

Canadian Prestige data

Obs	occupation	type	income	education	prestige	obs
1	accountant	prof	62	86	82	1
2	pilot	prof	72	76	83	2
3	architect	prof	75	92	90	3
4	author	prof	55	90	76	4
5	chemist	prof	64	86	90	5
6	minister	prof	21	84	87	6
7	professor	prof	64	93	93	7
8	dentist	prof	80	100	90	8
9	reporter	wc	67	87	52	9
10	engineer	prof	72	86	88	10

The MEANS Procedure

Variable	N	Mean	Std Dev	Minimum	Maximum
income	45	41.8666667	24.4350717	7.0000000	81.0000000
education	45	52.5555556	29.7608311	7.0000000	100.0000000
prestige	45	47.6888889	31.5103318	3.0000000	97.0000000
obs	45	23.0000000	13.1339255	1.0000000	45.0000000

The REG Procedure
Model: MODEL1
Dependent Variable: prestige

Number of Observations Read	45
Number of Observations Used	45

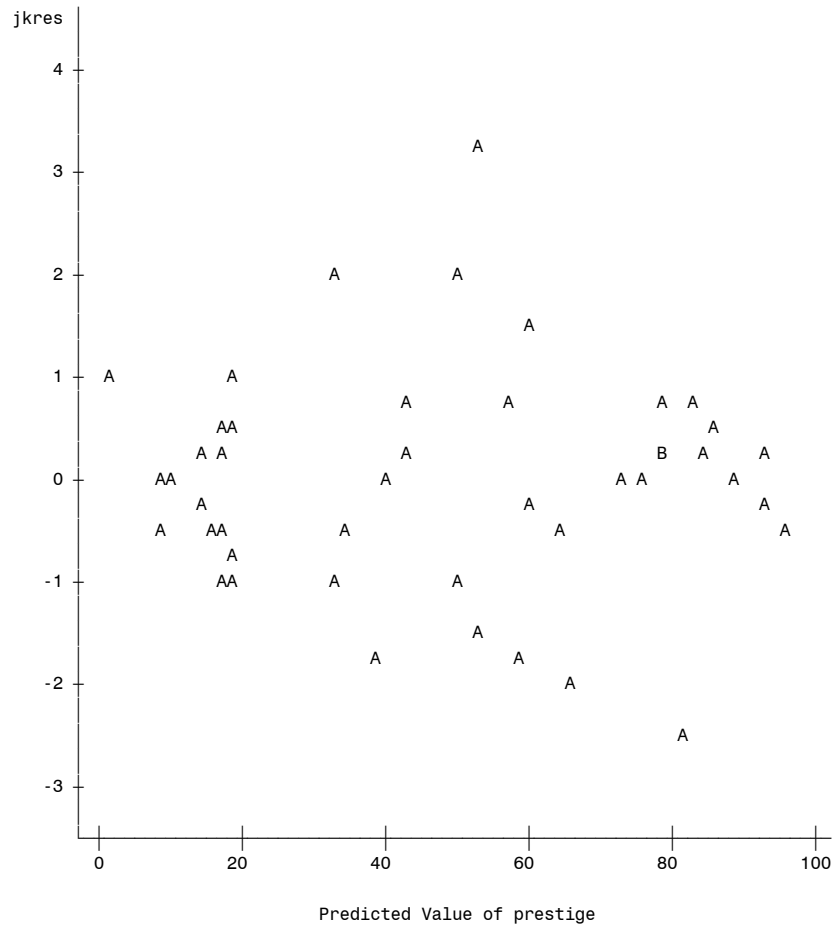
Analysis of Variance					
Source	DF	Sum of Squares	Mean Square	F Value	Pr > F
Model	2	36181	18090	101.22	<.0001
Error	42	7506.69865	178.73092		
Corrected Total	44	43688			

Root MSE	13.36903	R-Square	0.8282
Dependent Mean	47.68889	Adj R-Sq	0.8200
Coeff Var	28.03384		

Parameter Estimates					
Variable	DF	Parameter Estimate	Standard Error	t Value	Pr > t
Intercept	1	-6.06466	4.27194	-1.42	0.1631
education	1	0.54583	0.09825	5.56	<.0001
income	1	0.59873	0.11967	5.00	<.0001

