

# Machine Learning

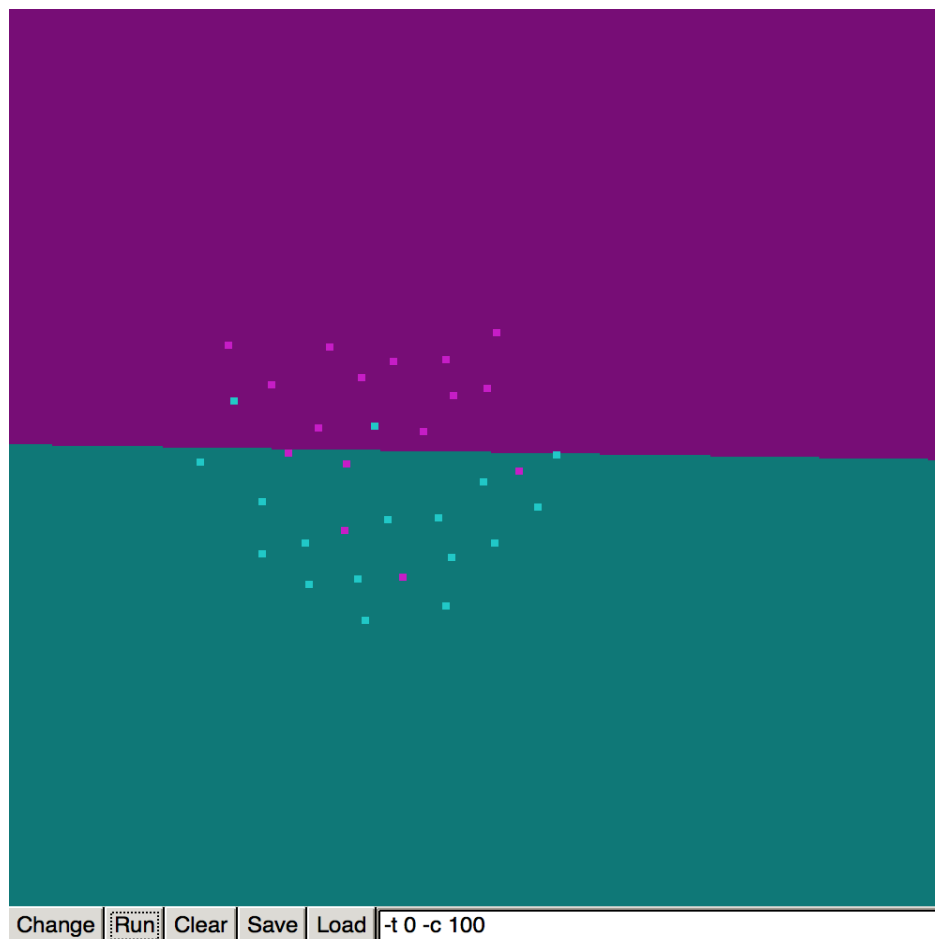
## Assignment 5

