

Simple Logistic Regression with a Dichotomous Predictor Party and Gubernatorial Candidate

Crosstabs

party * candidat governor candidate Crosstabulation

		candidat governor candidate		Total	
		.00 Dudley	1.00 Kitzhaber		
party	.00 Democrat	Count	15	30	45
		% within party	33.3%	66.7%	100.0%
		% within candidat governor candidate	27.3%	66.7%	45.0%
1.00 Republican	Count	40	15	55	
	% within party	72.7%	27.3%	100.0%	
	% within candidat governor candidate	72.7%	33.3%	55.0%	
Total	Count	55	45	100	
	% within party	55.0%	45.0%	100.0%	
	% within candidat governor candidate	100.0%	100.0%	100.0%	

Chi-Square Tests

	Value	df	Asymp. Sig. (2-sided)	Exact Sig. (2-sided)	Exact Sig. (1-sided)
Pearson Chi-Square	15.519 ^a	1	.000		
Continuity Correction ^b	13.968	1	.000		
Likelihood Ratio	15.887	1	.000		
Fisher's Exact Test				.000	.000
Linear-by-Linear Association	15.364	1	.000		
N of Valid Cases	100				

a. 0 cells (.0%) have expected count less than 5. The minimum expected count is 20.25.

b. Computed only for a 2x2 table

Symmetric Measures

		Value	Approx. Sig.
Nominal by Nominal	Phi	-.394	.000
	Cramer's V	.394	.000
N of Valid Cases		100	

Logistic Regression

```
logistic regression vars=candidat with party
/contrasts(party)=indicator(1)
/method=enter party
/print=summary ci
/classplot.
```

Note: The CONTRASTS subcommand is not needed if the predictor is coded 0,1 and you want the independent variable to be coded in the direction of the original scoring. But this produces a summary table of the coding for the binary predictor in the output.

Dependent Variable Encoding

Original Value	Internal Value
.00 Dudley	0
1.00 Kitzhaber	1

Categorical Variables Codings

		Frequency	Parameter coding (1)
party	.00 Democrat	45	.000
	1.00 Republican	55	1.000

Block 0: Beginning Block

Classification Table^{a, b}

Observed			Predicted		
			candidat governor candidate		Percentage Correct
			.00 Dudley	1.00 Kitzhaber	
Step 0	candidat governor candidate	.00 Dudley	55	0	100.0
		1.00 Kitzhaber	45	0	.0
Overall Percentage					55.0

a. Constant is included in the model.
b. The cut value is .500

Variables in the Equation

	B	S.E.	Wald	df	Sig.	Exp(B)
Step 0 Constant	-.201	.201	.997	1	.318	.818

Variables not in the Equation

	Score	df	Sig.
Step 0 Variables party(1)	15.519	1	.000
Overall Statistics	15.519	1	.000

Block 1: Method = Enter

Omnibus Tests of Model Coefficients

	Chi-square	df	Sig.
Step 1 Step	15.887	1	.000
Block	15.887	1	.000
Model	15.887	1	.000

Model Summary

Step	-2 Log likelihood	Cox & Snell R Square	Nagelkerke R Square
1	121.741 ^a	.147	.197

a. Estimation terminated at iteration number 4 because parameter estimates changed by less than .001.

Variables in the Equation

	B	S.E.	Wald	df	Sig.	Exp(B)	95% C.I. for EXP(B)	
							Lower	Upper
Step 1 ^a party(1)	-1.674	.438	14.620	1	.000	.188	.079	.442
Constant	.693	.316	4.805	1	.028	2.000		

a. Variable(s) entered on step 1: party.

