

***THE 2000 U.S. PRESIDENTIAL ELECTION:
CAN ECONOMIC VOTING BE SAVED?***

Appendix 2- Regression Data

Data Used to Construct:

Table 2- Are Presidents Still Held Accountable for the Economy?

Presidential Vote and Approval Probit Regressions- Voters Only

Two-Party Presidential Vote = Constant + Party ID (Democrat) + Party ID (Republican) + Presidential Performance (Approval) + DID*Approval + RID*Approval

1972 Presidential Performance Probit Regression

* * * * * P R O B I T A N A L Y S I S * * * * *

DATA Information

543 unweighted cases accepted.
 1119 cases rejected because of missing data.
 1324 cases are in the control group.

MODEL Information

ONLY Normal Sigmoid is requested.

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 * * * * * P R O B I T A N A L Y S I S * * * * *

Parameter estimates converged after 16 iterations.
 Optimal solution found.

Parameter Estimates (PROBIT model: (PROBIT(p)) = Intercept + BX):

	Regression Coeff.	Standard Error	Coeff./S.E.
BETECON	.03317	.14590	.22736
WRSEECON	-.43686	.20036	-2.18035
IDDEM	-.13540	.20798	-.65105
IDREP	1.07241	.22714	4.72126

	Intercept	Standard Error	Intercept/S.E.
	.53272	.20417	2.60924

Pearson Goodness-of-Fit Chi Square = 532.666 DF = 538 P = .557

Since Goodness-of-Fit Chi square is NOT significant, no heterogeneity factor is used in the calculation of confidence limits.

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 Covariance(below) and Correlation(above) Matrices of Parameter Estimates

	BETECON	WRSEECON	IDDEM	IDREP
BETECON	.02129	.42839	-.03974	-.07854
WRSEECON	.01252	.04015	-.07191	-.09342
IDDEM	-.00121	-.00300	.04325	.76406
IDREP	-.00260	-.00425	.03610	.05159

1976 Presidential Performance Probit Regression

* * * * * P R O B I T A N A L Y S I S * * * * *

DATA Information

1191 unweighted cases accepted.
 201 cases rejected because of missing data.
 2743 cases are in the control group.

MODEL Information

ONLY Normal Sigmoid is requested.

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Parameter estimates converged after 14 iterations.
 Optimal solution found.

Parameter Estimates (PROBIT model: (PROBIT(p)) = Intercept + BX):

	Regression Coeff.	Standard Error	Coeff./S.E.
BETECON	.22645	.11028	2.05337
WRSEECON	-.48986	.11516	-4.25358
IDDEM	-.54661	.12752	-4.28650
IDREP	.91411	.14252	6.41397

Intercept	Standard Error	Intercept/S.E.
.43084	.14312	3.01040

Pearson Goodness-of-Fit Chi Square = 1147.546 DF = 1186 P = .784

Since Goodness-of-Fit Chi square is NOT significant, no heterogeneity factor is used in the calculation of confidence limits.

 Covariance(below) and Correlation(above) Matrices of Parameter Estimates

	BETECON	WRSEECON	IDDEM	IDREP
BETECON	.01216	.64795	.07420	-.00831
WRSEECON	.00823	.01326	.02539	-.03688
IDDEM	.00104	.00037	.01626	.73641
IDREP	-.00013	-.00061	.01338	.02031

1980 Presidential Performance Probit Regression

* * * * * P R O B I T A N A L Y S I S * * * * *

DATA Information

921 unweighted cases accepted.
 83 cases rejected because of missing data.
 2046 cases are in the control group.

MODEL Information

ONLY Normal Sigmoid is requested.

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Parameter estimates converged after 14 iterations.
 Optimal solution found.

Parameter Estimates (PROBIT model: (PROBIT(p)) = Intercept + BX):

	Regression Coeff.	Standard Error	Coeff./S.E.
BETTECON	-.16217	.25214	-.64319
WRSEECON	-.55006	.13540	-4.06252
IDDEM	.75482	.15356	4.91558
IDREP	-.44996	.16505	-2.72627

Intercept	Standard Error	Intercept/S.E.
	-.15250	.18108
		-.84217

Pearson Goodness-of-Fit Chi Square = 920.149 DF = 916 P = .455

Since Goodness-of-Fit Chi square is NOT significant, no heterogeneity factor is used in the calculation of confidence limits.