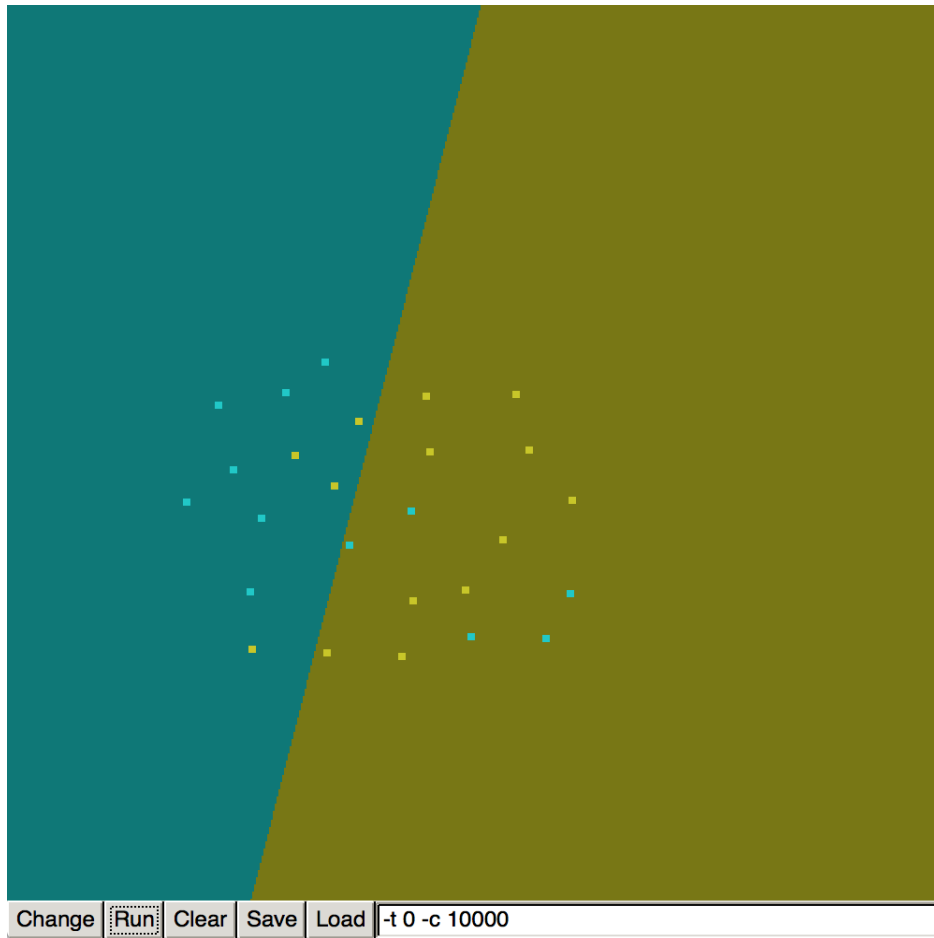
Marcel Rohde & Thorben Wiese

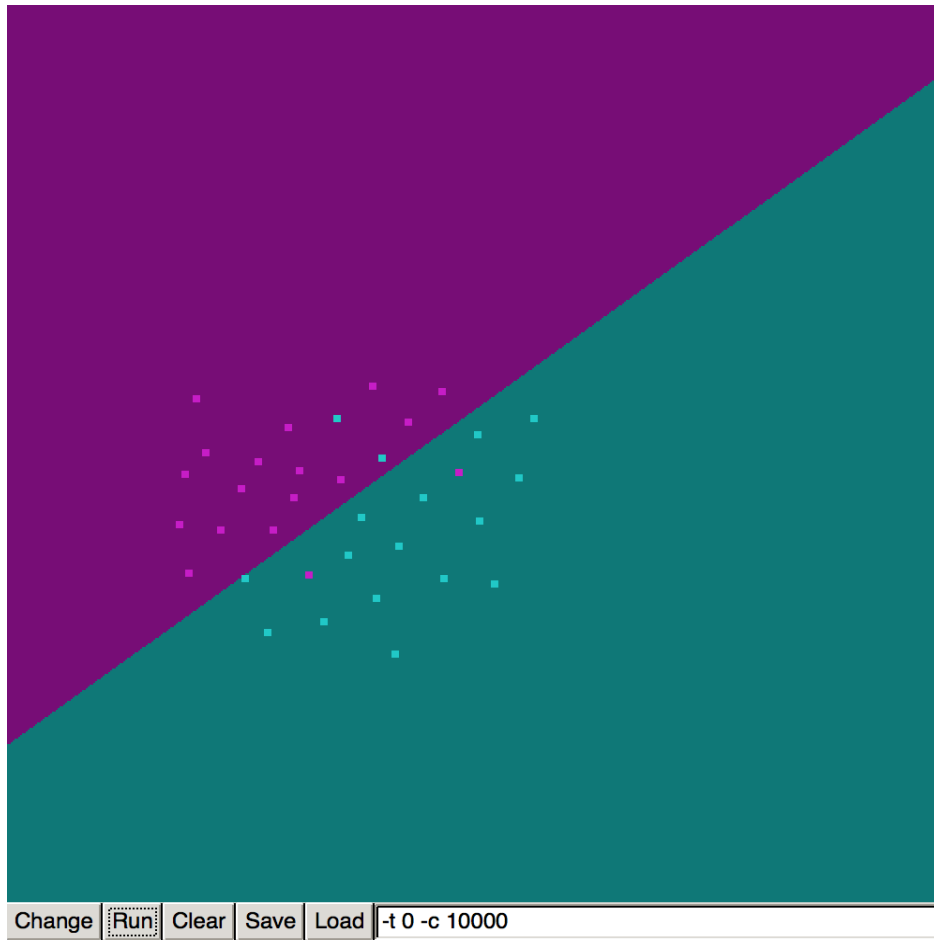
