

# Chilean Plebiscite

November 22, 2012

```
> library(EffectStars)
> data(plebiscite)
> plebiscite$Population<-scale(plebiscite$Population)
> plebiscite$Age<-scale(plebiscite$Age)
> plebiscite$Income<-scale(plebiscite$Income)
```

Effect Stars for the multinomial logit model for the plebiscite data.

```
> star.nominal(Vote ~ SantiagoCity + Population + Gender + Age + Education +
+ Income, data = plebiscite, cex.cat = 1, cex.labels = 1.2, lwd.circle = 1.5)
```

\$odds

	(Intercept)	SantiagoCity	yes	Population	Gender	male	Age
Abstention	0.2858084	0.8937496	1.0853593	0.9419188	0.8001172		
No	1.2251590	0.8272647	1.2497740	1.6593994	0.9239648		
Undecided	1.2831154	1.4403700	0.9128111	0.7185662	1.1694036		
Yes	2.2257013	0.9390000	0.8076331	0.8903665	1.1567155		

  

	Education	high	Income
Abstention	1.4944138	0.9382879	
No	1.2635609	1.0386660	
Undecided	0.7673775	0.8203414	
Yes	0.6901189	1.2508157	

\$coefficients

	(Intercept)	SantiagoCity	yes	Population	Gender	male	Age
Abstention	-1.2524337	-0.11232963	0.08191105	-0.05983621	-0.22299709		
No	0.2030706	-0.18963053	0.22296275	0.50645575	-0.07908132		
Undecided	0.2492910	0.36490000	-0.09122633	-0.33049743	0.15649386		
Yes	0.8000721	-0.06293983	-0.21364747	-0.11612212	0.14558455		

  

	Education	high	Income
Abstention	0.4017340	-0.06369844	
No	0.2339338	0.03793721	
Undecided	-0.2647765	-0.19803464	
Yes	-0.3708914	0.22379587	

\$se

	(Intercept)	SantiagoCity	yes	Population	Gender	male	Age
Abstention	0.13833640	0.16898857	0.08377876	0.11920914	0.06957380		
No	0.08218670	0.09982376	0.05038966	0.07108402	0.03968102		
Undecided	0.08860475	0.12215554	0.05983268	0.08116448	0.04326369		

Yes	0.07859653	0.10932107	0.05187071	0.07213872	0.03894013
	Educationhigh	Income			
Abstention	0.14543581	0.06914881			
No	0.08552035	0.03950144			
Undecided	0.09269188	0.05516861			
Yes	0.08399087	0.03961437			

\$pvalues

	(Intercept)	SantiagoCityyes	Population	Gendermale	Age
Abstention	0.000000000	0.506231320	3.282194e-01	6.157076e-01	0.0013497436
No	0.013479405	0.057478639	9.654425e-06	1.042721e-12	0.0462696110
Undecided	0.004900275	0.002815684	1.273363e-01	4.662187e-05	0.0002977957
Yes	0.000000000	0.564795143	3.807744e-05	1.074621e-01	0.0001849911
	Educationhigh	Income			
Abstention	5.739973e-03	3.569570e-01			
No	6.230124e-03	3.368537e-01			
Undecided	4.283094e-03	3.311534e-04			
Yes	1.006121e-05	1.610455e-08			

\$p\_rel

	SantiagoCityyes	Population	Gendermale	Age	Educationhigh
[1,]	0.009177824	1.531455e-08	3.030909e-14	5.220075e-07	6.368859e-08
	Income				
[1,]	5.812134e-09				

\$xlim

[1] 5.786823 31.604959

\$ylim

[1] 5.541996 31.093048

