

One-Way Analysis of Variance

Results

The ANOVA Procedure

Class Level Information

Class	Levels	Values
cyl	3	4 6 8

Number of Observations Read	32
Number of Observations Used	32

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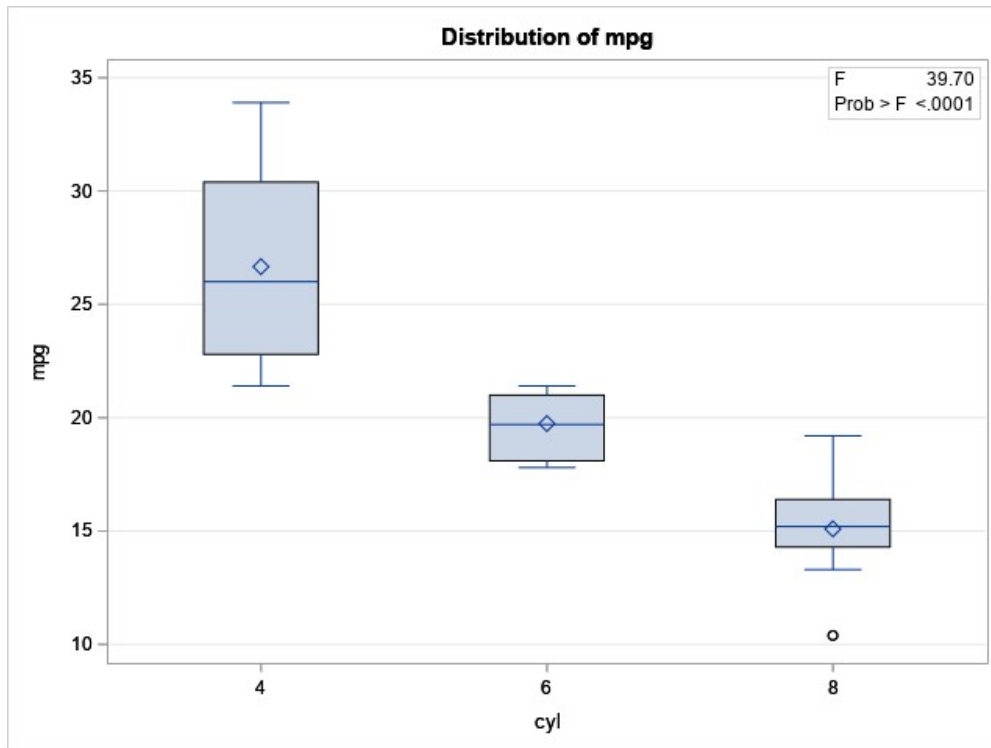
The ANOVA Procedure

Dependent Variable: mpg

Source	DF	Sum of Squares	Mean Square	F Value	Pr > F
Model	2	824.784590	412.392295	39.70	<.0001
Error	29	301.262597	10.388365		
Corrected Total	31	1126.047188			

R-Square	Coeff Var	Root MSE	mpg Mean
0.732460	16.04280	3.223099	20.09063

Source	DF	Anova SS	Mean Square	F Value	Pr > F
cyl	2	824.7845901	412.3922950	39.70	<.0001



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Levene's Test for Homogeneity of mpg Variance ANOVA of Squared Deviations from Group Means					
Source	DF	Sum of Squares	Mean Square	F Value	Pr > F
cyl	2	1465.8	732.9	6.32	0.0053
Error	29	3361.6	115.9		

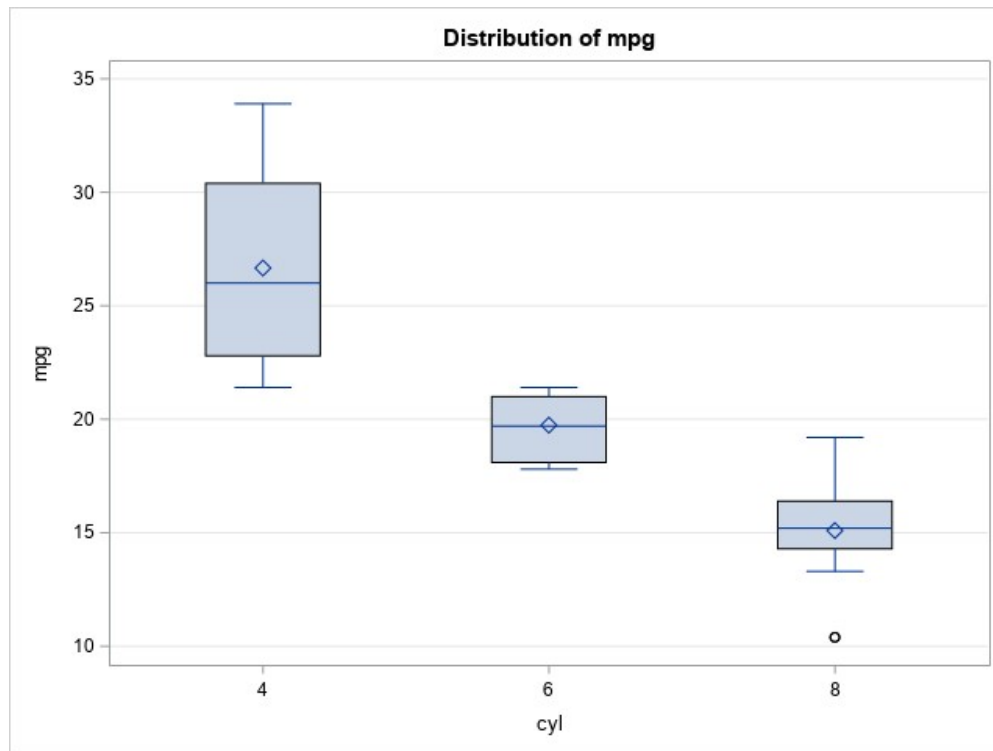
Brown and Forsythe's Test for Homogeneity of mpg Variance ANOVA of Absolute Deviations from Group Medians					
Source	DF	Sum of Squares	Mean Square	F Value	Pr > F
cyl	2	36.4298	18.2149	5.51	0.0094
Error	29	95.9190	3.3076		

Bartlett's Test for Homogeneity of mpg Variance			
Source	DF	Chi-Square	Pr > ChiSq
cyl	2	8.3934	0.0150

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Level of cyl	N	mpg	
		Mean	Std Dev
4	11	26.6636364	4.50982765
6	7	19.7428571	1.45356704
8	14	15.1000000	2.56004808

Means Plot of mpg by cyl

