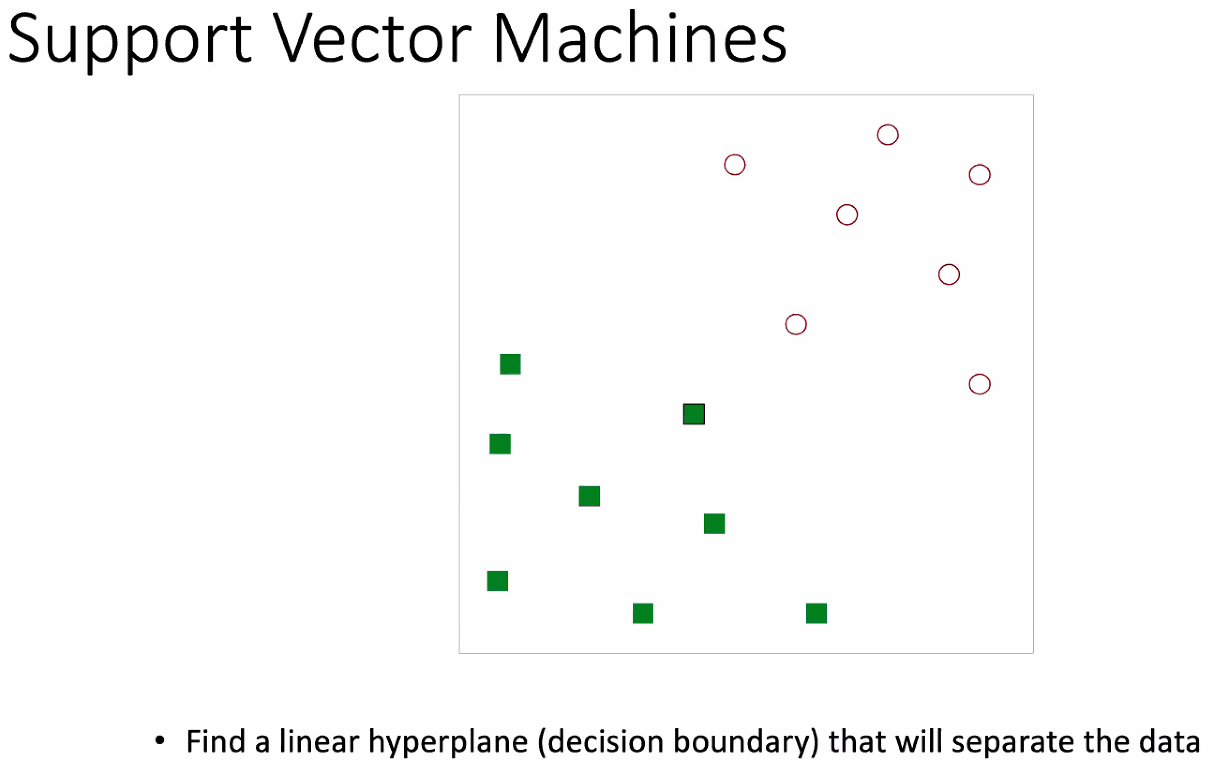
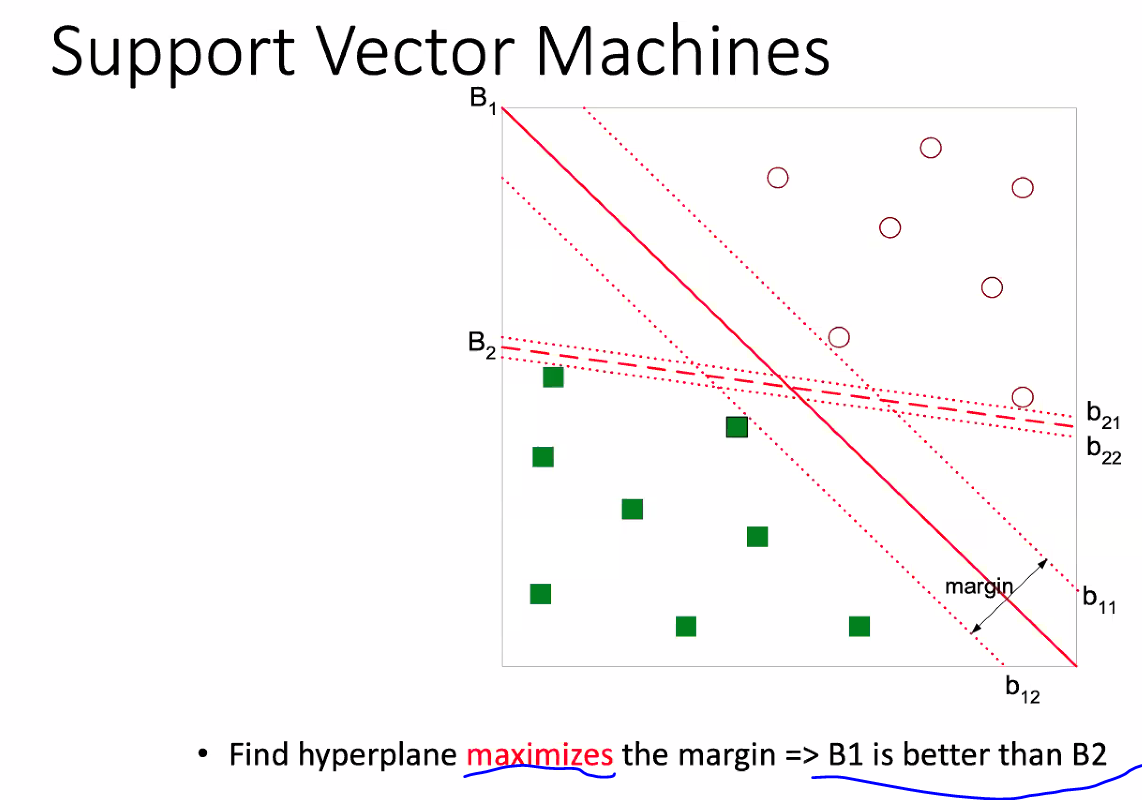
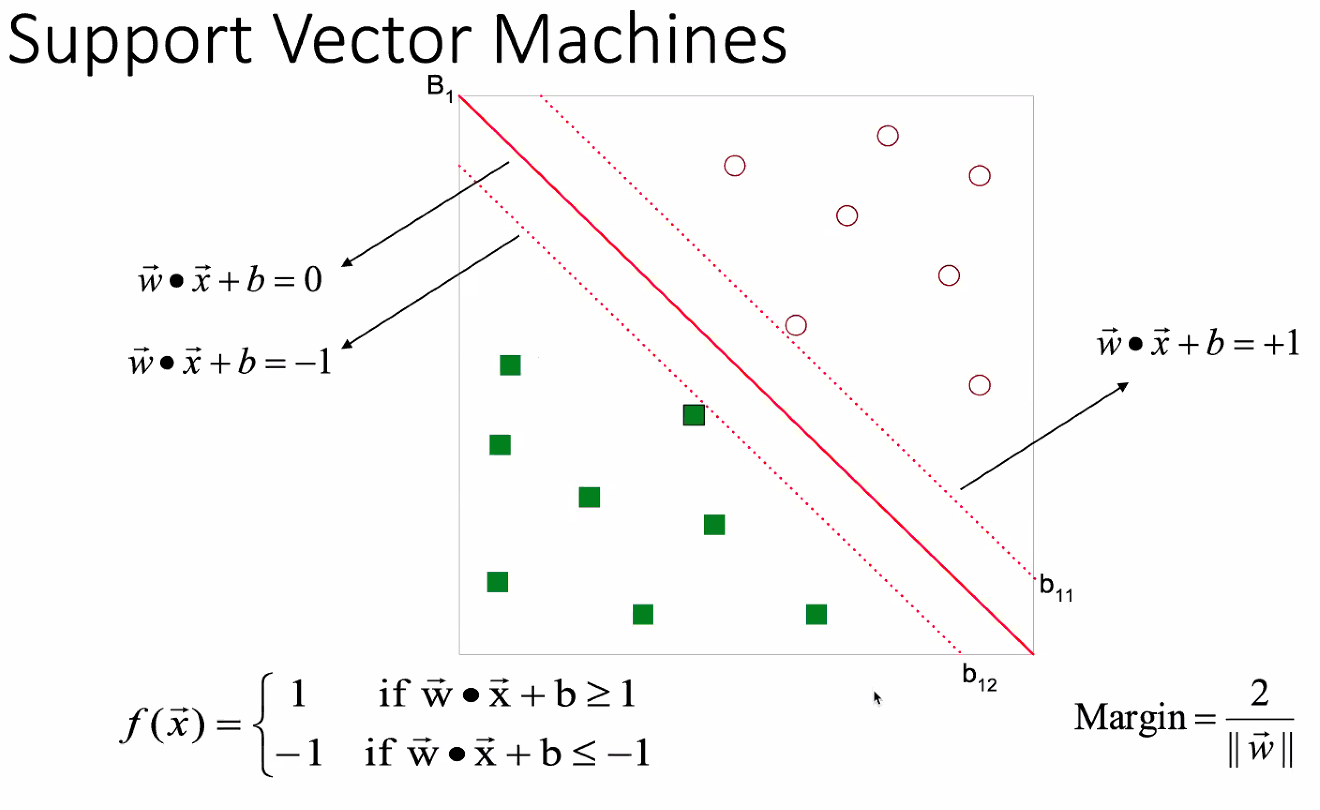
