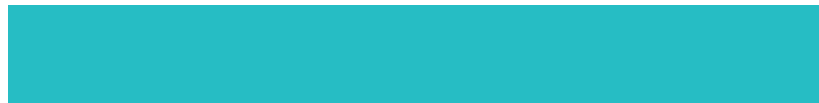


Support Vector Machine

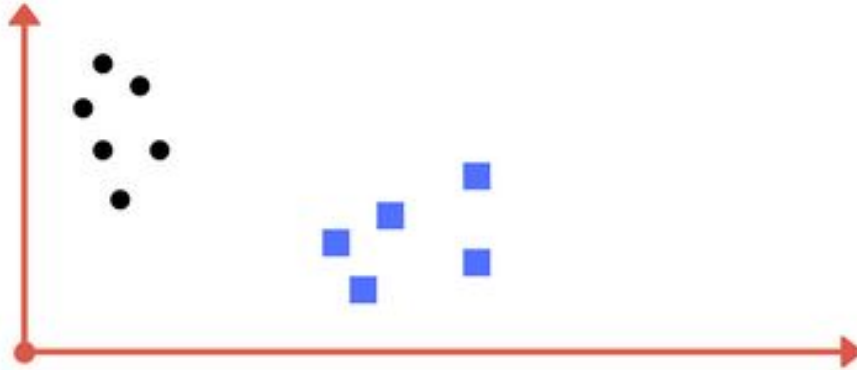


