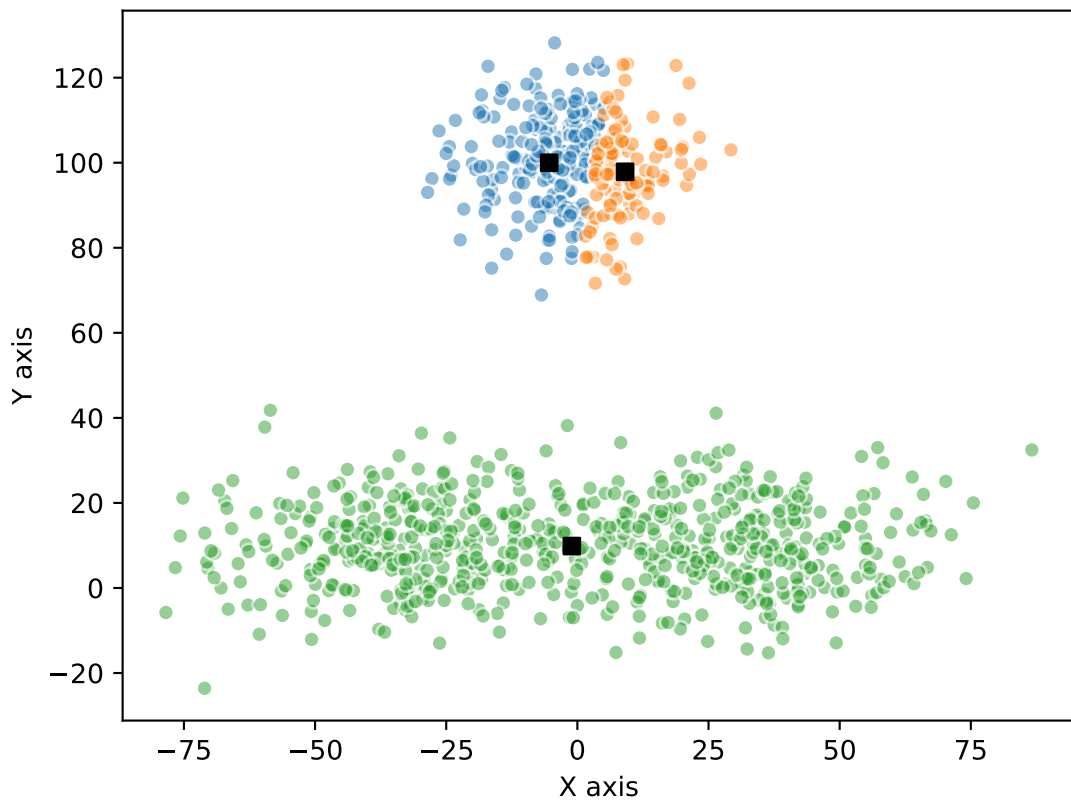




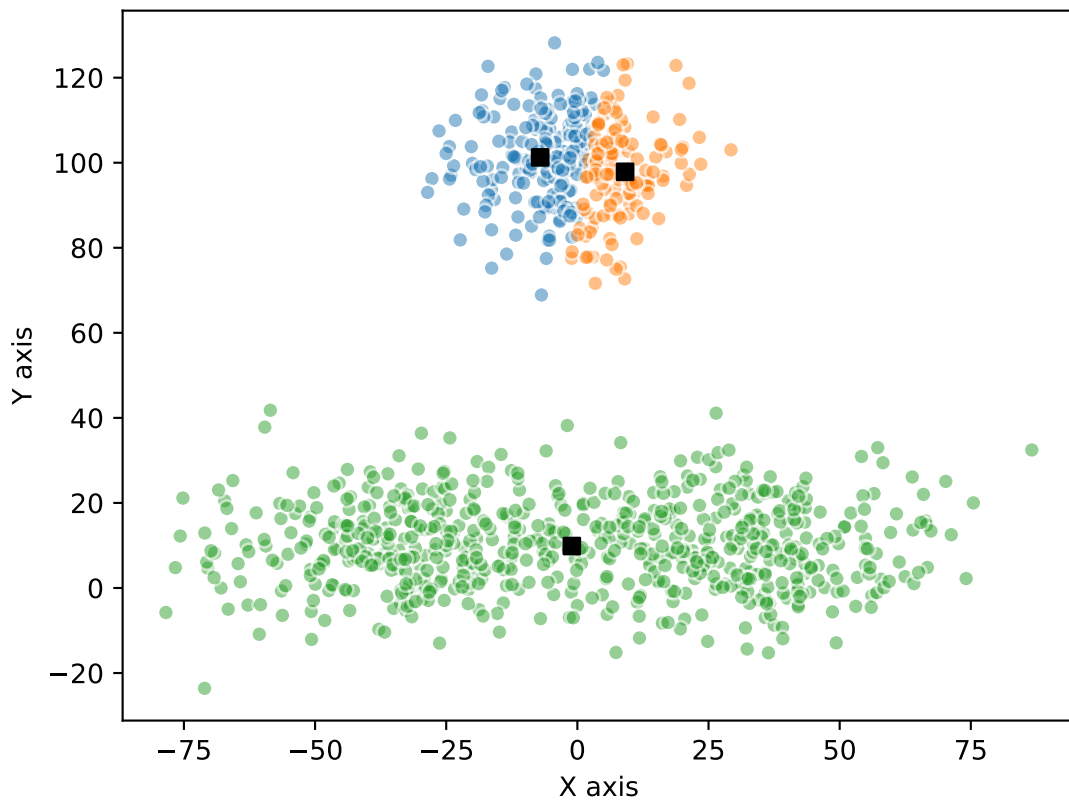
# Iteration 1



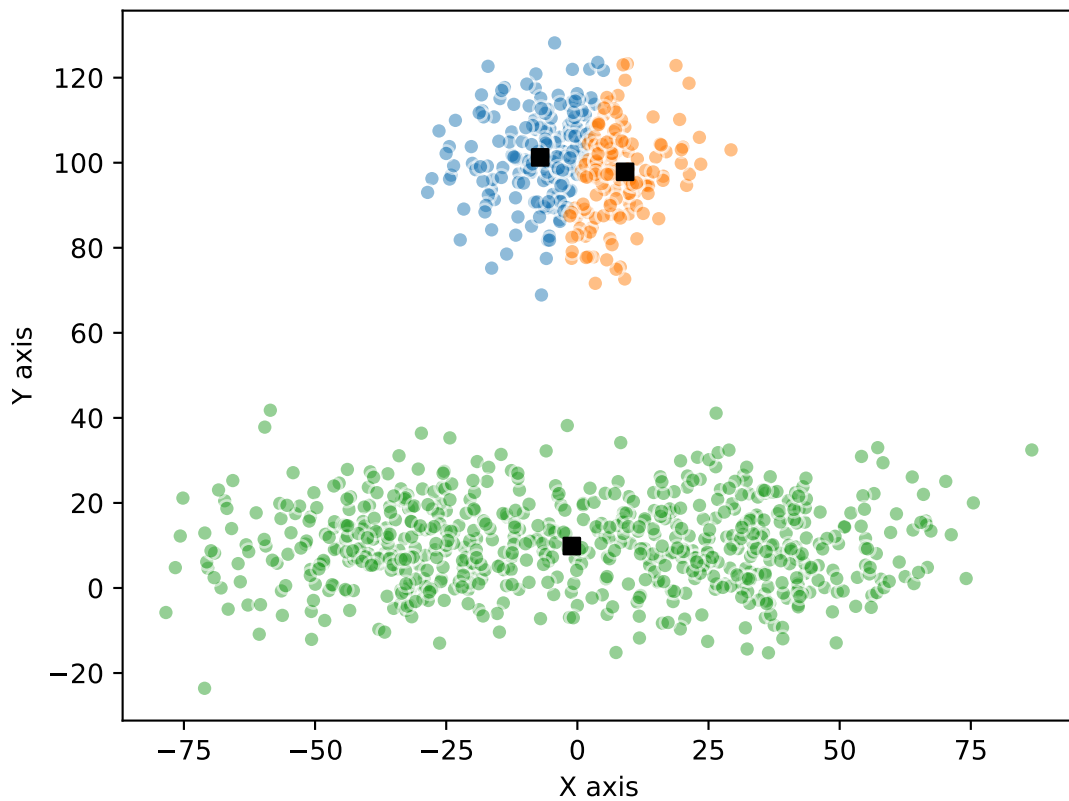
# Iteration 2



# Iteration 3

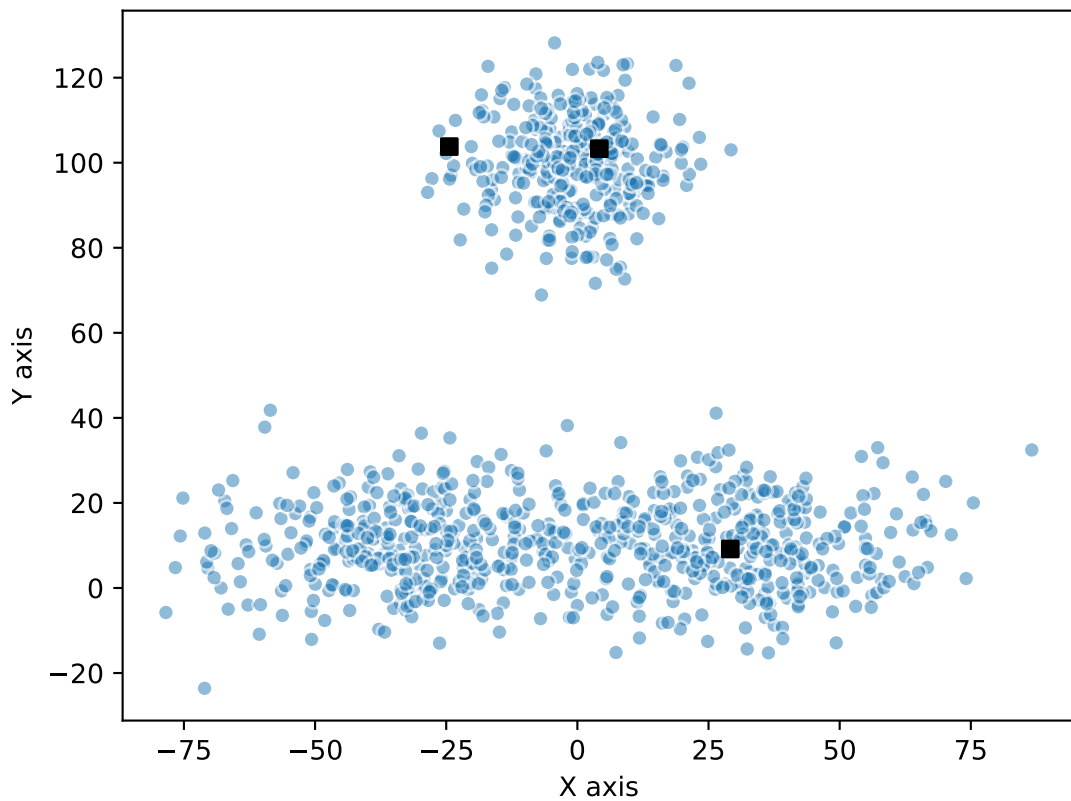


# Iteration 4

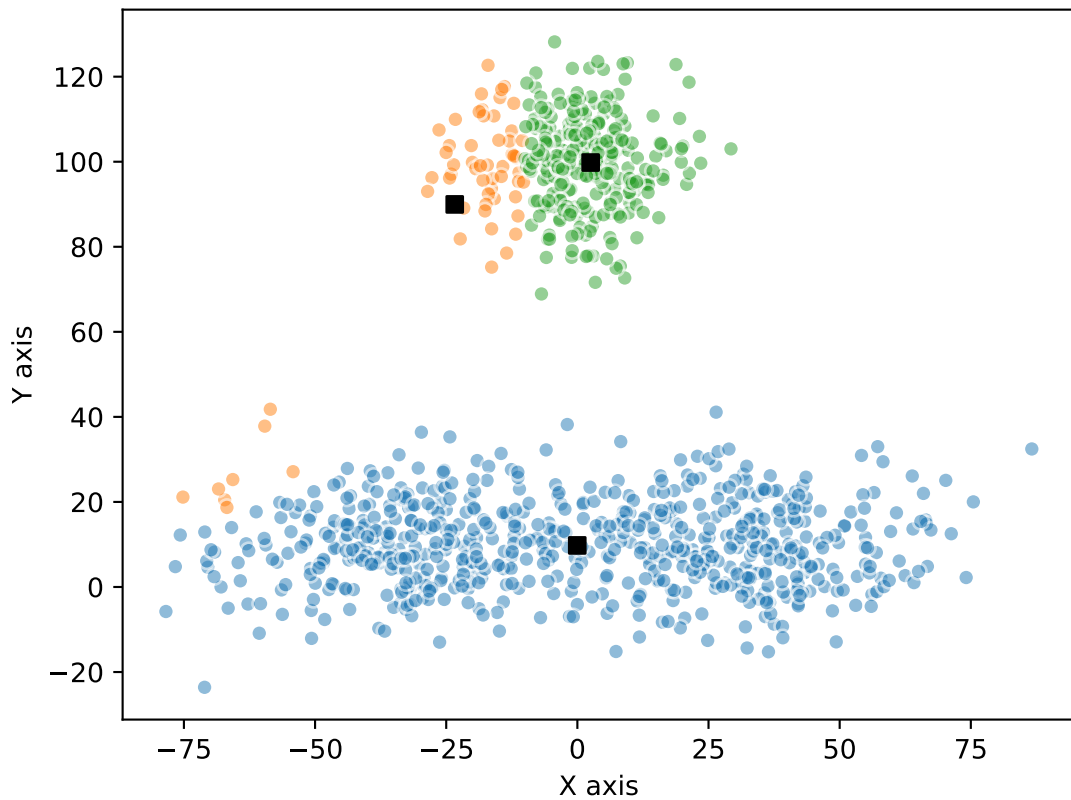


Running K-means for  $N = 4$

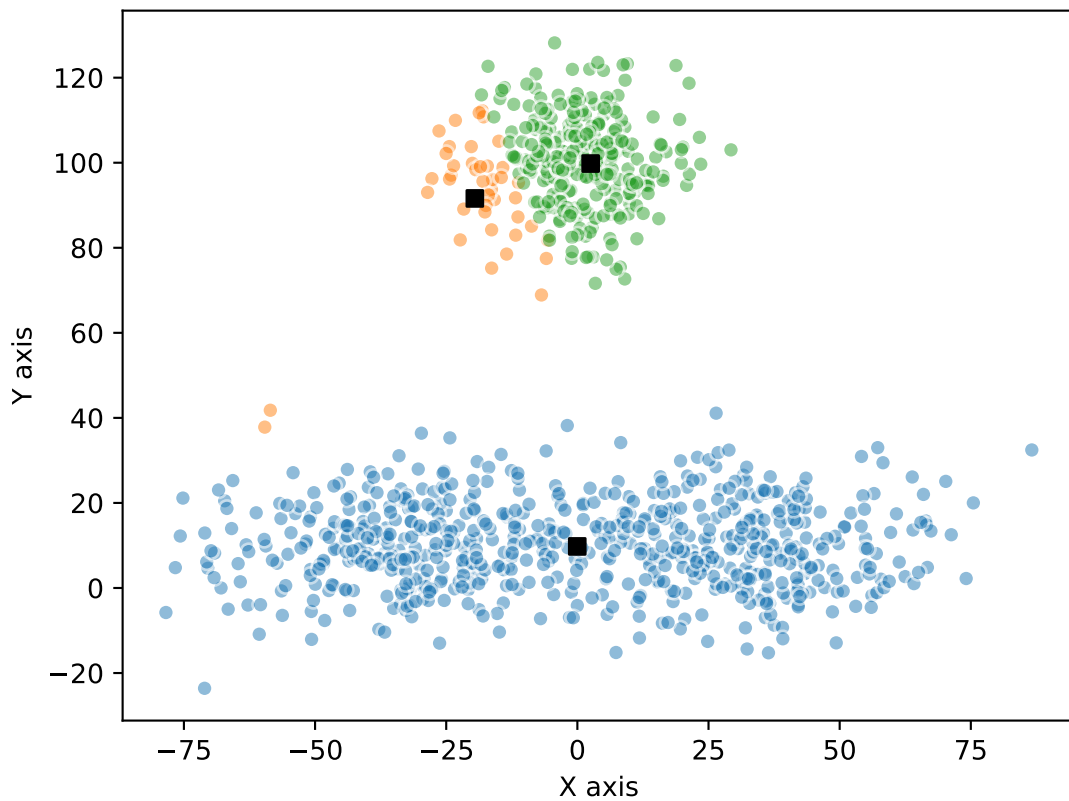