 Covariance(below) and Correlation(above) Matrices of Parameter Estimates

	BETTECON	WRSEECON	IDDEM	IDREP
BETTECON	.06357	.46303	-.01946	-.03400
WRSEECON	.01581	.01833	-.01745	-.06553
IDDEM	-.00075	-.00036	.02358	.79669
IDREP	-.00141	-.00146	.02019	.02724

1984 Presidential Performance Probit Regression

* * * * * P R O B I T A N A L Y S I S * * * * *

DATA Information

1372 unweighted cases accepted.
 92 cases rejected because of missing data.
 3449 cases are in the control group.

MODEL Information

ONLY Normal Sigmoid is requested.

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Parameter estimates converged after 17 iterations.
 Optimal solution found.

Parameter Estimates (PROBIT model: (PROBIT(p)) = Intercept + BX):

	Regression Coeff.	Standard Error	Coeff./S.E.
BETTECON	.59304	.10185	5.82263
WRSEECON	-.68164	.11536	-5.90874
IDDEM	-1.76831	.09728	-18.17798
IDREP	.45494	.09492	4.79285

Intercept	Standard Error	Intercept/S.E.
1.17402	.09504	12.35346

Pearson Goodness-of-Fit Chi Square = 1505.686 DF = 1367 P = .005

Since Goodness-of-Fit Chi square is significant, a heterogeneity factor is used in the calculation of confidence limits.

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 Covariance(below) and Correlation(above) Matrices of Parameter Estimates

	BETTECON	WRSEECON	IDDEM	IDREP
BETTECON	.01037	.40167	.05704	-.00153
WRSEECON	.00472	.01331	-.09941	.02647
IDDEM	.00057	-.00112	.00946	-.23183
IDREP	-.00001	.00029	-.00214	.00901

1988 Presidential Performance Probit Regression

* * * * * P R O B I T A N A L Y S I S * * * * *

DATA Information

1174 unweighted cases accepted.
 61 cases rejected because of missing data.
 3001 cases are in the control group.

MODEL Information

ONLY Normal Sigmoid is requested.

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 * * * * * P R O B I T A N A L Y S I S * * * * *

Parameter estimates converged after 16 iterations.
 Optimal solution found.

Parameter Estimates (PROBIT model: (PROBIT(p)) = Intercept + BX):

	Regression Coeff.	Standard Error	Coeff./S.E.
BETTECON	.37395	.12571	2.97480
WRSEECON	-.48406	.09670	-5.00571
IDDEM	-1.22276	.17328	-7.05656
IDREP	.40519	.18044	2.24560

Intercept	Standard Error	Intercept/S.E.
.88214	.17012	5.18544

Pearson Goodness-of-Fit Chi Square = 1167.518 DF = 1169 P = .507

Since Goodness-of-Fit Chi square is NOT significant, no heterogeneity factor is used in the calculation of confidence limits.

 Covariance(below) and Correlation(above) Matrices of Parameter Estimates

	BETTECON	WRSEECON	IDDEM	IDREP
BETTECON	.01580	.30026	.01967	-.02713
WRSEECON	.00365	.00935	.01357	.03877
IDDEM	.00043	.00023	.03003	.85853
IDREP	-.00062	.00068	.02684	.03256

1992 Presidential Performance Probit Regression

* * * * * P R O B I T A N A L Y S I S * * * * *

DATA Information

1658 unweighted cases accepted.
 42 cases rejected because of missing data.
 3849 cases are in the control group.

MODEL Information

ONLY Normal Sigmoid is requested.

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Parameter estimates converged after 14 iterations.
 Optimal solution found.

Parameter Estimates (PROBIT model: (PROBIT(p)) = Intercept + BX):

	Regression Coeff.	Standard Error	Coeff./S.E.
BETTECON	.06832	.18662	.36609
WRSEECN	-.67451	.08518	-7.91838
IDDEM	-.26553	.12472	-2.12906
IDREP	1.29605	.12596	10.28913

	Intercept	Standard Error	Intercept/S.E.
	-.16053	.13095	-1.22591

Pearson Goodness-of-Fit Chi Square = 1655.848 DF = 1653 P = .476

Since Goodness-of-Fit Chi square is NOT significant, no heterogeneity factor is used in the calculation of confidence limits.