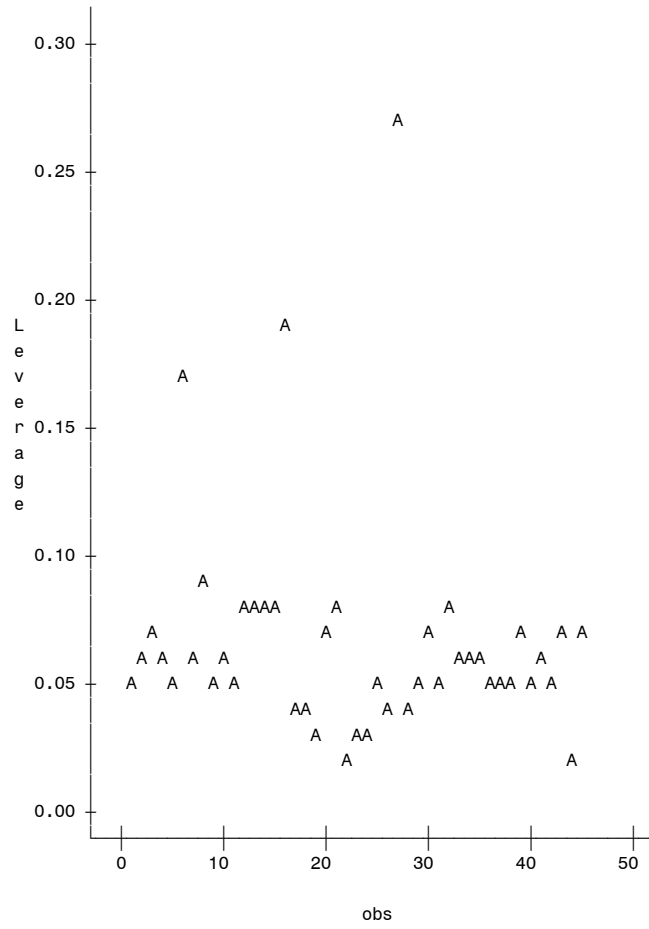
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Plot of jkres*pred. Legend: A = 1 obs, B = 2 obs, etc.



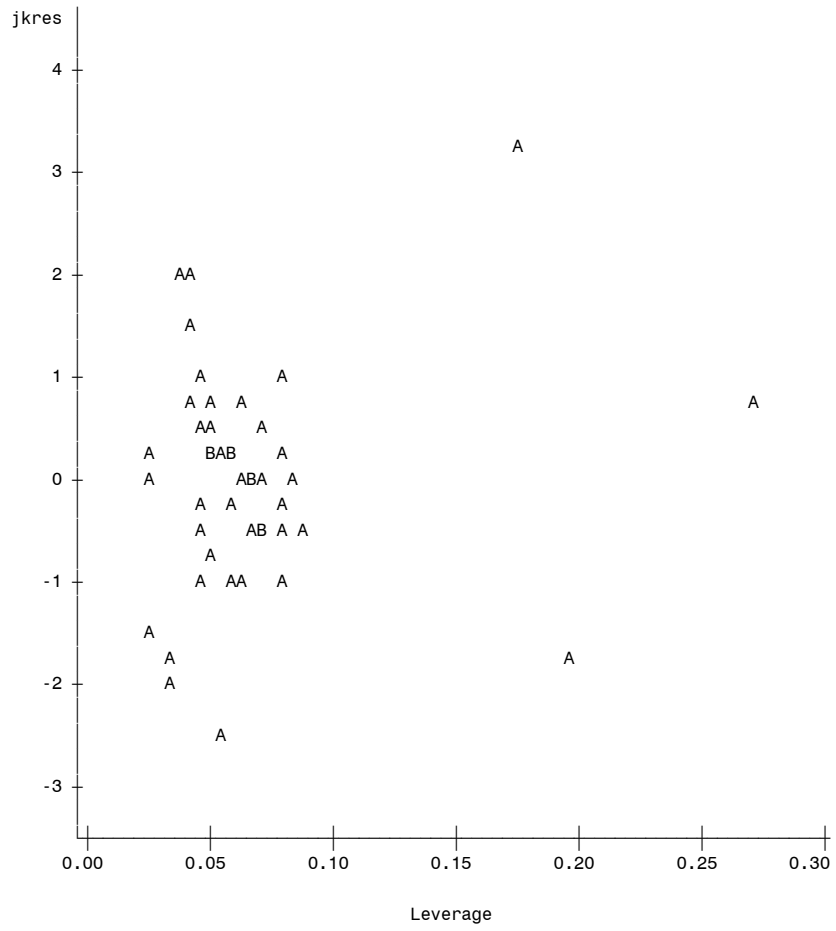
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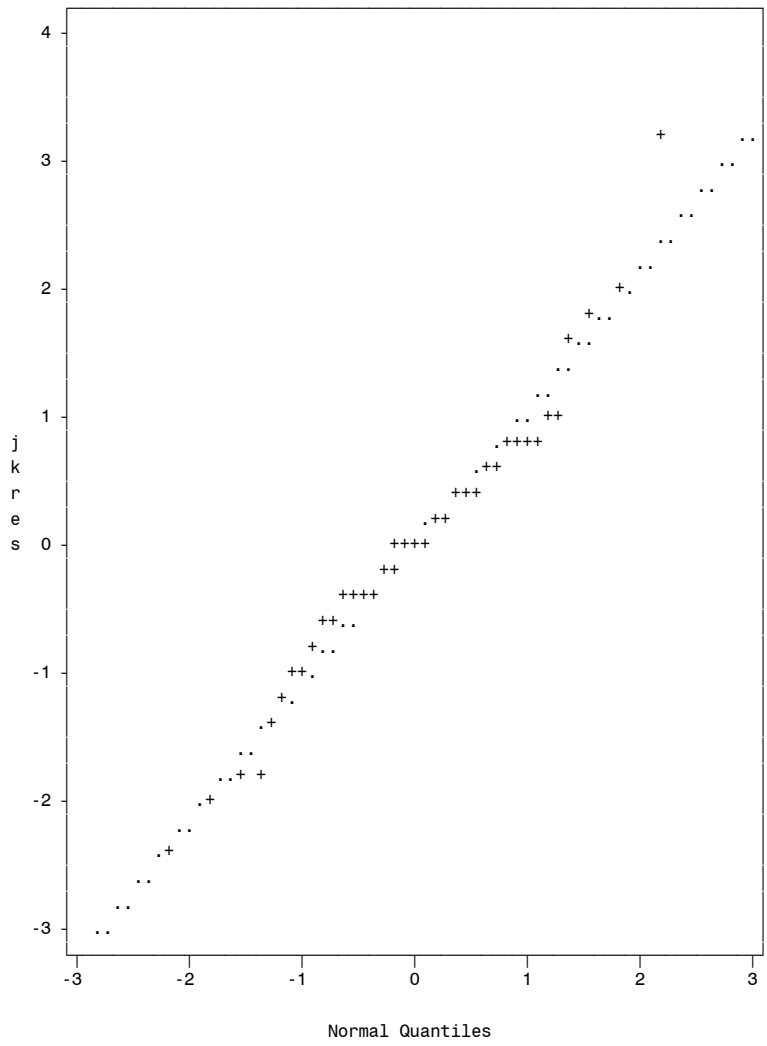
Plot of \hat{y} *obs. Legend: A = 1 obs, B = 2 obs, etc.