# Iteration 0



# Iteration 1

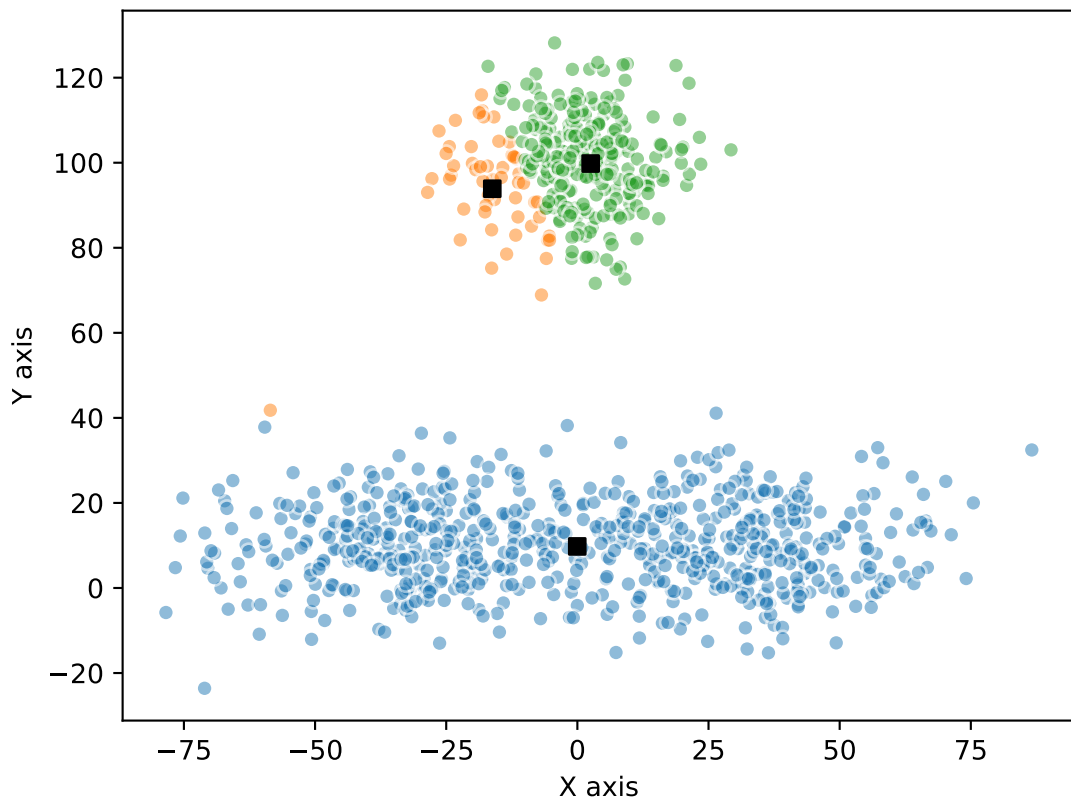


# Iteration 2

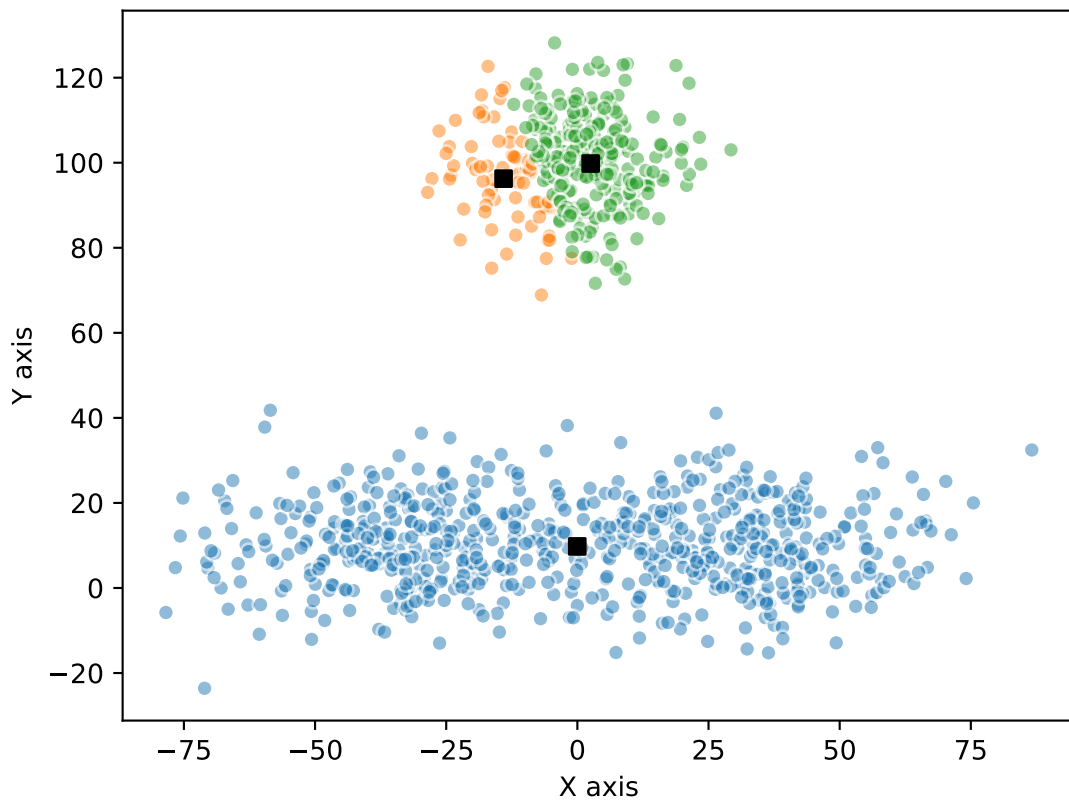




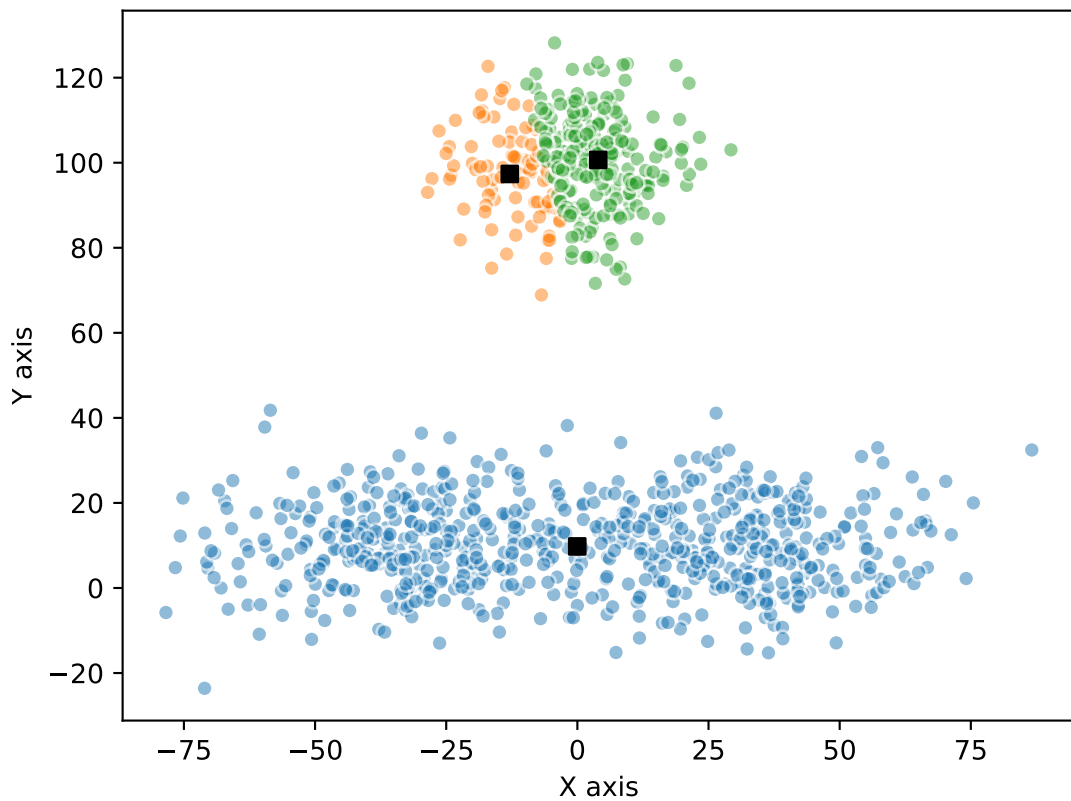
# Iteration 3



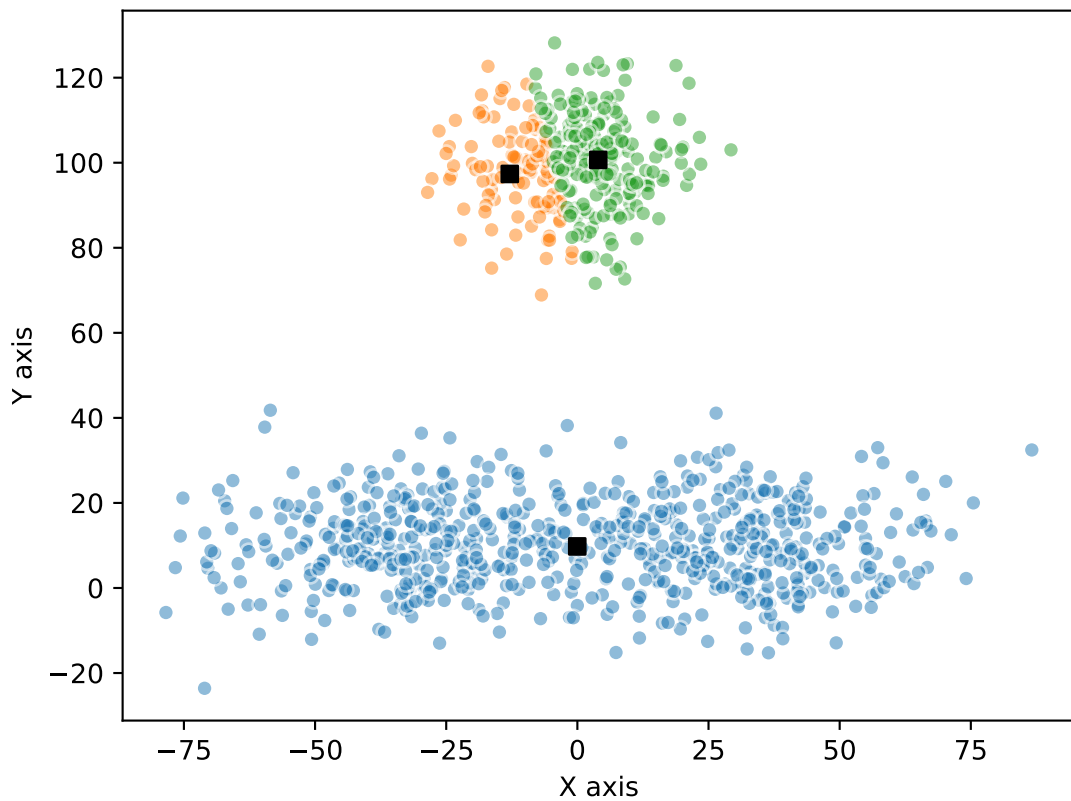
# Iteration 4



# Iteration 5

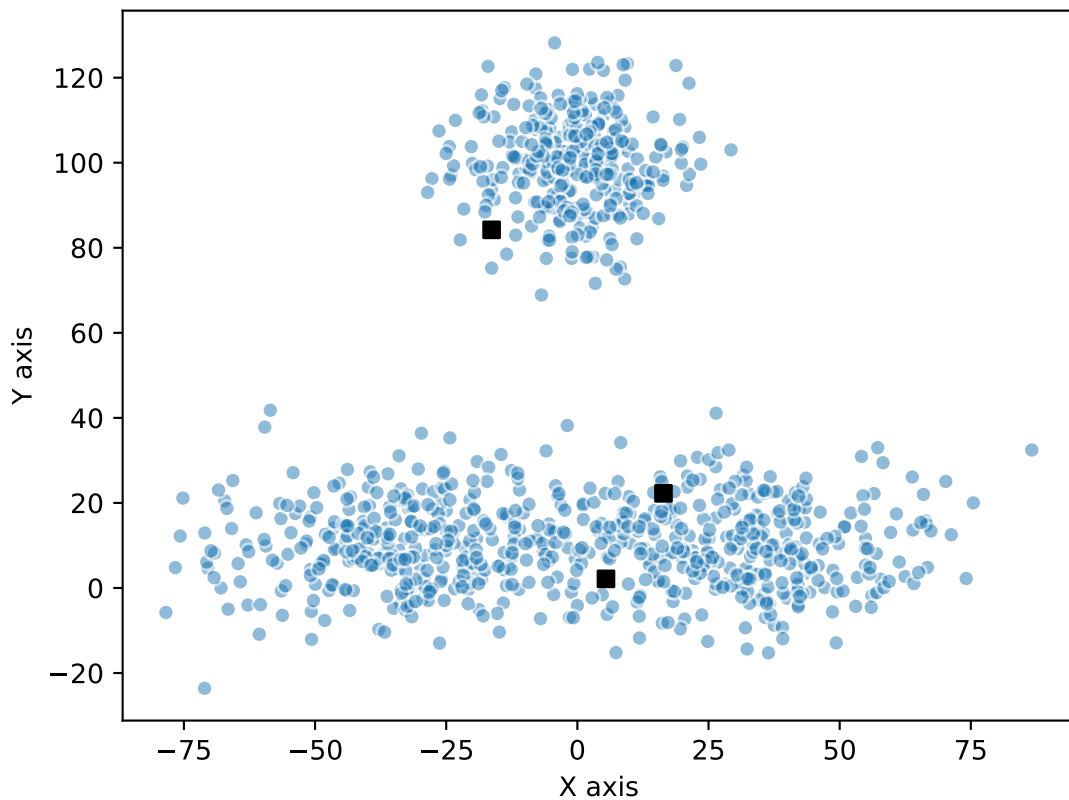


# Iteration 6

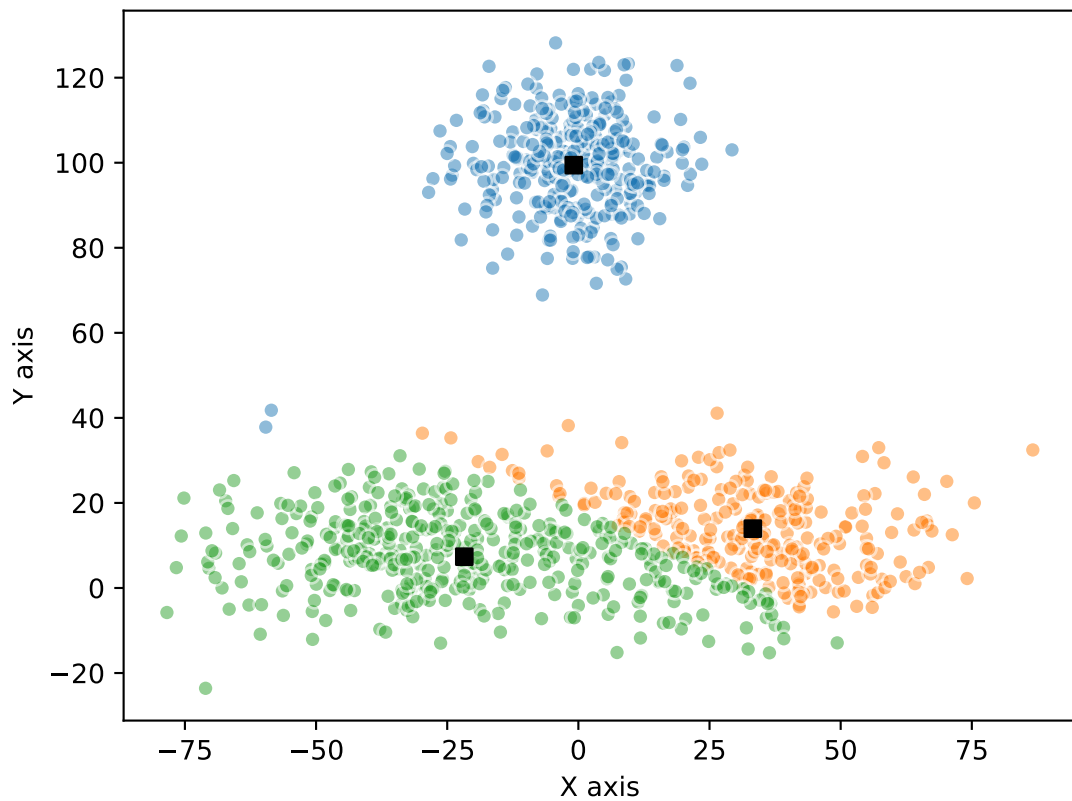


Running K-means for  $N = 5$

