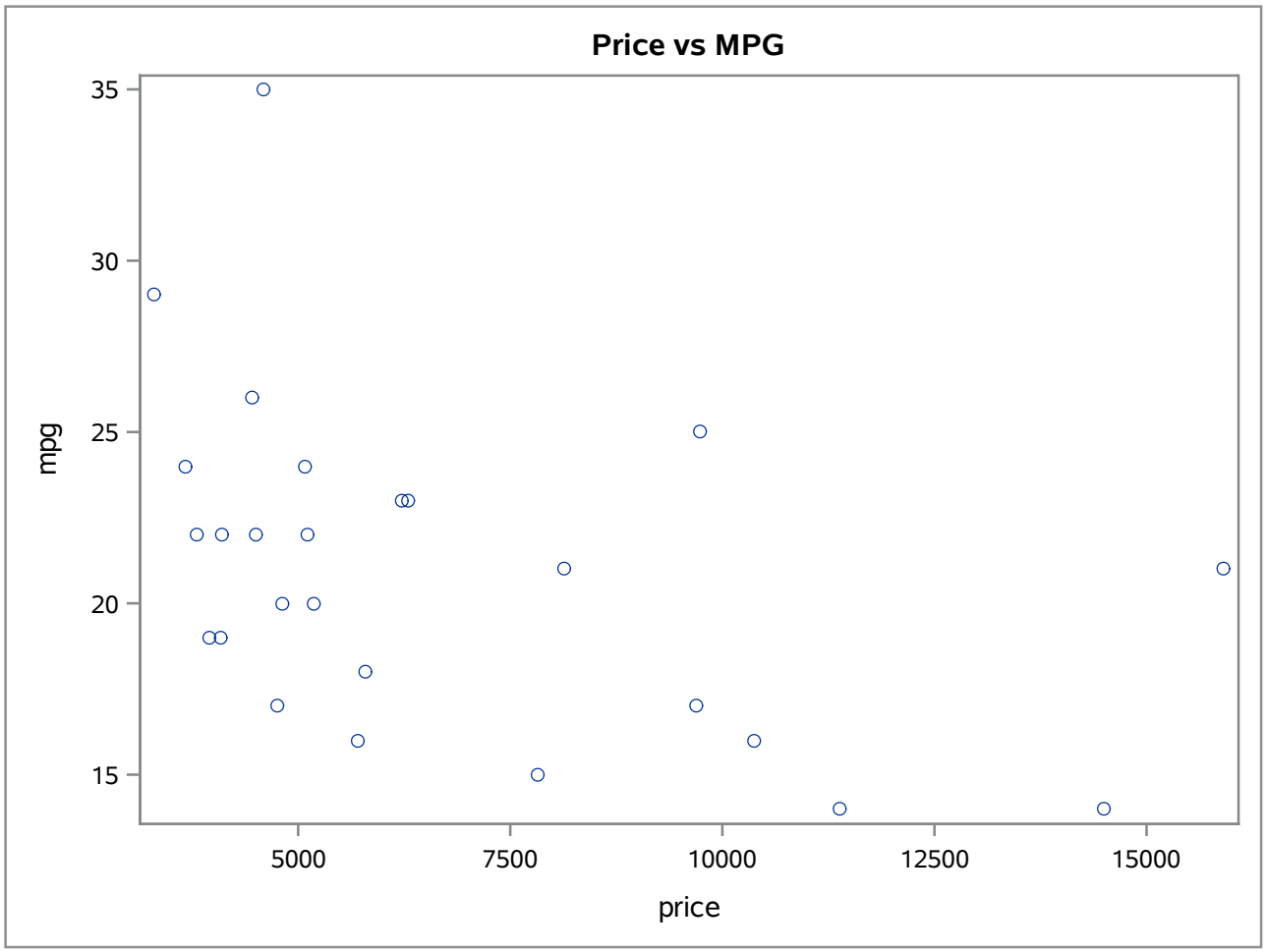
The CORR Procedure

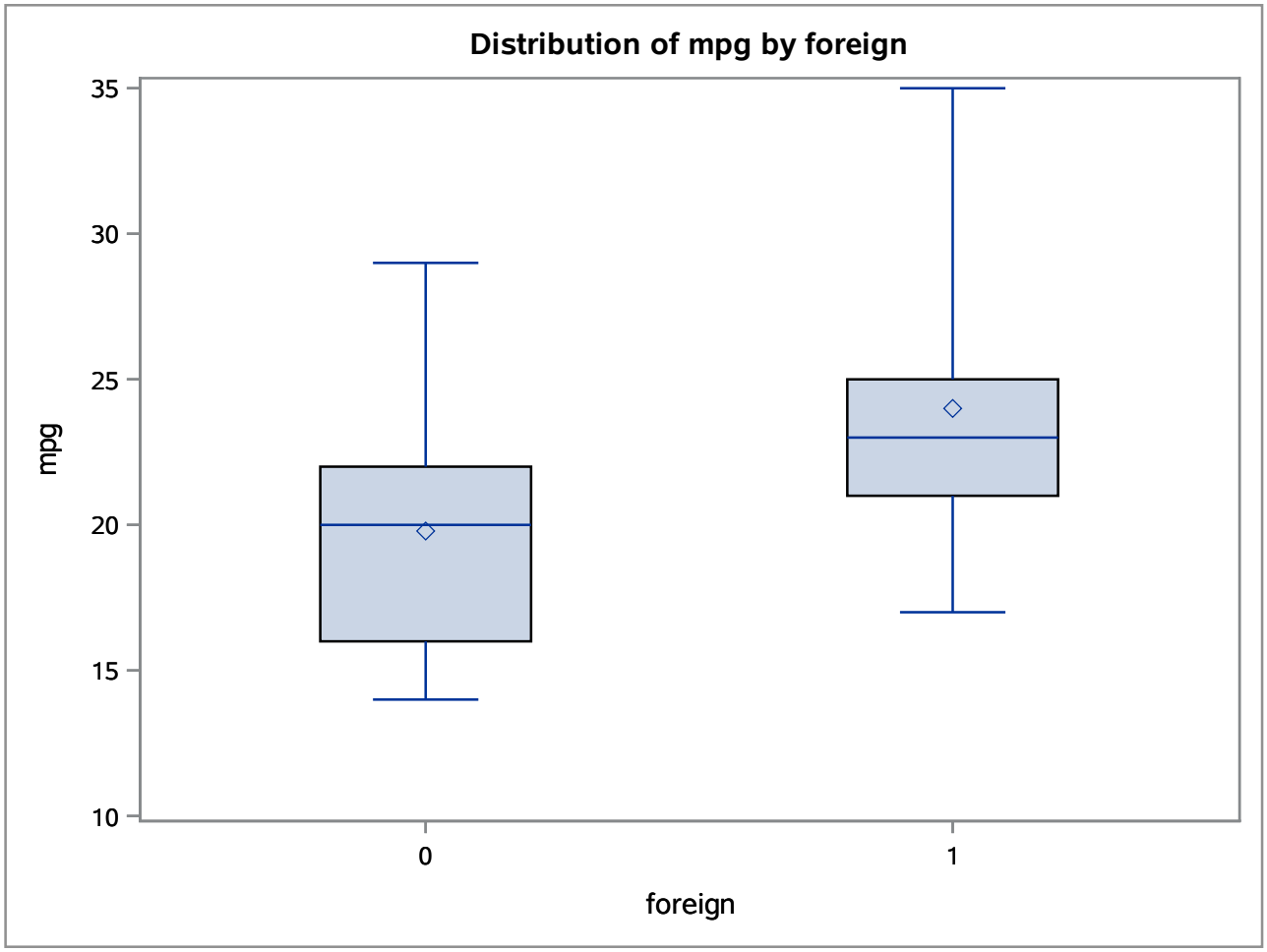
2 Variables:	length weight

Simple Statistics						
Variable	N	Mean	Std Dev	Sum	Minimum	Maximum
length	26	190.07692	18.17014	4942	163.00000	222.00000
weight	26	3099	695.07941	80580	2020	4330

Pearson Correlation Coefficients, N = 26 Prob > |r| under H0: Rho=0		
	length	weight
length	1.00000	0.90654 <.0001
weight	0.90654 <.0001	1.00000


Price vs MPG
mpg
35
30
25
20
15
5000
7500
10000
12500
15000
price

Box plot of MPG, for foreign vs domestic cars



simple linear regression, y = mpg, x = price1

The REG Procedure
Model: MODEL1
Dependent Variable: mpg

Number of Observations Read	26
Number of Observations Used	26

Note: No intercept in model. R-Square is redefined.