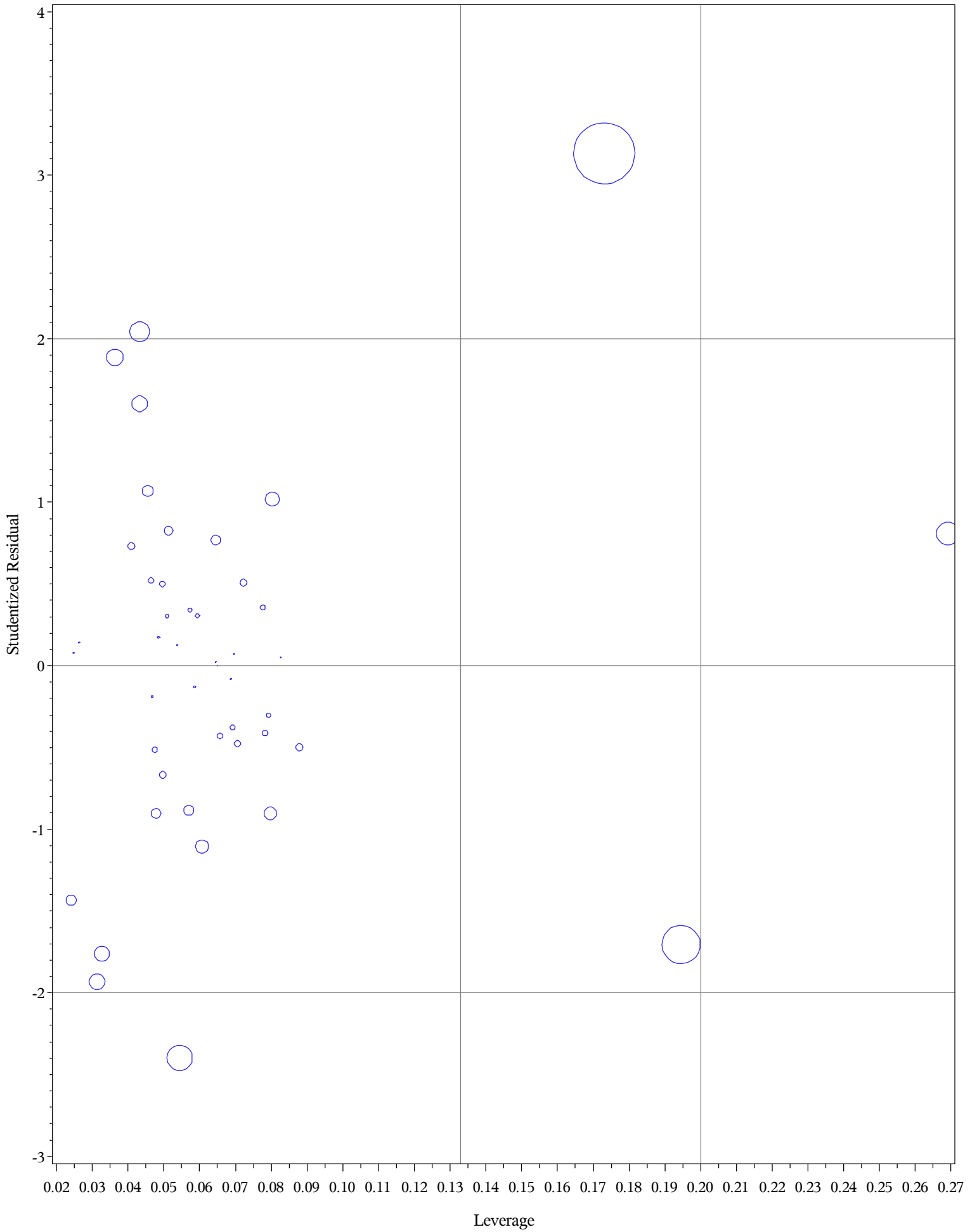
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Plot of $jkres \cdot \hat{h}$. Legend: A = 1 obs, B = 2 obs, etc.