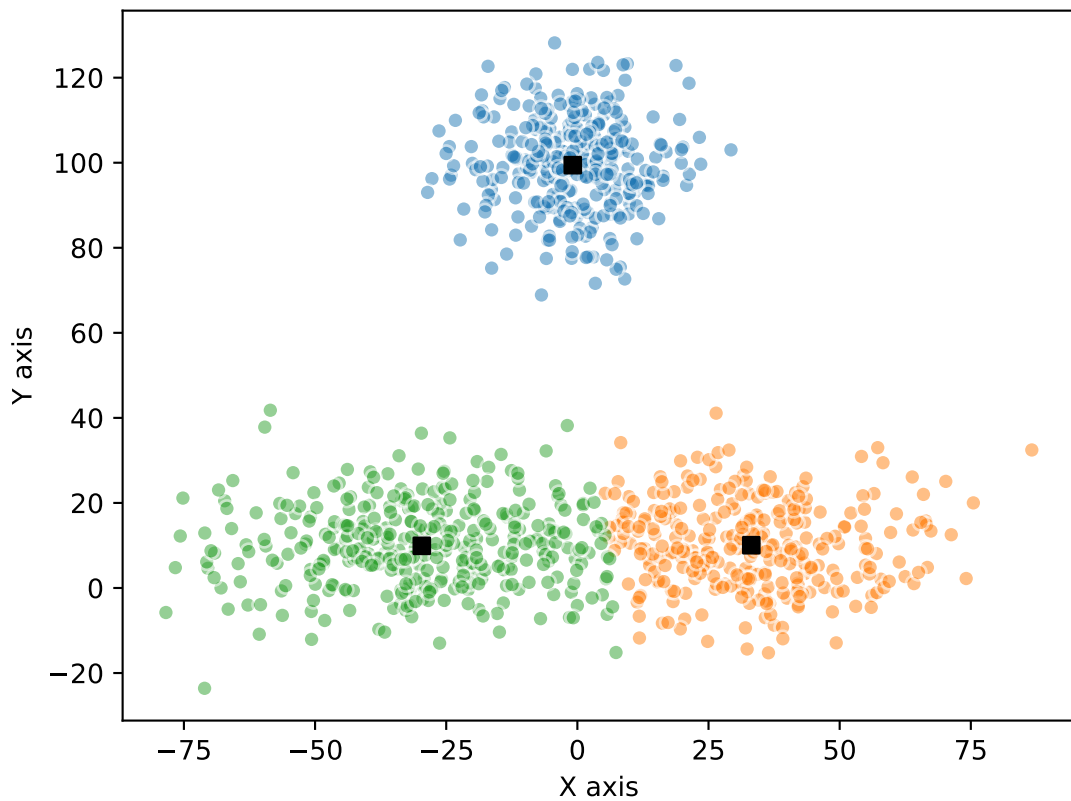
# Iteration 0



# Iteration 1

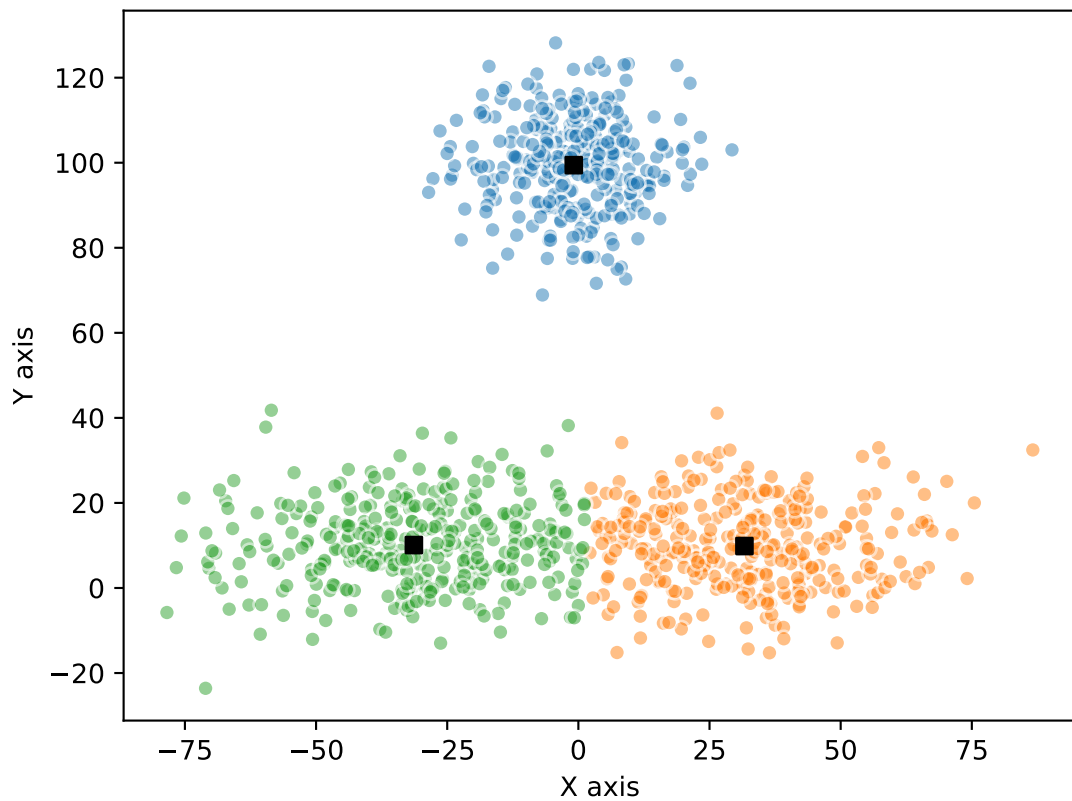


# Iteration 2

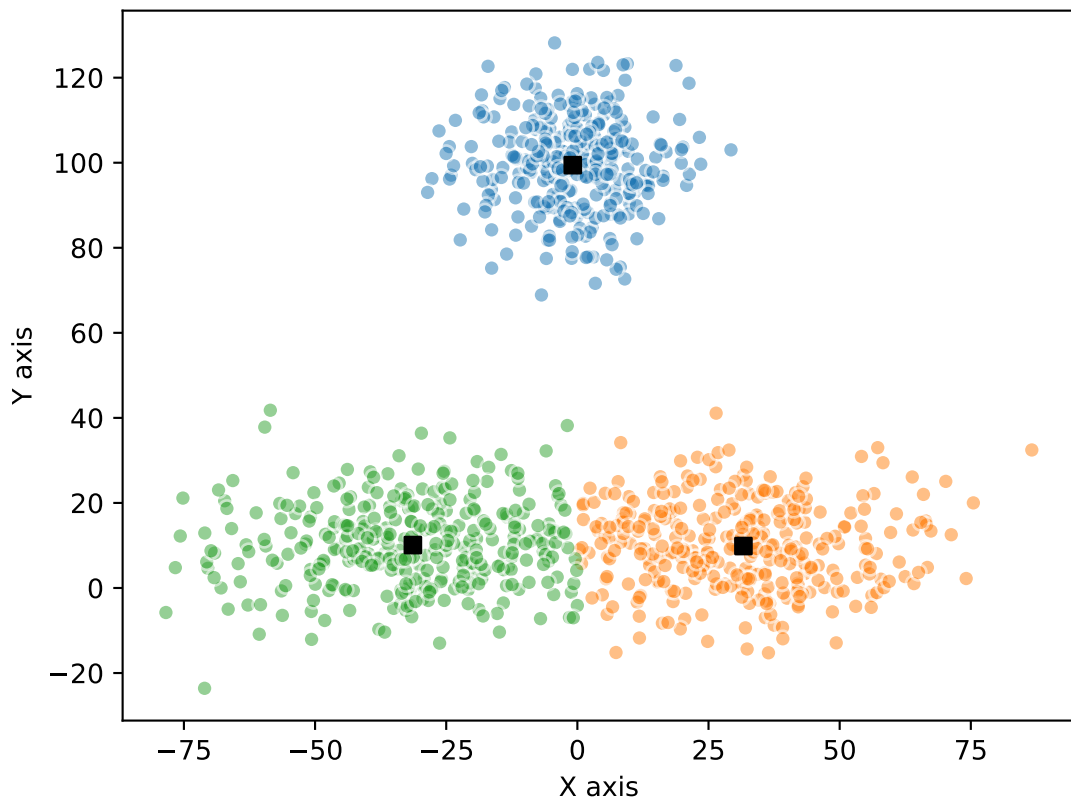




# Iteration 3

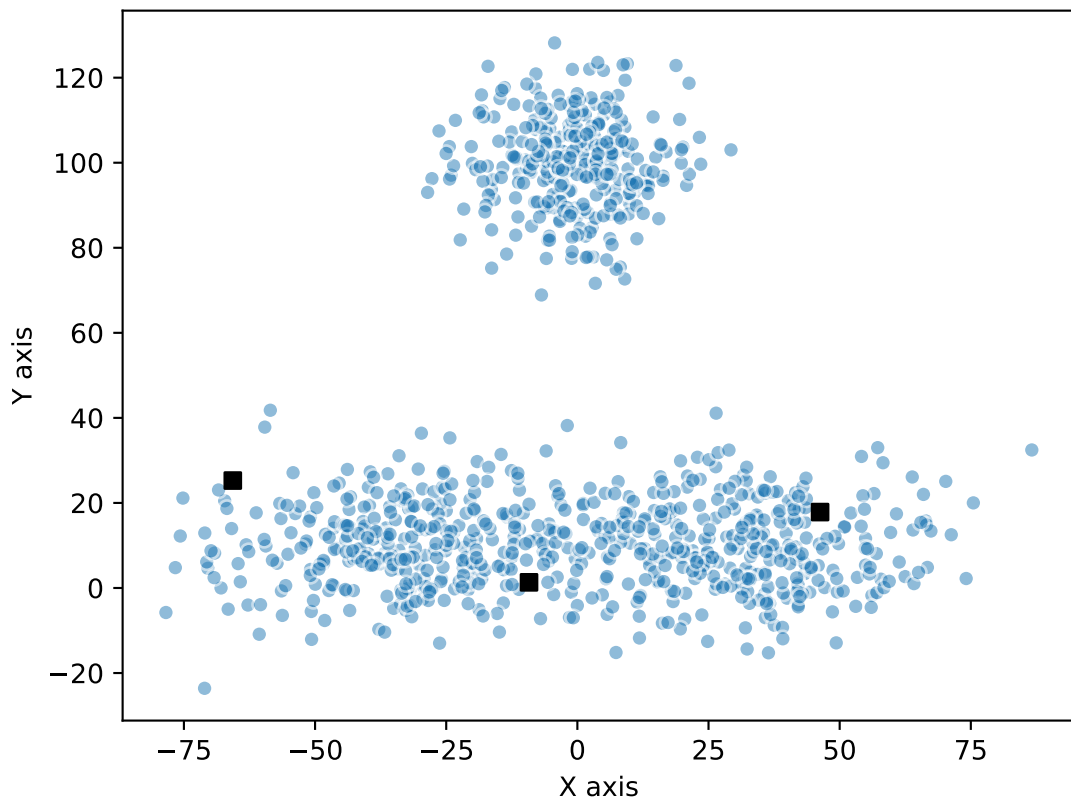


# Iteration 4

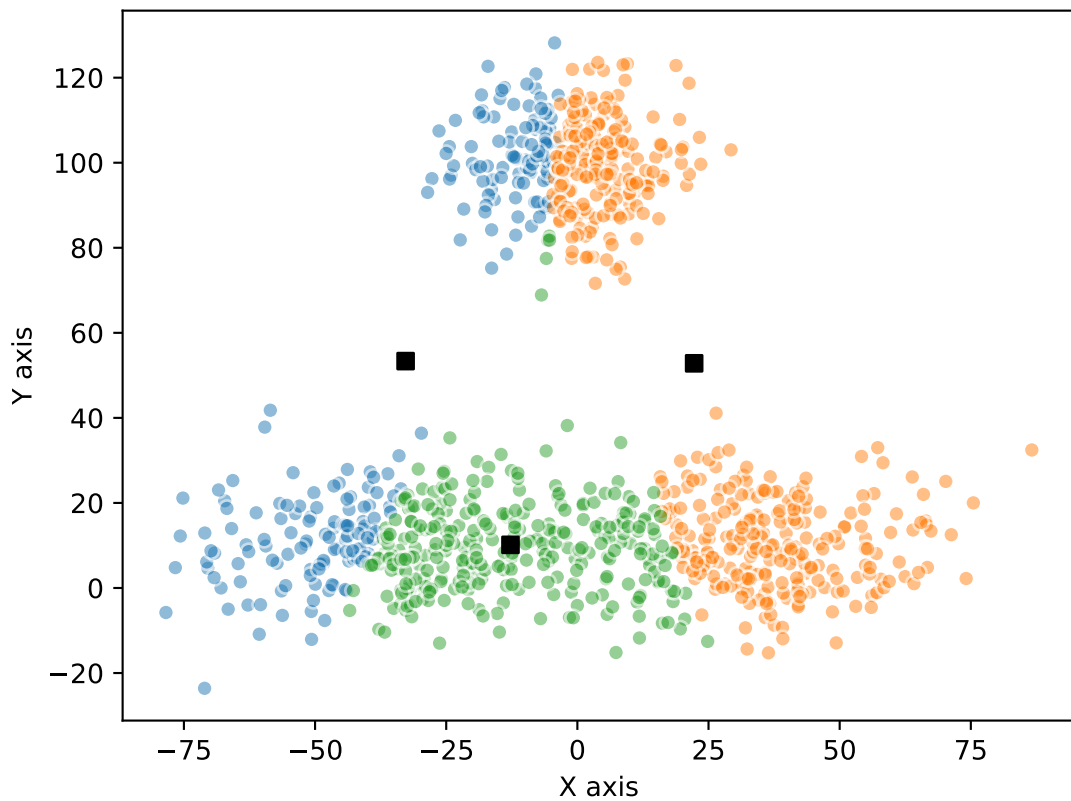


Running K-means for  $N = 6$

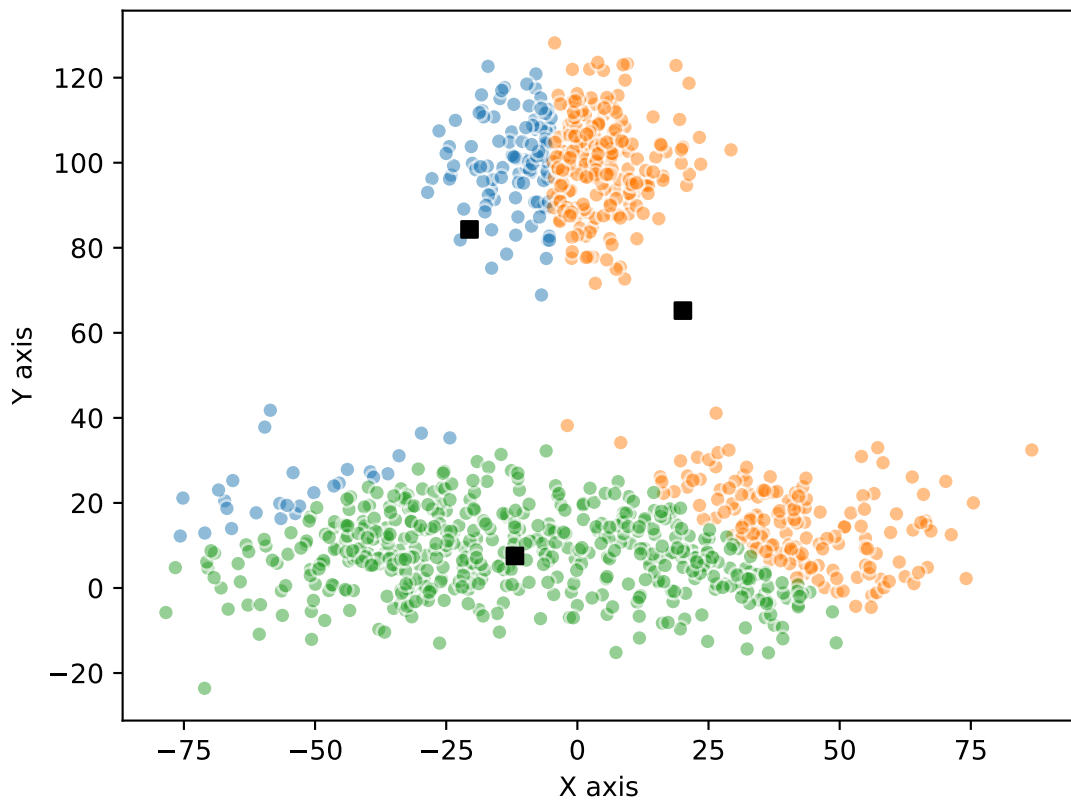