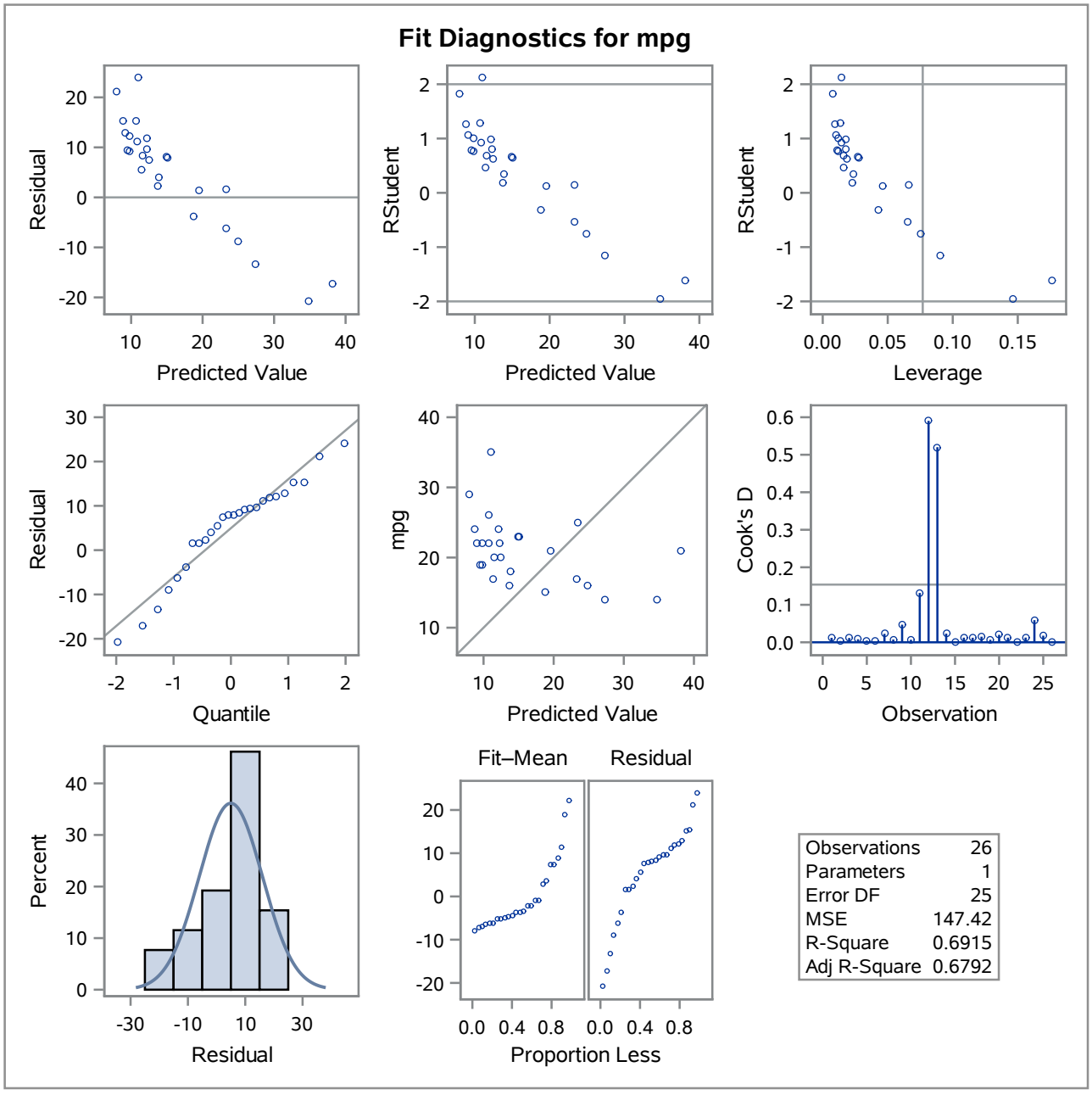
Analysis of Variance					
Source	**DF**	**Sum of Squares**	**Mean Square**	**F Value**	**Pr > F**
Model	1	8262.45717	8262.45717	56.05	<.0001
Error	25	3685.54283	147.42171		
Uncorrected Total	26	11948			

Root MSE	12.14173	**R-Square**	0.6915
Dependent Mean	20.92308	**Adj R-Sq**	0.6792
Coeff Var	58.03035		

Parameter Estimates					
Variable	**DF**	**Parameter Estimate**	**Standard Error**	**t Value**	**Pr > |t|**
price1	1	2.39997	0.32058	7.49	<.0001