13. Mai 2018

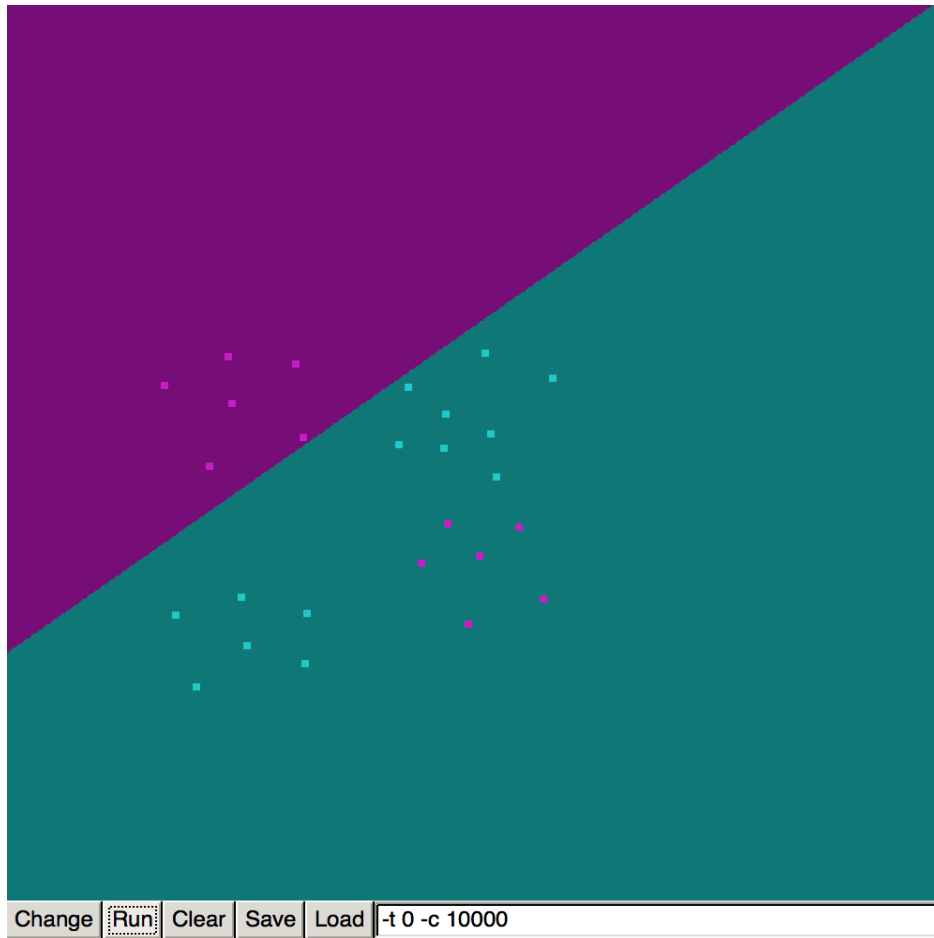
05.2

b)