# Iteration 0



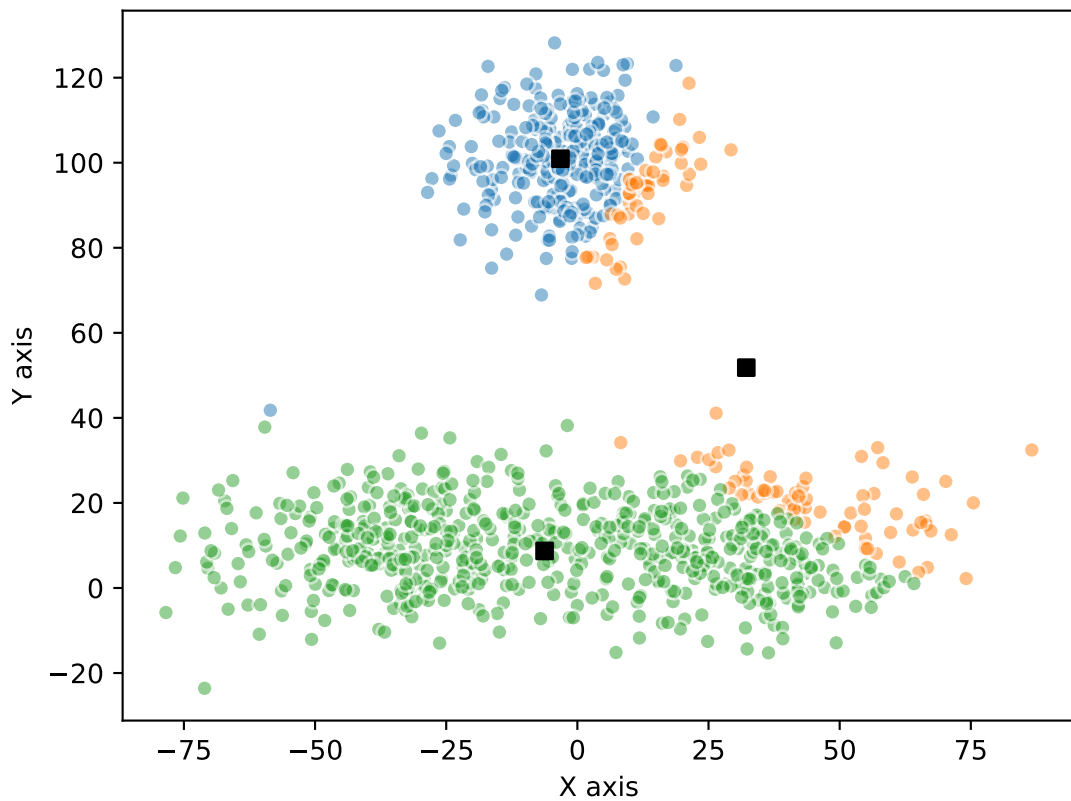
# Iteration 1



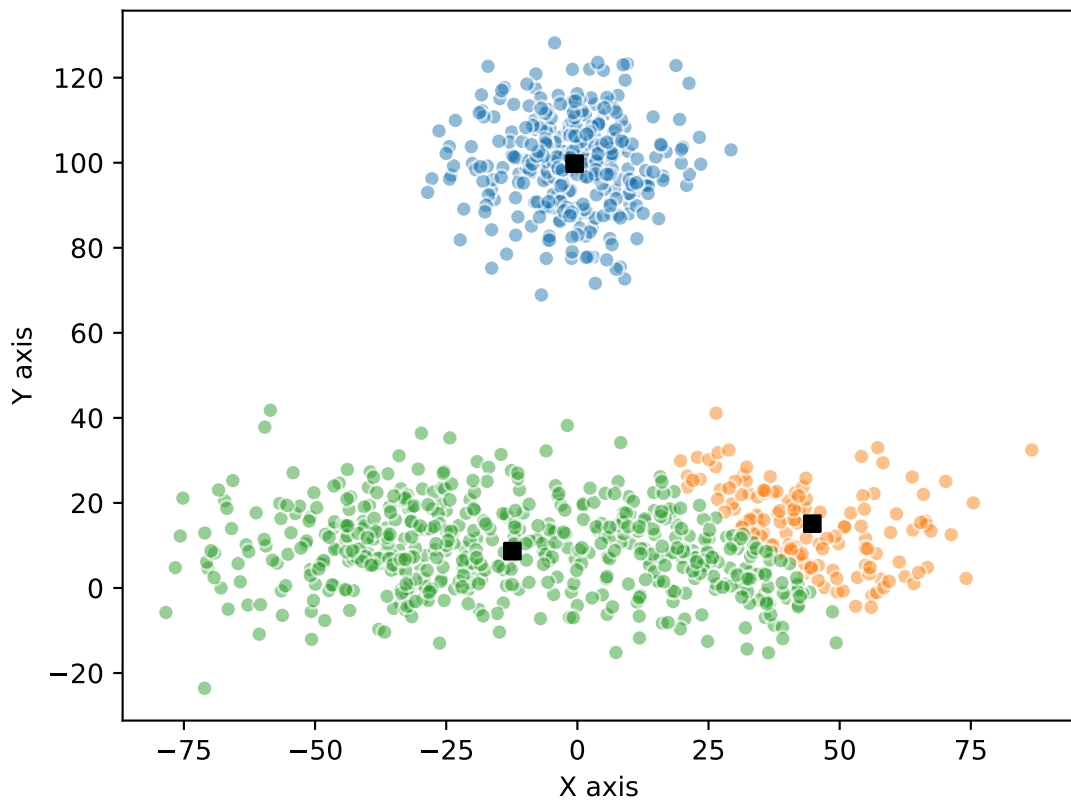
# Iteration 2



# Iteration 3

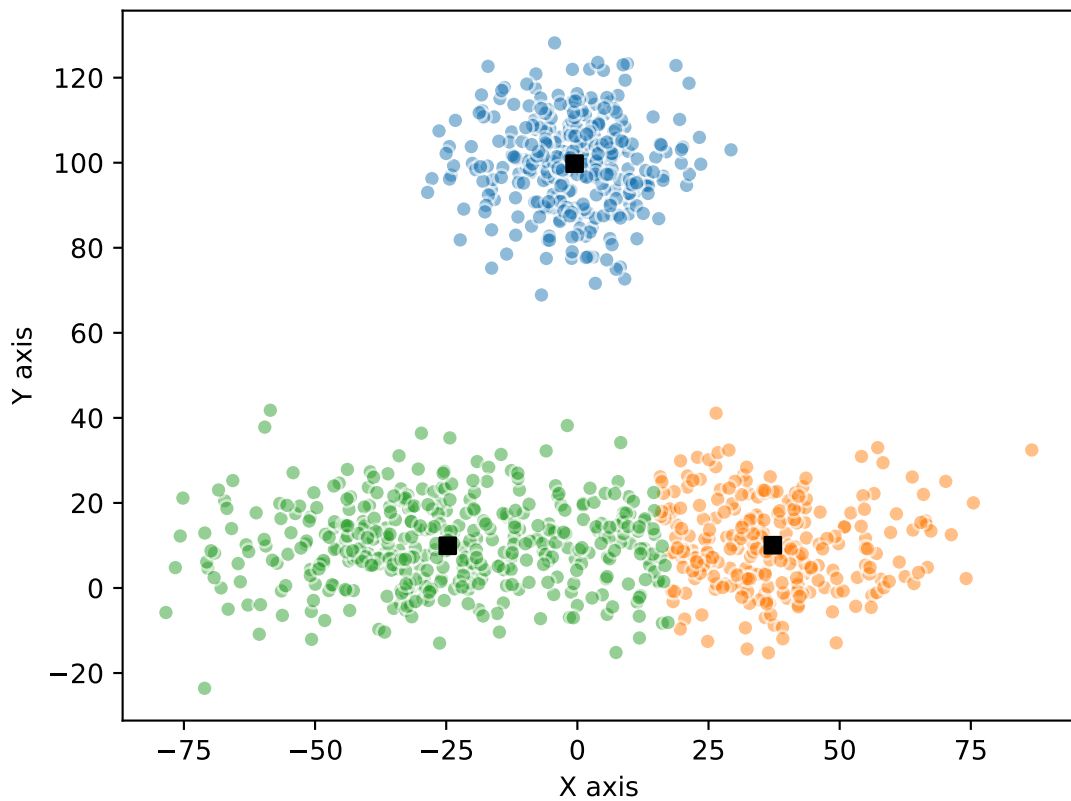


# Iteration 4

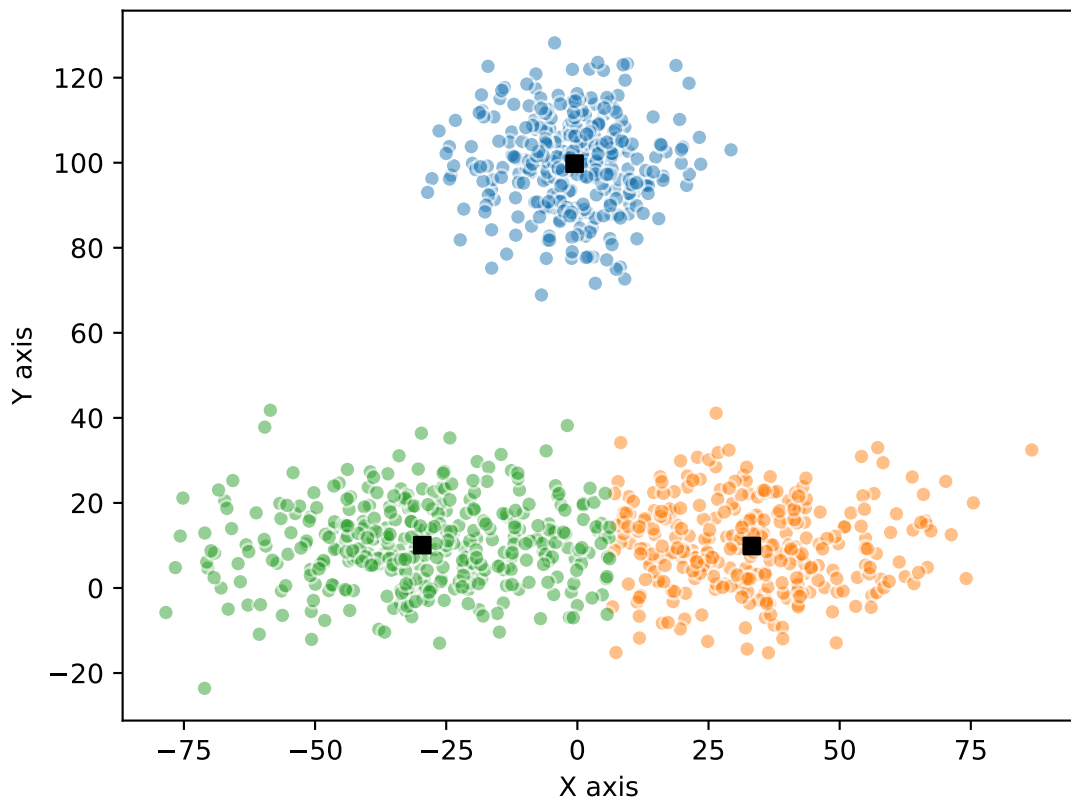




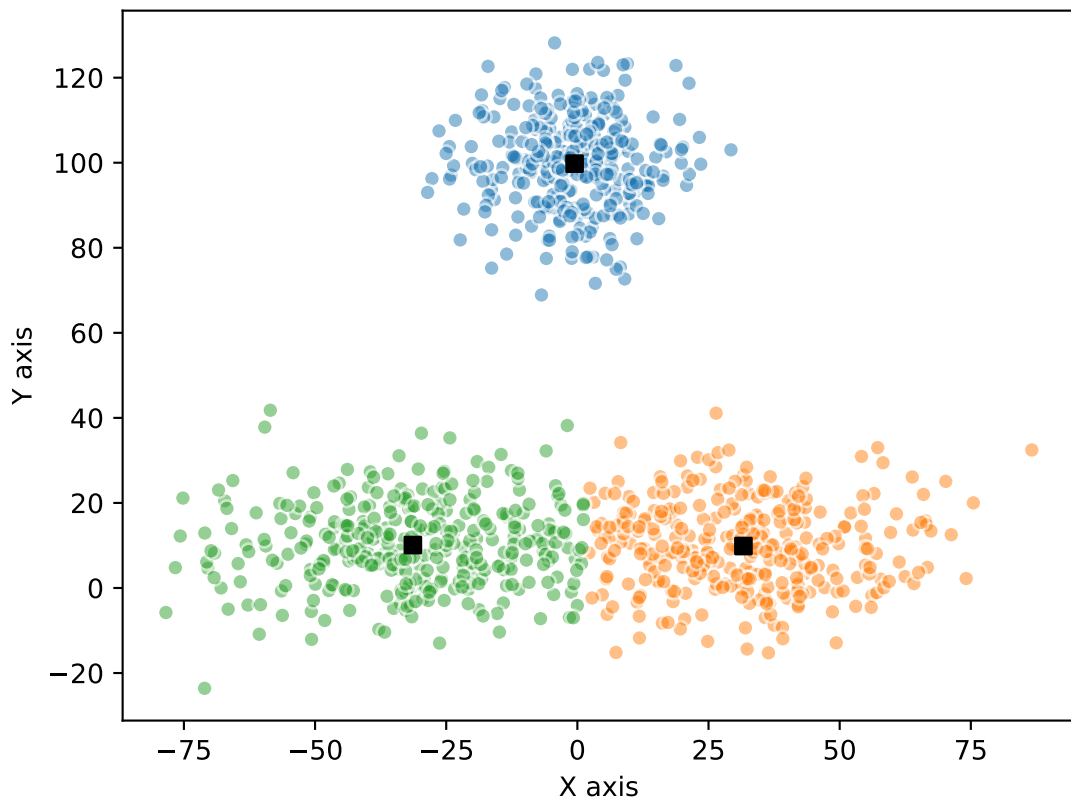
# Iteration 5



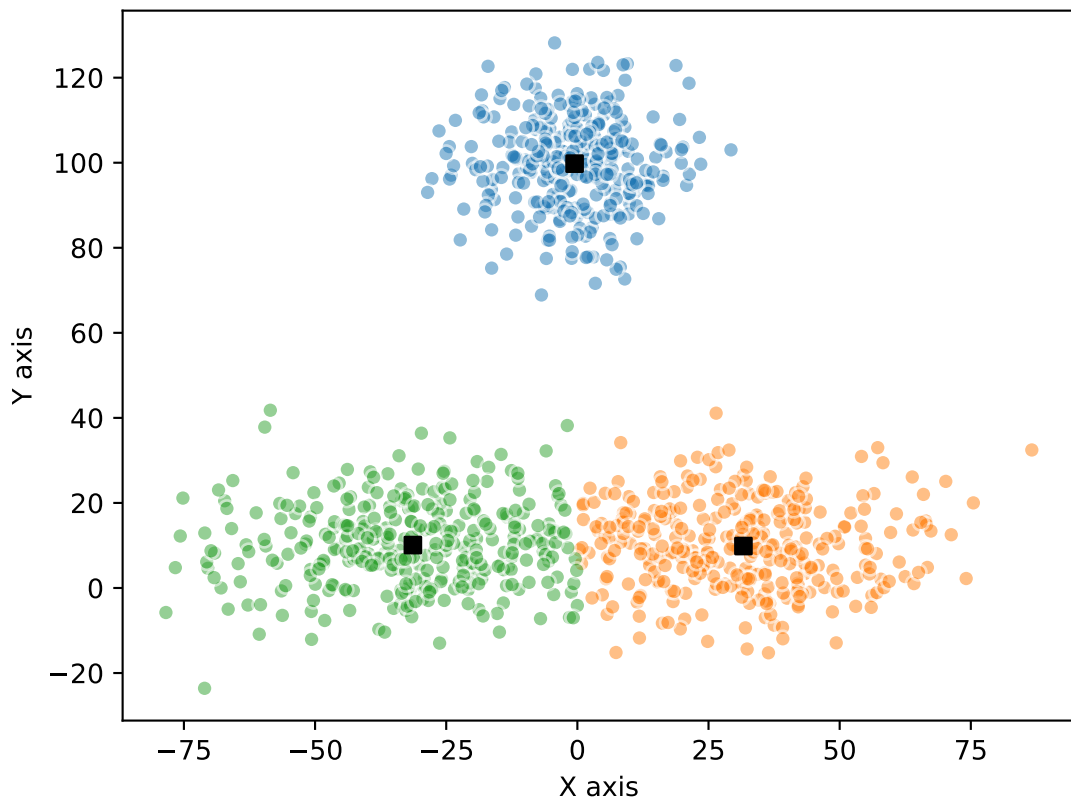