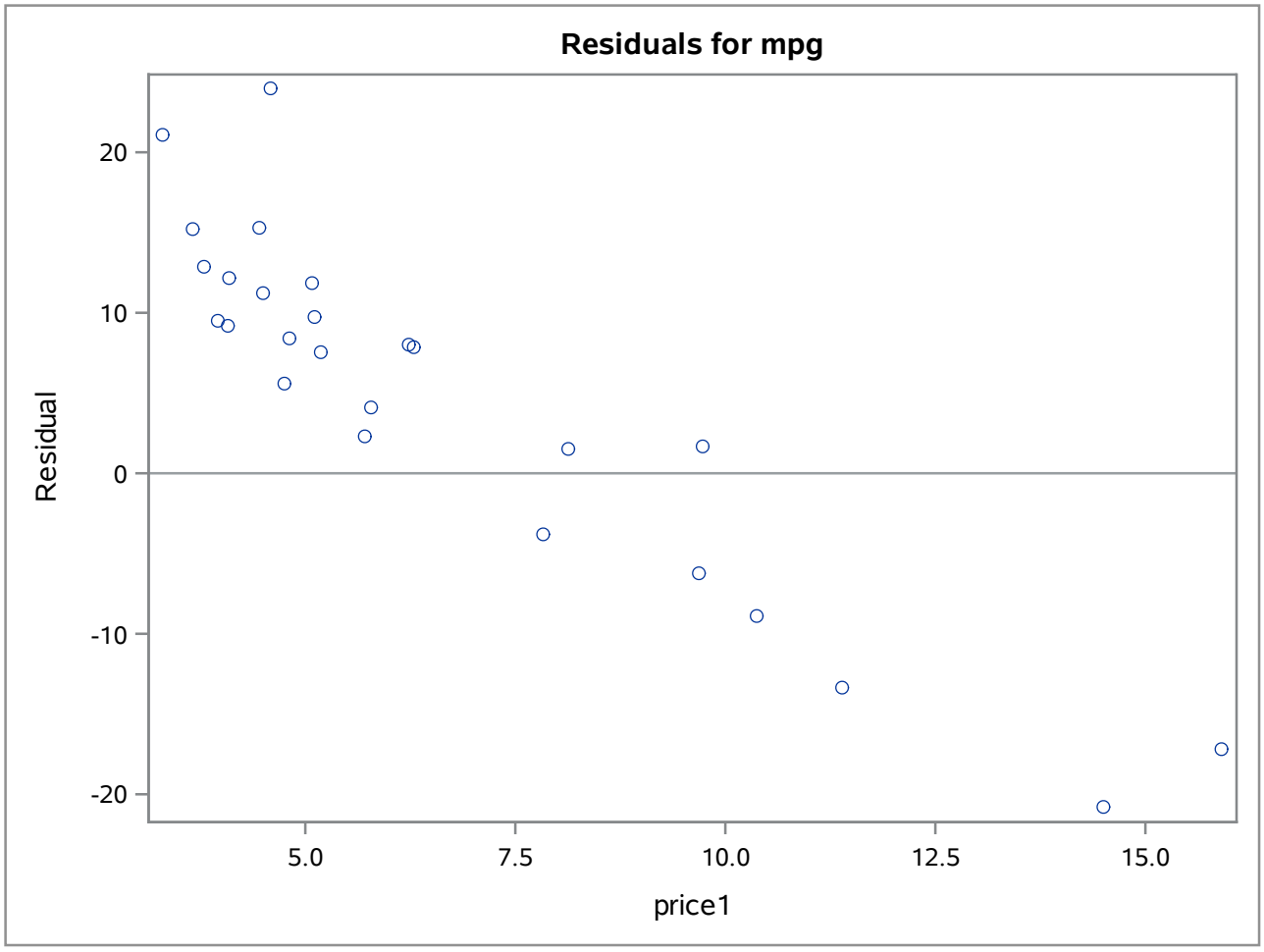
simple linear regression, y = mpg, x = price1

