

36-315: Statistical Graphics and Visualization

Homework 13

Date: April 16, 2003

Due: start of class April 21, 2003

1. In this problem, you will elaborate on lab 13.
 - (a) Make scatterplots of your response versus your predictors. (This can be done with one call to `predict.plot`.) Note the general trends.
 - (b) Out of all these plots, pick the most unusual point. This may or may not be the point you picked in lab. Describe in English what is unusual about it.
 - (c) Map the tract. Comparing to the maps you made in homework 12, is there a geographic explanation of this outlier?
 - (d) Color the original scatterplot by a variable that best explains the outlier. (Discriminative projection can provide hints, and it may help to increase the number of colors in the plot.) Describe how the outlier is explained (see handout 16). How would the variable being colored break the normal association between predictor and response?