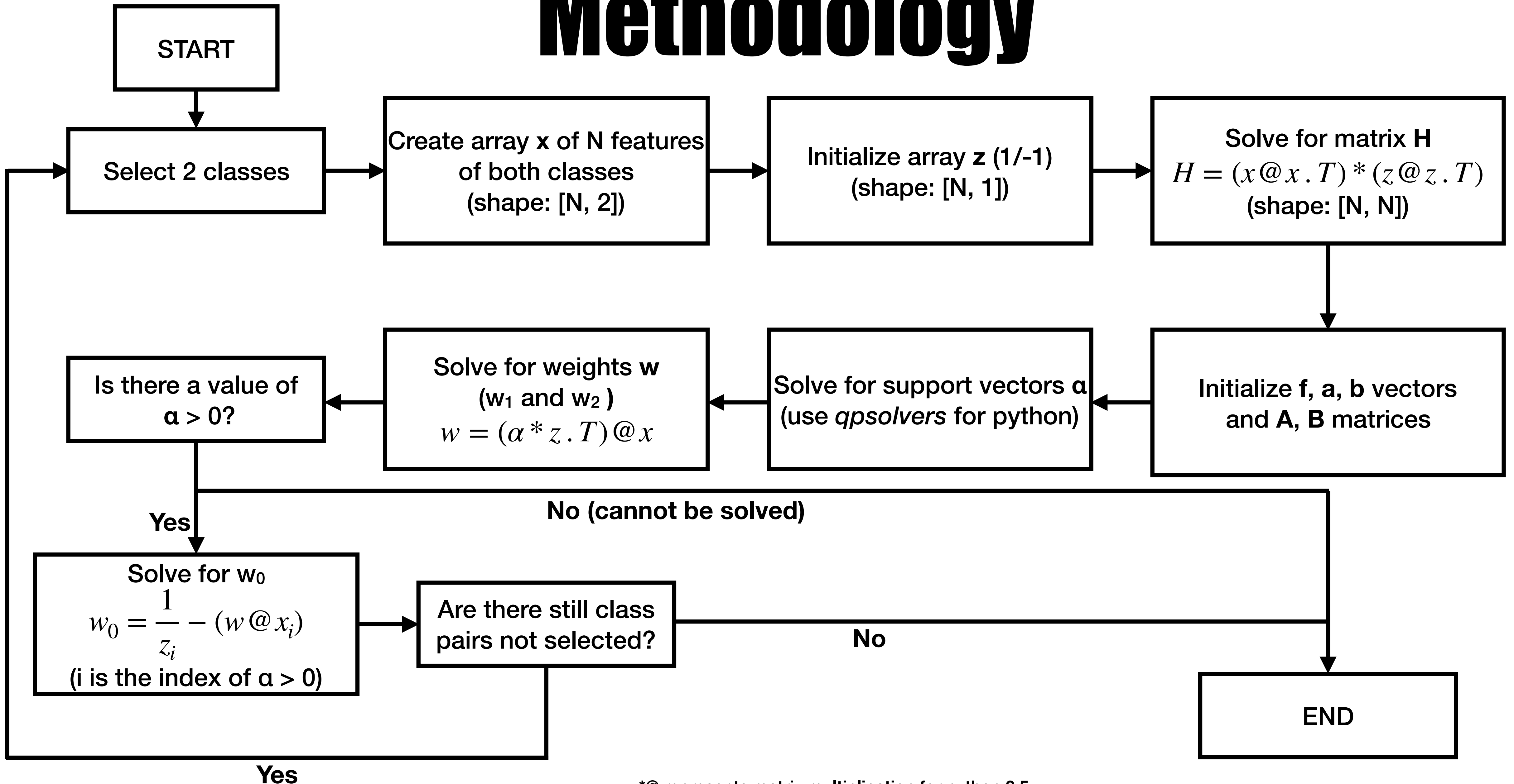


Support Vector Machine (SVM)