# Iteration 6



# Iteration 7

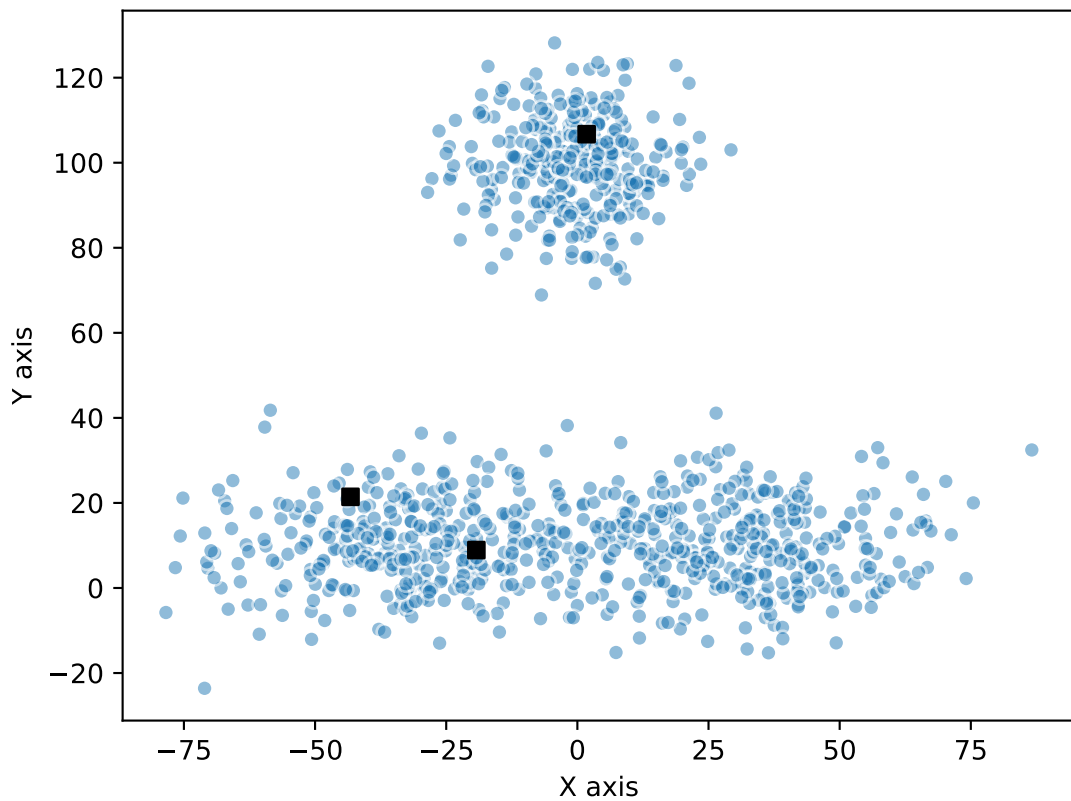


# Iteration 8

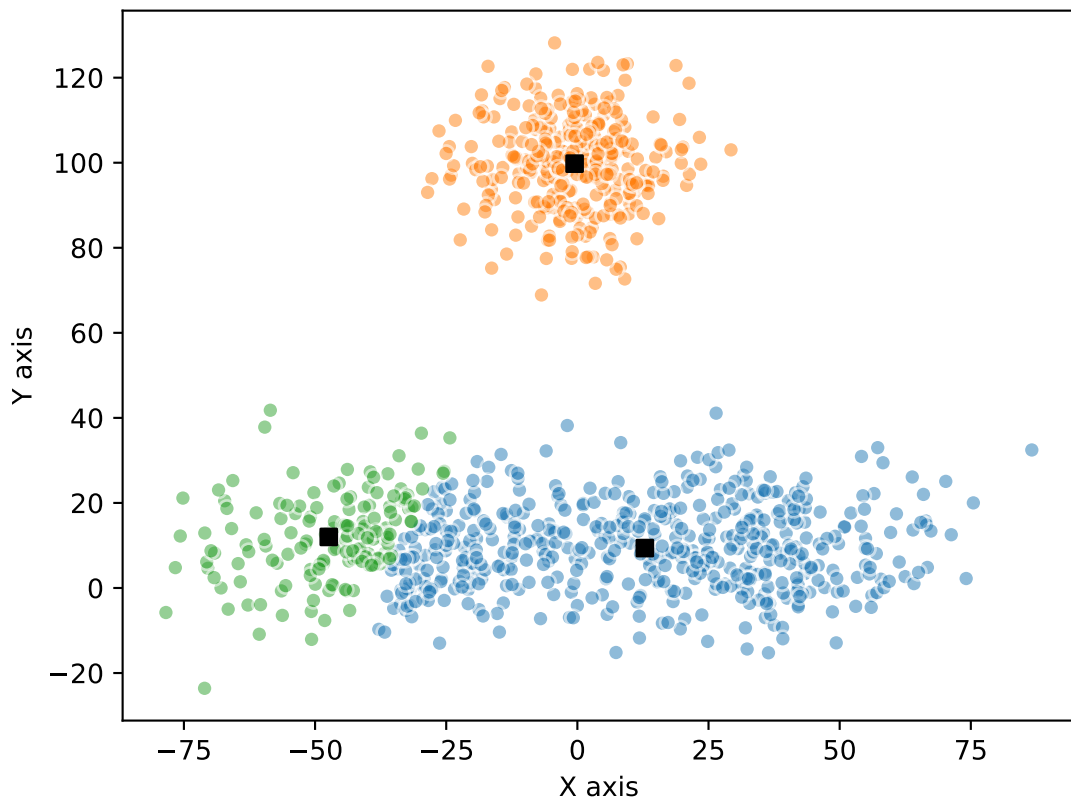


Running K-means for  $N = 7$

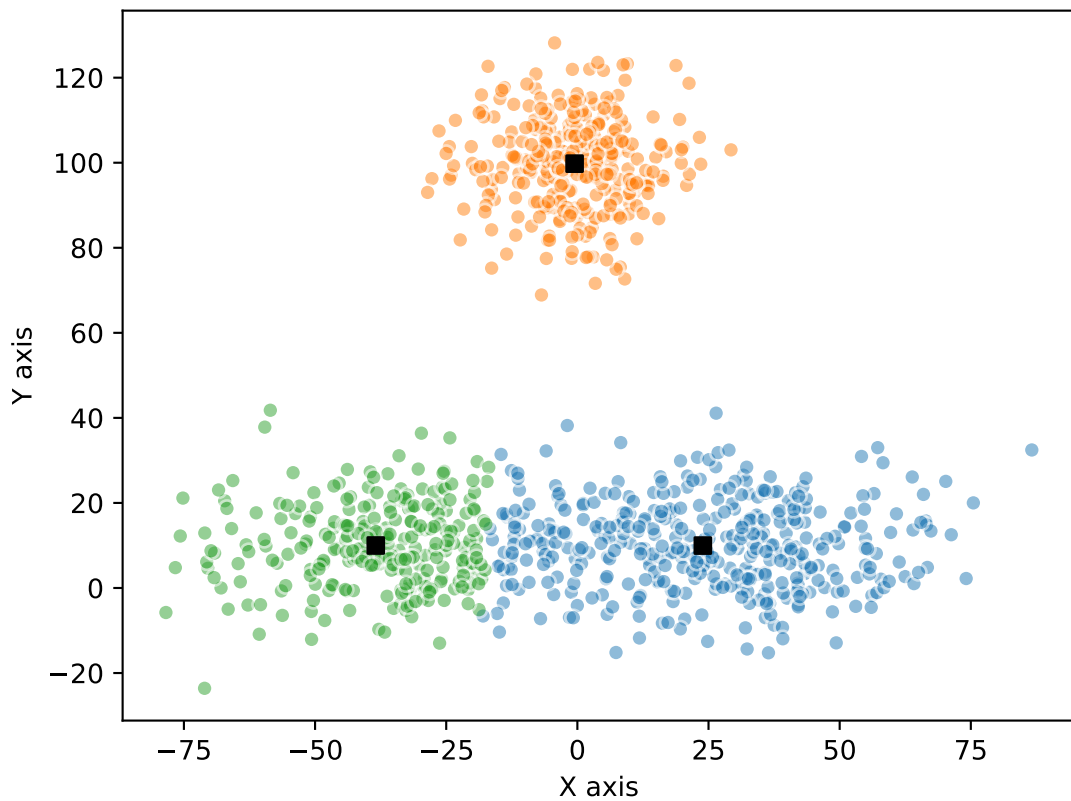
# Iteration 0



# Iteration 1

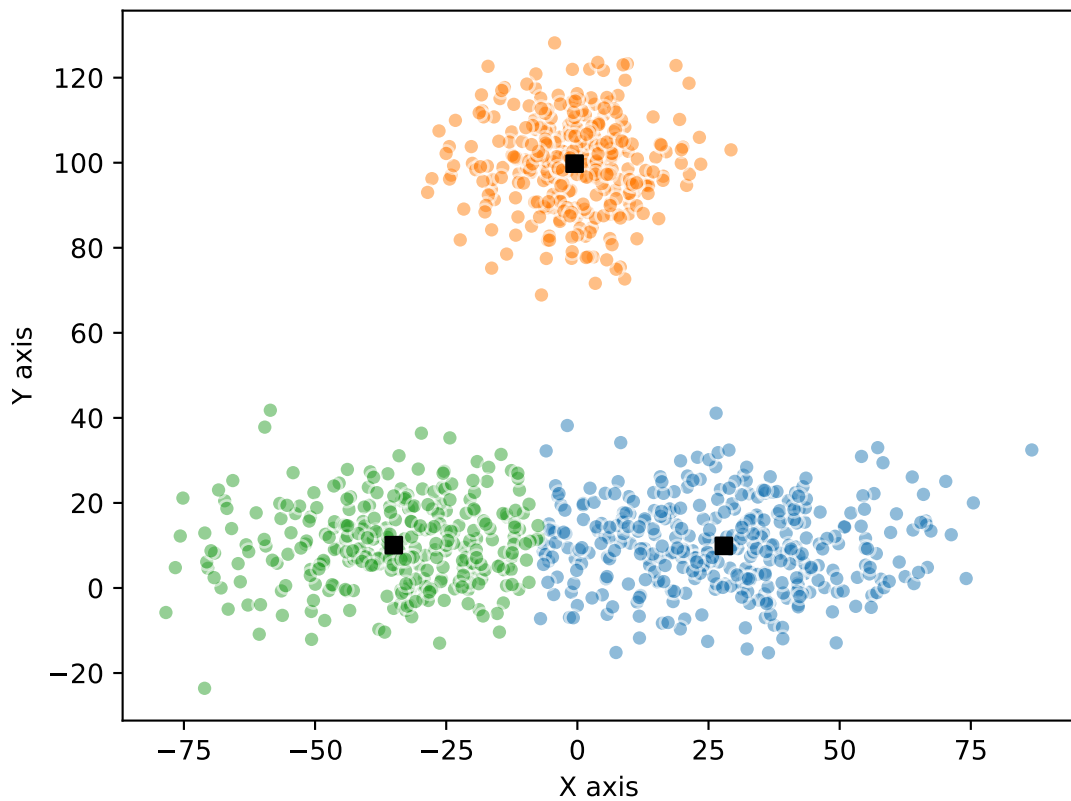


# Iteration 2

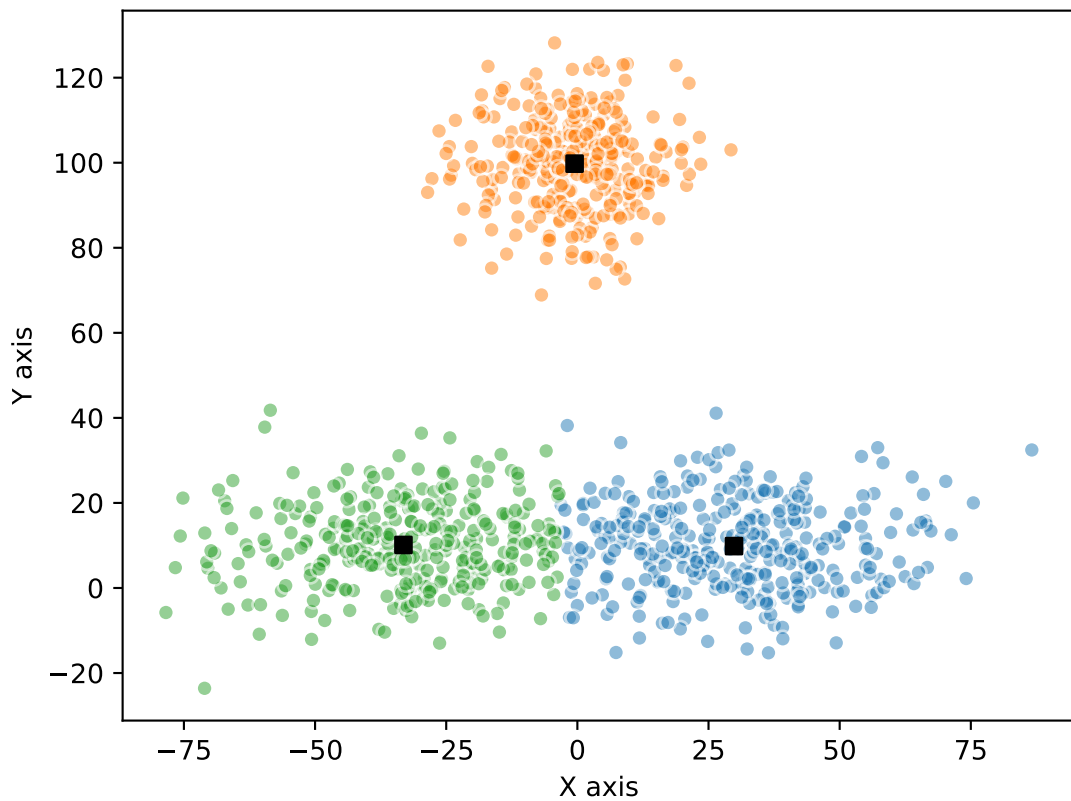




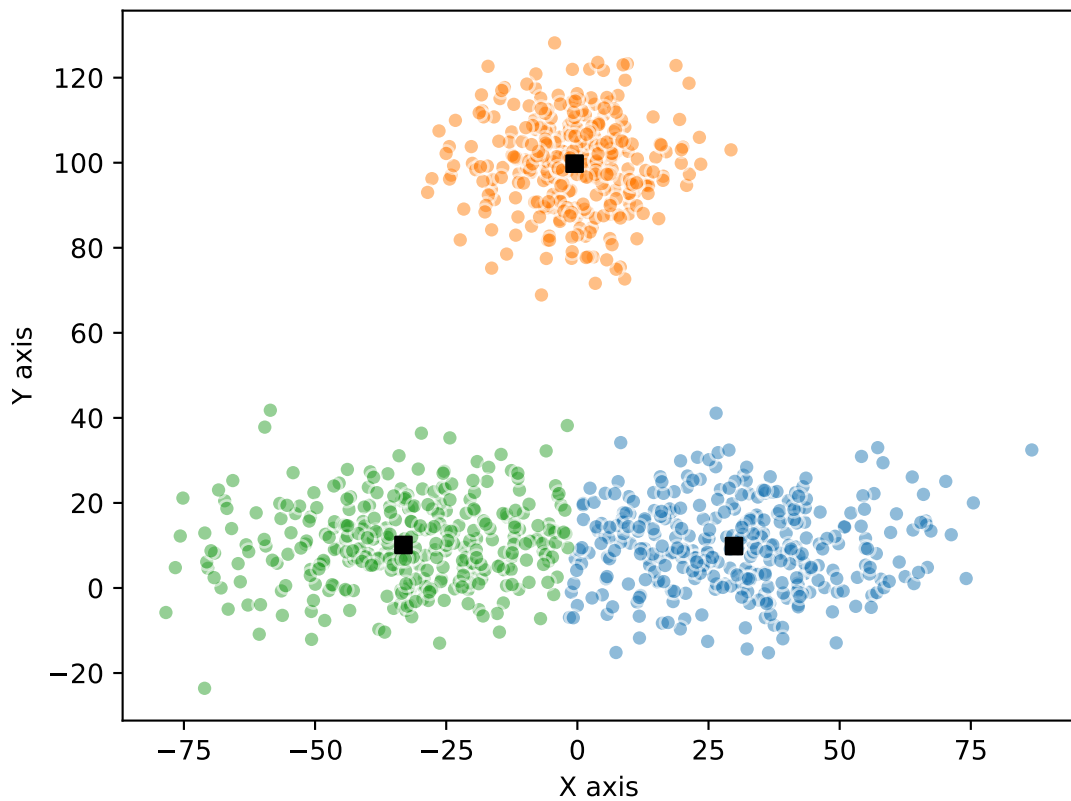
