Module 11 homework

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Estimating fishing pressure

1. The response variable would be monthly fishing pressure.
2. The explanatory variable would be number of vehicles in the parking lot.
3. The equation of the best fit line is vehicles=1573-0.5143392\*pressure
4. For the value of the slope, for each additional vehicle in parking lot, the fishing pressure goes up 2337.3 on average.
5. For the value of the intercept, the intercept indicates that the fishing pressure with 0 boats in the lot is 764.3 on average.
6. The predicted parking lot value of 20 cars would be an extrapolation because 20 cars is off the x axis.
7. The predicted fishing pressure if the parking lot has 5 cars in it is 7,867.57
8. The residual for the pressure would be 522.87
9. The correlation coefficient is r2= 0.5143392
10. The residual would be 522.87
11. The pressure would be under counted 1,528.6 if there the vehicles were under counted by 2.
12. The only thing I can think of is that it is tough to make any kind of predictions when there are so few points on the scatter plot.

R stuff

library(NCStats)

setwd("~/R stuff")

df<-read.csv("AlcovaRes.csv ")

wday<-filterD(df,day.type=="wday")

str(wday)

( lm1 <- lm(pressure~index,data=wday) )

rSquared(lm1)

fitPlot(lm1,xlab=" vehicles in lot",ylab="index of fishing pressure")