 Covariance(below) and Correlation(above) Matrices of Parameter Estimates

	BETTECON	WRSEECN	IDDEM	IDREP
BETTECON	.03483	.34149	-.01188	-.04104
WRSEECN	.00543	.00726	-.00644	.02580
IDDEM	-.00028	-.00007	.01555	.81817
IDREP	-.00096	.00028	.01285	.01587

1996 Presidential Performance Probit Regression

* * * * * P R O B I T A N A L Y S I S * * * * *

DATA Information

1155 unweighted cases accepted.
 20 cases rejected because of missing data.
 2868 cases are in the control group.

MODEL Information

ONLY Normal Sigmoid is requested.

* * * * * P R O B I T A N A L Y S I S * * * * *

Parameter estimates converged after 17 iterations.
 Optimal solution found.

Parameter Estimates (PROBIT model: (PROBIT(p)) = Intercept + BX):

	Regression Coeff.	Standard Error	Coeff./S.E.
BETTECON	.67685	.10707	6.32136
WRSEECON	-.52454	.12839	-4.08554
IDDEM	.93356	.18307	5.09958
IDREP	-.90380	.17394	-5.19619

Intercept	Standard Error	Intercept/S.E.
.37159	.17000	2.18581

Pearson Goodness-of-Fit Chi Square = 1124.379 DF = 1150 P = .700

Since Goodness-of-Fit Chi square is NOT significant, no heterogeneity factor is used in the calculation of confidence limits.

Covariance(below) and Correlation(above) Matrices of Parameter Estimates

	BETTECON	WRSEECON	IDDEM	IDREP
BETTECON	.01146	.30952	-.04971	-.04069
WRSEECON	.00426	.01648	.07252	.11726
IDDEM	-.00097	.00170	.03351	.83227
IDREP	-.00076	.00262	.02650	.03025

2000 Presidential Performance Probit Regression

* * * * * P R O B I T A N A L Y S I S * * * * *

DATA Information

1138 unweighted cases accepted.
 44 cases rejected because of missing data.
 3200 cases are in the control group.

MODEL Information

ONLY Normal Sigmoid is requested.

* * * * * P R O B I T A N A L Y S I S * * * * *

Parameter estimates converged after 16 iterations.
 Optimal solution found.

Parameter Estimates (PROBIT model: (PROBIT(p)) = Intercept + BX):

	Regression Coeff.	Standard Error	Coeff./S.E.
BETTECON	.30108	.09566	3.14744
WRSEECON	-.29439	.12241	-2.40502
IDDEM	.96557	.11132	8.67397
IDREP	-.84640	.09845	-8.59740

Intercept	Standard Error	Intercept/S.E.
.31591	.08001	3.94857

Pearson Goodness-of-Fit Chi Square = 1146.758 DF = 1133 P = .381

Since Goodness-of-Fit Chi square is NOT significant, no heterogeneity factor is used in the calculation of confidence limits.

Covariance(below) and Correlation(above) Matrices of Parameter Estimates

	BETTECON	WRSEECON	IDDEM	IDREP
BETTECON	.00915	.31685	-.03356	.07705
WRSEECON	.00371	.01498	.07862	.05516
IDDEM	-.00036	.00107	.01239	.38606
IDREP	.00073	.00066	.00423	.00969

Basic Analogy Regressions

1972 Basic Analogy Regression without an ideology variable.

Probit estimates	Number of obs	523
	LR chi2(9)	266.75
	Prob > chi2	0
Log likelihood = -165.3055	Pseudo R2	0.4465

presvot	Coef.	Std. Err.	z	P> z	[95% Conf.	Interval]
ldem	-0.3911098	0.2655151	-1.473	0.141	-0.9115098	0.1292902
ldrep	0.6909172	0.2858828	2.417	0.016	0.1305972	1.251237
betecon	-0.1001633	0.1696487	-0.59	0.555	-0.4326686	0.232342
wrseecon	-0.1728243	0.2492671	-0.693	0.488	-0.6613788	0.3157303
presperf	1.765246	0.1758843	10.036	0	1.420519	2.109973
demperso	-0.0331803	0.1265141	-0.262	0.793	-0.2811433	0.2147827
demexper	-0.0283305	0.1307279	-0.217	0.828	-0.2845524	0.2278913
repperso	-0.0488377	0.1367786	-0.357	0.721	-0.3169188	0.2192435
repexper	0.5058381	0.1279799	3.952	0	0.255002	0.7566741
_cons	-0.8375195	0.2945734	-2.843	0.004	-1.414873	-0.2601662