# Iteration 3



# Iteration 4

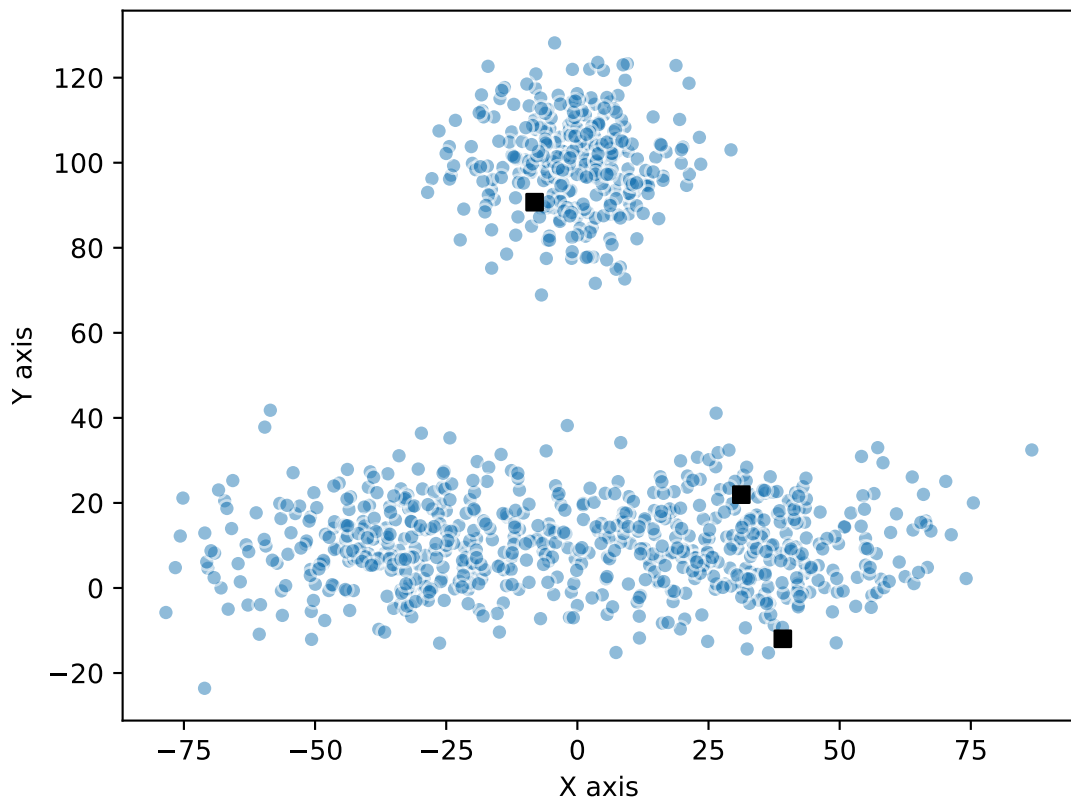


# Iteration 5

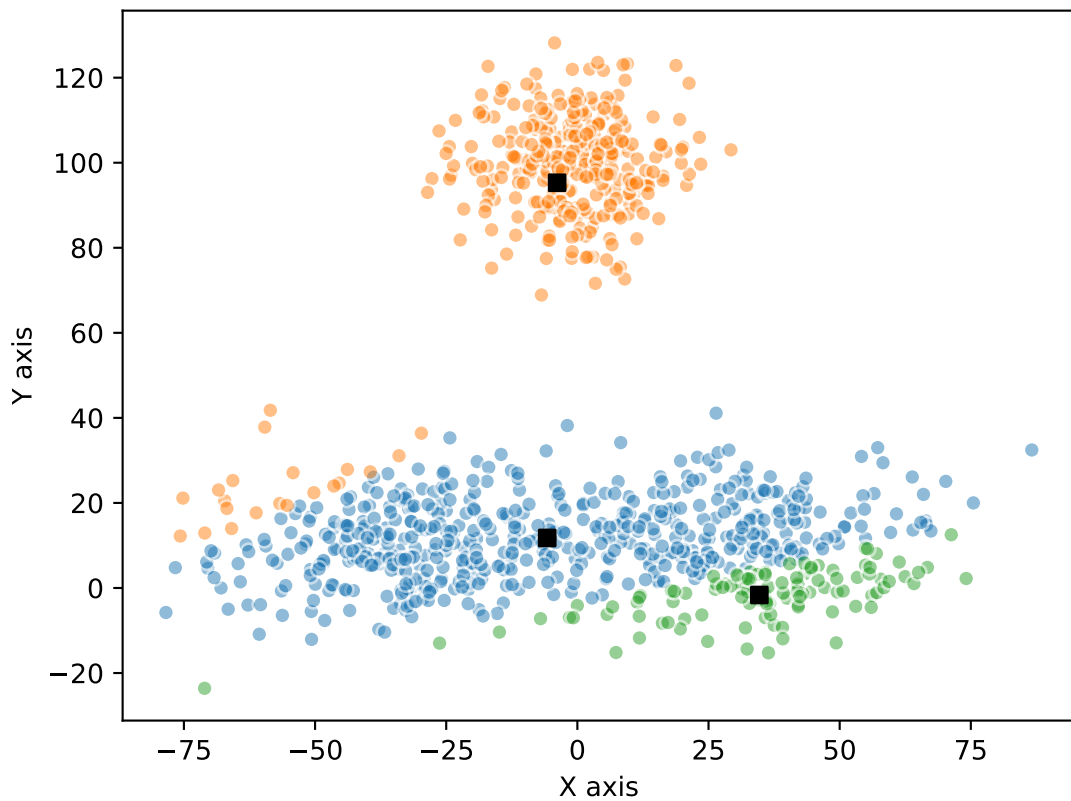


Running K-means for  $N = 8$

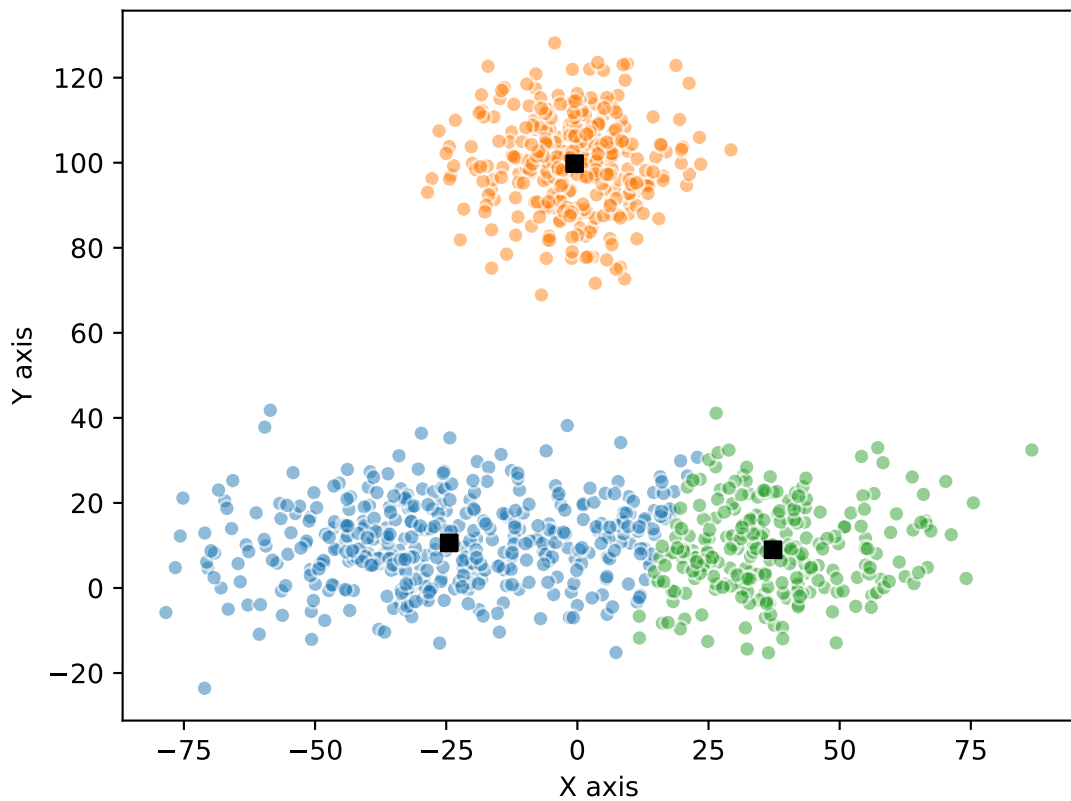
# Iteration 0



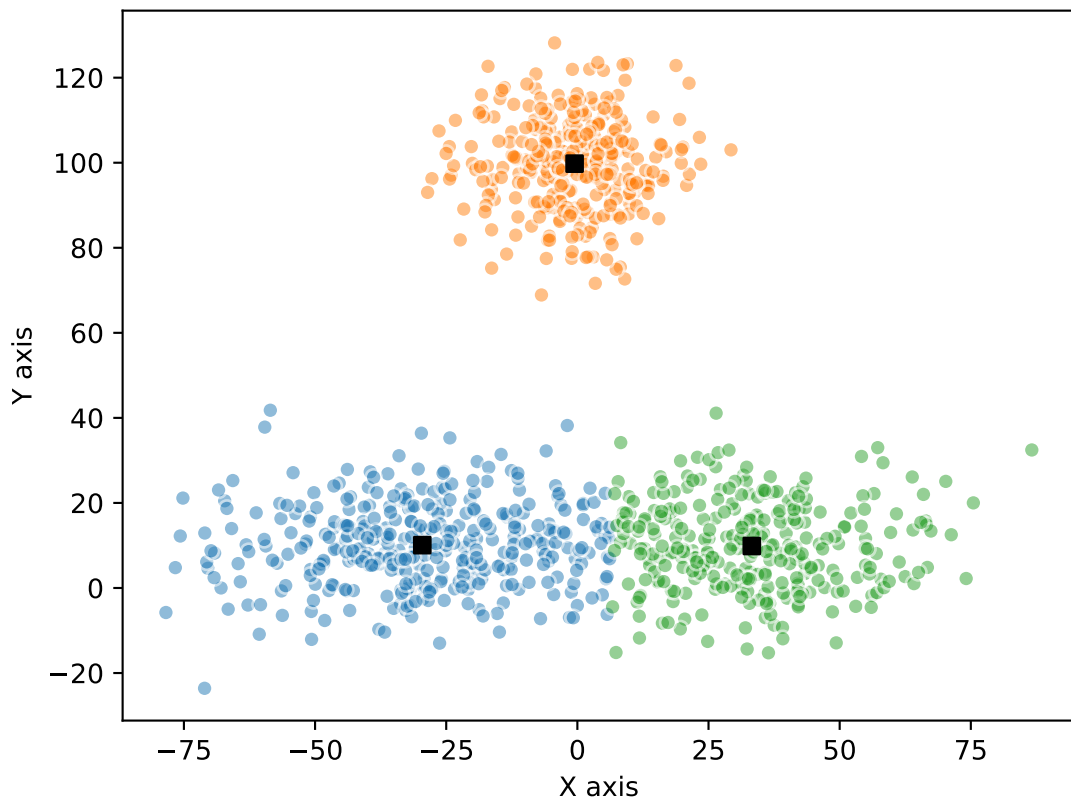
# Iteration 1



# Iteration 2

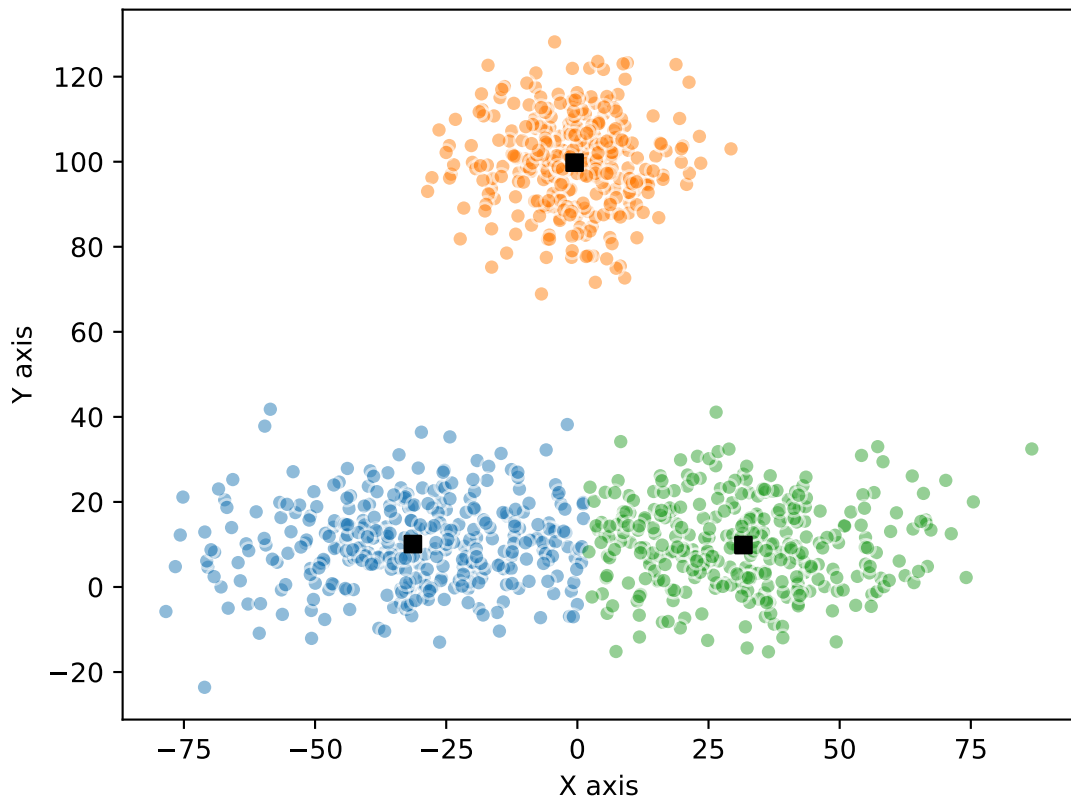


