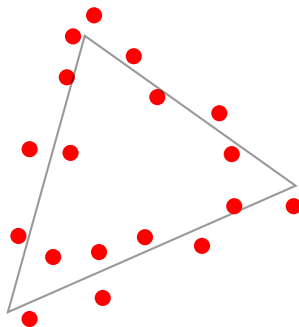
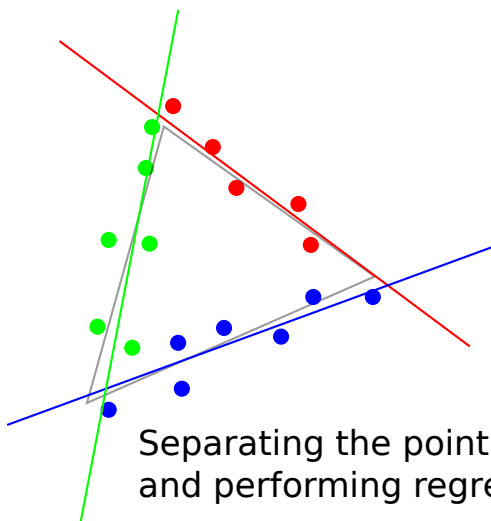


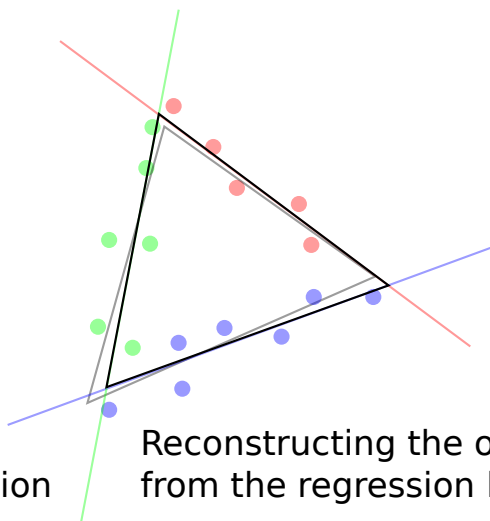
The real obstacle



The sonar data points



Separating the points  
and performing regression



Reconstructing the obstacle  
from the regression lines