The REG Procedure
Model: MODEL1
Dependent Variable: mpg



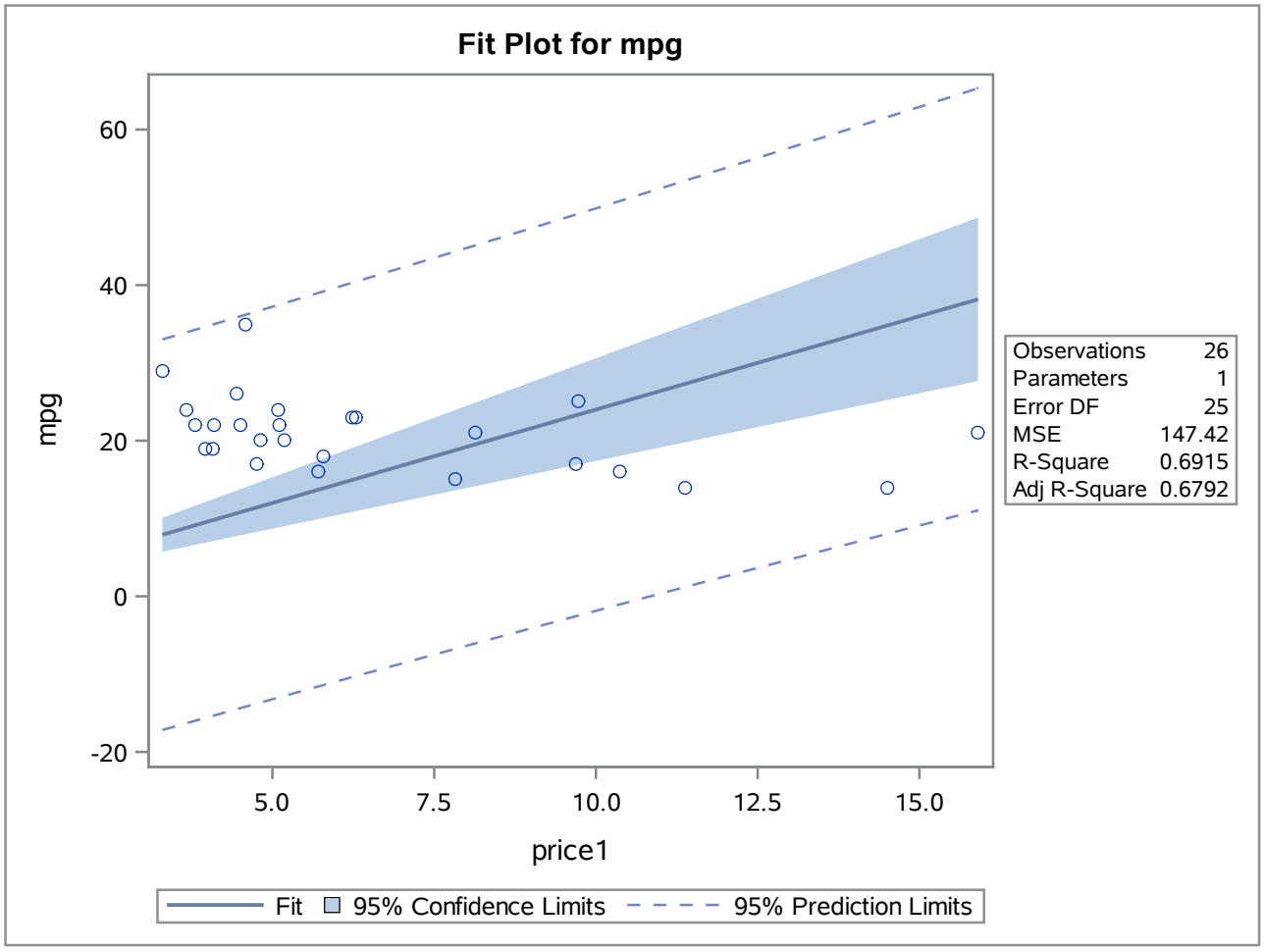
simple linear regression, y = mpg, x = price1

The REG Procedure
Model: MODEL1
Dependent Variable: mpg



simple linear regression, y = mpg, x = price1

The REG Procedure
Model: MODEL1
Dependent Variable: mpg



simple linear regression, x1 = length, x2 = length^2

The GLM Procedure

Number of Observations Read	26
Number of Observations Used	26

simple linear regression, x1 = length, x2 = length^2

The GLM Procedure

Dependent Variable: mpg

Source	DF	Sum of Squares	Mean Square	F Value	Pr > F
Model	2	343.2308092	171.6154046	17.73	<.0001
Error	23	222.6153446	9.6789280		
Corrected Total	25	565.8461538			

R-Square	Coeff Var	Root MSE	mpg Mean
0.606580	14.86922	3.111098	20.92308

Source	DF	Type I SS	Mean Square	F Value	Pr > F
length	1	333.7945975	333.7945975	34.49	<.0001
length*length	1	9.4362118	9.4362118	0.97	0.3337

Source	DF	Type III SS	Mean Square	F Value	Pr > F
length	1	14.72375568	14.72375568	1.52	0.2299
length*length	1	9.43621177	9.43621177	0.97	0.3337

Parameter	Estimate	Standard Error	t Value	Pr > |t|
Intercept	135.4470552	77.55066223	1.75	0.0941
length	-1.0047165	0.81460651	-1.23	0.2299
length*length	0.0020976	0.00212437	0.99	0.3337

simple linear regression, x1 = length, x2 = length^2

The GLM Procedure

Dependent Variable: mpg