Produced by Princeton University for AI4ALL

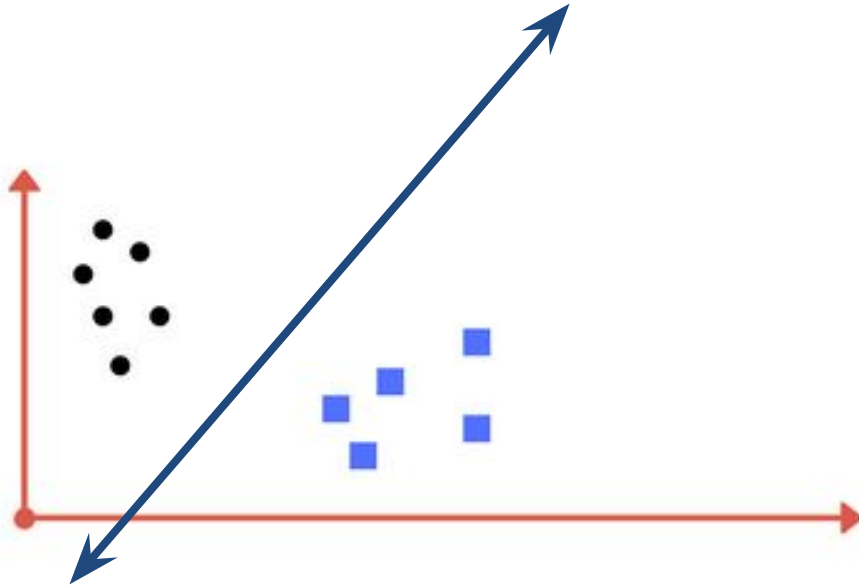


SVM

- Supervised learning (given labeled data)