Kenneth M. Leo

Score: 11/10

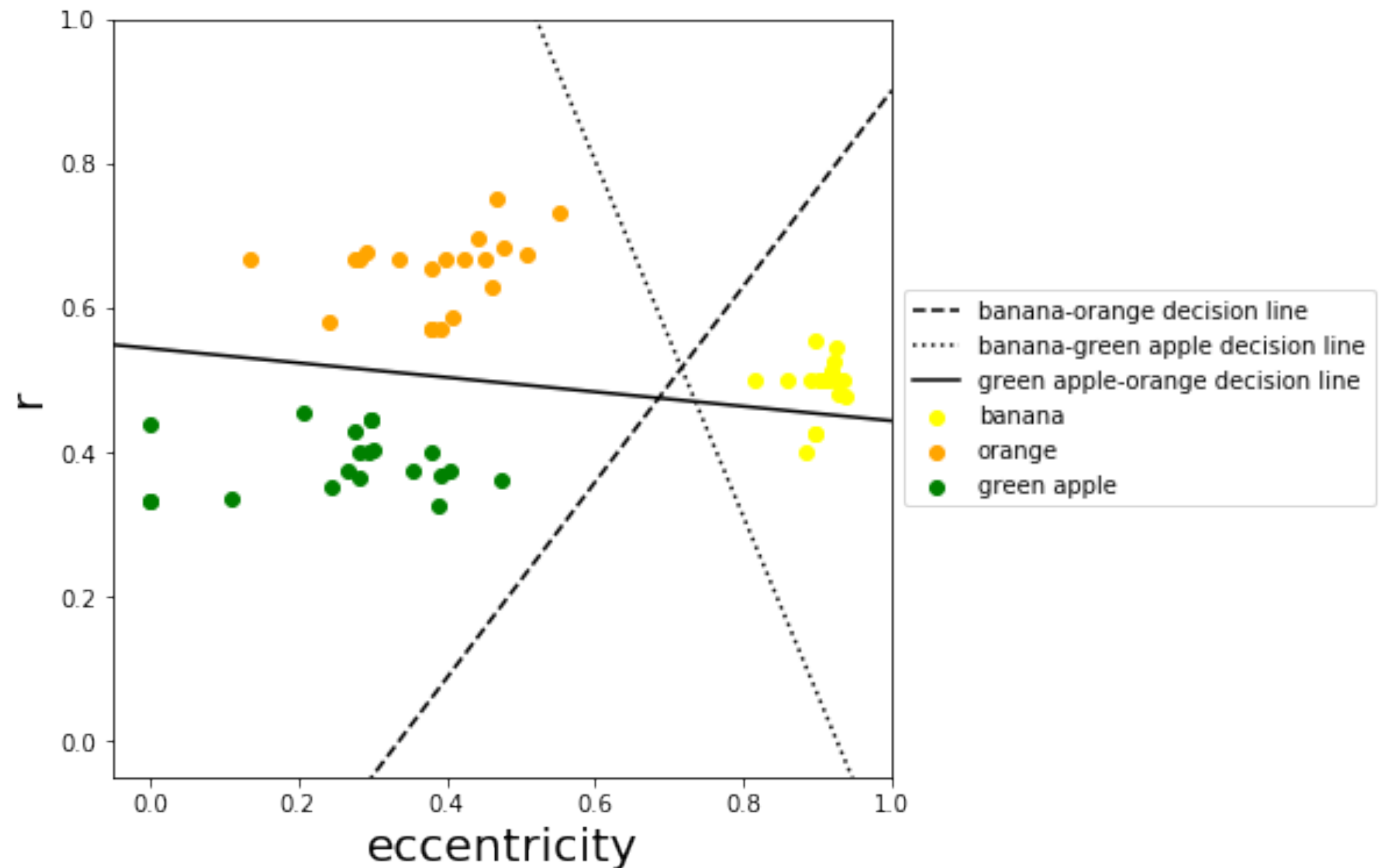
Methodology



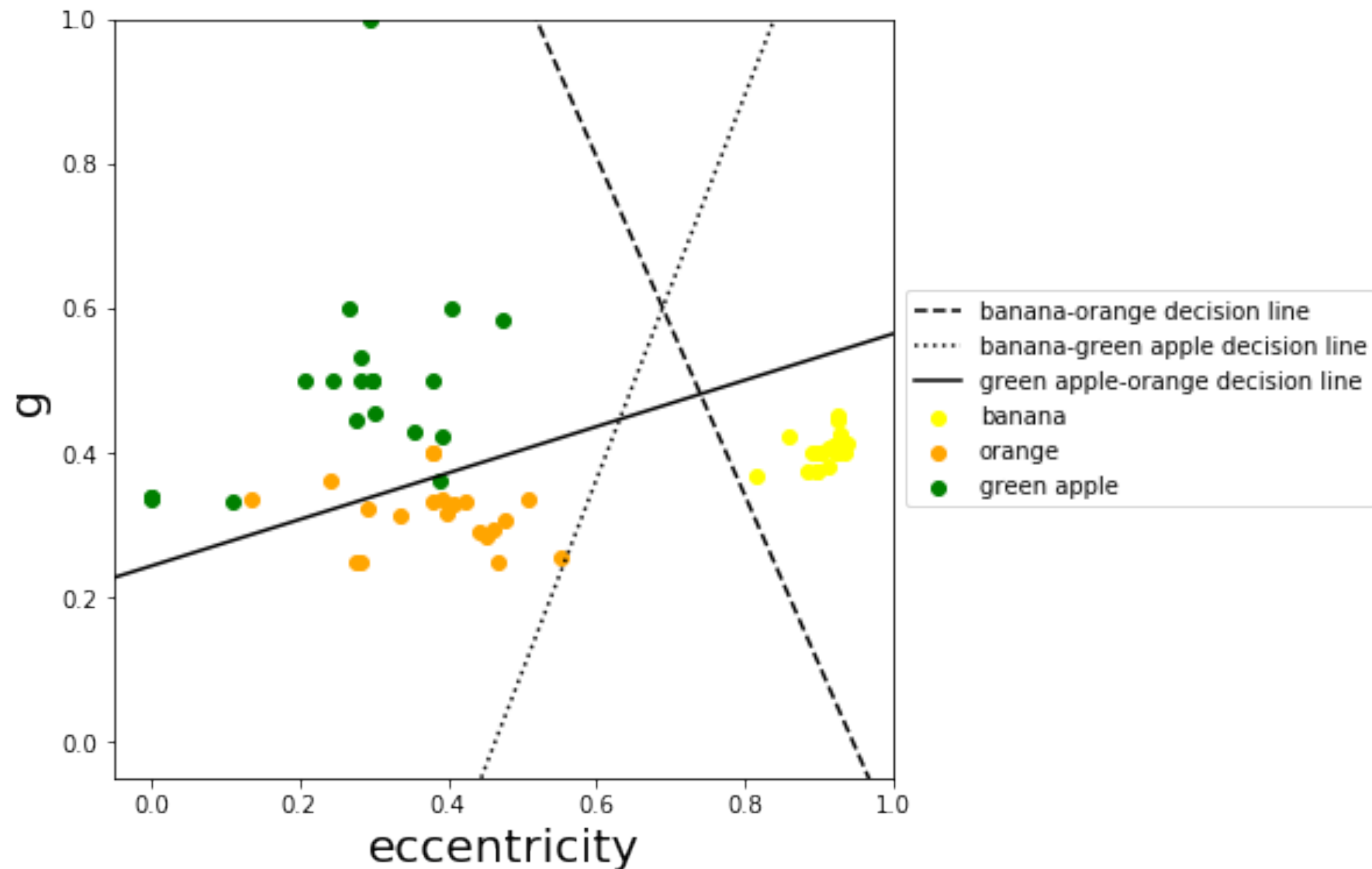
*@ represents matrix multiplication for python 3.5+

Results and Discussion

The figure on the left shows the scatter plots of the 3 classes and I have and the decisions lines I have computed using SVM. Since the three classes are obviously separable just by looking at them, the decision lines created are accurate. We can see that the decision lines are successful in separating the two classes that they should separate.



Results and Discussion



Results and Discussion

For this third plot, the green apple-orange decision line is wrong. This is probably because the two classes have more data points mixing compared to the previous one.

