putpdf Report

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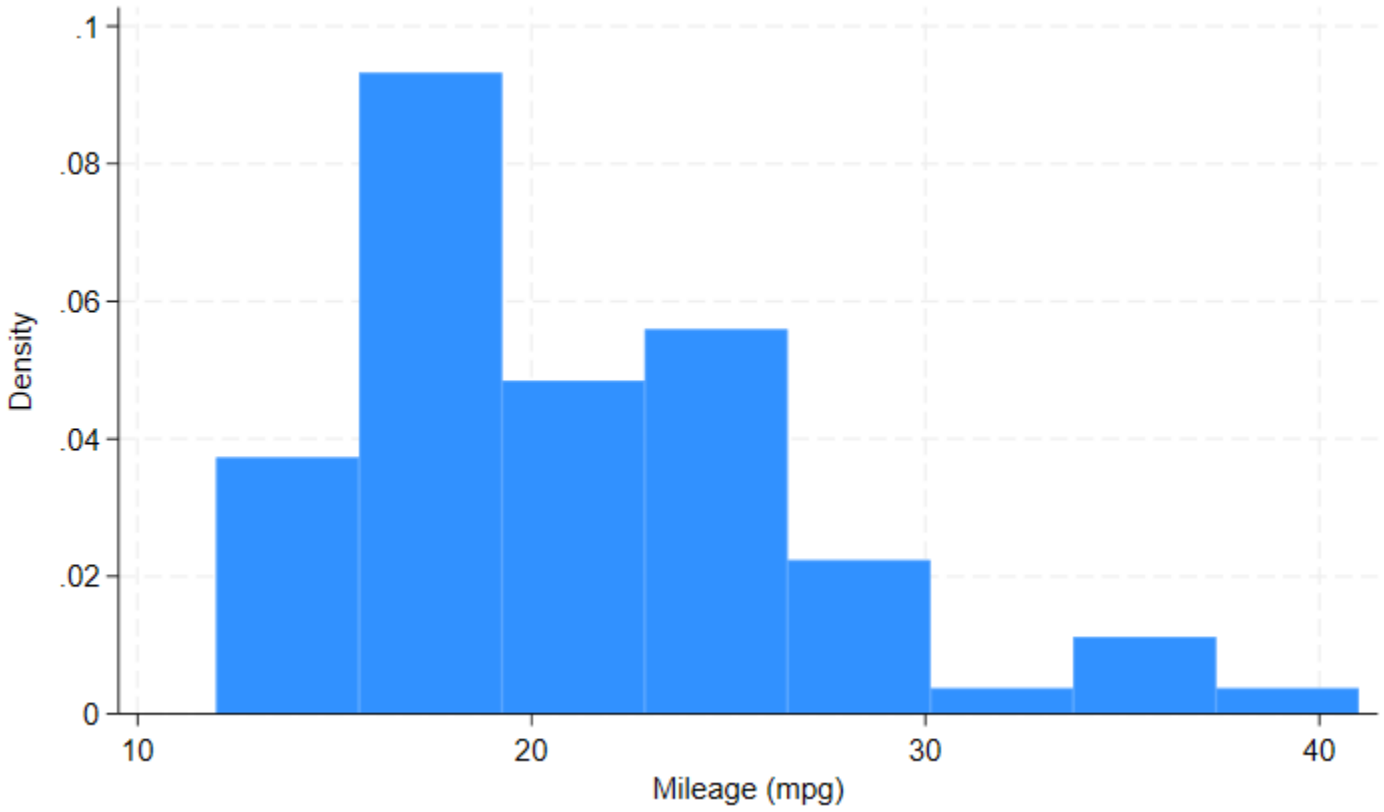
I am turning my attention to a system Stata dataset called auto. Can be loaded into any version of Stata using the command sysuse auto. I will use this dataset to generate a basic report generating some summary statistics, creating a graph and displaying results from a regression equation. Using this command you can easily add Stata results to your pdf. Displaying the Average miles per gallon: **21.30** And the standard deviation of **5.79** from a sample of **74.00** cars in this dataset. In the next paragraph I will include a histogram of the miles per gallon(mpg) variable.



Looking at the distribution of miles per gallon(mpg) in the graph above. It appears that the data is slightly skewed to the right. In my following paragraph I will embed regression output into my report. Predicting **miles per gallon(mpg) from the weight and length of a car**

mpg	Coefficient	Std. err.	t	P>|t|	[95% conf.	interval]
weight	-.0038515	.001586	-2.43	0.018	-.0070138	-.0006891
length	-.0795935	.0553577	-1.44	0.155	-.1899736	.0307867
_cons	47.88487	6.08787	7.87	0.000	35.746	60.02374

Based on the above regression results. For every 1000 pound increase in a vehicle's weight, 3.8 miles per gallon decrease. Furthermore every 100 in. increase in car length results in about a 7.8 miles per gallon decrease. In short, the larger the car, the less miles per gallon based on this sample dataset.

Using this final data themed paragraph to show some basic summary statistics. Looking at the miles per gallon(mpg) split by our grouping variable of domestic and foreign cars. Then performing a t-test to compare

the miles per gallon(mpg) between foreign and domestic vehicles

Type	Count	Average	Max	Min
Domestic	52	19.82692	34	12
Foreign	22	24.77273	41	14

After computing a ttest to compare mpg between foreign and domestic vehicles. Domestic vehicles have an average mpg of **19.83** Whereas the average mpg of foreign vehicles is **24.77**. Resulting in a p-value of close to**0.00.**

Based on the results, I reject the null hypothesis that mpg is equal for domestic and foreign vehicles. Based on this dataset, it appears foreign vehicles have a higher average miles per gallon than domestic vehicles.

Thank you for reading my report. Try out the putpdf command to create a report with embedded results all in 1 application.