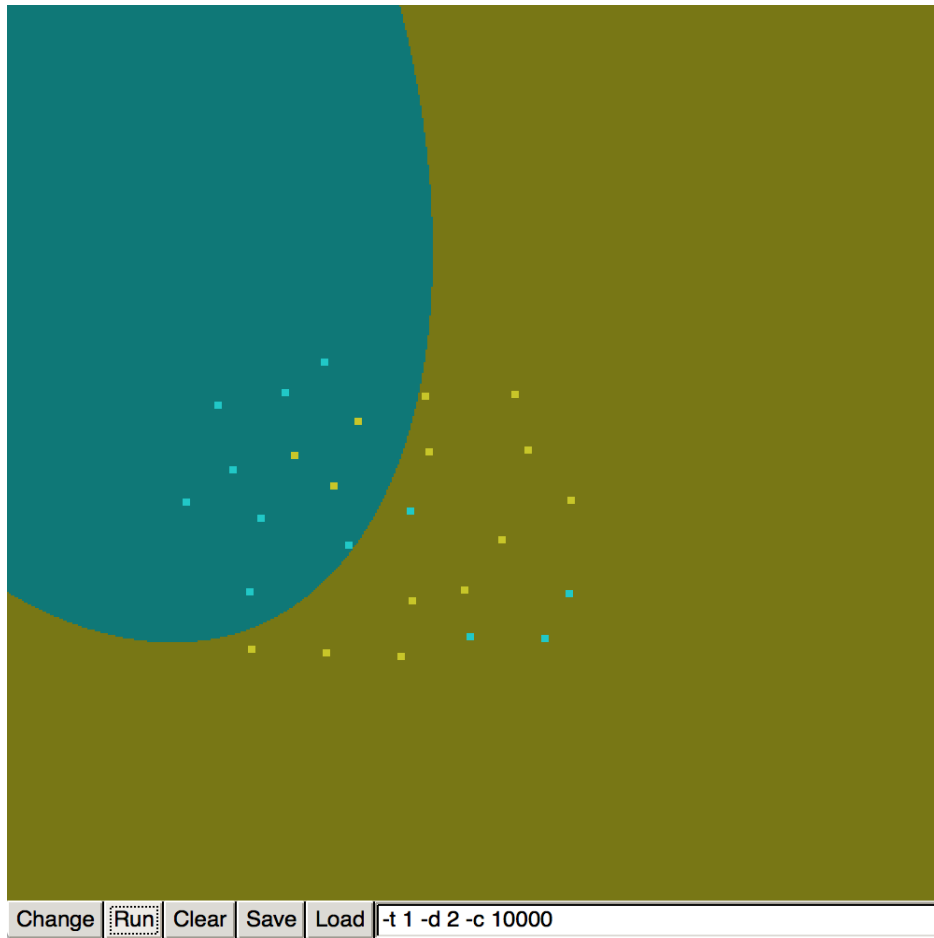


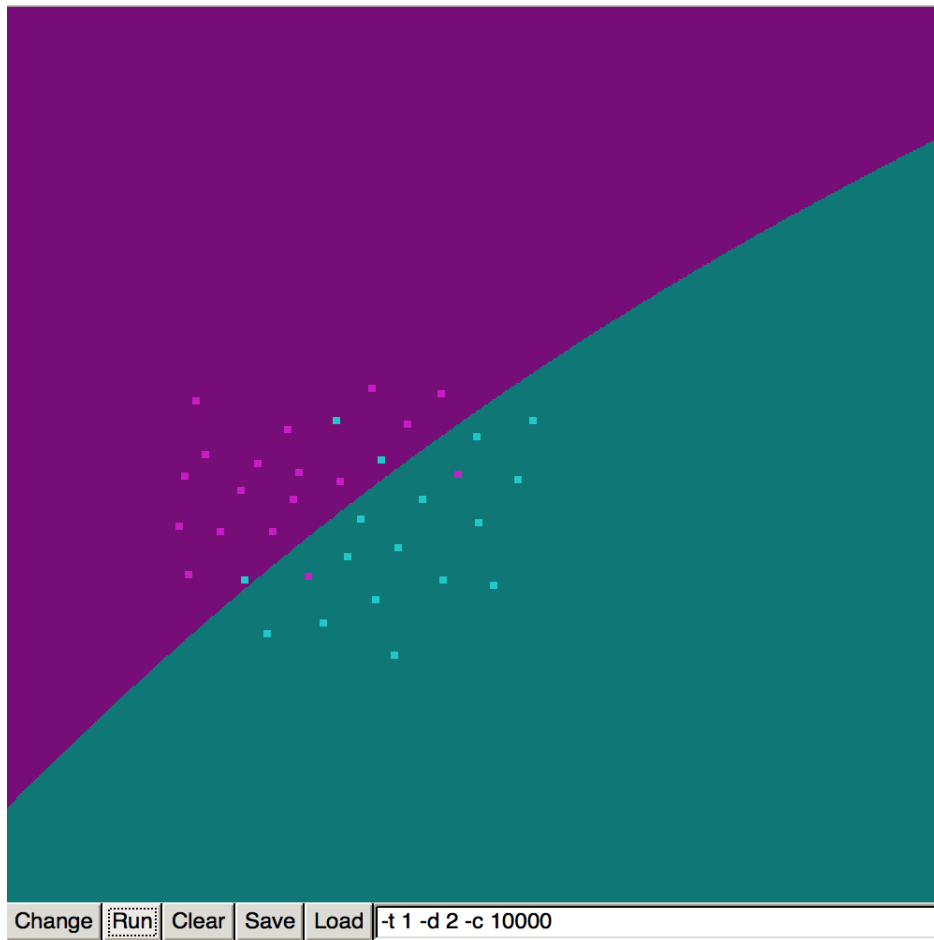


