615-sep13-vv-pdf

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Class assignment:

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

for all the years in which data is available. 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

show the relationship with mileage. Also make a box plot comparing city and highway MPG by class of car. 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

Tables

using an apply functional? This example is flawed even though the code works. Explain. And now that you know how to produce the table can you improve the code by

Car Class	Mean City and Highway MPG b
	by

pickup	midsize	compact	2seater	Class
13	18.76	20.13	15.4	City
16.88	27.29	28.3	24.8	Highway

SUV	subcompact	Class
13.5	20.37	City
18.13	28.14	Highway

Tables

The next table is a bit tricky.

Top 3 MPG Performing Cars: 1999, 2008

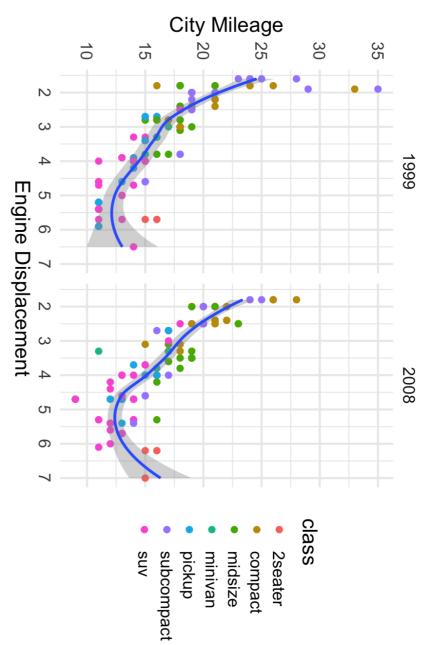
gti	civic	corolla	Model	City 1999
21.5	24.0	27.0	Milage	1999
corolla	civic	new beetle	Model	Highway 1999
24.7	24.8	26.0	Milage	1999
camry	civic	corolla	Model	City 2008
30.0	33.8	36.0	Milage	2008
civic	corolla	new beetle	Model	Highway 2008
31.6	32.7	35.0	Milage	8008

Plot

City MPG by Class of Car: 1999, 2008

$geom_smooth()$ using method = 'loess' and formula 'y \sim x'

City MPG by Class of Car: 1999, 2008



Plot

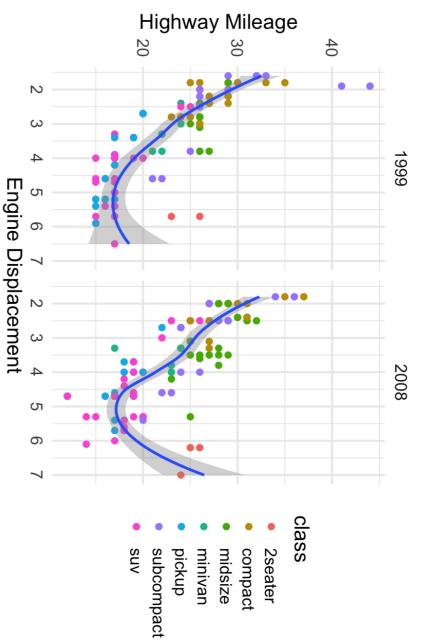
Highway MPG by Class of Car: 1999, 2008

'geom_smooth()` using method = 'loess' and formula 'y \sim x'

file:///Users/vv/Desktop/615/lecture/MA615/try.html

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Highway MPG by Class of Car: 1999, 2008

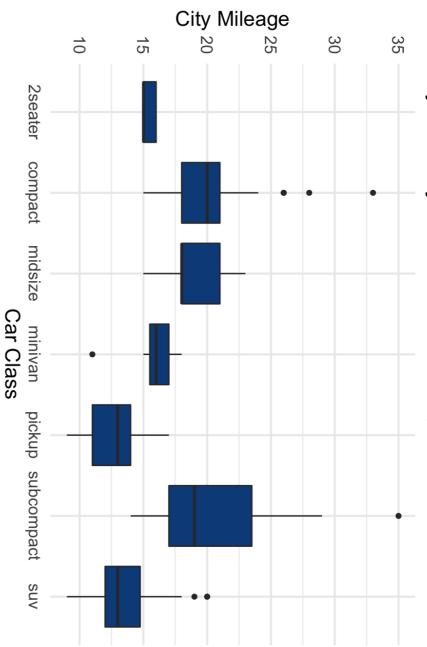


Boxplots

City MPG by Class of Car: 1999, 2008



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Boxplots

City MPG by Class of Car: 1999, 2008

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