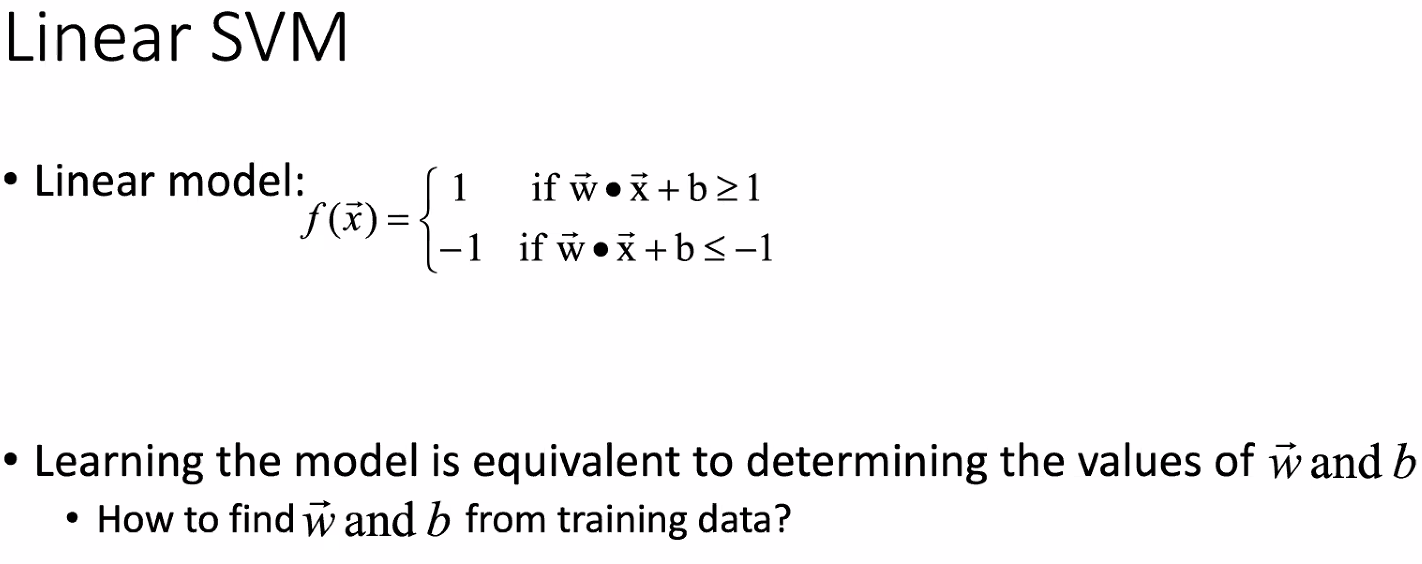
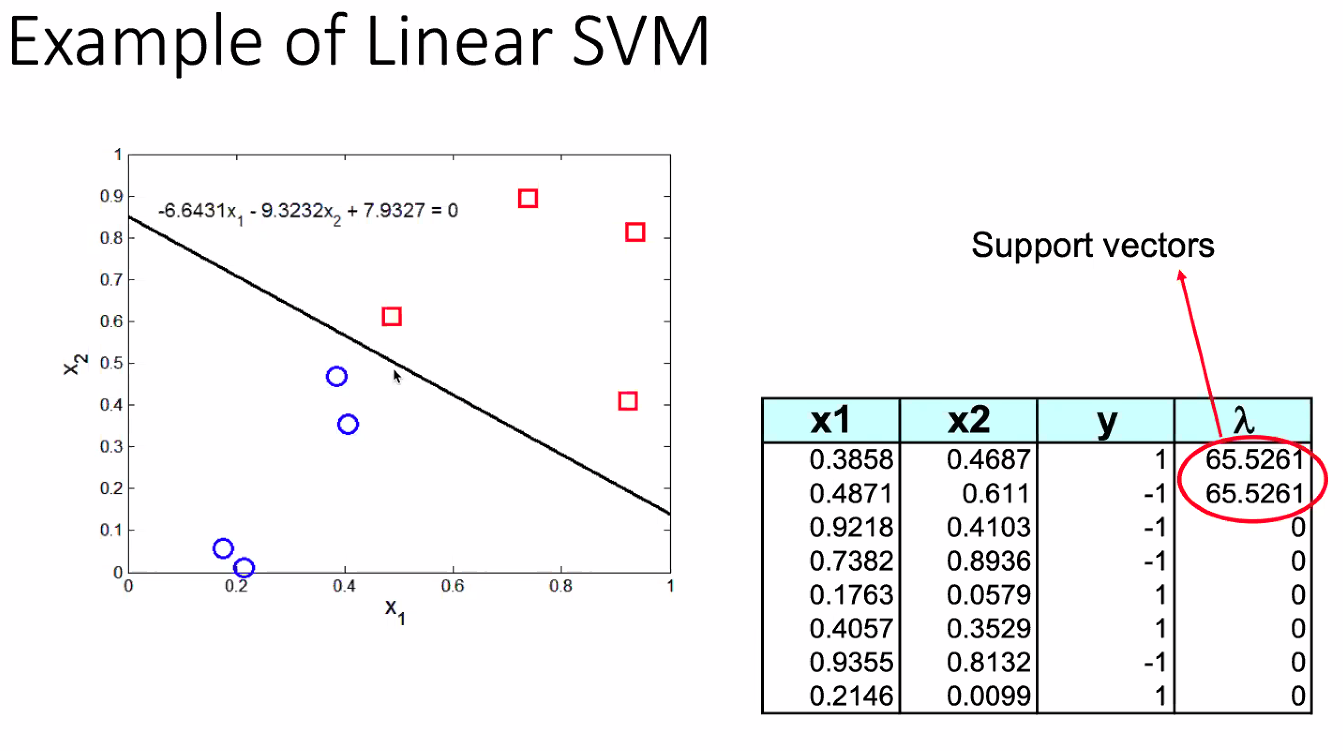
Support Vector Machines