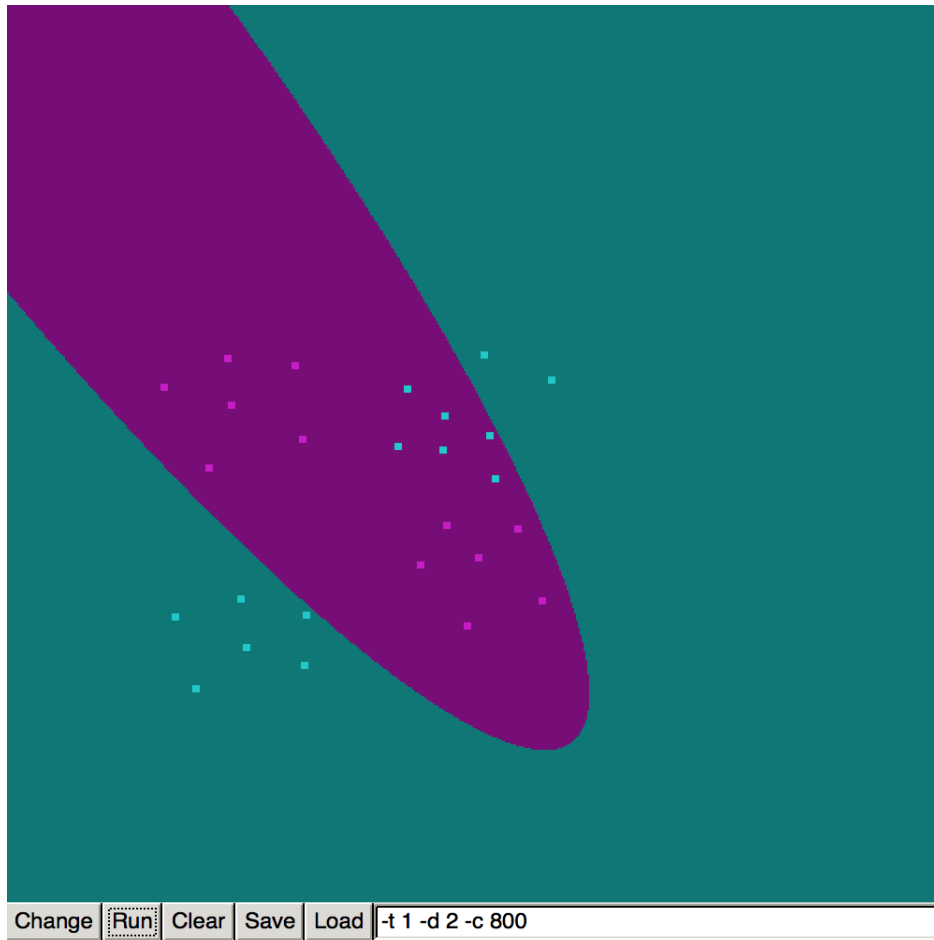


c)