- Classifier defined by hyperplane

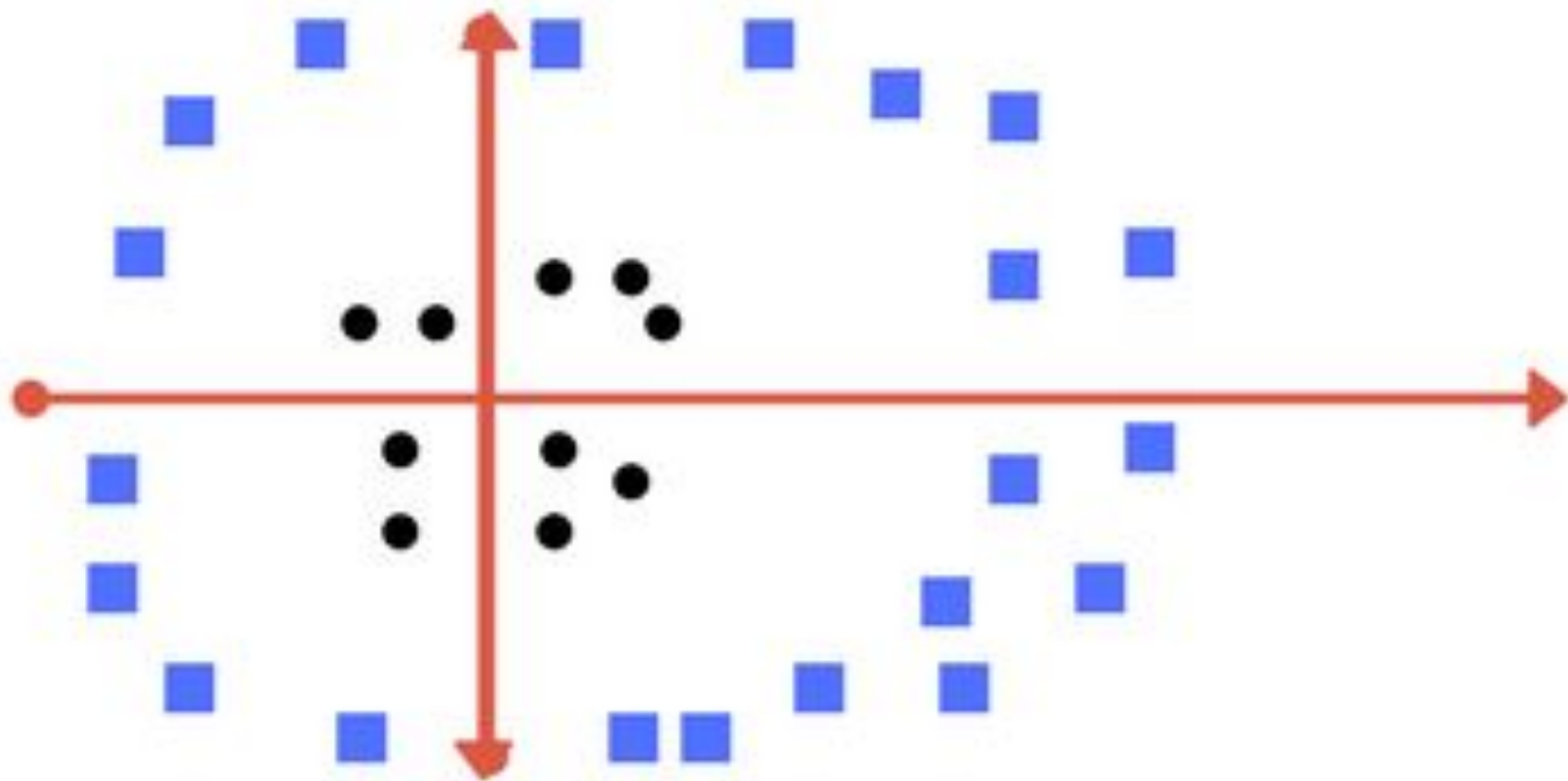


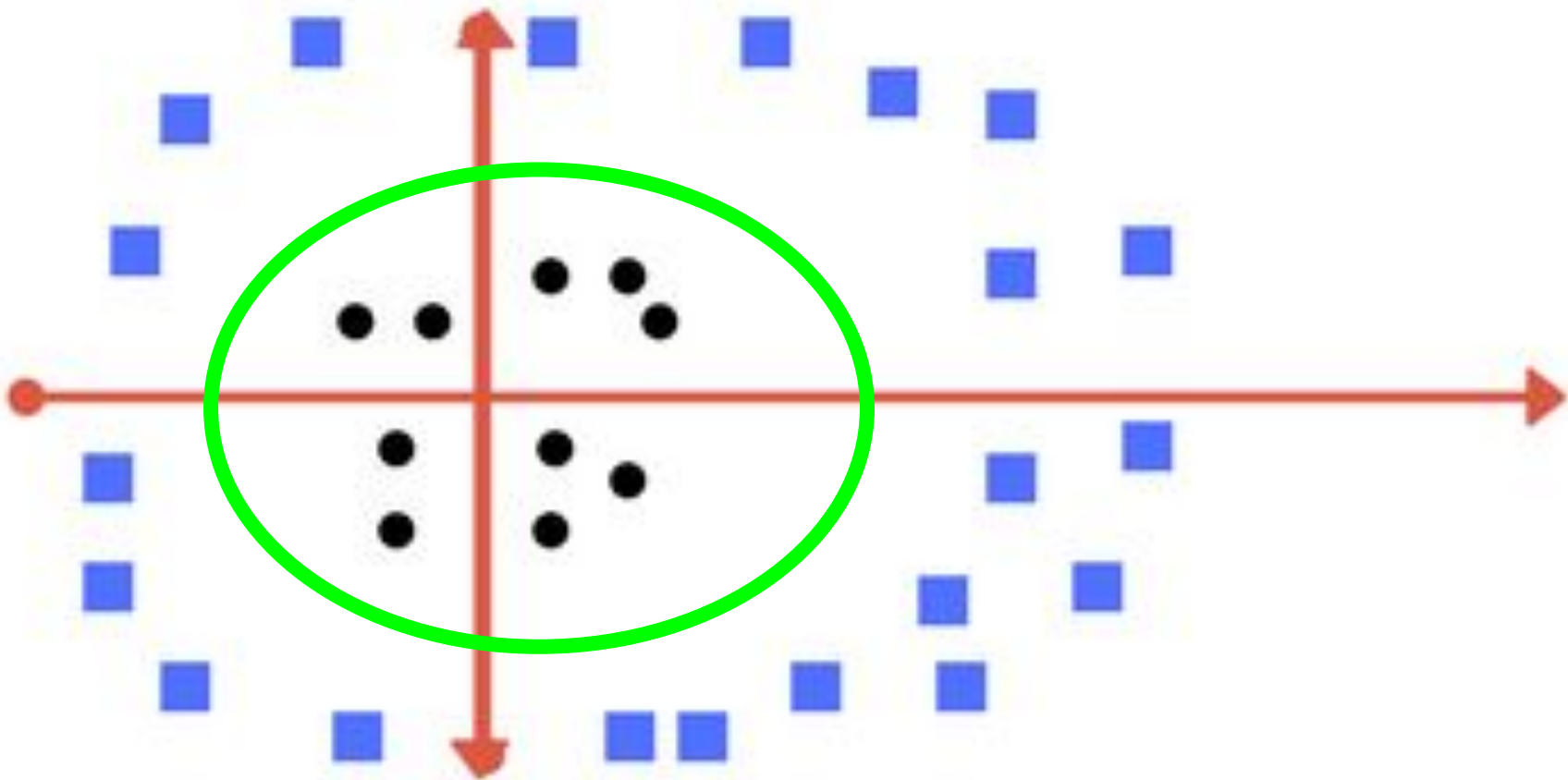
SVM