1972 Basic Analogy Regression with Ideological Proximity- Ideoscore

Probit estimates	Number of obs	393
	LR chi2(10)	256.41
	Prob > chi2	0
Log likelihood = -90.28691	Pseudo R2	0.5868

presvot	Coef.	Std. Err.	z	P> z	[95% Conf.	Interval]
iddem	-0.3225409	0.3801732	-0.848	0.396	-1.067667	0.4225848
idrep	0.7797387	0.4179588	1.866	0.062	-0.0394455	1.598923
betecon	-0.0529093	0.2333999	-0.227	0.821	-0.5103647	0.4045462
wrseecon	-0.0421844	0.3458489	-0.122	0.903	-0.7200357	0.635667
presperf	1.529523	0.2387633	6.406	0	1.061555	1.99749
demperso	-0.2740249	0.1624978	-1.686	0.092	-0.5925147	0.0444648
demexper	0.0022934	0.1853892	0.012	0.99	-0.3610627	0.3656494
repperso	-0.1010608	0.1848161	-0.547	0.585	-0.4632936	0.2611721
repexper	0.3702002	0.1776966	2.083	0.037	0.0219214	0.7184791
ideoscor	-0.3544256	0.0573898	-6.176	0	-0.4669076	-0.2419436
_cons	-0.6263081	0.4171086	-1.502	0.133	-1.443826	0.1912098

1972 Basic Analogy Regression with Ideological Self-Placement- Ideoself.

Probit estimates Number of obs 424
LR chi2(10) 248.12
Prob > chi2 0
 Log likelihood = -111.01682 Pseudo R2 0.5277

presvot	Coef.	Std. Err.	z	P> z	[95% Conf.	Interval]
iddem	-0.412609	0.335546	-1.23	0.219	-1.070267	0.2450491
idrep	0.8501638	0.3718788	2.286	0.022	0.1212948	1.579033
betecon	0.0227002	0.2106873	0.108	0.914	-0.3902394	0.4356398
wrseecon	-0.0418518	0.301776	-0.139	0.89	-0.6333218	0.5496182
presperf	1.517756	0.2145241	7.075	0	1.097296	1.938215
demperso	-0.2635534	0.1526186	-1.727	0.084	-0.5626803	0.0355736
demexper	-0.0686528	0.1688977	-0.406	0.684	-0.3996863	0.2623807
repperso	-0.1090631	0.1695573	-0.643	0.52	-0.4413894	0.2232632
repexper	0.4651747	0.1583581	2.937	0.003	0.1547985	0.7755509
selfideo	0.4432835	0.0851678	5.205	0	0.2763576	0.6102093
_cons	-2.335407	0.5013767	-4.658	0	-3.318087	-1.352726

1976 Basic Analogy Regression with Ideological Self-Placement- Ideoself.

Probit estimates Number of obs 889
LR chi2(10) 632.71
Prob > chi2 0
 Log likelihood = -294.55079 Pseudo R2 0.5178

presvot	Coef.	Std. Err.	z	P> z	[95% Conf.	Interval]
iddem	-0.6691842	0.1749787	-3.824	0	-1.012136	-0.3262323
idrep	0.7632013	0.1855337	4.114	0	0.399562	1.126841
betecon	0.2133491	0.1598854	1.334	0.182	-0.1000205	0.5267188
wrseecon	-0.0635932	0.1802383	-0.353	0.724	-0.4168537	0.2896673
presperf	1.489878	0.1430937	10.412	0	1.20942	1.770337
demperso	-0.1704439	0.0617247	-2.761	0.006	-0.2914221	-0.0494656
demexper	0.1140292	0.0716725	1.591	0.112	-0.0264462	0.2545046
repperso	0.1689498	0.0811668	2.082	0.037	0.0098659	0.3280338
repexper	-0.0473911	0.0623988	-0.759	0.448	-0.1696906	0.0749083
ideoself	0.2373729	0.0508121	4.672	0	0.1377831	0.3369627
_cons	-1.93089	0.3170723	-6.09	0	-2.552341	-1.30944