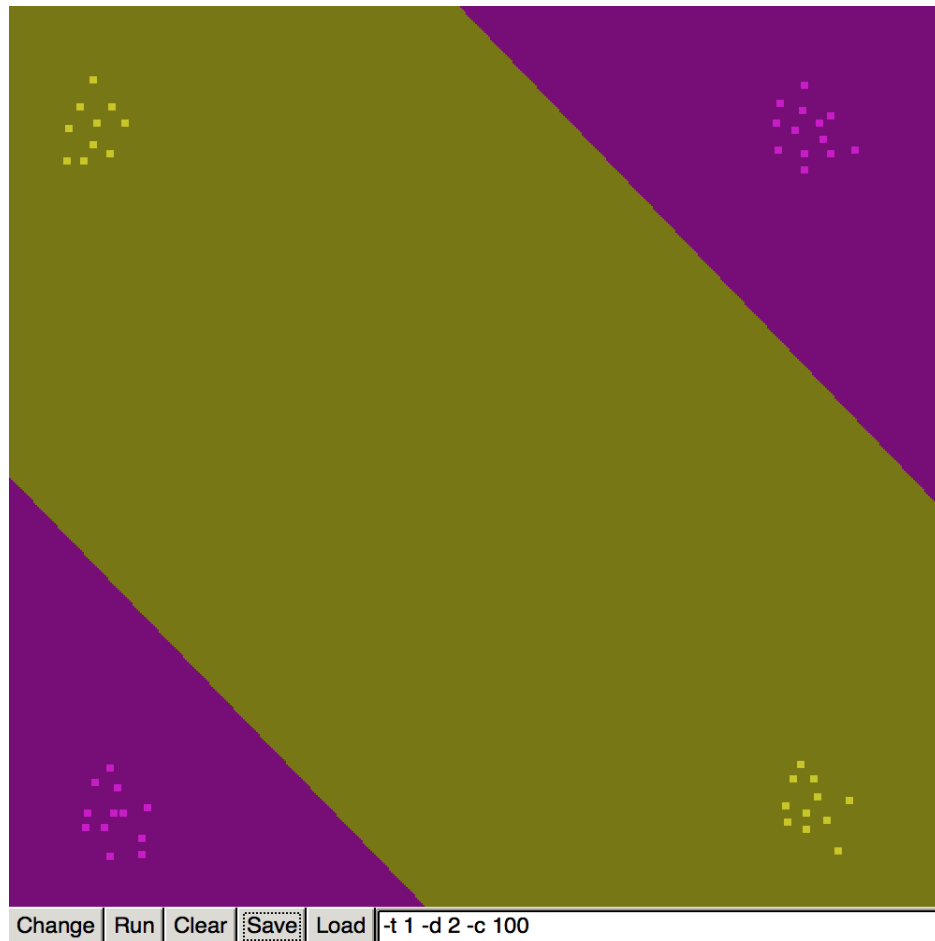


## 05.3

a)



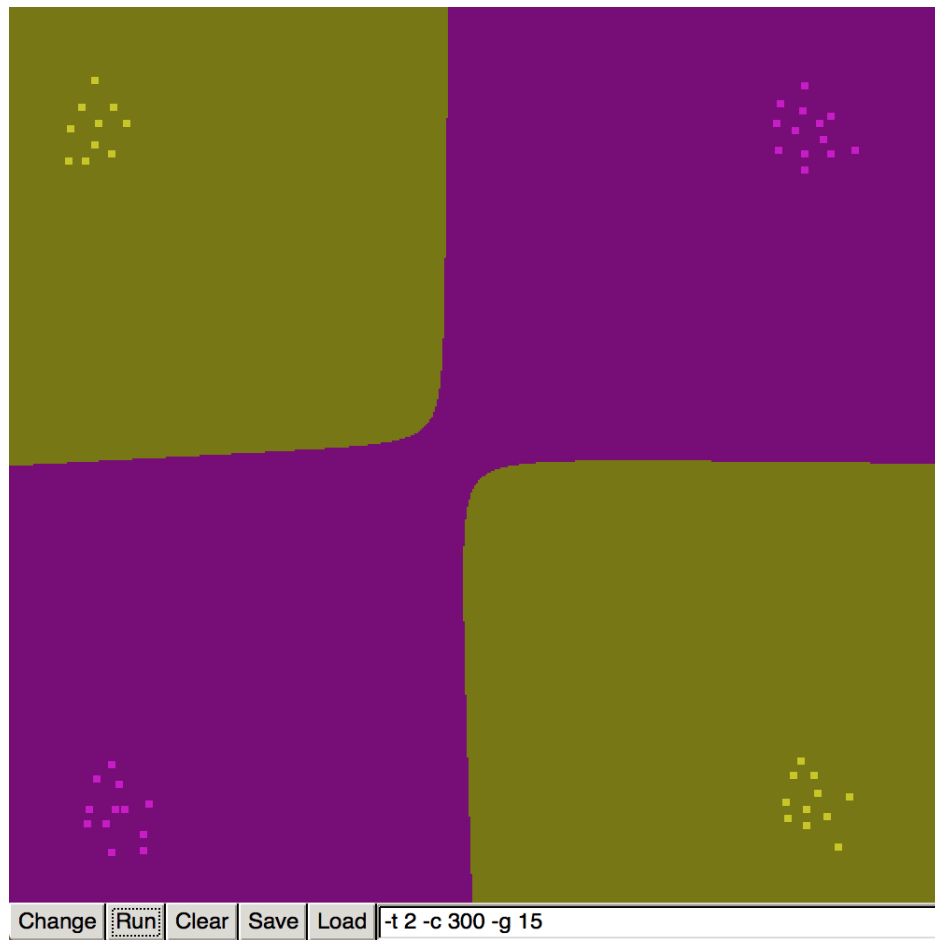
b)