# Iteration 3

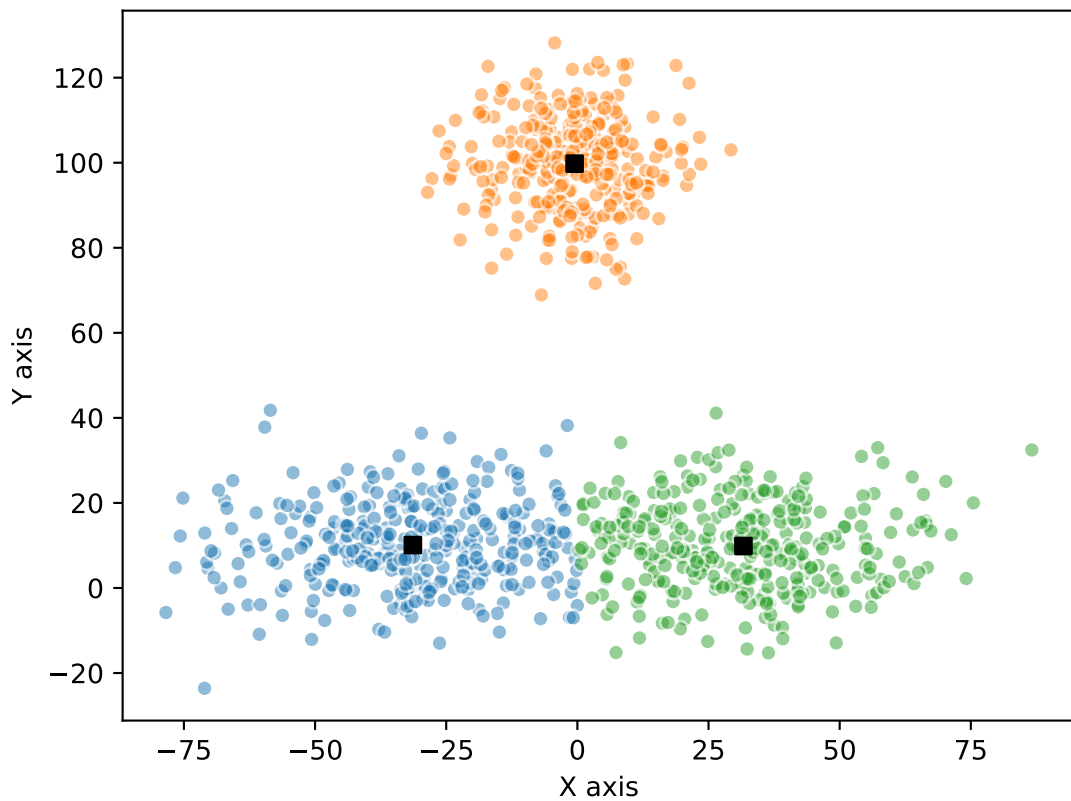




# Iteration 4

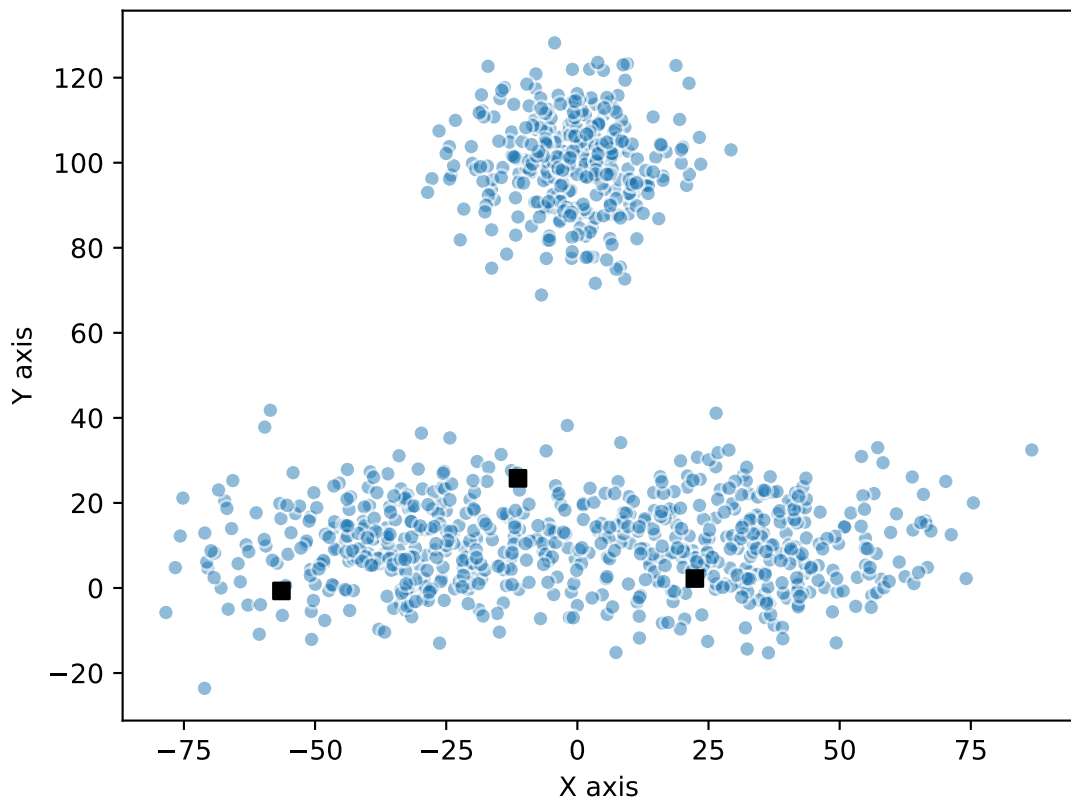


# Iteration 5

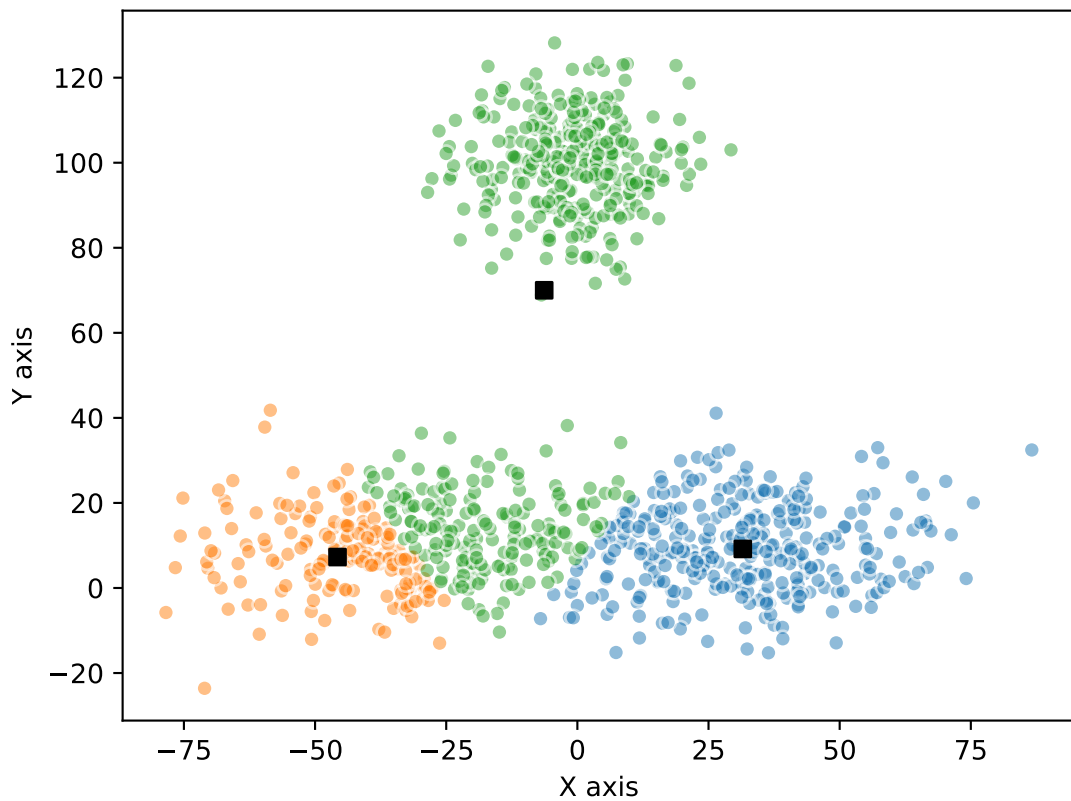


Running K-means for  $N = 9$

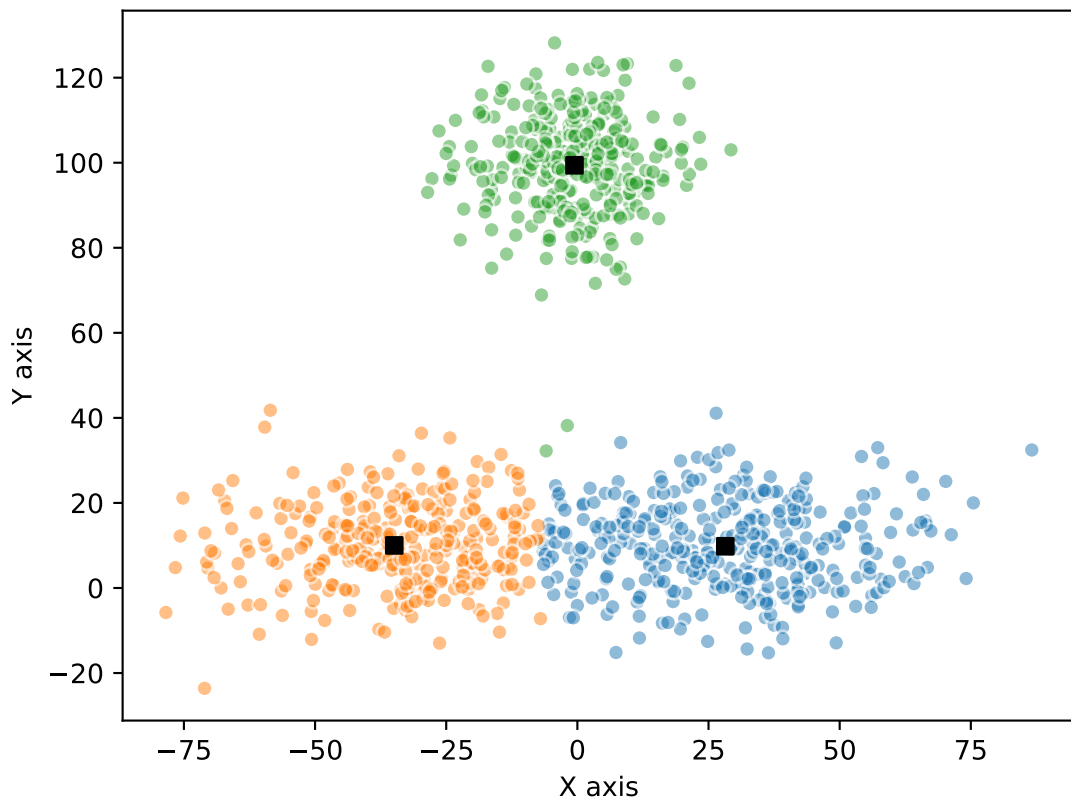
# Iteration 0



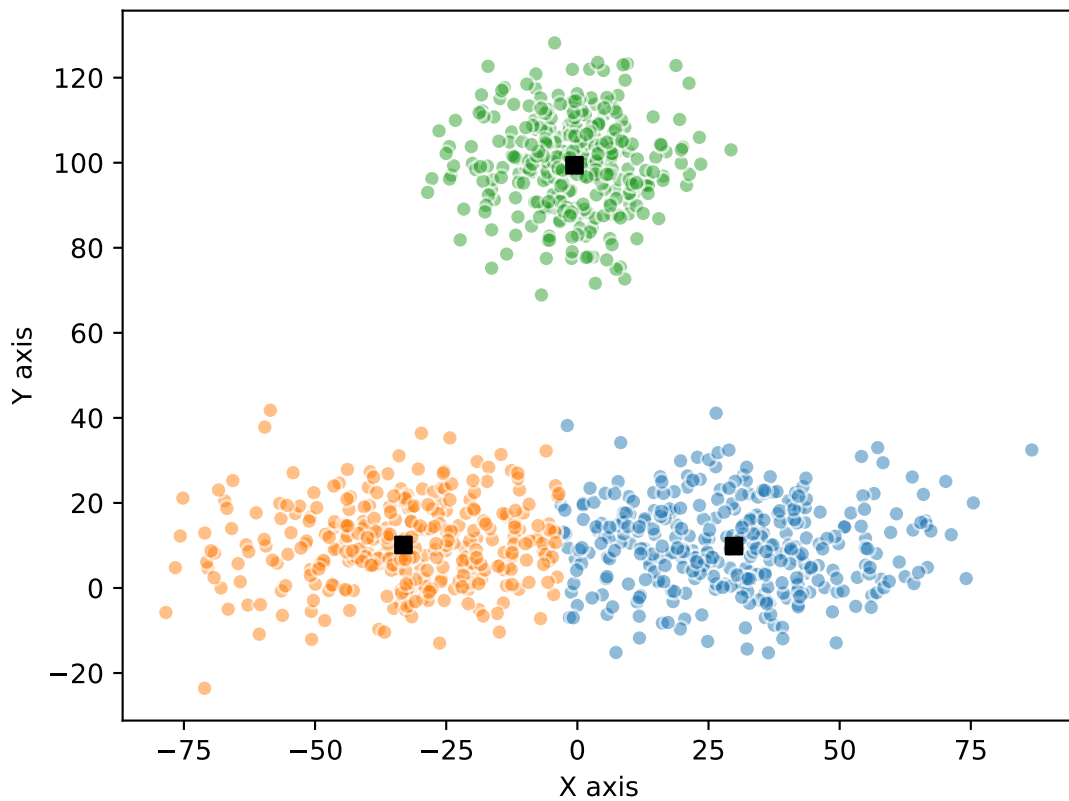
# Iteration 1



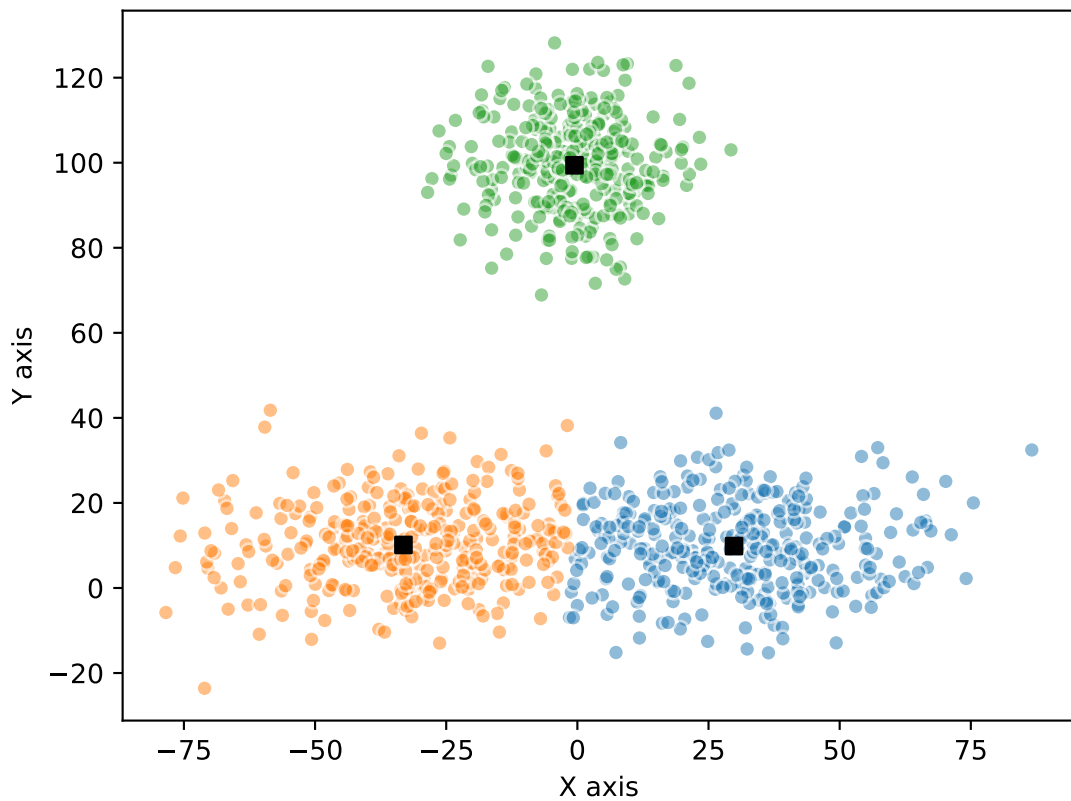