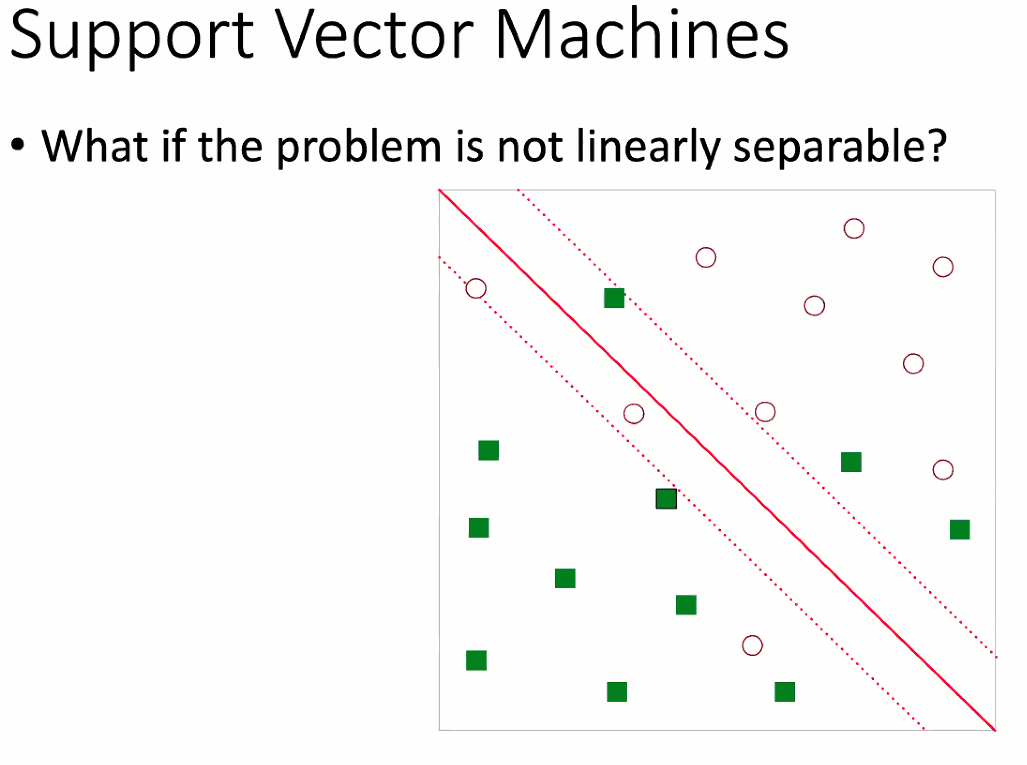


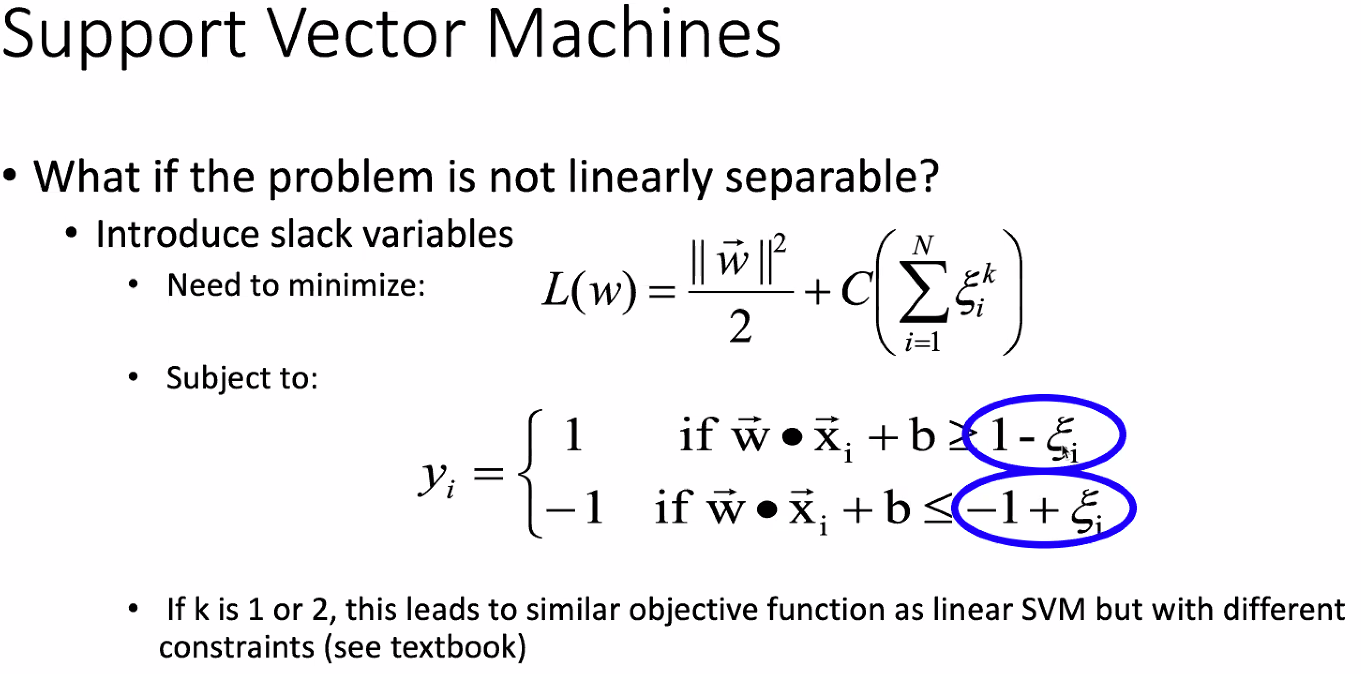






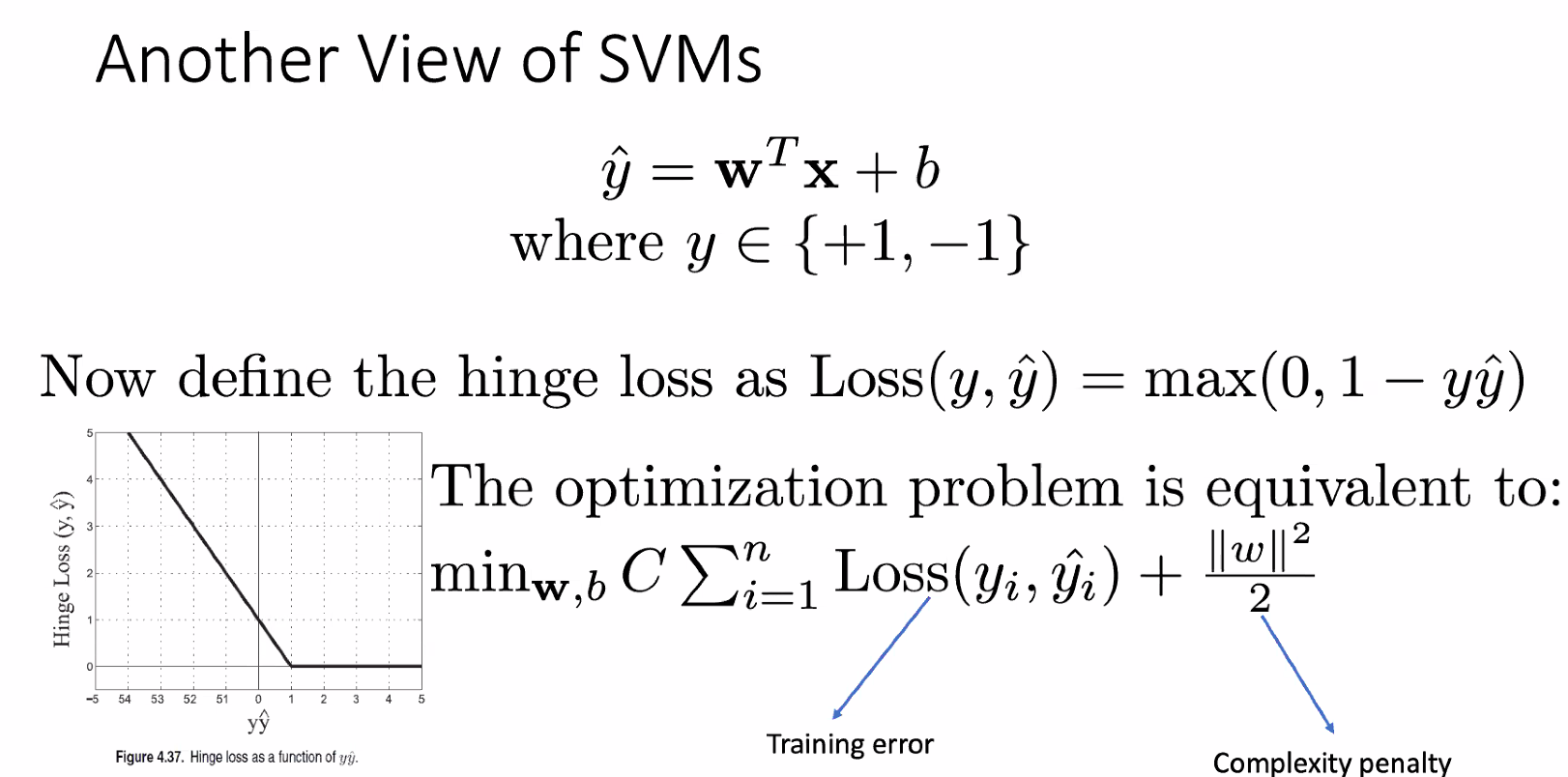