1980 Basic Analogy Regression with Ideological Self-Placement- Ideoself.

Probit estimates Number of obs 580
LR chi2(10) 436.29
Prob > chi2 0
 Log likelihood = -170.52232 Pseudo R2 0.5613

presvote	Coef.	Std. Err.	z	P> z	[95% Conf.	Interval]
iddem	1.745575	0.312952	5.578	0	1.132201	2.35895
ldrep	0.1101288	0.3359165	0.328	0.743	-0.5482554	0.768513
bettecon	-0.5127869	0.5374556	-0.954	0.34	-1.566181	0.5406067
wrseecon	-0.6024684	0.2525314	-2.386	0.017	-1.097421	-0.1075159
presperf	1.448548	0.1619781	8.943	0	1.131077	1.766019
demperso	0.1795633	0.0973592	1.844	0.065	-0.0112571	0.3703838
demexper	0.1990249	0.0888479	2.24	0.025	0.0248862	0.3731635
repperso	0.102544	0.098824	1.038	0.299	-0.0911476	0.2962355
repexper	-0.1468914	0.0993031	-1.479	0.139	-0.3415219	0.047739
ideoself	-0.2597199	0.0625848	-4.15	0	-0.3823838	-0.1370559
_cons	-0.4783122	0.4660305	-1.026	0.305	-1.391715	0.4350909

1984 Basic Analogy Regression without an ideology variable.

Probit estimates

Number of obs 1303
 LR chi2(9) 1083.54
 Prob > chi2 0
 Pseudo R2 0.6154

Log likelihood = -338.61051

presvote	Coef.	Std. Err.	z	P> z	[95% Conf.	Interval]
ididem	-1.484361	0.117853	-12.595	0	-1.715348	-1.253373
idrep	0.2307283	0.1147625	2.01	0.044	0.0057978	0.4556587
bettecon	0.3341487	0.1204198	2.775	0.006	0.0981302	0.5701673
wrseecon	-0.0520455	0.1558912	-0.334	0.738	-0.3575866	0.2534956
presperf	1.760445	0.128642	13.685	0	1.508311	2.012579
demperso	-0.1933226	0.0778879	-2.482	0.013	-0.3459801	-0.0406651
demexper	-0.0888568	0.0960284	-0.925	0.355	-0.277069	0.0993554
repperso	0.1355952	0.0651156	2.082	0.037	0.0079709	0.2632195
repexper	0.1657957	0.09256	1.791	0.073	-0.0156185	0.3472099
_cons	-0.3785982	0.1611434	-2.349	0.019	-0.6944336	-0.0627629

1984 Basic Analogy Regression with Ideological Proximity- Ideoscore

Probit estimates

Number of obs 984
 LR chi2(10) 860.67
 Prob > chi2 0
 Pseudo R2 0.6509

Log likelihood = -230.83768

presvote	Coef.	Std. Err.	z	P> z	[95% Conf.	Interval]
ldem	-1.145718	0.1521216	-7.532	0	-1.44387	-0.8475649
ldrep	0.066299	0.1392399	0.476	0.634	-0.2066062	0.3392041
bettecon	0.2075883	0.1494177	1.389	0.165	-0.085265	0.5004417
wrseecon	-0.1464383	0.1880111	-0.779	0.436	-0.5149333	0.2220567
presperf	1.466748	0.1584528	9.257	0	1.156186	1.77731
demperso	-0.2119518	0.089672	-2.364	0.018	-0.3877056	-0.036198
demexper	-0.0937228	0.1109134	-0.845	0.398	-0.3111092	0.1236635
repperso	0.1301146	0.0771561	1.686	0.092	-0.0211086	0.2813378
repexper	0.2021321	0.1098766	1.84	0.066	-0.0132222	0.4174863
ideoscor	-0.2334849	0.0397029	-5.881	0	-0.3113012	-0.1556686
_cons	-0.1532299	0.2024108	-0.757	0.449	-0.5499478	0.243488