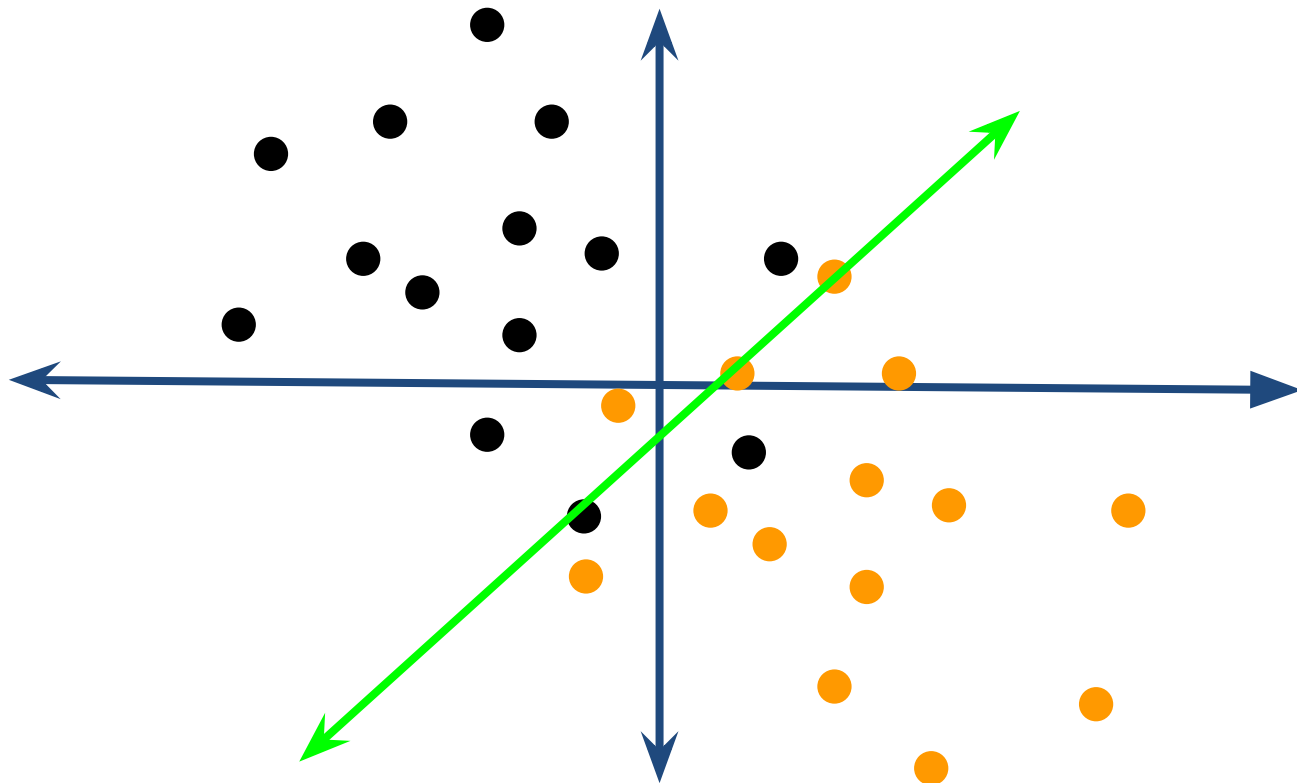


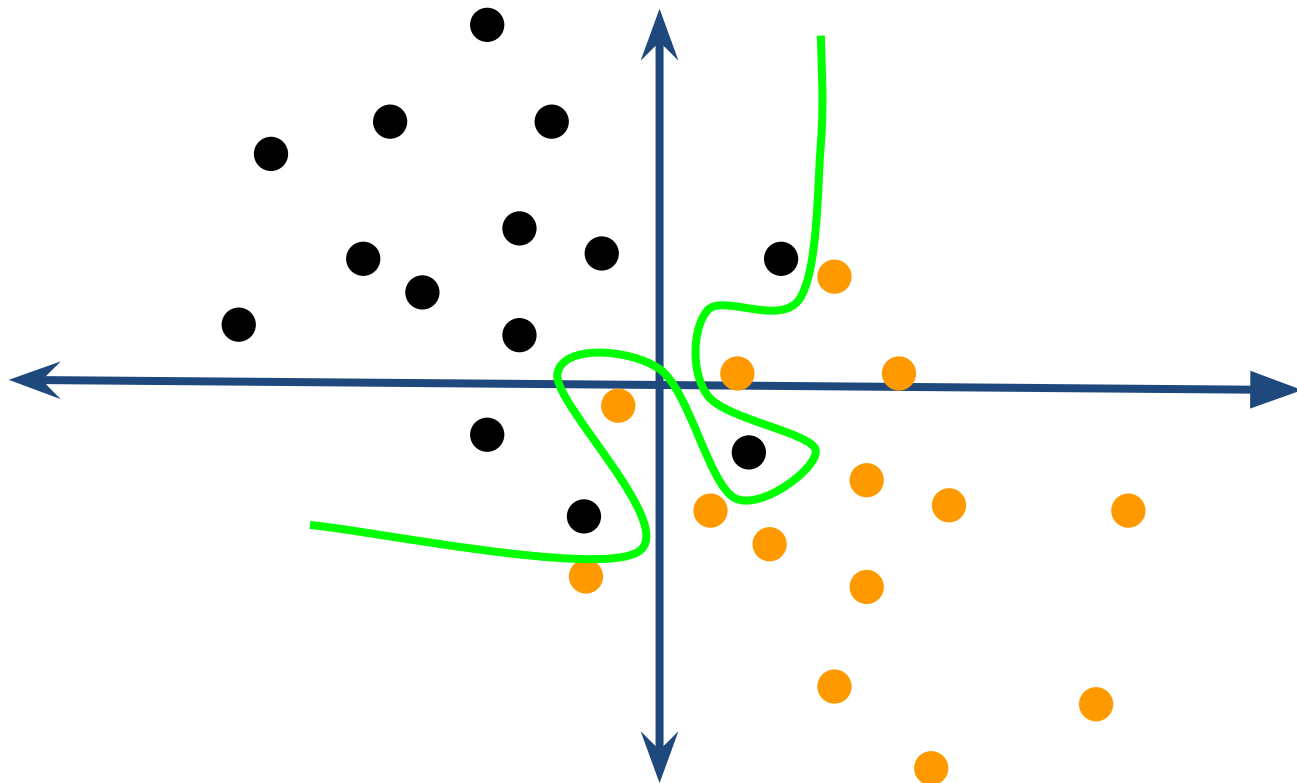
Where might you see this in real life?