Given the data points, the decision line maximizes the distance if we add a data point outside the margin, would that change the decision boundary? No since it is behind the margin. And classification would remain correct. Would not affect the decision boundary.

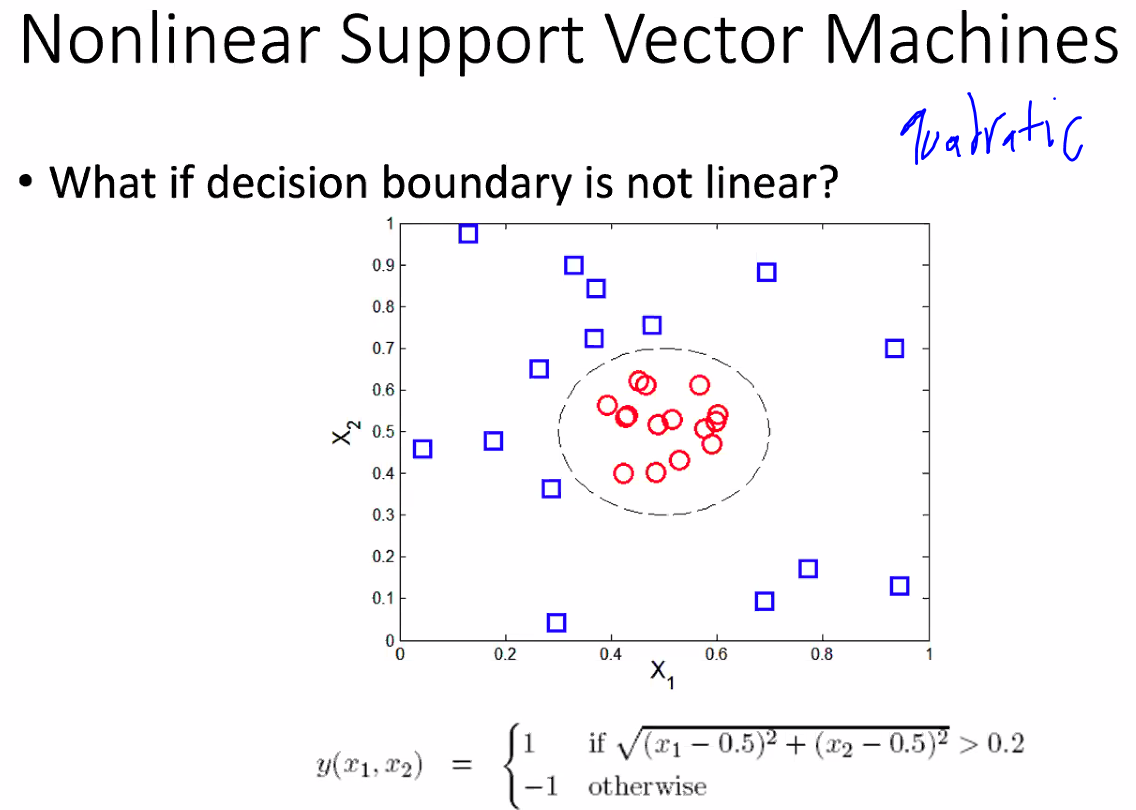


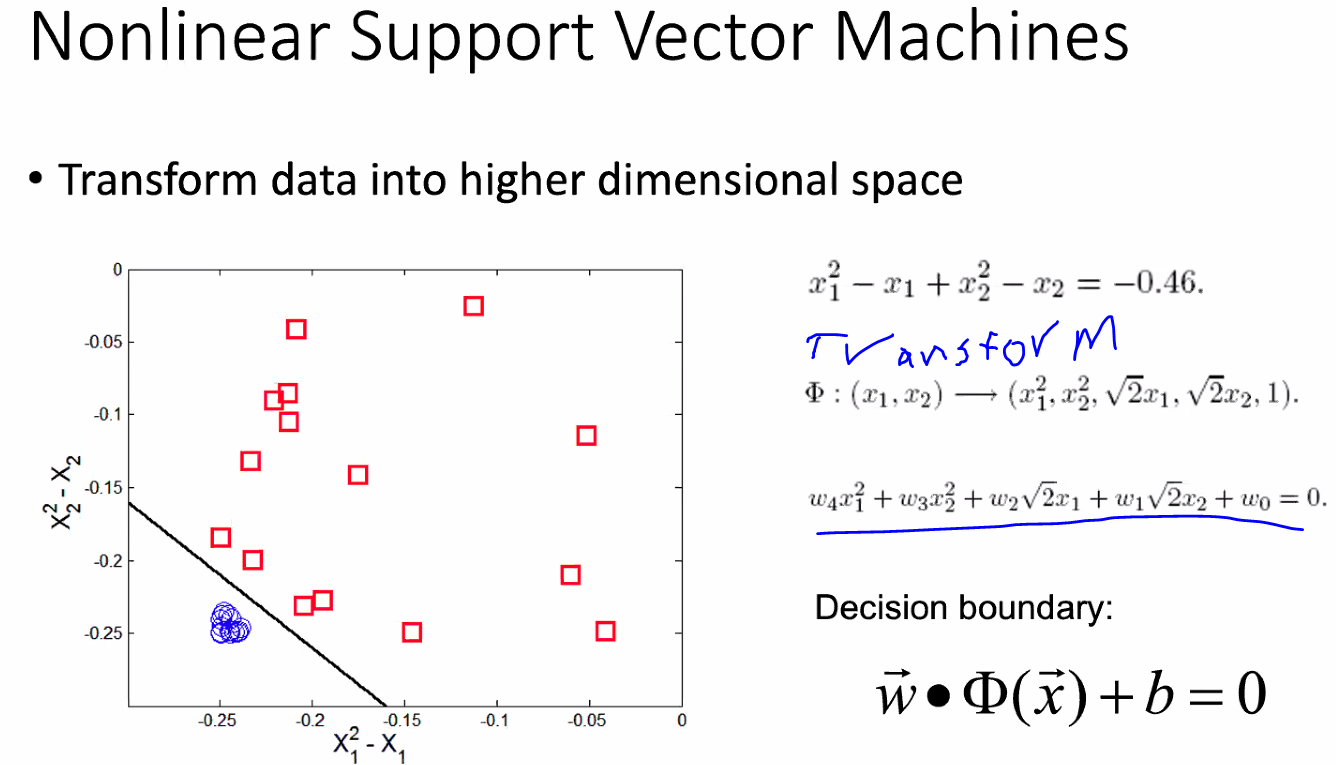