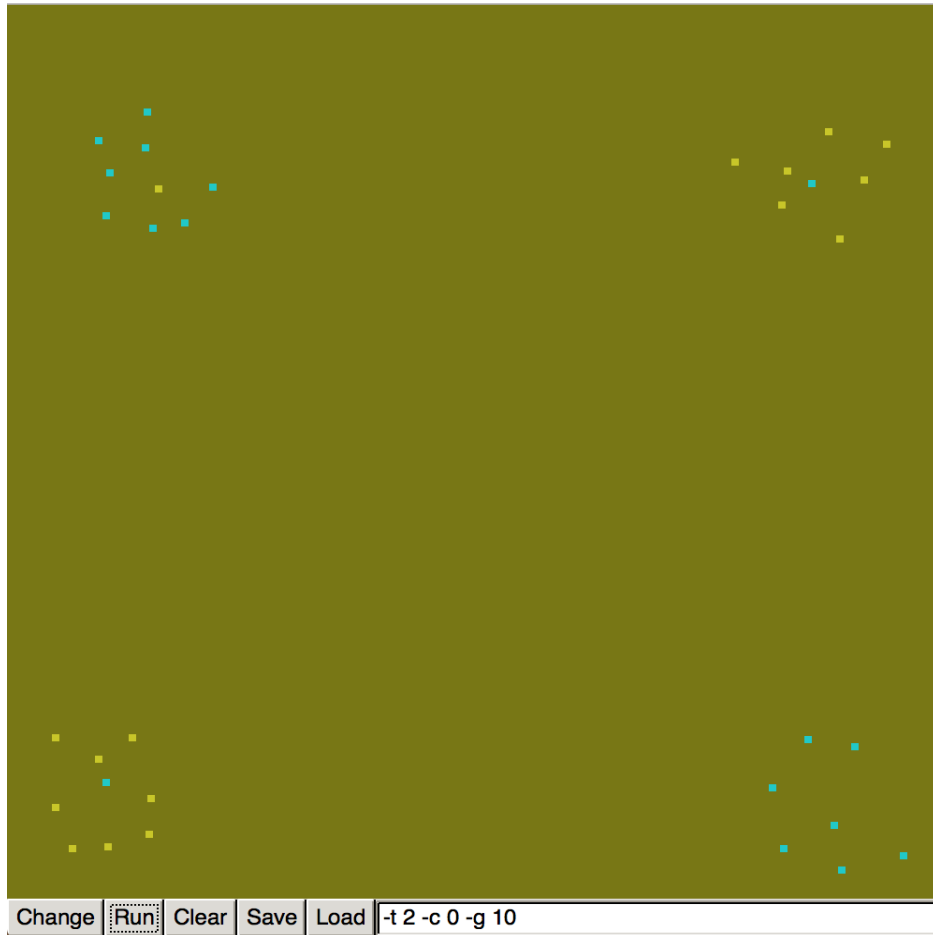


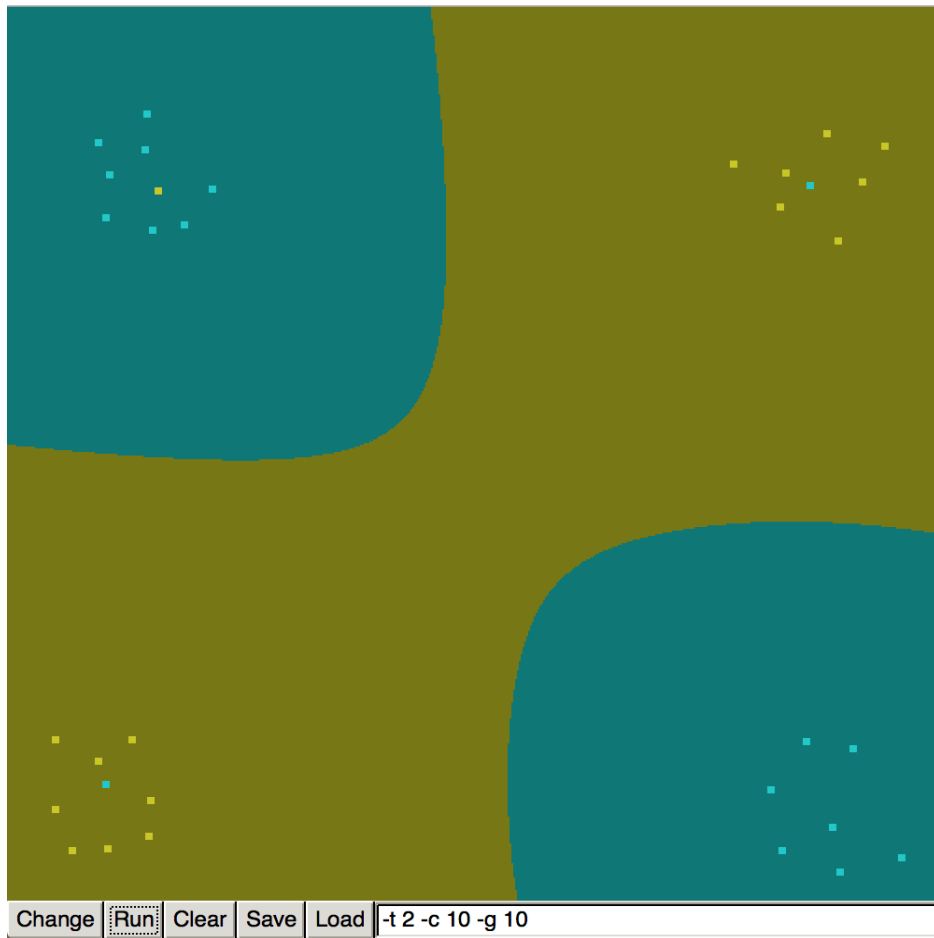
c)