- Bioinformatics
 - Tumor classification
 - Precision medicine
- Handwriting recognition
- Image classification

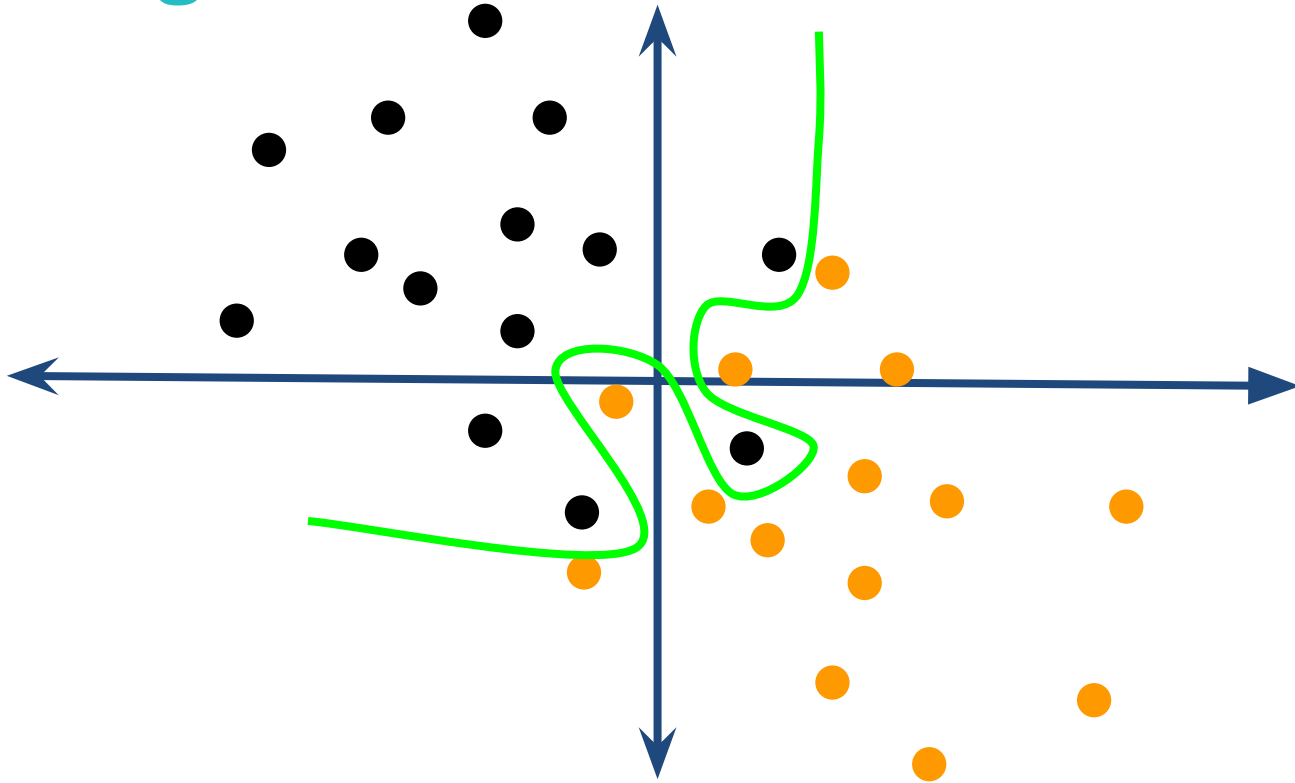