1984 Basic Analogy Regression with Ideological Self-Placement- Ideoself.

Probit estimates

	Number of obs	1026
	LR chi2(10)	872.98
	Prob > chi2	0
Log likelihood =	Pseudo R2	0.6327
		-253.44884

presvote	Coef.	Std. Err.	z	P> z	[95% Conf.	Interval]
ldem	-1.321009	0.1408041	-9.382	0	-1.59698	-1.045038
ldrep	0.0561699	0.1336523	0.42	0.674	-0.2057837	0.3181235
bettecon	0.2849328	0.1419133	2.008	0.045	0.0067878	0.5630777
wrseecon	-0.1599846	0.1801473	-0.888	0.374	-0.5130668	0.1930977
presperf	1.685515	0.1505994	11.192	0	1.390345	1.980684
demperso	-0.166218	0.0866291	-1.919	0.055	-0.3360079	0.0035718
demexper	-0.0992723	0.1055941	-0.94	0.347	-0.3062329	0.1076882
repperso	0.1409375	0.0736155	1.915	0.056	-0.0033463	0.2852213
repexper	0.2106935	0.104659	2.013	0.044	0.0055656	0.4158213
ideoself	0.1961001	0.0502573	3.902	0	0.0975977	0.2946025
_cons	-1.130707	0.2901876	-3.896	0	-1.699464	-0.5619499

1988 Basic Analogy Regression with Ideological Self-Placement- Ideoself.

Probit estimates

	Number of obs	902	
	LR chi2(10)	729.84	
	Prob > chi2	0	
Log likelihood =	-255.5974	Pseudo R2	0.5881

presvote	Coef.	Std. Err.	z	P> z	[95% Conf.	Interval]
ldem	-0.8604457	0.2230928	-3.857	0	-1.2977	-0.4231918
ldrep	0.8848277	0.2233847	3.961	0	0.4470018	1.322654
bettecon	0.3509321	0.1654079	2.122	0.034	0.0267386	0.6751255
wrseecon	-0.0467807	0.1482864	-0.315	0.752	-0.3374167	0.2438553
presperf	1.324402	0.1448961	9.14	0	1.040411	1.608393
demperso	0.006654	0.0809216	0.082	0.934	-0.1519493	0.1652574
demexper	-0.0860328	0.0911232	-0.944	0.345	-0.264631	0.0925654
repperso	0.0810889	0.0856324	0.947	0.344	-0.0867476	0.2489254
repexper	0.1781878	0.0776152	2.296	0.022	0.0260648	0.3303109
ideoself	0.2094292	0.054241	3.861	0	0.1031188	0.3157395
_cons	-1.872785	0.3353843	-5.584	0	-2.530126	-1.215444

1992 Basic Analogy Regression with Ideological Self-Placement- Ideoself.

Probit estimates		Number of obs	1062
		LR chi2(10)	993.97
		Prob > chi2	0
Log likelihood =	-231.88201	Pseudo R2	0.6819

presvote	Coef.	Std. Err.	z	P> z	[95% Conf.	Interval]
ldem	-1.11915	0.2152168	-5.2	0	-1.540967	-0.6973329
ldrep	0.7012479	0.2177425	3.221	0.001	0.2744804	1.128015
bettecon	1.003072	0.3858548	2.6	0.009	0.2468103	1.759333
wrseecon	-0.0952224	0.1603324	-0.594	0.553	-0.4094681	0.2190234
presperf	1.454829	0.1397004	10.414	0	1.181022	1.728637
demperso	-0.2168072	0.0726818	-2.983	0.003	-0.3592608	-0.0743536
demexper	-0.2544296	0.083334	3.053	0.002	0.0910981	0.4177611
repperso	0.0588904	0.0816345	0.721	0.471	-0.1011102	0.218891
repexper	0.0085155	0.078387	0.109	0.913	-0.1451202	0.1621513
ideoself	0.3266718	0.0566185	5.77	0	0.2157015	0.437642
_cons	-2.034322	0.3451864	-5.893	0	-2.710875	-1.35777