Bubble Plot similar to Figure 11.5



The CORR Procedure

2 Variables:	income	education
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Covariance Matrix, DF = 44		
	income	education
income	597.0727273	526.8712121
education	526.8712121	885.7070707

Simple Statistics						
Variable	N	Mean	Std Dev	Sum	Minimum	Maximum
income	45	41.86667	24.43507	1884	7.00000	81.00000
education	45	52.55556	29.76083	2365	7.00000	100.00000

Pearson Correlation Coefficients, N = 45 Prob > r under H0: Rho=0		
	income	education
income	1.00000	0.72451 <.0001
education	0.72451 <.0001	1.00000

Obs	occupation	type	income	education	prestige	obs	pred	res	stres
1	accountant	prof	62	86	82	1	77.9985	4.0015	0.30724
2	pilot	prof	72	76	83	2	78.5275	4.4725	0.34456
3	architect	prof	75	92	90	3	89.0570	0.9430	0.07313
4	author	prof	55	90	76	4	75.9907	0.0093	0.00072
5	chemist	prof	64	86	90	5	79.1960	10.8040	0.82971
6	minister	prof	21	84	87	6	52.3588	34.6412	2.84942
7	professor	prof	64	93	93	7	83.0168	9.9832	0.77205
8	dentist	prof	80	100	90	8	96.4174	-6.4174	-0.50260
9	reporter	wc	67	87	52	9	81.5380	-29.5380	-2.27209
10	engineer	prof	72	86	88	10	83.9858	4.0142	0.30958

Obs	cook	hat	jkres	dffits	covr
1	0.00169	0.05093	0.30390	0.07040	1.12503
2	0.00241	0.05732	0.34092	0.08407	1.13069
3	0.00013	0.06964	0.07226	0.01977	1.15499
4	0.00000	0.06489	0.00071	0.00019	1.14957
5	0.01242	0.05133	0.82658	0.19226	1.07832
6	0.56638	0.17306	3.13452	1.43393	0.68239
7	0.01370	0.06449	0.76828	0.20172	1.10084
8	0.00811	0.08785	-0.49808	-0.15458	1.15737
9	0.09898	0.05439	-2.39702	-0.57490	0.76703
10	0.00201	0.05932	0.30622	0.07690	1.13496

s		sinv	
597.1	526.9	0.0035255	-0.002097
526.9	885.7	-0.002097	0.0023767

xbar	minister
41.87	21
52.56	84

ministerhat
0.1730672