Higher C care more about training error

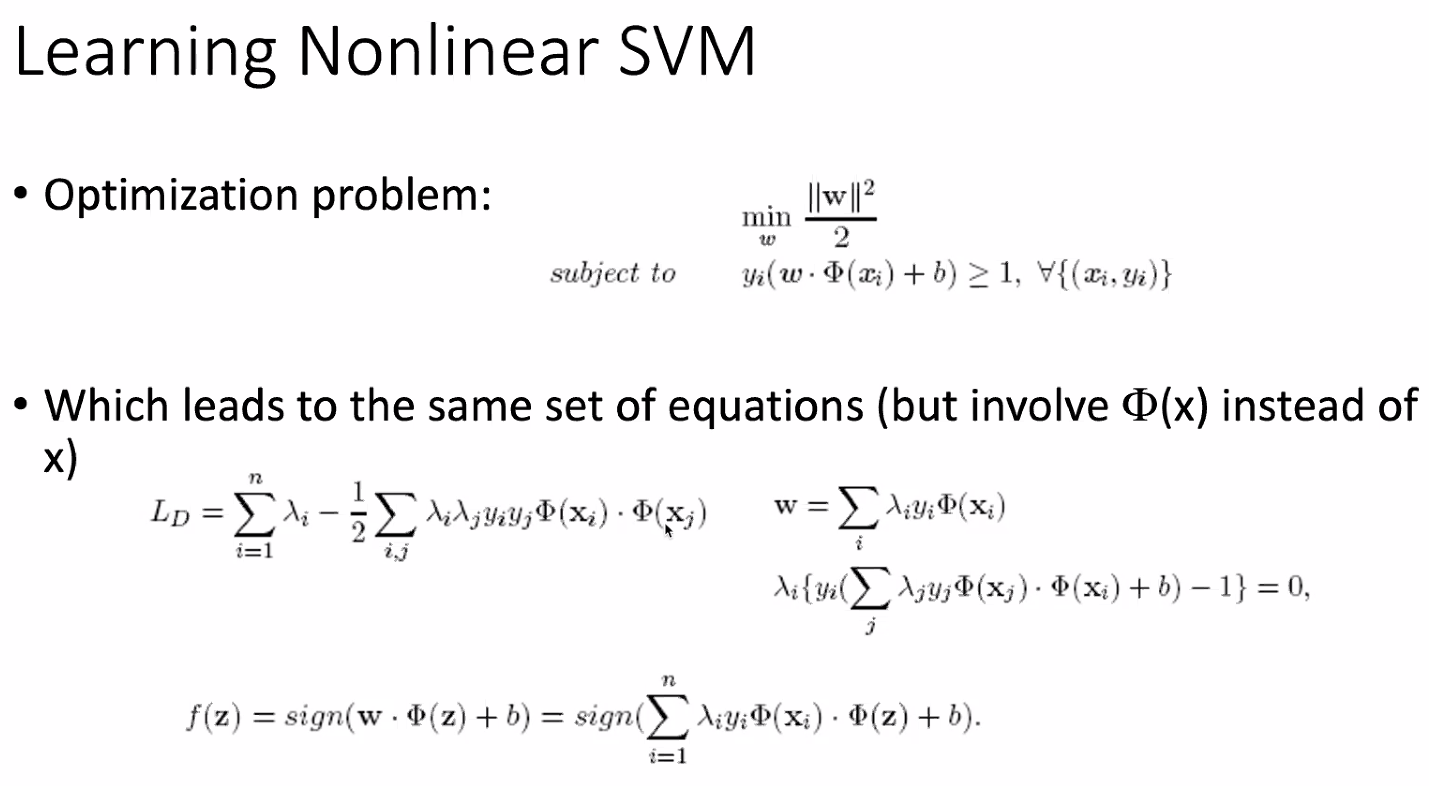
Lower C care more about parameter error

