Sci Kit Learn:

* Knn.fit(x,y) will fit with data
* Knn = KneighborsClassifier(n\_neighbors=k)
* Knn.predict predict for a new observation
* Minkowski is a fancy term for Euclidean principle
* You can put 2 different lists to return 2 different lists
* Knn.predict\_proba returns the probability it is each prediction
  + X nearest neighbors / n\_neighbors
* Knn.kneighbors tells you which were the nearest neighbors and the distance
* Knn.score returns the accuracy of your prediction
  + # correct predictions / # of rows
* SHOULD NOT fit and score the same data set

Voranoy diagram – neighborhood classification diagram

Seaborn

* Used for bias/variance tradeoff

If you have high variance, you are more likely to screw up out of sample data