Class assignment:

Using the MPG dataset, which is available with the ggplot2 library, produce a document that includes the following elements: headers, text, tables, and plots.

Tables should include a comparison of city and highway mileage by the class of car and the best three car models for city and highway mileage for all the years in which data is available.

Plot the data displaying as much of the data as you can. Put continuous variables on the axes and include a locally smoothed regression line to show the relationship with mileage. Also make a box plot comparing city and highway MPG by class of car.

Table One

Table 1: Average City and Highway MPG by Car Class

Class	City MPG	Highway MPG
subcompact	20.37	28.14
compact	20.13	28.30
midsize	18.76	27.29
minivan	15.82	22.36
2seater	15.40	24.80
suv pickup	$13.50 \\ 13.00$	18.13 16.88

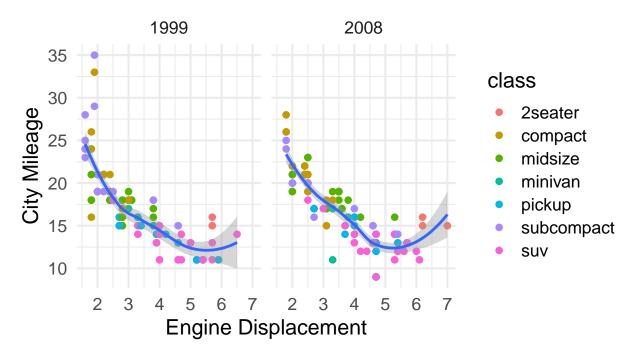
Table Two

Table 2: Top 3 MPG Performing Cars: 1999, 2008

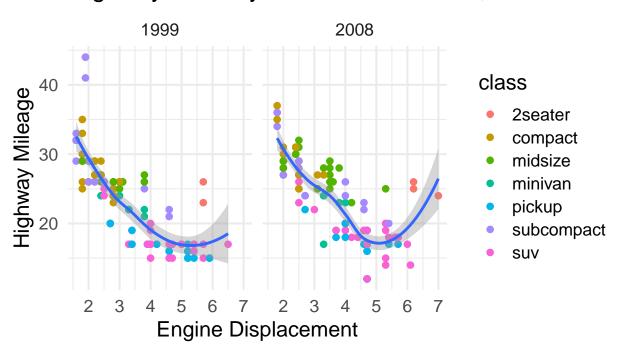
City 1999		Highway 1999		City 2008		Highway 2008	
model	City	model	Highway	model	City	model	Highway
new beetle civic corolla	26.00 24.80 24.67	new beetle corolla civic	35.00 32.67 31.60	corolla civic gti	27.0 24.0 21.5	corolla civic gti	36.00 33.75 29.00

Plot One

City MPG by Class of Car: 1999, 2008

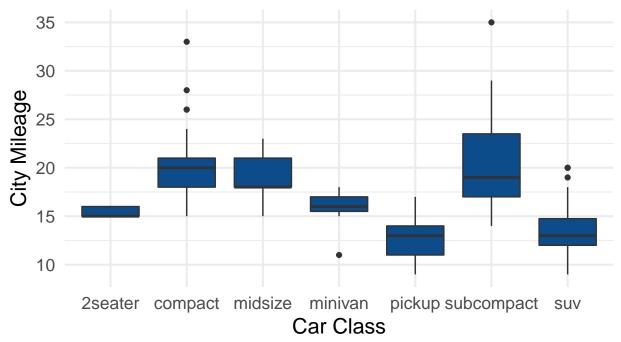


Highway MPG by Class of Car: 1999, 2008



Plot Two

City MPG by Class of Car: 1999, 2008



Highway MPG by Class of Car: 1999, 2008