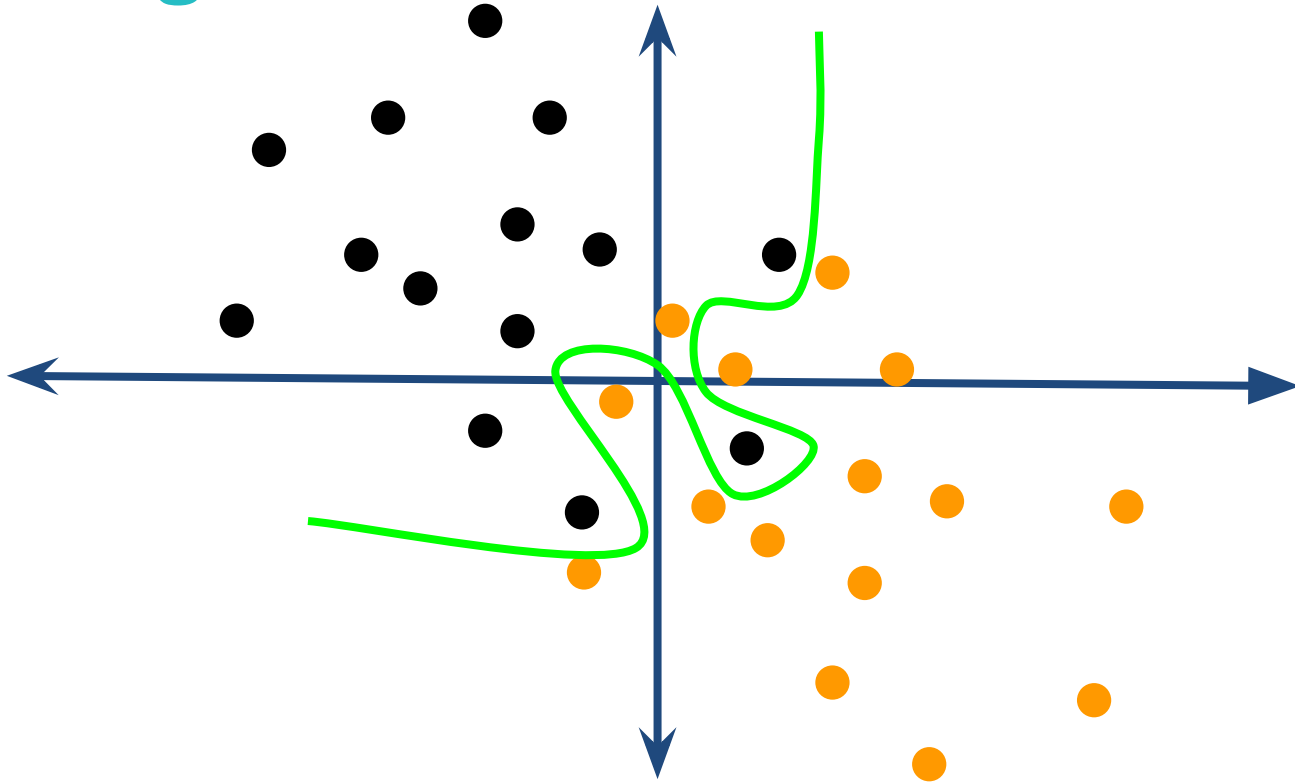




Overfitting



Overfitting



Python Package

`from sklearn import svm`