# Iteration 2



# Iteration 3



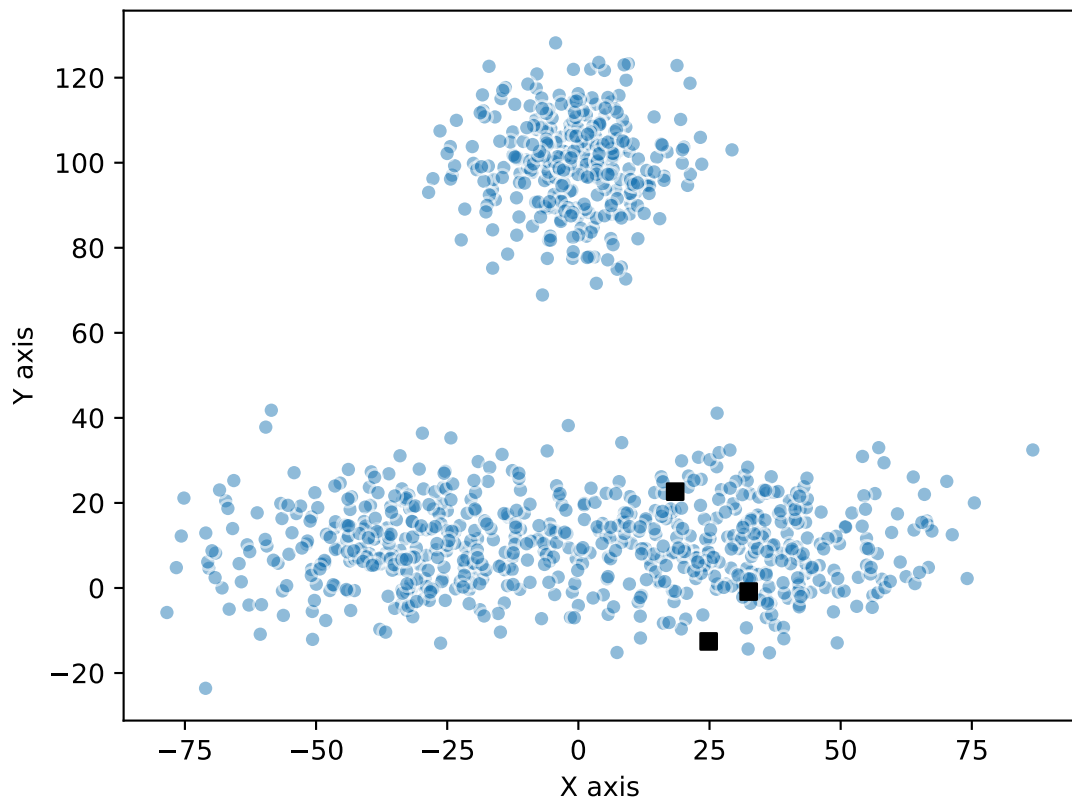
# Iteration 4



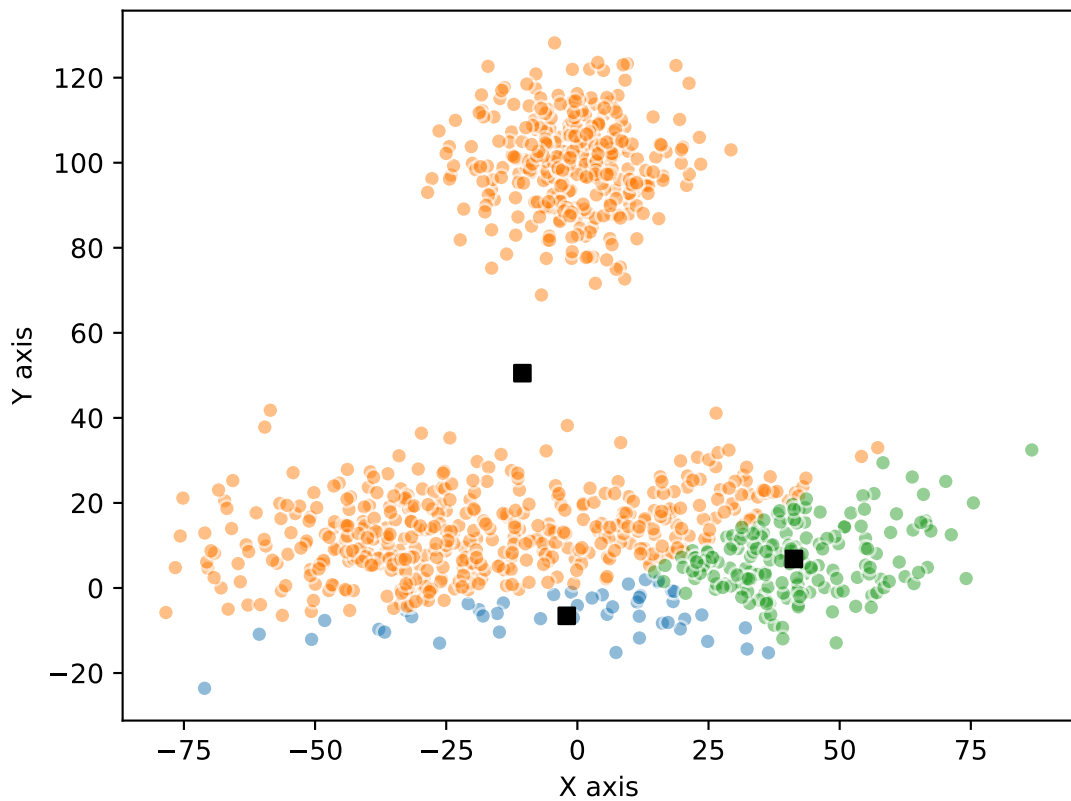


Running K-means for  $N = 10$

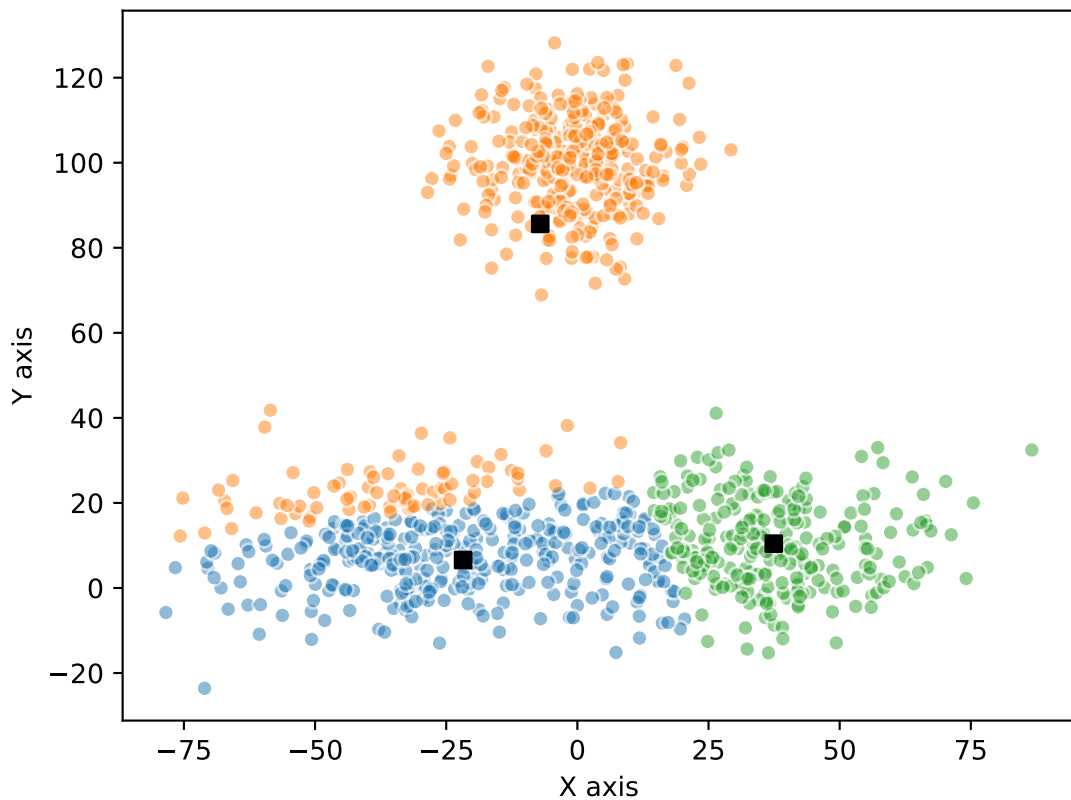
# Iteration 0



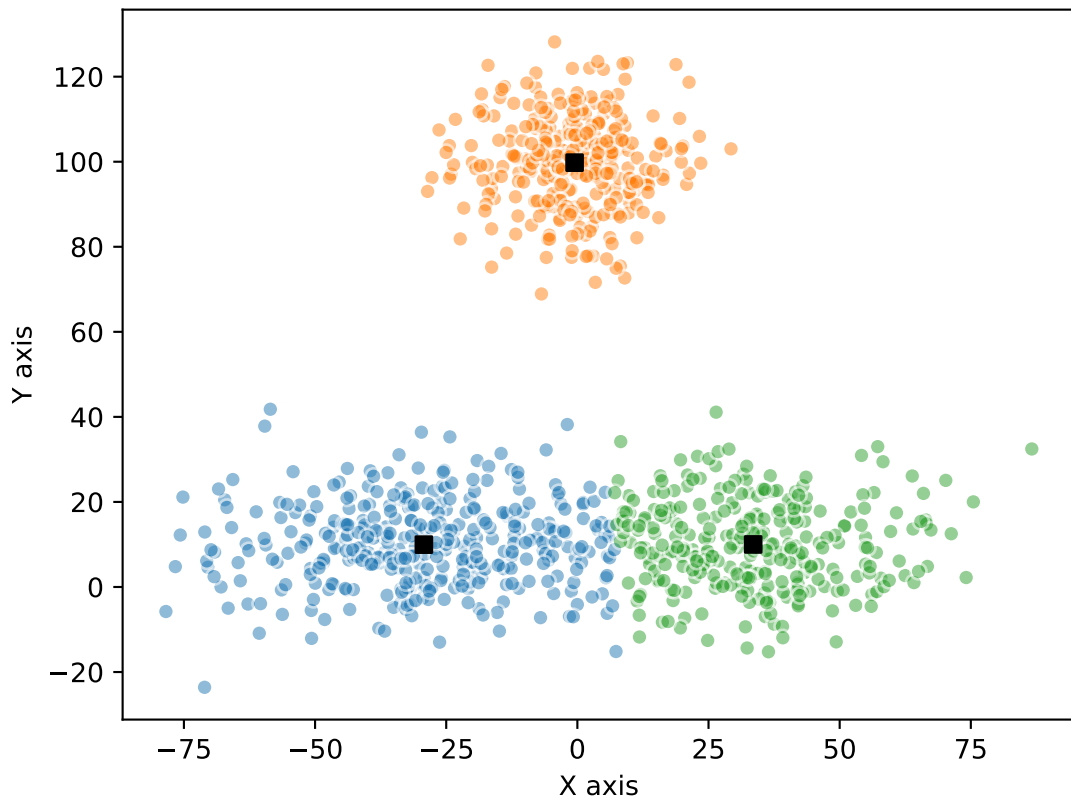
# Iteration 1



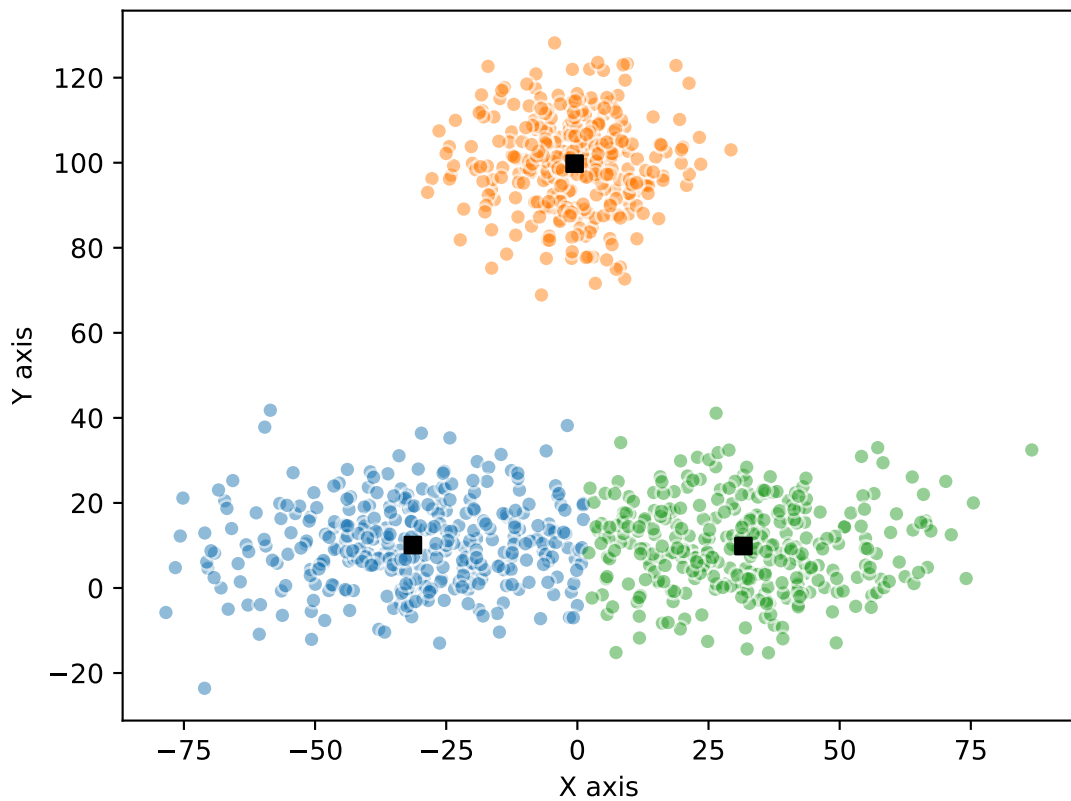
# Iteration 2



# Iteration 3



# Iteration 4



# Iteration 5