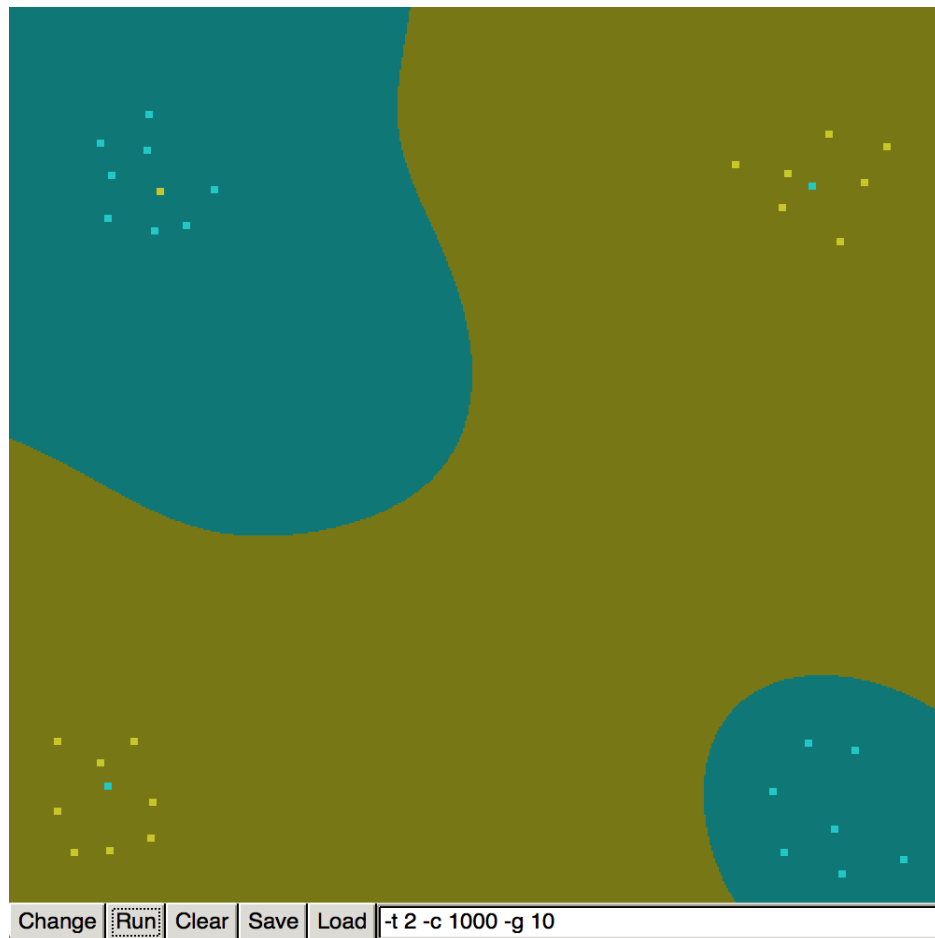




d)







The parameter  $C$  describes the penalty for misclassifying the different data points. It ranges from 0 to infinity and is therefore hard to choose.