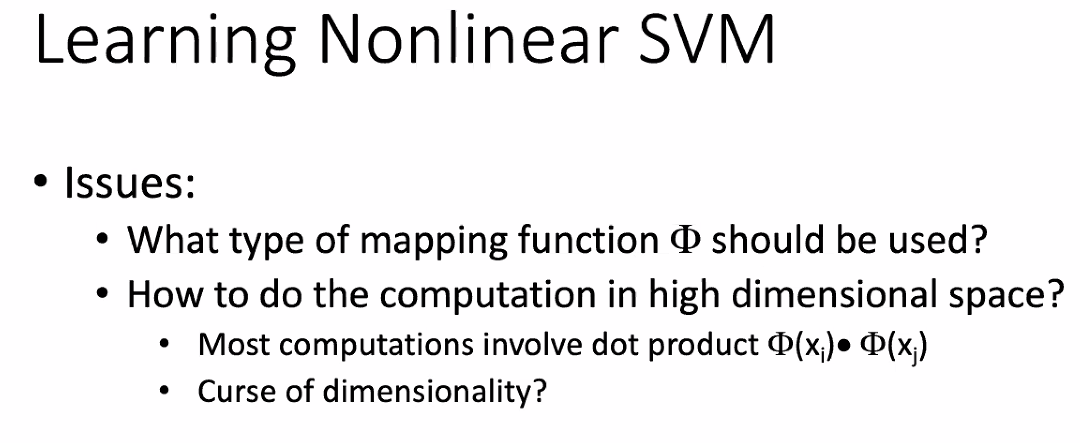






Perfectly classifies your training data set





To Solve this issue:

