08 March 2017

1   Overview

At our previous meeting we decided to do the following:

- Conduct additional analyses using fixed effects and separating out aggregate results by party and majority status

- Check variables, especially the vote share and presidential vote share

- Include past tables and figures in the weekly update to allow us to review them together more easily

I have done these things and include the results below. It should be noted that what previously appeared to be an interesting trend amongst Republicans in the House Majority in the DV/IV plots resulted from the fact that the plots of majority and minority party points were plotted together and overlapped in many cases. I apologize for not previously working to account for this and in future instances which I do such dense plots I will reduce the opacity of points so the resulting plots are not similarly misleading. The Senate fixed effects models put the sign on presidential vote share in the same direction across the board.

I further demonstrate the variable's integrity by showing plots of it against Democratic presidential vote share (which we also have in our data). I do this for all observations and for observations broken down by party. I then show a summary table of the two party vote share variable for all Senators and decomposed by party. Note: the particularly low Democratic presidential vote shares come from the electoral routing of George McGovern in Southern states, results which I verified with outside sources. Since it is above 0.50 for all Senators (as would be expected), I remain confident that it is correctly coded. I did find that we had a few Senators missing the best committee variable (though not other committee variables) and one with no party free responsiveness variable. I have added the relevant values for the best committee based on the other data we had and have dropped the Senator with no party free responsiveness from all analyses. I also found that there were members of the House that had missing values in our main DV and IVs that we were not previously including in our 'drop' variable, which I have corrected.

During the course of the week Alan pointed out that we had Senators coded as freshmen beyond their first Congress. This was because we had been counting them as freshmen for their first three Congresses. I have changed the freshman variable to instead reflect only the first Congress which a Senator is present with a separate variable covering the time of their first Senate term length. Because of this change, Senate tables and figures which included this variable have been recreated, though substantively I have not noticed any meaningful changes to the results from this.

If there are any tables or figures from past weekly updates you would like to see included in this file please let me know and I will update it to include them.

2 New Tables and Figures

2.1 New Models

Table 1: Senate Inter Party Fixed Effects Models

	Democrats	Republicans	Majority	Minority
ideological_extremism	2.88***	4.00***	1.80**	3.93***
	(0.69)	(0.75)	(0.64)	(0.97)
pfrate100	0.37***	0.25***	0.37***	0.18*
	(0.05)	(0.05)	(0.05)	(0.07)
vote_share	2.52	−5.42	2.27	−2.05
	(2.49)	(2.94)	(2.65)	(3.65)
pres_vote_share	27.46***	8.66	30.65***	13.92*
	(4.11)	(5.46)	(5.85)	(5.87)
freshman	0.71	0.98*	0.77	0.78
	(0.48)	(0.46)	(0.46)	(0.76)
retiree	0.25	0.88	0.36	0.75
	(0.83)	(0.83)	(0.99)	(0.91)
best_committee	0.14	0.11	0.29	0.36*
	(0.12)	(0.16)	(0.15)	(0.18)
up_for_reelection	−0.55*	−1.55***	−1.02***	−1.04**
	(0.27)	(0.34)	(0.28)	(0.37)
power_committee	−0.48	−0.22	−1.26	−0.45
	(0.70)	(0.98)	(0.89)	(1.01)
leader	0.87	1.46*	1.39	1.31
	(0.47)	(0.62)	(0.78)	(0.80)
chair	0.38	0.65	−0.57	
	(0.64)	(0.71)	(0.56)	
Num. obs.	1042	951	1052	843
R^2 (full model)	0.89	0.91	0.92	0.94
R^2 (proj model)	0.26	0.19	0.31	0.17
Adj. R^2 (full model)	0.87	0.88	0.89	0.91
Adj. R^2 (proj model)	0.09	-0.02	0.02	-0.21

***$p < 0.001$, **$p < 0.01$, *$p < 0.05$

Table 2: Senate Intra Party Fixed Effects Models

	Democrats		Republicans	
	Southern	Others	Gingrich Senators	Others
ideological_extremism	10.78***	2.05***	2.11	4.01***
	(2.64)	(0.56)	(1.52)	(0.88)
pfrate100	0.05	0.37***	0.11	0.27***
	(0.14)	(0.06)	(0.11)	(0.06)
vote_share	1.32	5.16	−0.74	−6.78
	(3.41)	(2.87)	(4.45)	(3.52)
pres_vote_share	21.64	12.74*	0.13	11.00
	(11.42)	(5.61)	(6.74)	(6.36)
freshman	0.77	1.06*	−0.41	1.53**
	(0.82)	(0.51)	(0.85)	(0.58)
retiree	−2.88	0.87	1.41	0.77
	(2.10)	(0.64)	(1.04)	(0.94)
best_committee	0.49	0.04	0.29	0.06
	(0.32)	(0.12)	(0.29)	(0.18)
up_for_reelection	−0.42	−0.45	−0.64	−1.81***
	(0.71)	(0.28)	(0.54)	(0.40)
power_committee	−2.11	−0.10	−0.84	0.13
	(2.19)	(0.67)	(1.18)	(1.16)
leader	2.73	0.79	1.02	1.51*
	(2.27)	(0.50)	(0.86)	(0.73)
chair	1.77	0.29	−1.16	0.75
	(1.55)	(0.60)	(0.94)	(0.83)
Num. obs.	246	796	188	763
R^2 (full model)	0.91	0.87	0.66	0.91
R^2 (proj model)	0.30	0.22	0.12	0.21
Adj. R^2 (full model)	0.87	0.84	0.50	0.88
Adj. R^2 (proj model)	0.01	0.03	-0.31	0.00

***$p < 0.001$, **$p < 0.01$, *$p < 0.05$

Table 3: Senate Party & Majority Status Models

	Democrats		Republicans	
	Majority	Minority	Majority	Minority
ideological_extremism	1.07*	5.56***	7.56***	8.31***
	(0.46)	(0.79)	(0.45)	(0.51)
chair	0.10		−1.35	
	(0.60)		(0.76)	
pfrate100	0.86***	0.65***	0.64***	0.66***
	(0.03)	(0.07)	(0.04)	(0.05)
pres_vote_share	23.93***	20.49***	−15.18***	−12.65*
	(2.38)	(5.51)	(3.37)	(4.98)
south	−1.98**	−1.21	−1.54*	2.80**
	(0.61)	(1.10)	(0.68)	(0.88)
power_committee	−0.36	−2.29	1.03	−0.90
	(0.81)	(1.57)	(1.05)	(1.43)
vote_share	−3.68	−7.10	10.31**	21.20***
	(2.31)	(4.21)	(3.24)	(4.24)
female	0.60	2.59	−0.76	2.38
	(0.83)	(1.43)	(1.20)	(1.89)
afam	2.80	−3.08		−9.46*
	(3.59)	(4.36)		(4.71)
latino	−0.04	9.17	10.24**	3.85
	(1.94)	(7.44)	(3.22)	(4.02)
up_for_reelection	−0.49	−0.73	−1.61**	−1.65*
	(0.45)	(0.85)	(0.62)	(0.82)
seniority	0.04	0.14	0.35***	−0.01
	(0.07)	(0.09)	(0.10)	(0.11)
freshman	0.77	0.98	0.39	0.37
	(0.71)	(1.77)	(0.93)	(1.32)
retiree	2.46**	1.12	0.92	3.55*
	(0.93)	(1.86)	(1.31)	(1.38)
best_committee	0.17	0.53*	−0.41*	0.27
	(0.13)	(0.25)	(0.17)	(0.24)
leader	0.79	4.84**	0.95	0.71
	(0.77)	(1.47)	(0.95)	(1.15)
(Intercept)	1.98	15.49*	36.90***	14.28*
	(3.03)	(6.14)	(3.96)	(5.61)
R^2	0.79	0.59	0.68	0.65
Adj. R^2	0.78	0.57	0.67	0.64
Num. obs.	623	370	429	473
RMSE	5.01	7.23	5.45	7.88

***$p < 0.001$, **$p < 0.01$, *$p < 0.05$

Table 4: House Inter Party Fixed Effects Models

	Democrats	Republicans	Majority	Minority
ideological_extremism	2.66***	1.03***	1.25***	2.35***
	(0.30)	(0.29)	(0.28)	(0.25)
pfrate100	0.21***	−0.00	0.14***	0.13***
	(0.04)	(0.03)	(0.04)	(0.04)
pres_votepct	0.03	−0.00	−0.01	0.06
	(0.02)	(0.03)	(0.03)	(0.03)
votepct	0.01	−0.00	0.00	0.01
	(0.01)	(0.01)	(0.01)	(0.01)
freshman	0.51	0.49	0.91***	0.01
	(0.27)	(0.29)	(0.27)	(0.36)
bestgrosswart	0.01	0.01	0.01	−0.01
	(0.03)	(0.03)	(0.03)	(0.03)
leader	0.23	1.60**	0.75	1.34
	(0.54)	(0.58)	(0.44)	(0.81)
power	0.18	−0.34	0.64	−0.26
	(0.45)	(0.46)	(0.39)	(0.50)
chair	0.58	1.65*	0.91	
	(0.66)	(0.66)	(0.56)	
Num. obs.	4746	3798	4902	3642
R^2 (full model)	0.91	0.90	0.94	0.91
R^2 (proj model)	0.08	0.03	0.06	0.07
Adj. R^2 (full model)	0.88	0.87	0.91	0.88
Adj. R^2 (proj model)	-0.14	-0.26	-0.32	-0.32

***$p < 0.001$, **$p < 0.01$, *$p < 0.05$

Table 5: House Intra Party Fixed Effects Models

	Southern Democrats	Other Democrats
ideological_extremism	3.18***	1.83***
	(0.61)	(0.30)
pfrate100	0.34***	0.11*
	(0.07)	(0.05)
pres_votepct	0.10	0.01
	(0.05)	(0.03)
votepct	0.01	0.01
	(0.01)	(0.01)
freshman	1.07	0.02
	(0.58)	(0.28)
bestgrosswart	0.01	0.01
	(0.08)	(0.03)
leader	0.86	-0.12
	(1.12)	(0.66)
power	0.79	-0.39
	(1.06)	(0.34)
chair	2.06	0.21
	(1.44)	(0.46)
Num. obs.	1370	3376
R^2 (full model)	0.93	0.86
R^2 (proj model)	0.14	0.04
Adj. R^2 (full model)	0.91	0.82
Adj. R^2 (proj model)	-0.10	-0.18

$^{***}p < 0.001$, $^{**}p < 0.01$, $^{*}p < 0.05$

Table 6: House Party & Majority Status Models

	Democrats		Republicans	
	Majority	Minority	Majority	Minority
ideological_extremism	9.44***	5.50***	0.90***	10.22***
	(0.21)	(0.28)	(0.16)	(0.24)
pfrate100	0.72***	0.46***	0.12***	0.59***
	(0.02)	(0.03)	(0.02)	(0.03)
pres_votepct	0.07***	0.34***	0.27***	0.04
	(0.01)	(0.02)	(0.02)	(0.02)
south	−0.89**	−3.27***	1.18***	1.42***
	(0.34)	(0.48)	(0.28)	(0.38)
votepct	−0.05***	−0.11***	−0.05***	−0.06***
	(0.01)	(0.02)	(0.01)	(0.01)
female	−0.05	1.36**	−0.87*	−0.28
	(0.48)	(0.48)	(0.44)	(0.69)
afam	−1.43*	−0.72	0.70	8.61
	(0.58)	(0.64)	(1.85)	(5.25)
latino	3.57***	−0.32	0.95	0.16
	(0.70)	(0.68)	(0.79)	(1.60)
seniority	0.13***	0.01	−0.15***	−0.26***
	(0.04)	(0.05)	(0.04)	(0.06)
freshman	−0.31	−0.49	1.92***	−1.02*
	(0.41)	(0.65)	(0.39)	(0.51)
bestgrosswart	−0.06*	0.14***	−0.11***	−0.37***
	(0.02)	(0.03)	(0.02)	(0.03)
leader	2.31**	2.30**	2.78***	2.49**
	(0.79)	(0.83)	(0.68)	(0.81)
power	1.92***	−0.01	2.32***	2.18***
	(0.32)	(0.49)	(0.30)	(0.43)
chair	1.15*		2.02***	
	(0.53)		(0.48)	
(Intercept)	18.71***	28.81***	69.10***	30.05***
	(2.03)	(2.63)	(1.66)	(2.76)
R^2	0.69	0.54	0.28	0.54
Adj. R^2	0.69	0.53	0.27	0.54
Num. obs.	3323	1423	1579	2219
RMSE	7.19	6.74	4.82	7.41

***$p < 0.001$, **$p < 0.01$, *$p < 0.05$

2.2 New Plots

Figure 1: Senate IV/IV Plot, Majority Democrats
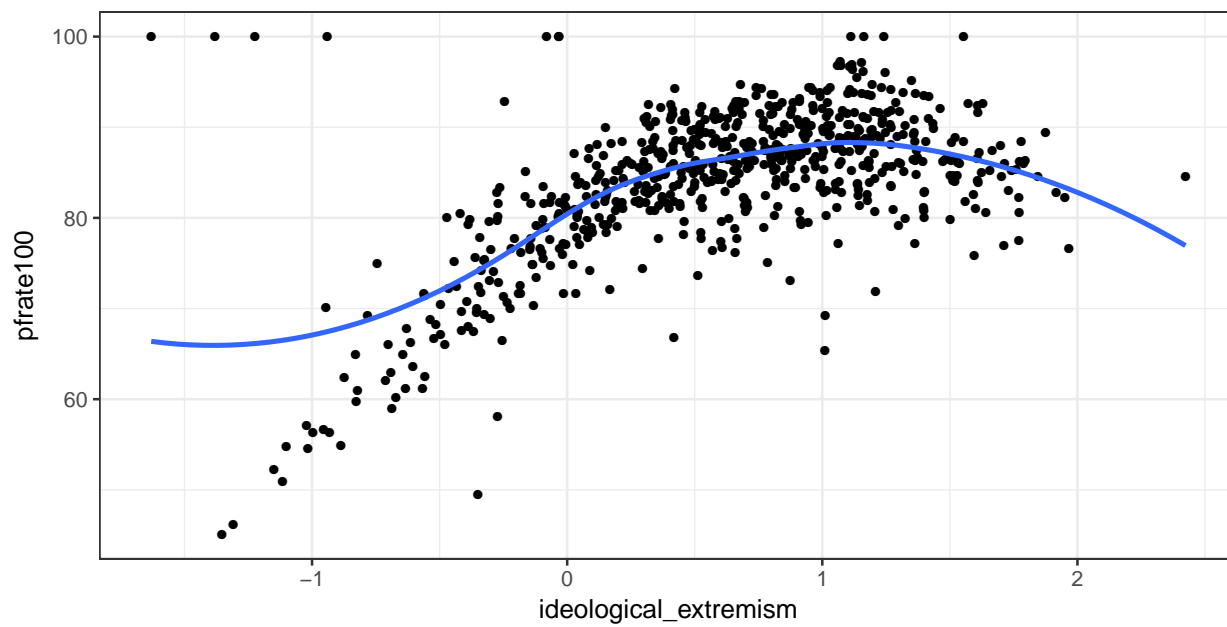
Figure 2: Senate DV/IV Plot, Majority Democrats
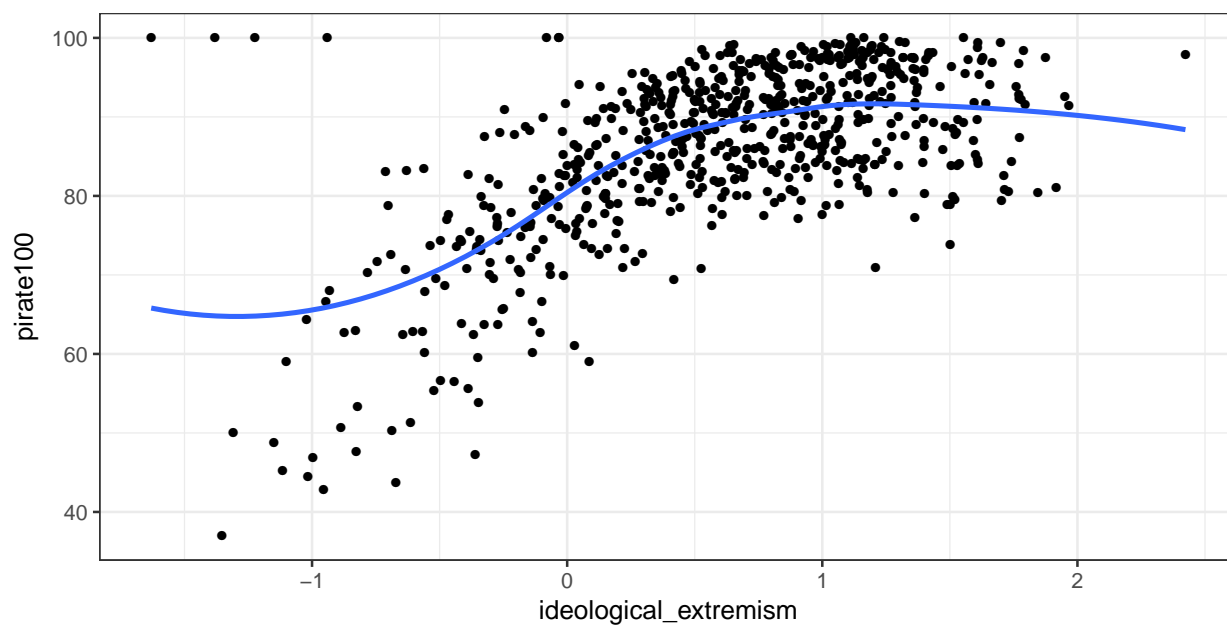
Figure 3: Senate IV/IV Plot, Majority Democrats, South/Other
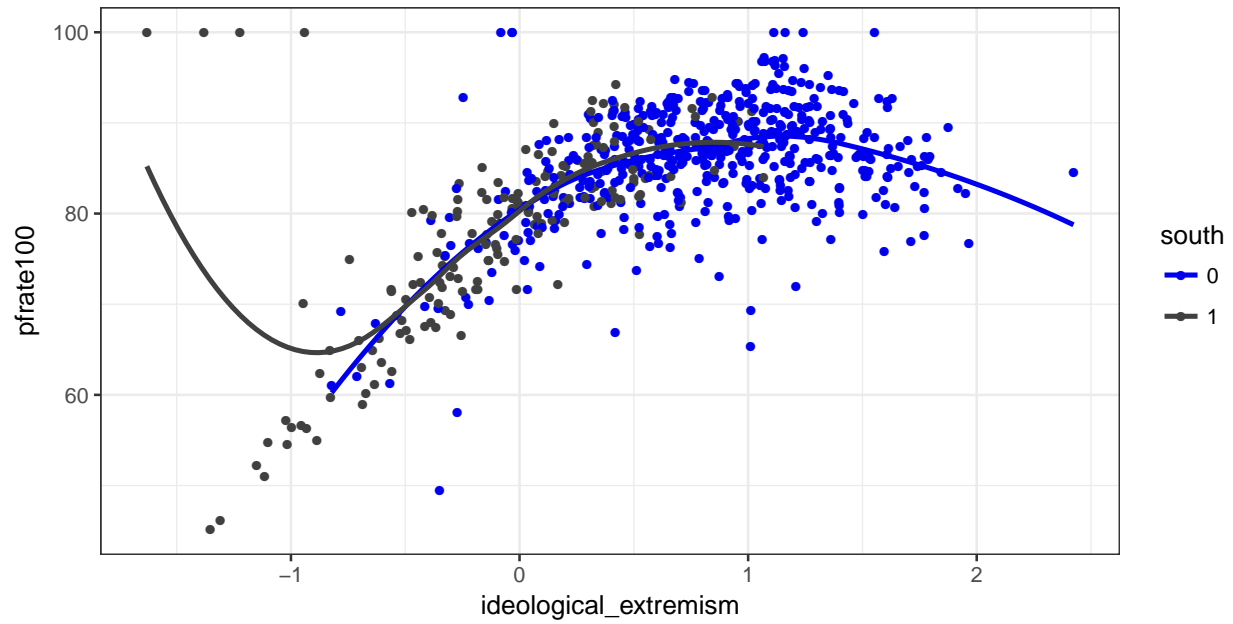

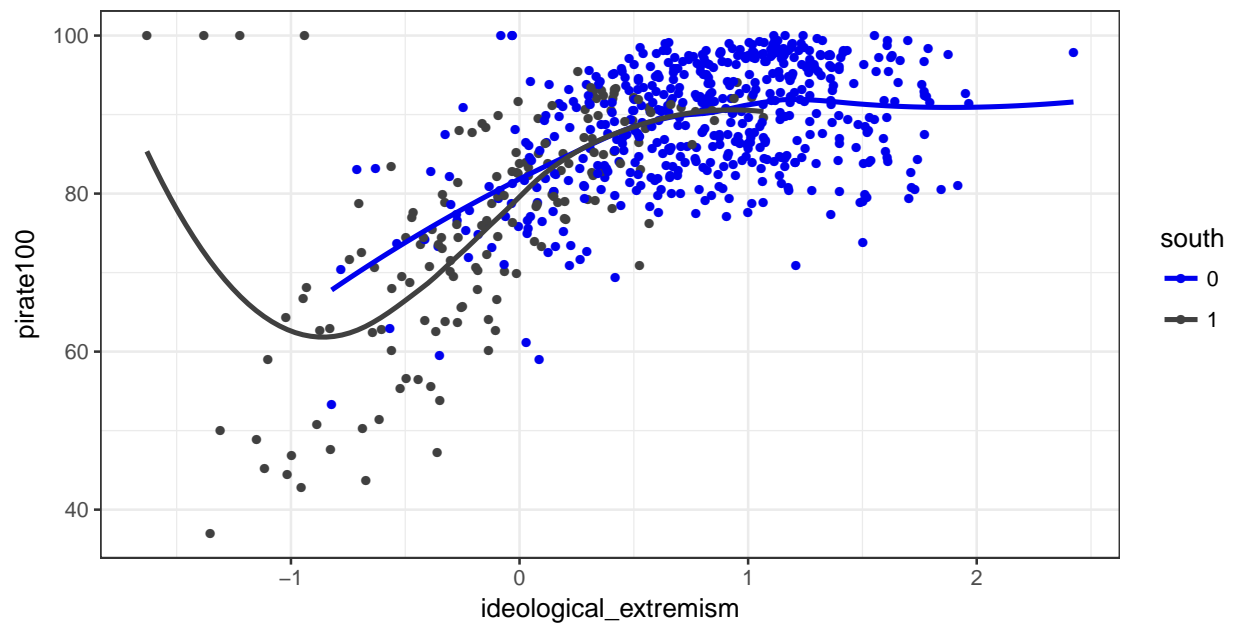Figure 4: Senate DV/IV Plot, Majority Democrats, South/Other
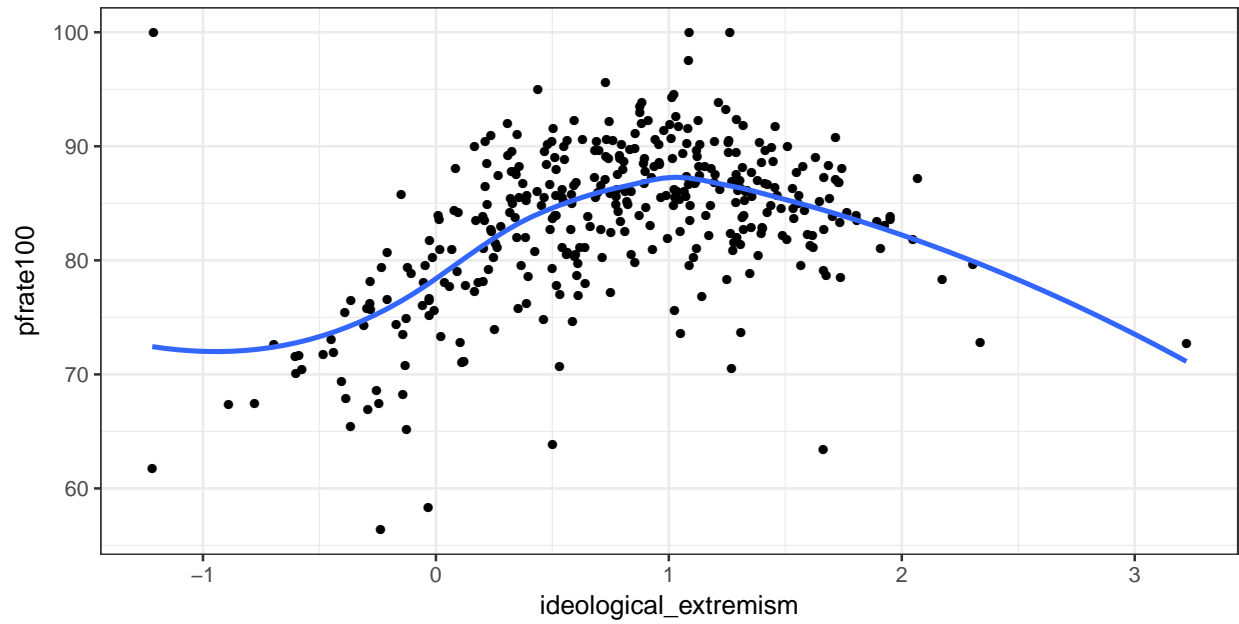
Figure 5: Senate IV/IV Plot, Minority Democrats

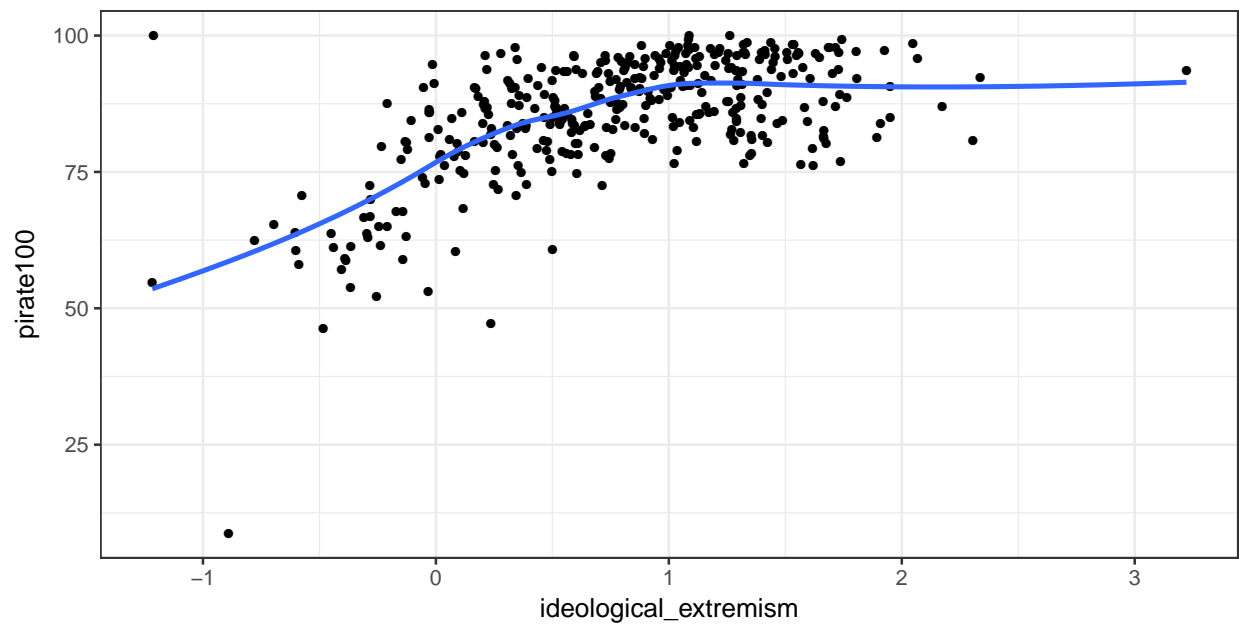Figure 6: Senate DV/IV Plot, Minority Democrats

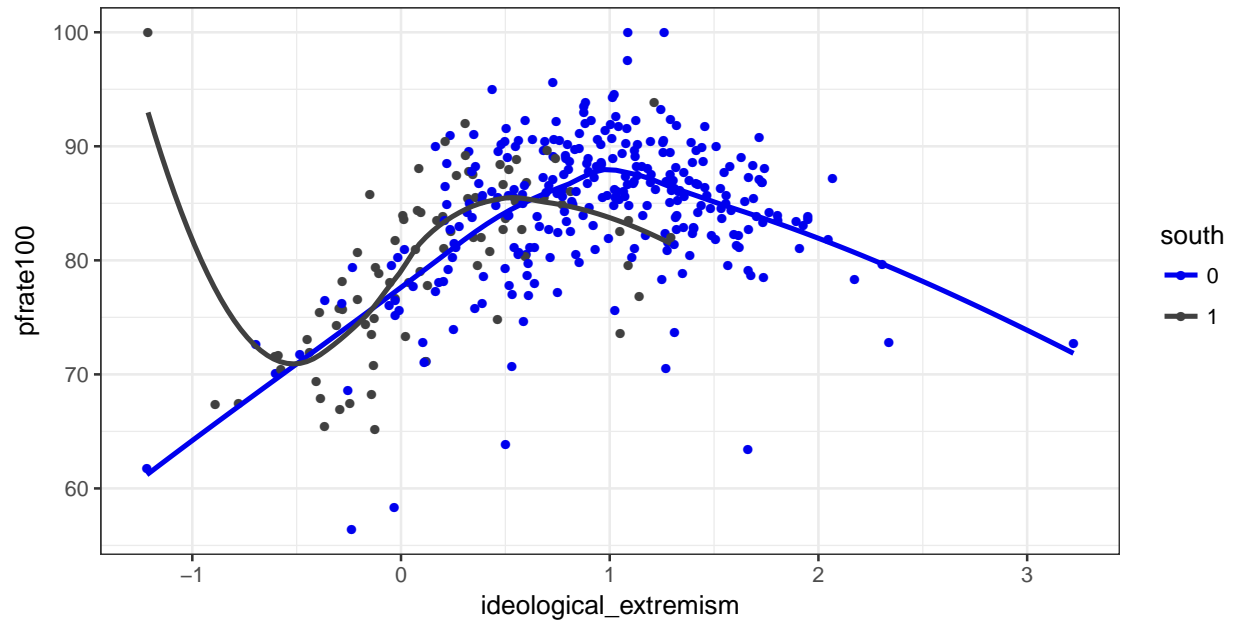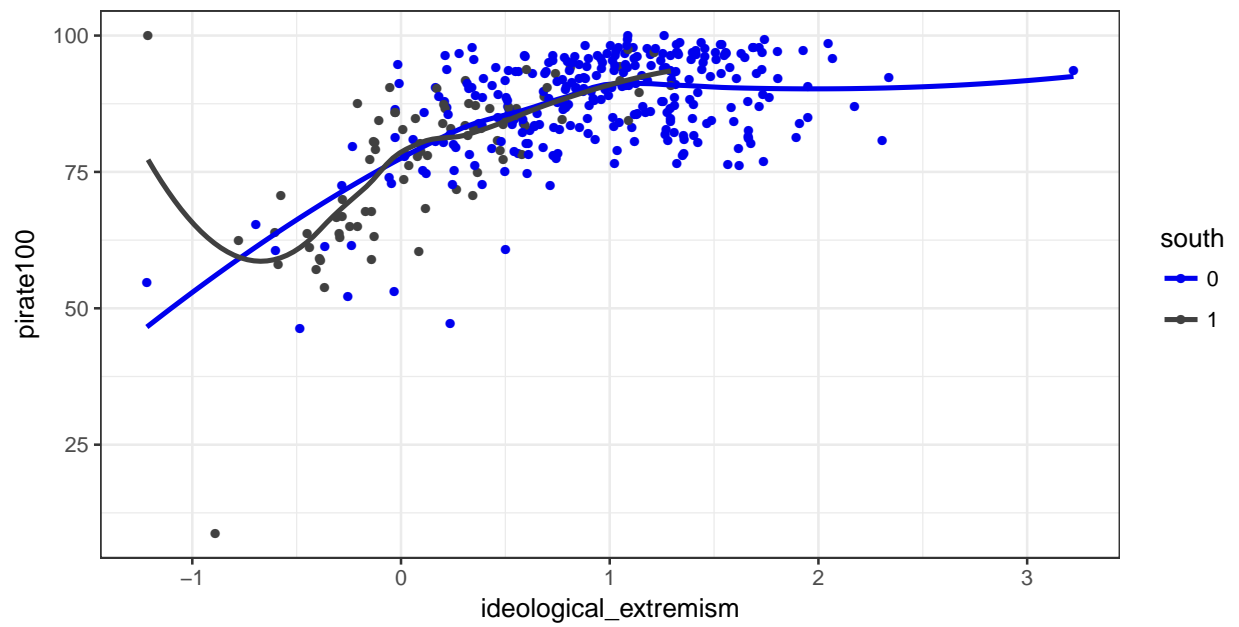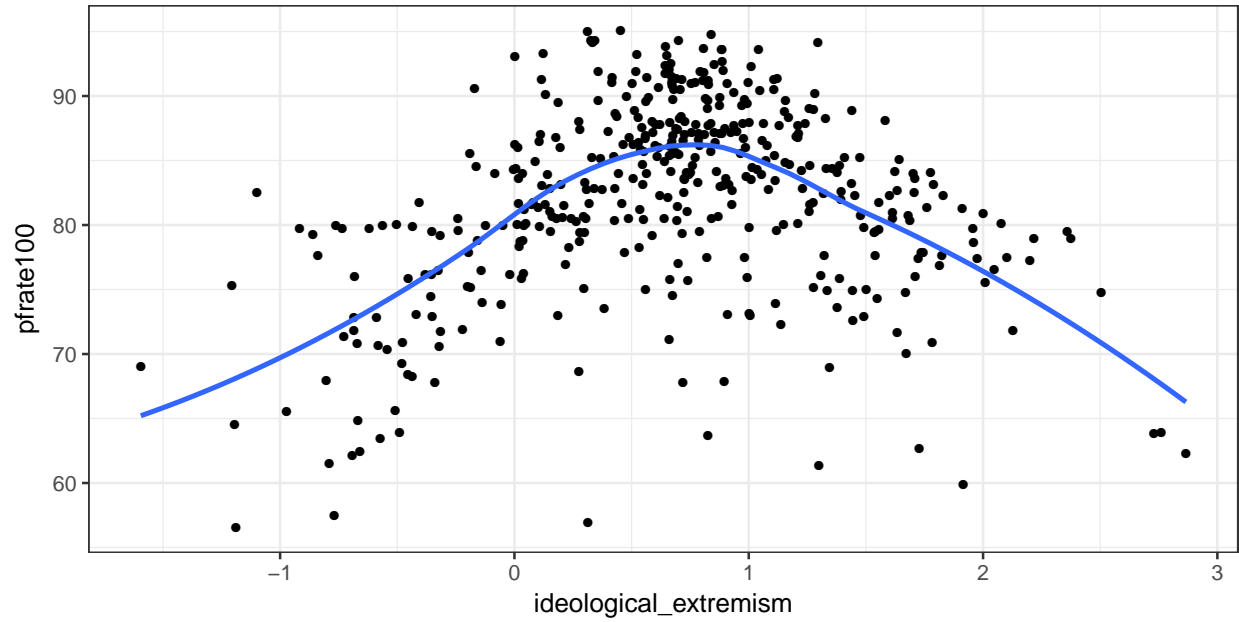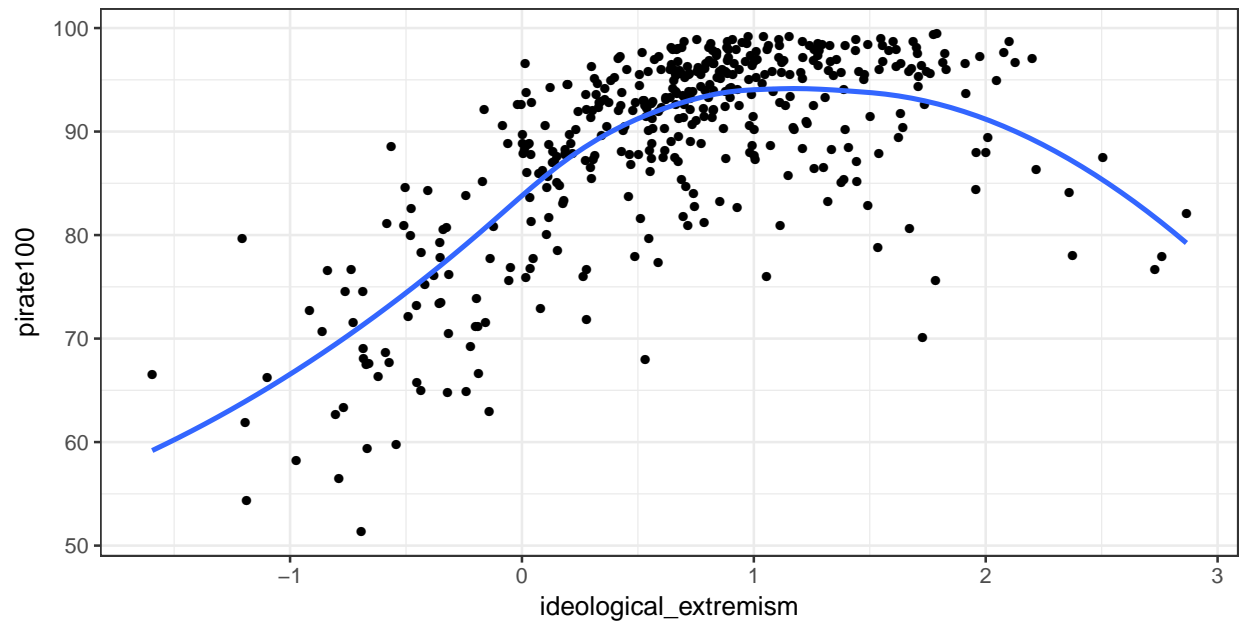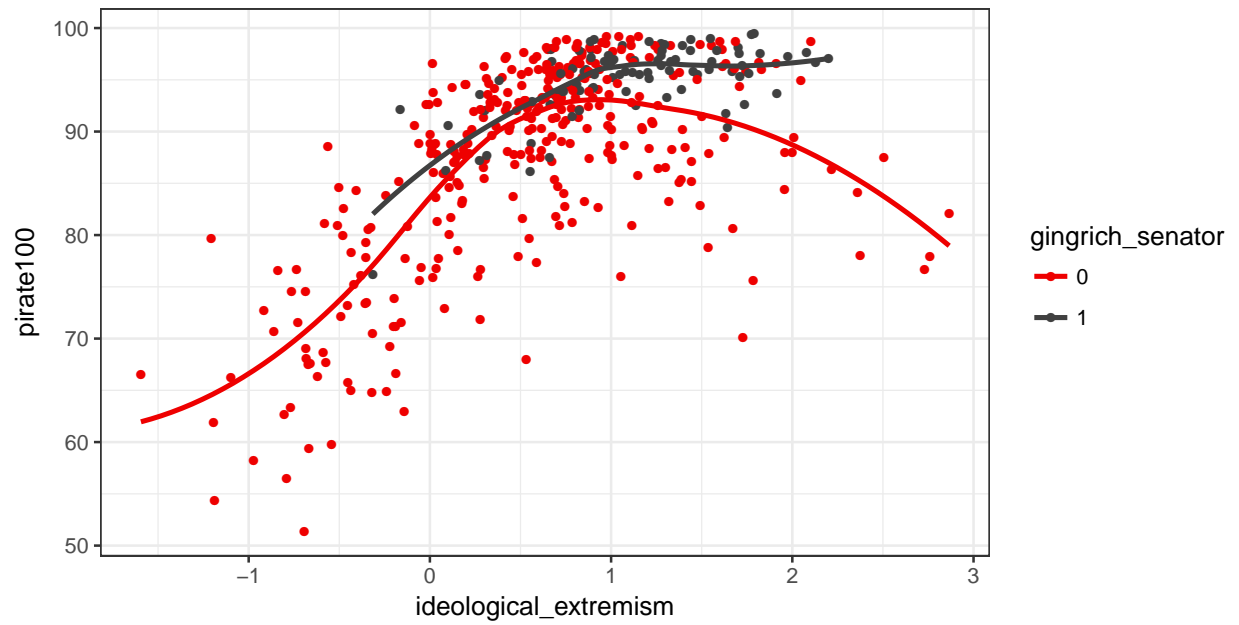Figure 7: Senate IV/IV Plot, Minority Democrats, South/Other

Figure 8: Senate DV/IV Plot, Minority Democrats, South/Other

Figure 9: Senate IV/IV Plot, Majority Republicans

Figure 10: Senate DV/IV Plot, Majority Republicans

Figure 11: Senate IV/IV Plot, Majority Republicans, Gingrich/Other
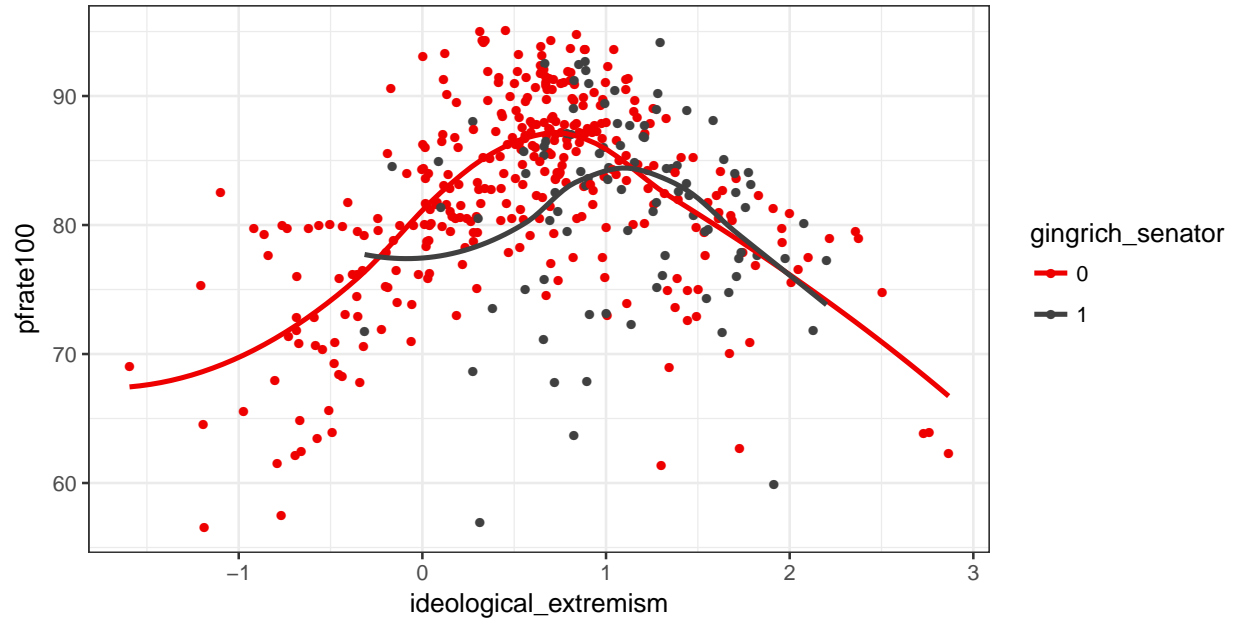
Figure 12: Senate DV/IV Plot, Majority Republicans, Gingrich/Other

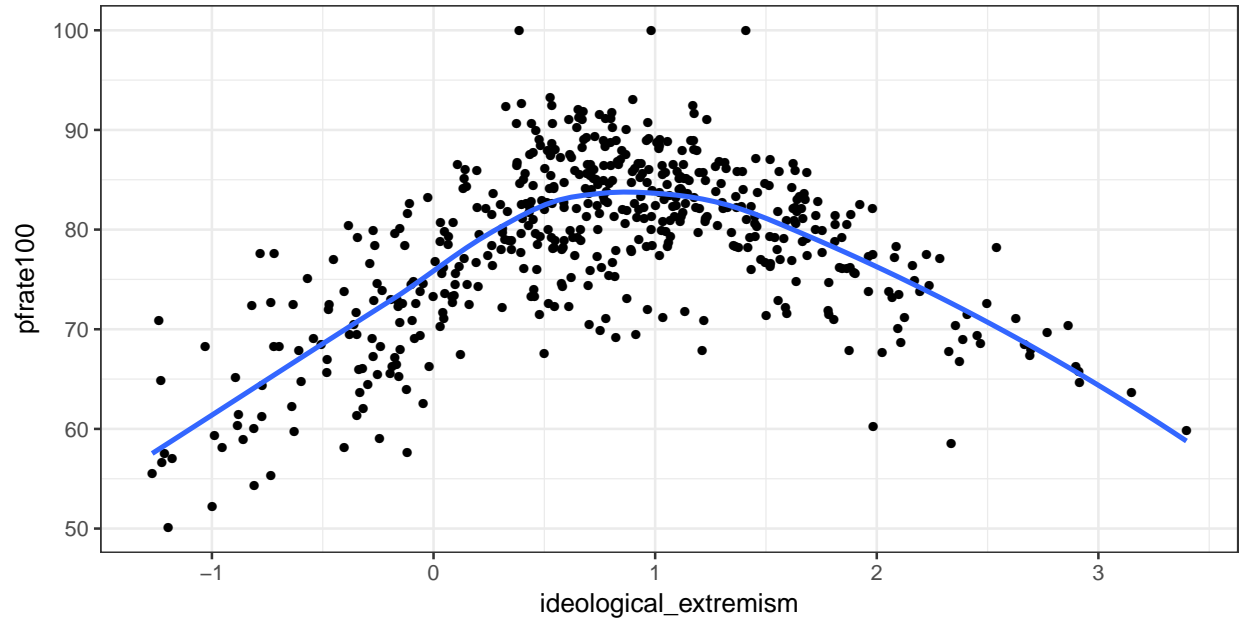Figure 13: Senate IV/IV Plot, Minority Republicans

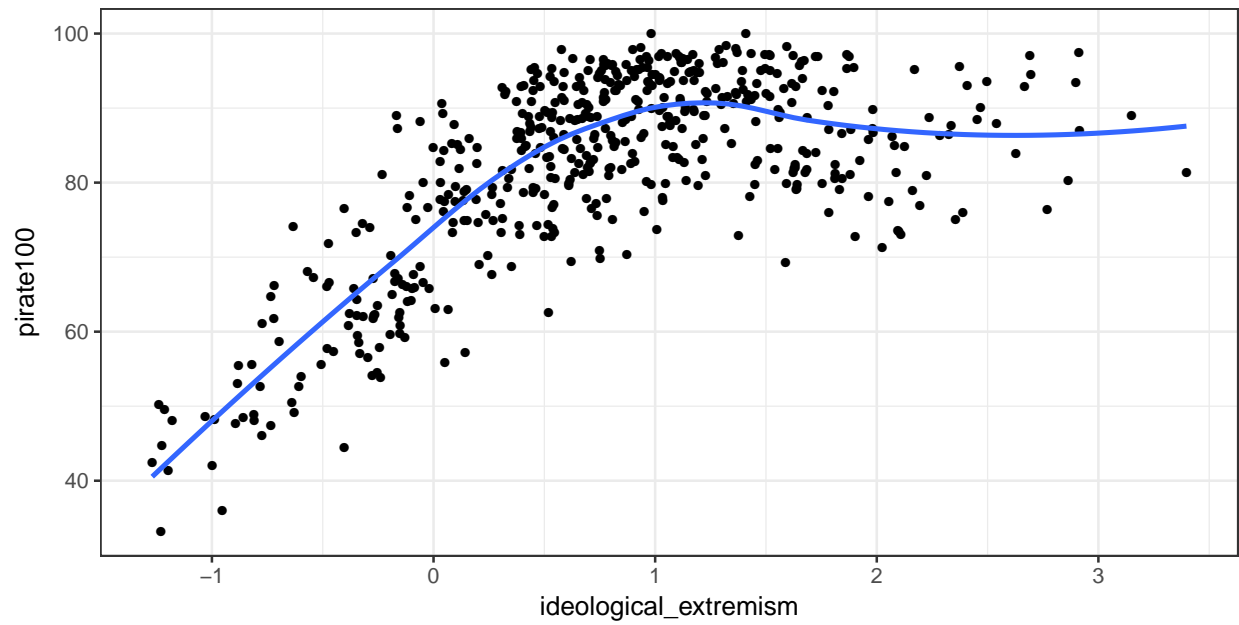Figure 14: Senate DV/IV Plot, Minority Republicans

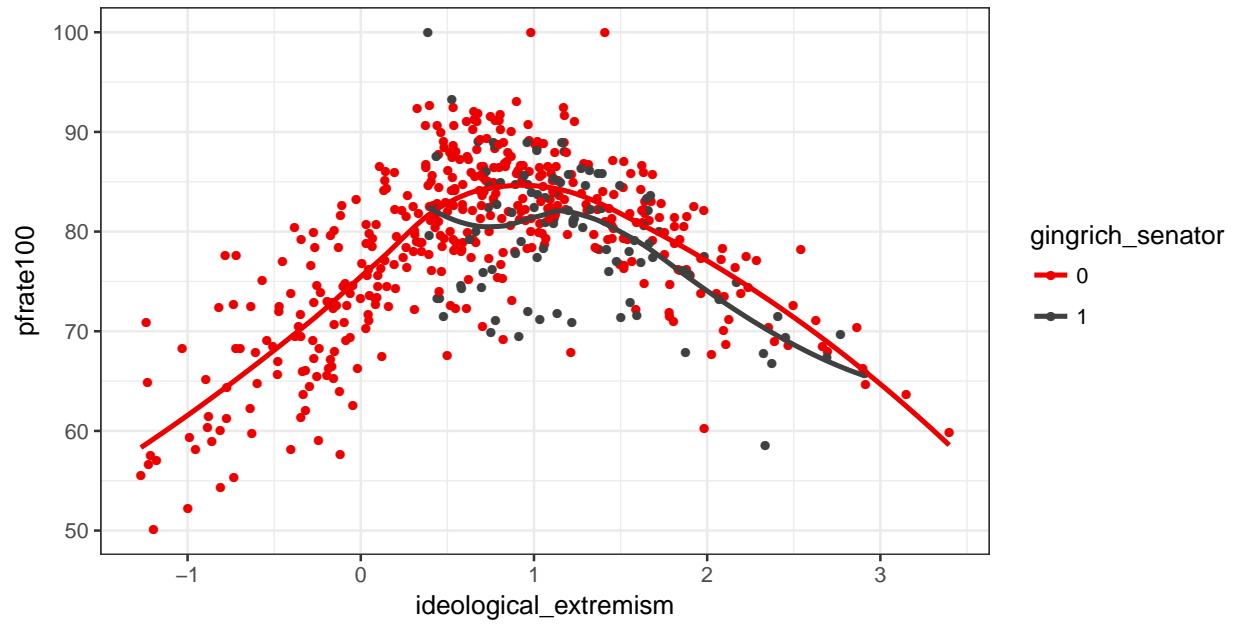Figure 15: Senate IV/IV Plot, Minority Republicans, Gingrich/Other

Figure 16: Senate DV/IV Plot, Minority Republicans, Gingrich/Other
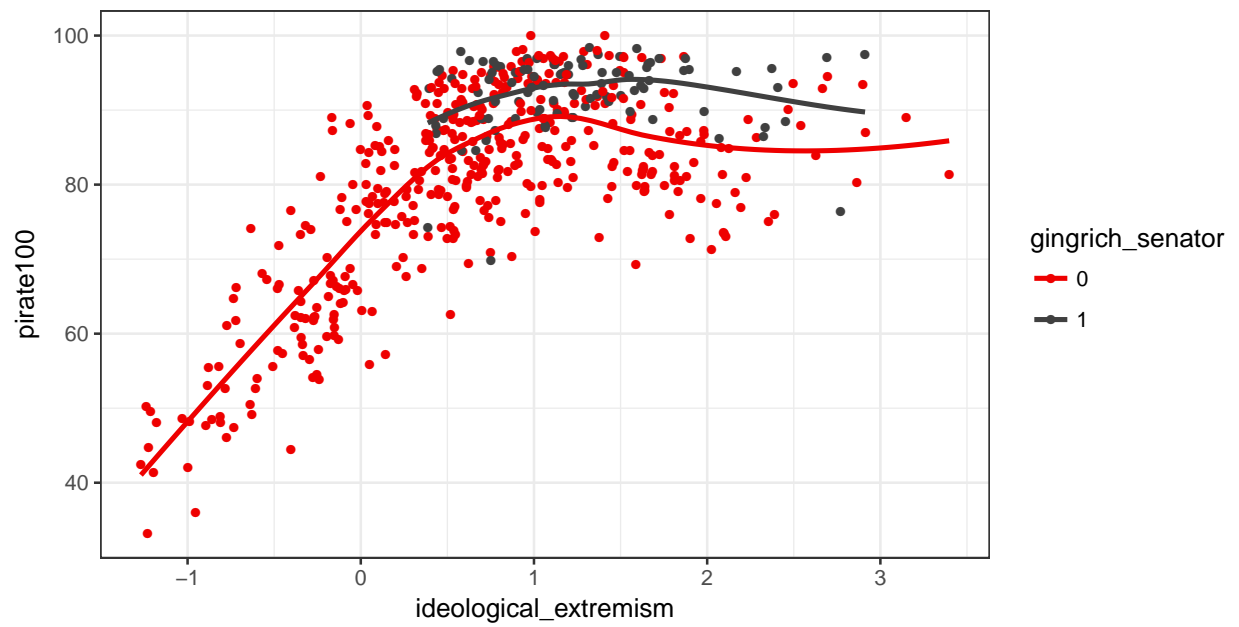
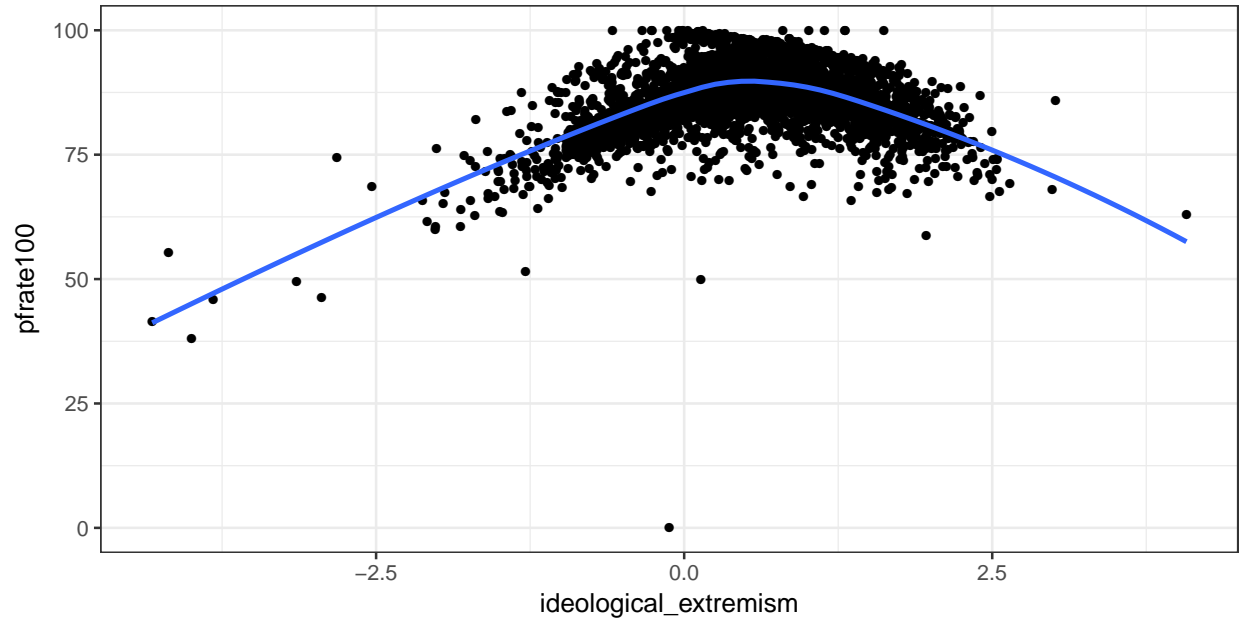Figure 17: House IV/IV Plot, Majority Democrats

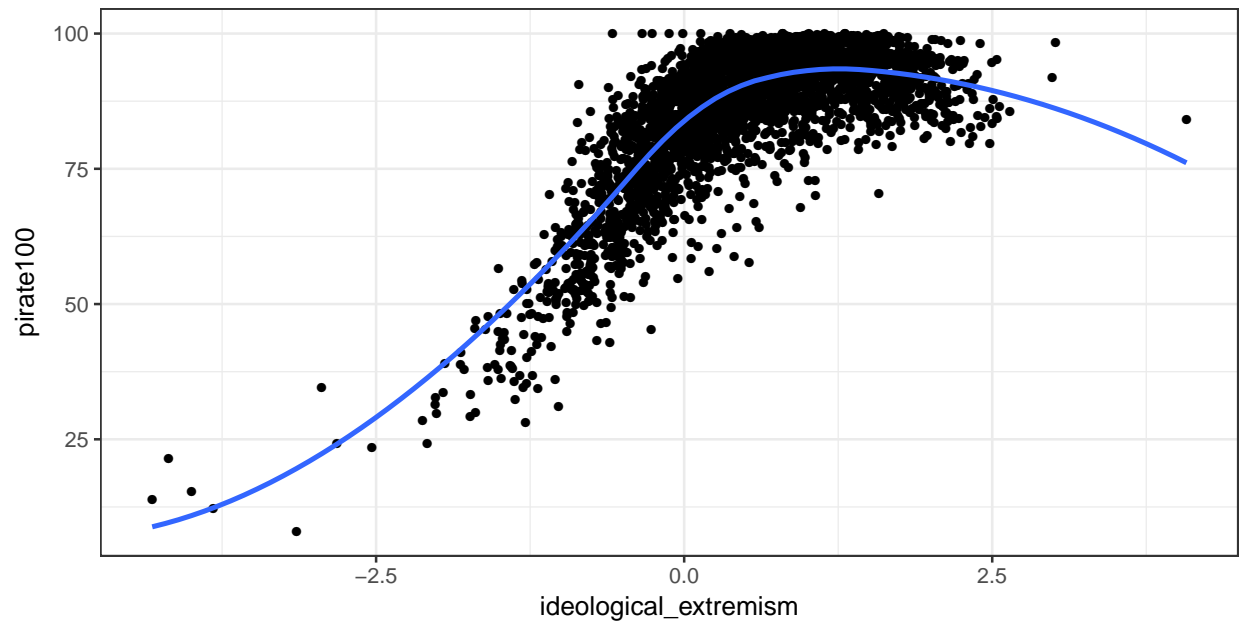Figure 18: House DV/IV Plot, Majority Democrats

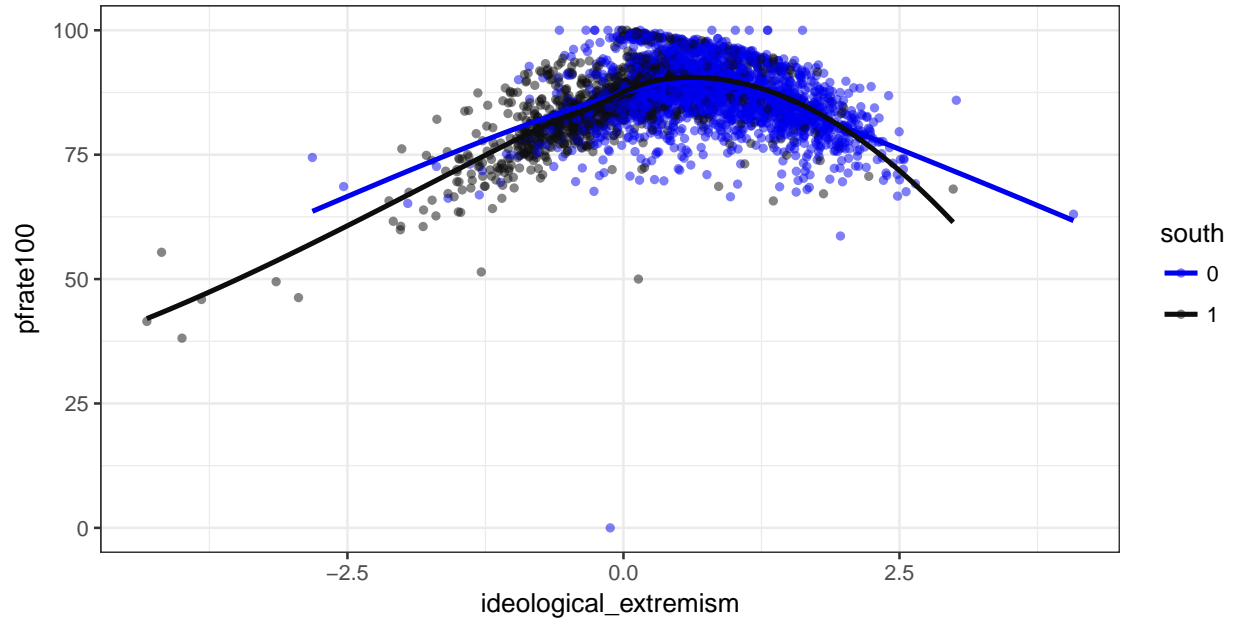Figure 19: House IV/IV Plot, Majority Democrats, South/Other

Figure 20: House DV/IV Plot, Majority Democrats, South/Other

Figure 21: House IV/IV Plot, Minority Democrats
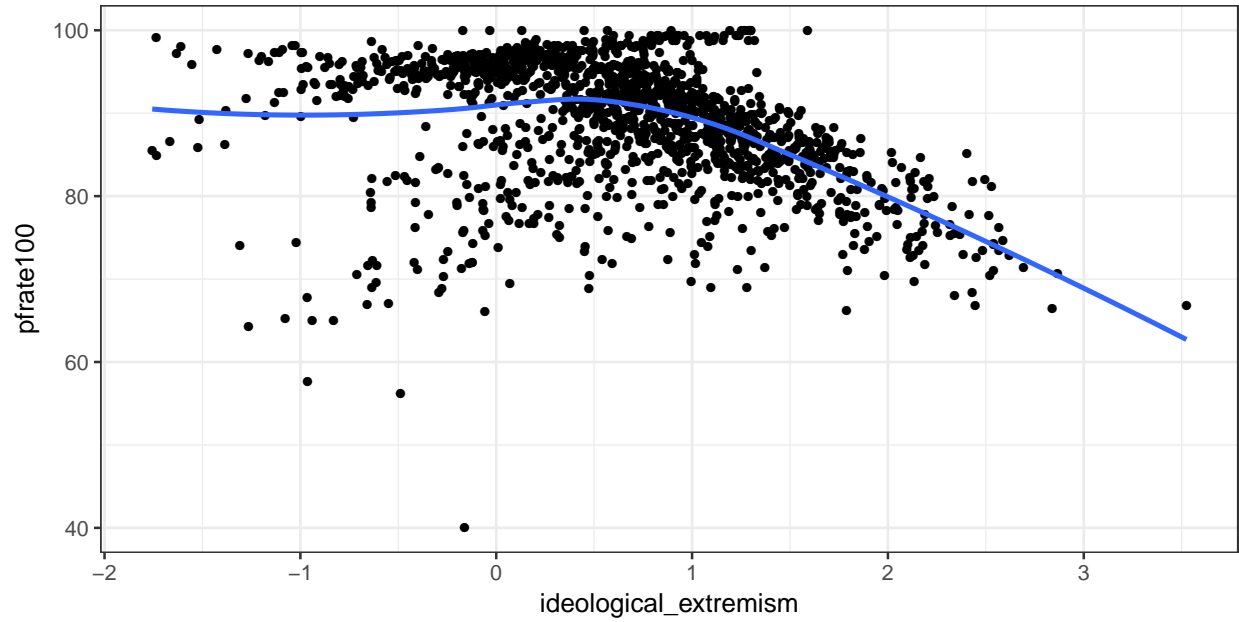
Figure 22: House DV/IV Plot, Minority Democrats
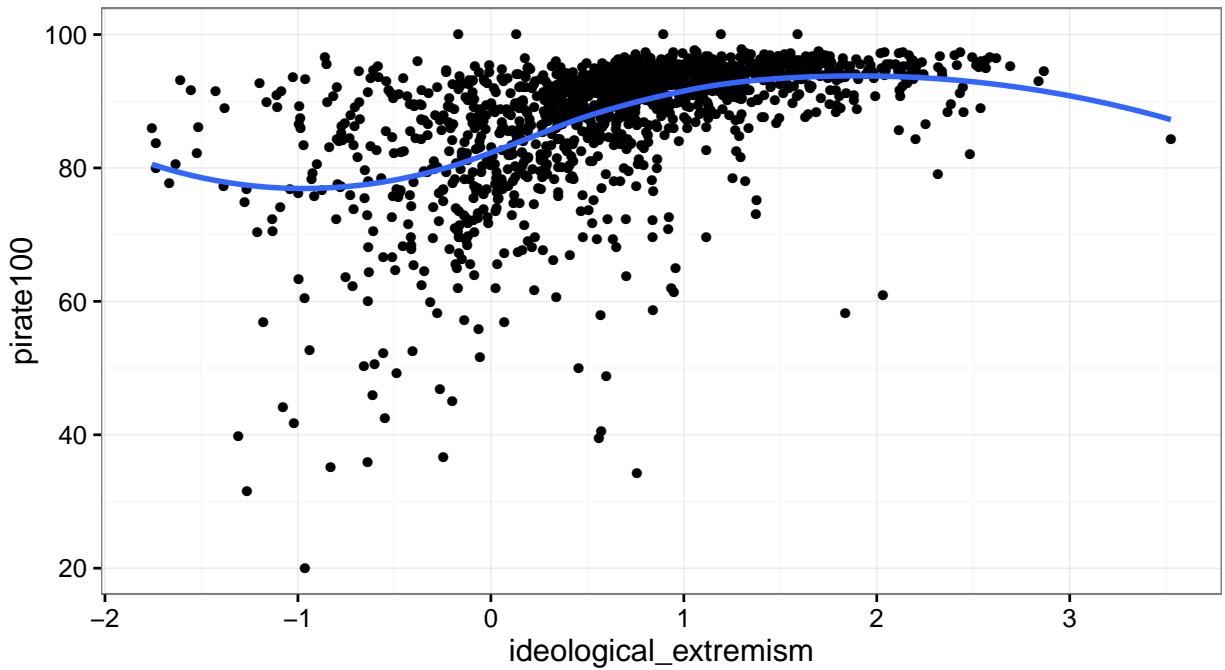
Figure 23: House IV/IV Plot, Minority Democrats, South/Other

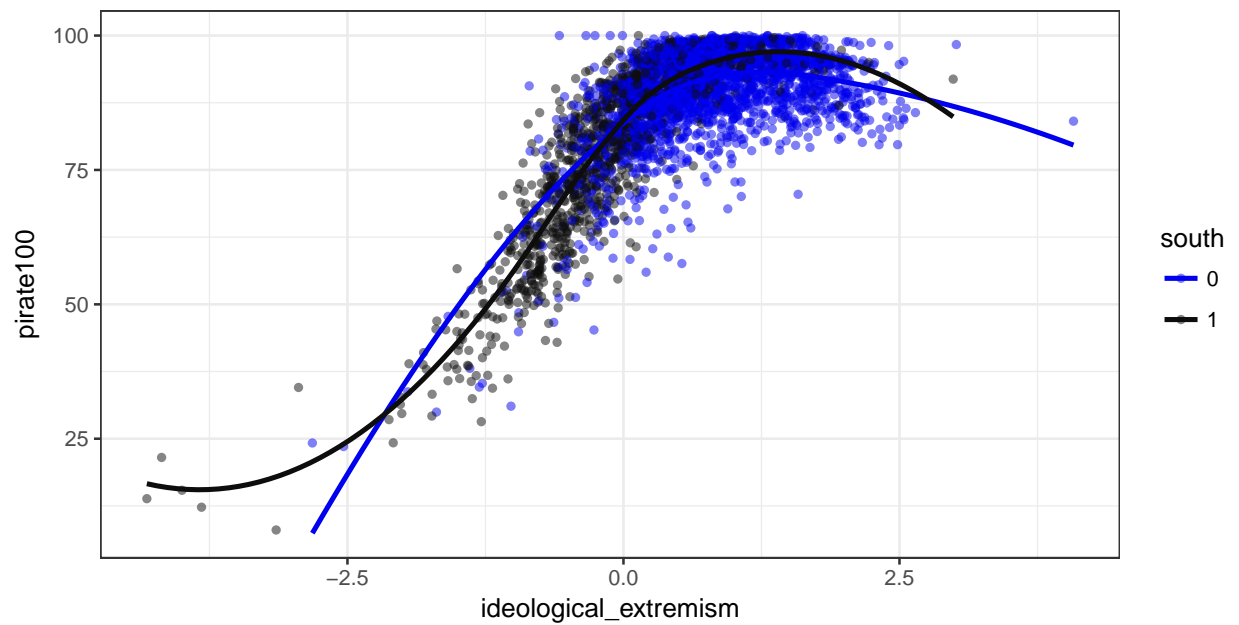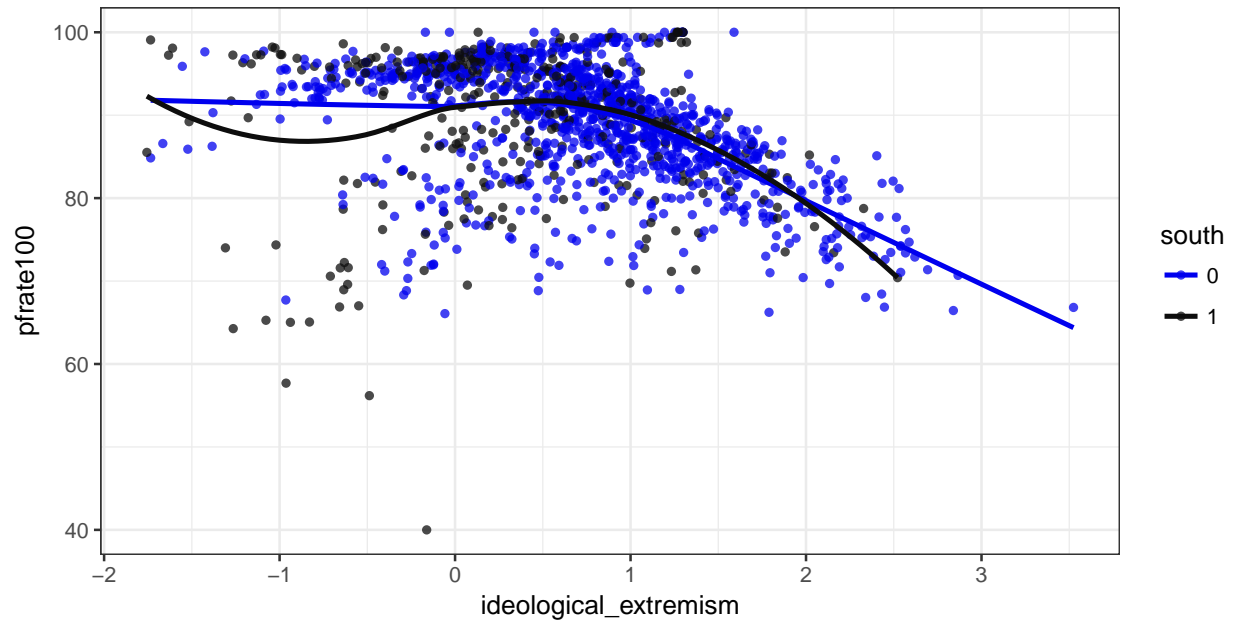Figure 24: House DV/IV Plot, Minority Democrats, South/Other
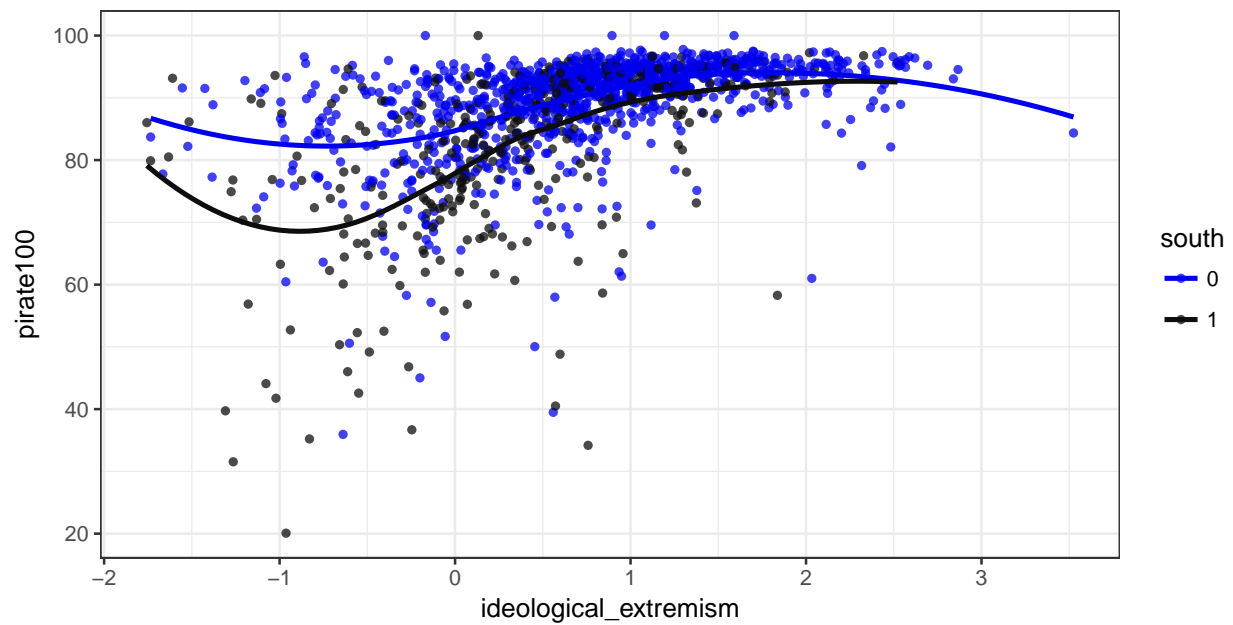
Figure 25: House IV/IV Plot, Majority Republicans

Figure 26: House DV/IV Plot, Majority Republicans

Figure 27: House IV/IV Plot, Minority Republicans

Figure 28: House DV/IV Plot, Minority Republicans

2.3   Variable Checks

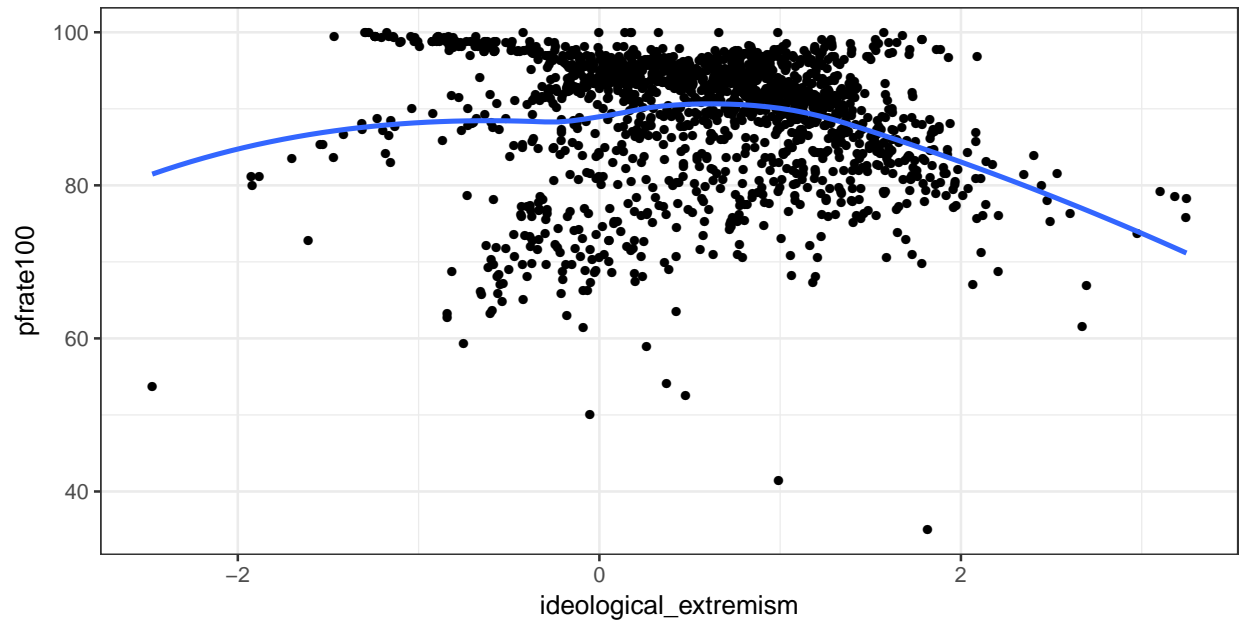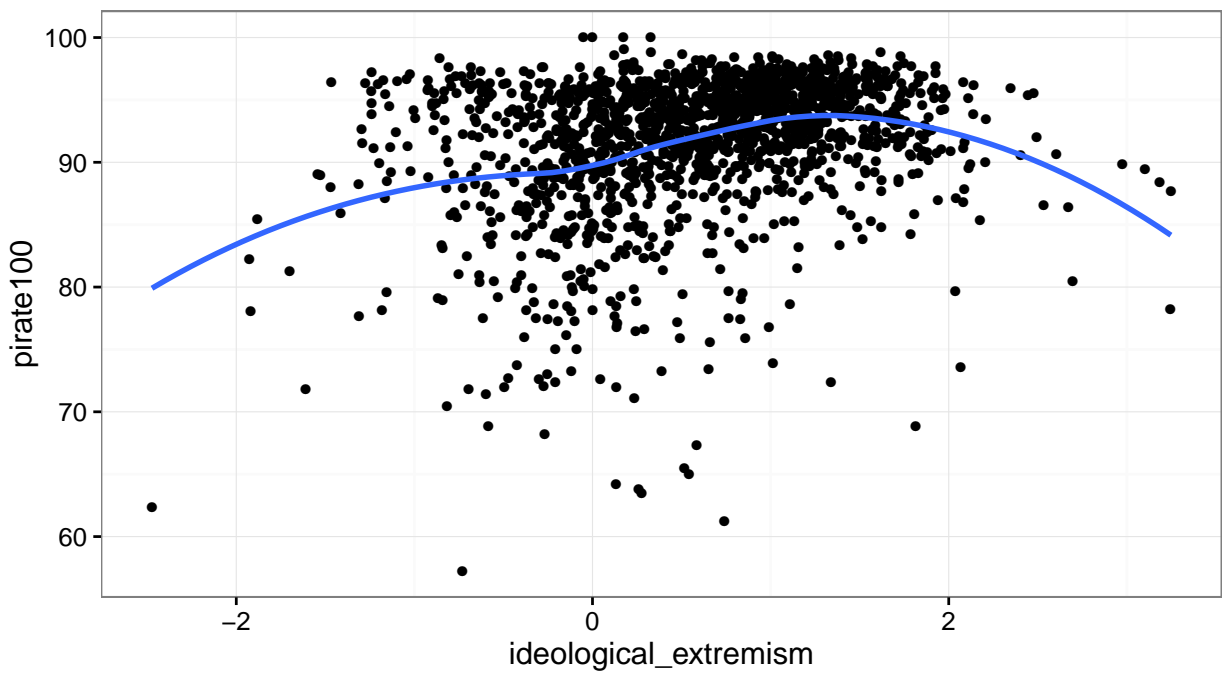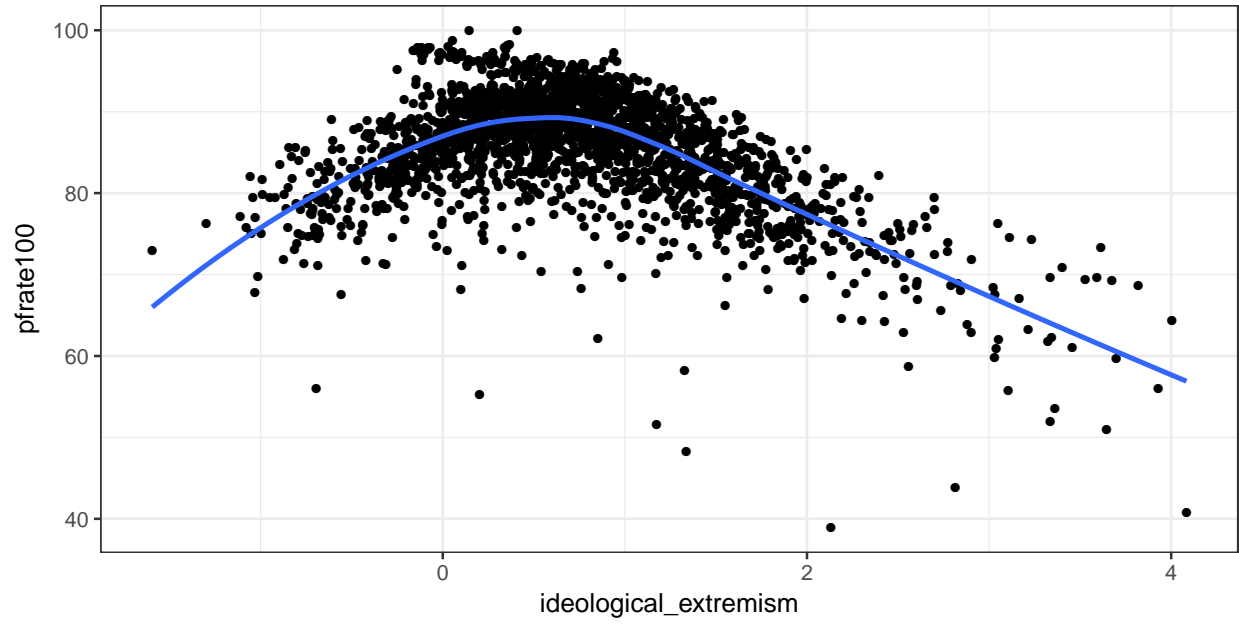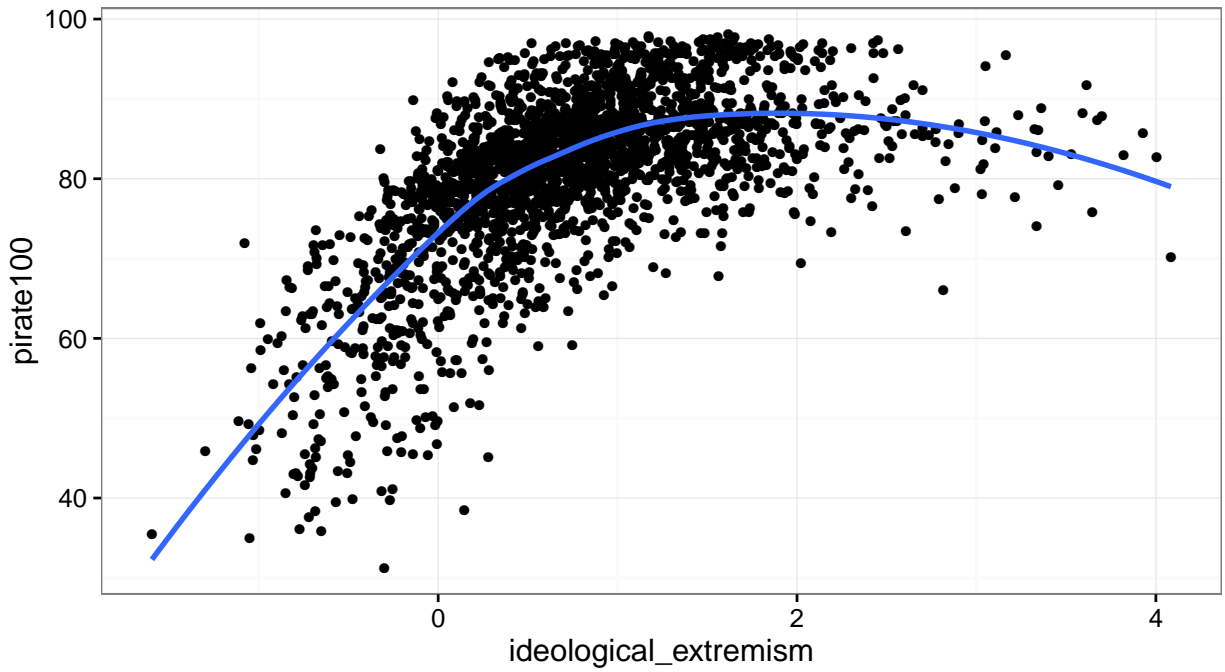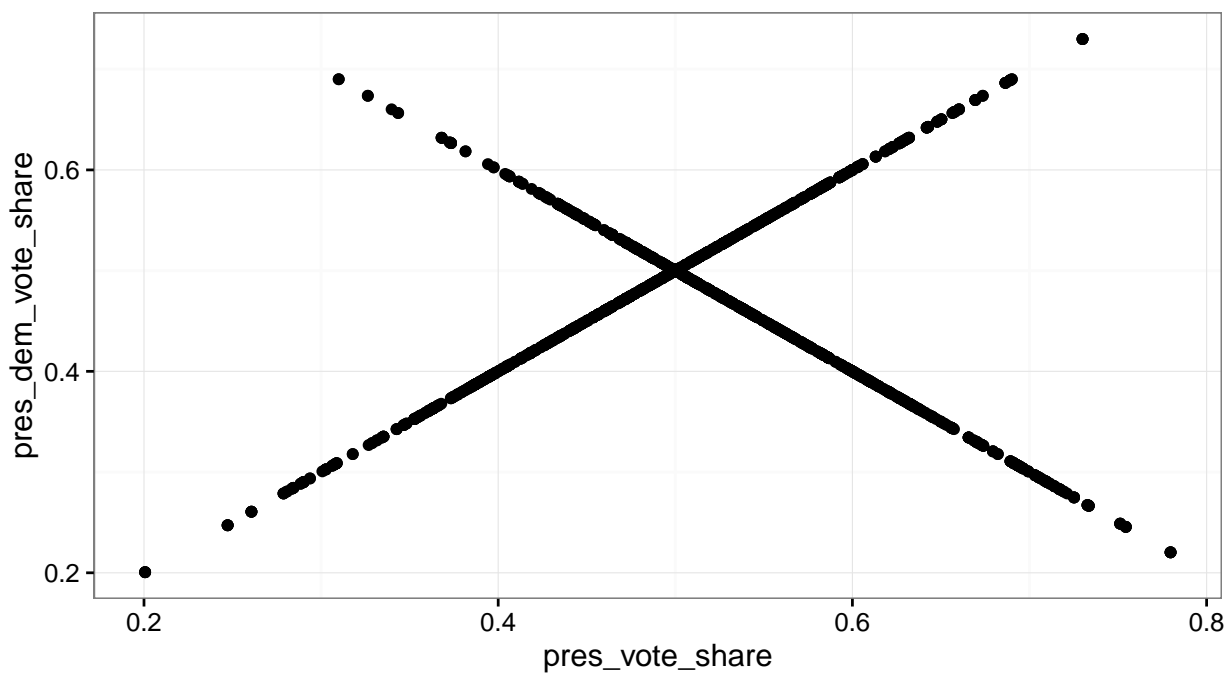Figure 29: Presidential Vote Share and Democratic Presidential Vote Share: All

Figure 30: Presidential Vote Share and Democratic Presidential Vote Share: Democrats
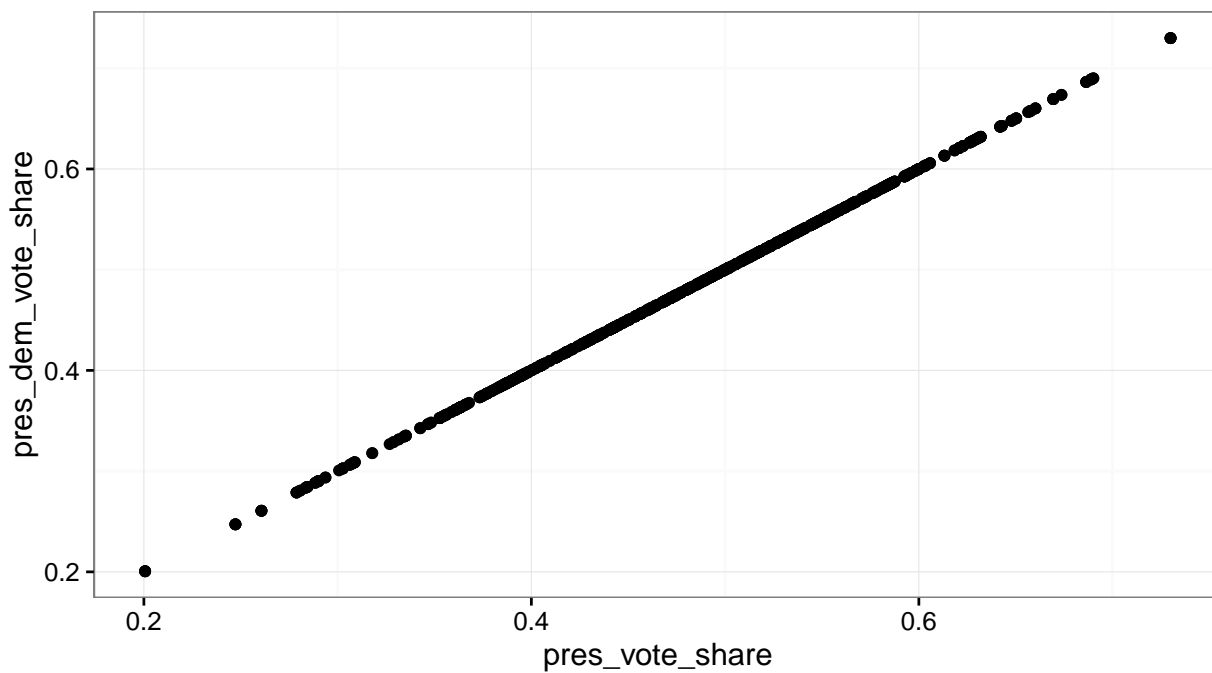
Figure 31: Presidential Vote Share and Democratic Presidential Vote Share: Republicans
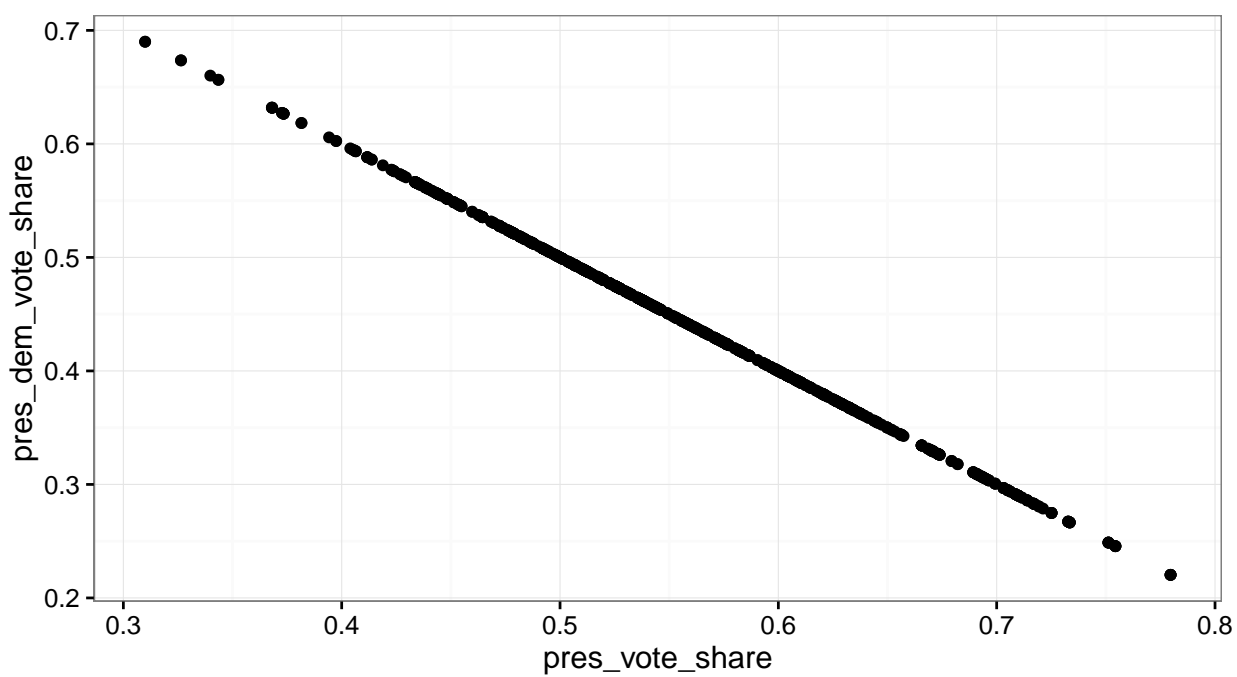
3 Past Tables and Figures to Include in Paper

3.1 Senate

Table 7: Senate Variable Summaries

Statistic	N	Mean	St. Dev.	Min	Max
congress	1,993	102.511	5.771	93	112
icpsrLegis	1,993	18,808.510	13,984.900	52	95,407
class	1,993	2.012	0.819	1	3
maj	1,993	0.552	0.488	0.000	1.000
pres_vote_share	1,993	0.521	0.097	0.201	0.780
pres_dem_vote_share	1,993	0.462	0.092	0.201	0.730
vote_share	1,993	0.612	0.099	0.500	1.000
south	1,993	0.260	0.439	0	1
south11	1,993	0.220	0.414	0	1
south13	1,993	0.260	0.439	0	1
south17	1,993	0.339	0.473	0	1
south_dem	1,993	0.123	0.329	0	1
leader	1,993	0.099	0.299	0	1
chair	1,993	0.183	0.386	0	1
best_committee	1,993	12.277	2.740	0	15
power_committee	1,993	0.727	0.446	0	1
up_for_reelection	1,993	0.333	0.471	0	1
freshman	1,993	0.114	0.318	0	1
superfreshman	1,993	0.003	0.050	0	1
seniority	1,993	6.254	4.618	1	26
senate_seniority	1,993	2.424	1.527	1	9
retiree	1,993	0.059	0.235	0	1
first_term	1,993	0.356	0.479	0	1
afam	1,993	0.004	0.063	0	1
female	1,993	0.067	0.250	0	1
latino	1,993	0.008	0.086	0	1
gingrich_senator	1,993	0.094	0.292	0	1
votes	1,993	733.147	199.048	5	1,311
drop	1,993	0.000	0.000	0	0
party_free_ideal_point	1,993	0.002	1.000	-3.222	3.397
pirate100	1,993	85.491	11.438	8.777	100.000
pfrate100	1,993	82.035	8.164	45.106	100.000
ideological_extremism	1,993	0.689	0.724	-1.630	3.397

Table 8: Senate Variable Summaries, Democrats

Statistic	N	Mean	St. Dev.	Min	Max
congress	1,042	102.262	5.886	93	112
icpsrLegis	1,042	17,125.290	12,528.160	660	94,910
class	1,042	1.964	0.844	1	3
maj	1,042	0.633	0.473	0.000	1.000
pres_vote_share	1,042	0.484	0.093	0.201	0.730
pres_dem_vote_share	1,042	0.484	0.093	0.201	0.730
vote_share	1,042	0.619	0.102	0.500	1.000
south	1,042	0.236	0.425	0	1
south11	1,042	0.211	0.408	0	1
south13	1,042	0.236	0.425	0	1
south17	1,042	0.340	0.474	0	1
south_dem	1,042	0.236	0.425	0	1
leader	1,042	0.083	0.277	0	1
chair	1,042	0.208	0.406	0	1
best_committee	1,042	12.257	2.780	0	15
power_committee	1,042	0.729	0.445	0	1
up_for_reelection	1,042	0.334	0.472	0	1
freshman	1,042	0.105	0.306	0	1
superfreshman	1,042	0.003	0.054	0	1
seniority	1,042	6.781	4.940	1	26
senate_seniority	1,042	2.597	1.636	1	9
retiree	1,042	0.051	0.220	0	1
first_term	1,042	0.328	0.470	0	1
afam	1,042	0.005	0.069	0	1
female	1,042	0.084	0.278	0	1
latino	1,042	0.008	0.087	0	1
gingrich_senator	1,042	0.000	0.000	0	0
votes	1,042	740.120	208.038	5	1,311
drop	1,042	0.000	0.000	0	0
party_free_ideal_point	1,042	−0.657	0.657	−3.222	1.630
pirate100	1,042	85.776	10.886	8.777	100.000
pfrate100	1,042	83.760	7.862	45.106	100.000
ideological_extremism	1,042	0.657	0.657	−1.630	3.222

Table 9: Senate Variable Summaries, Republicans

Statistic	N	Mean	St. Dev.	Min	Max
congress	951	102.784	5.633	93	112
icpsrLegis	951	20,652.800	15,218.180	52	95,407
class	951	2.064	0.787	1	3
maj	951	0.464	0.489	0.000	1.000
pres_vote_share	951	0.562	0.085	0.310	0.780
pres_dem_vote_share	951	0.438	0.085	0.220	0.690
vote_share	951	0.605	0.094	0.500	1.000
south	951	0.286	0.452	0	1
south11	951	0.229	0.421	0	1
south13	951	0.286	0.452	0	1
south17	951	0.338	0.473	0	1
south_dem	951	0.000	0.000	0	0
leader	951	0.117	0.321	0	1
chair	951	0.155	0.362	0	1
best_committee	951	12.300	2.697	0	15
power_committee	951	0.723	0.448	0	1
up_for_reelection	951	0.332	0.471	0	1
freshman	951	0.124	0.330	0	1
superfreshman	951	0.002	0.046	0	1
seniority	951	5.677	4.163	1	24
senate_seniority	951	2.234	1.373	1	8
retiree	951	0.067	0.251	0	1
first_term	951	0.386	0.487	0	1
afam	951	0.003	0.056	0	1
female	951	0.048	0.215	0	1
latino	951	0.007	0.086	0	1
gingrich_senator	951	0.198	0.398	0	1
votes	951	725.506	188.520	40	1,291
drop	951	0.000	0.000	0	0
party_free_ideal_point	951	0.725	0.789	−1.595	3.397
pirate100	951	85.180	12.011	33.232	100.000
pfrate100	951	80.144	8.073	50.070	100.000
ideological_extremism	951	0.725	0.789	−1.595	3.397

Table 10: Senate Sorting Algorithm Coefficient Signs

	(−) Ideal	(+) Ideal
(−) Party	0.33	0.16
(+) Party	0.23	0.28

Figure 32: Senate Party Calls by Congress
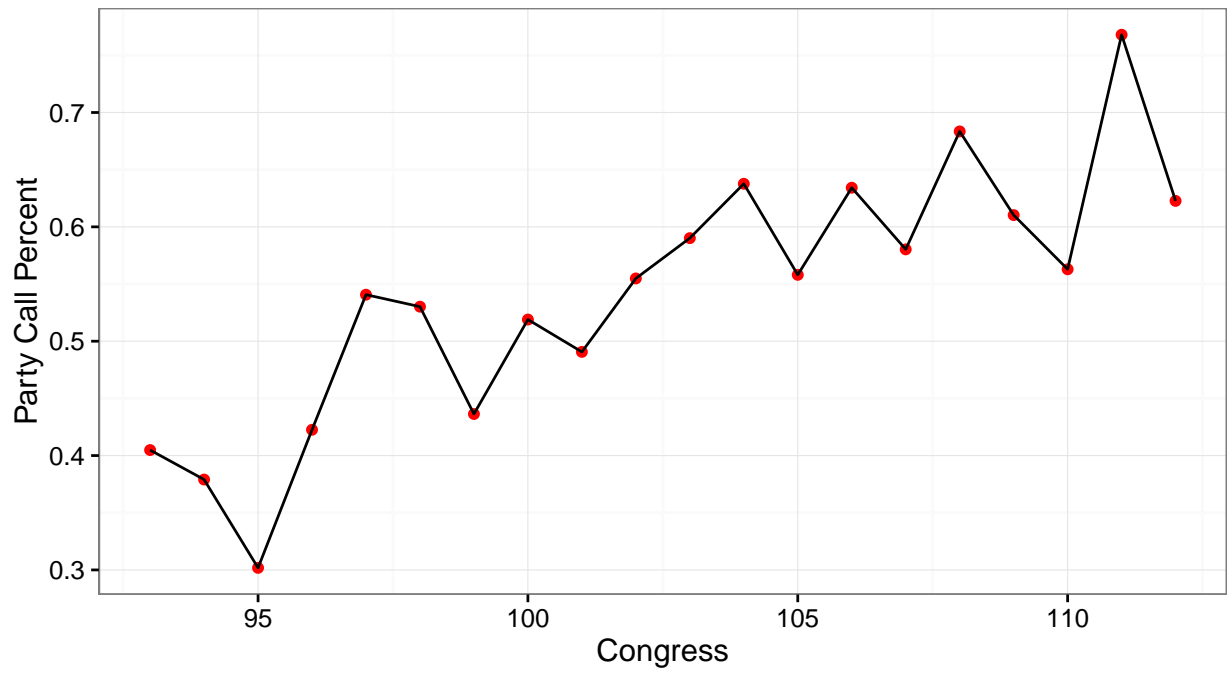
Figure 33: Senate Ideological Extremism Coefficient Plot, Majority
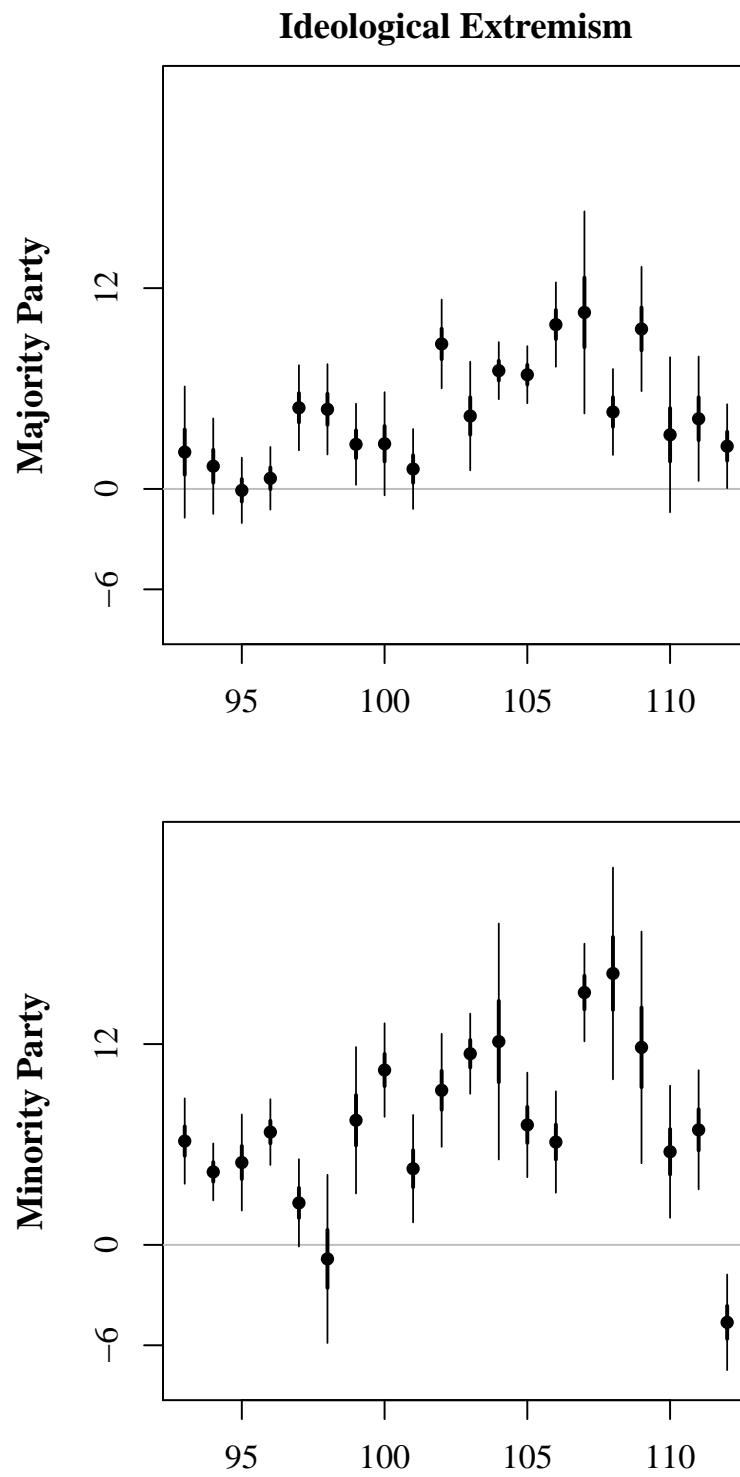
Ideological Extremism

Figure 34: Senate Ideological Extremism Coefficient Plot, Party

Ideological Extremism
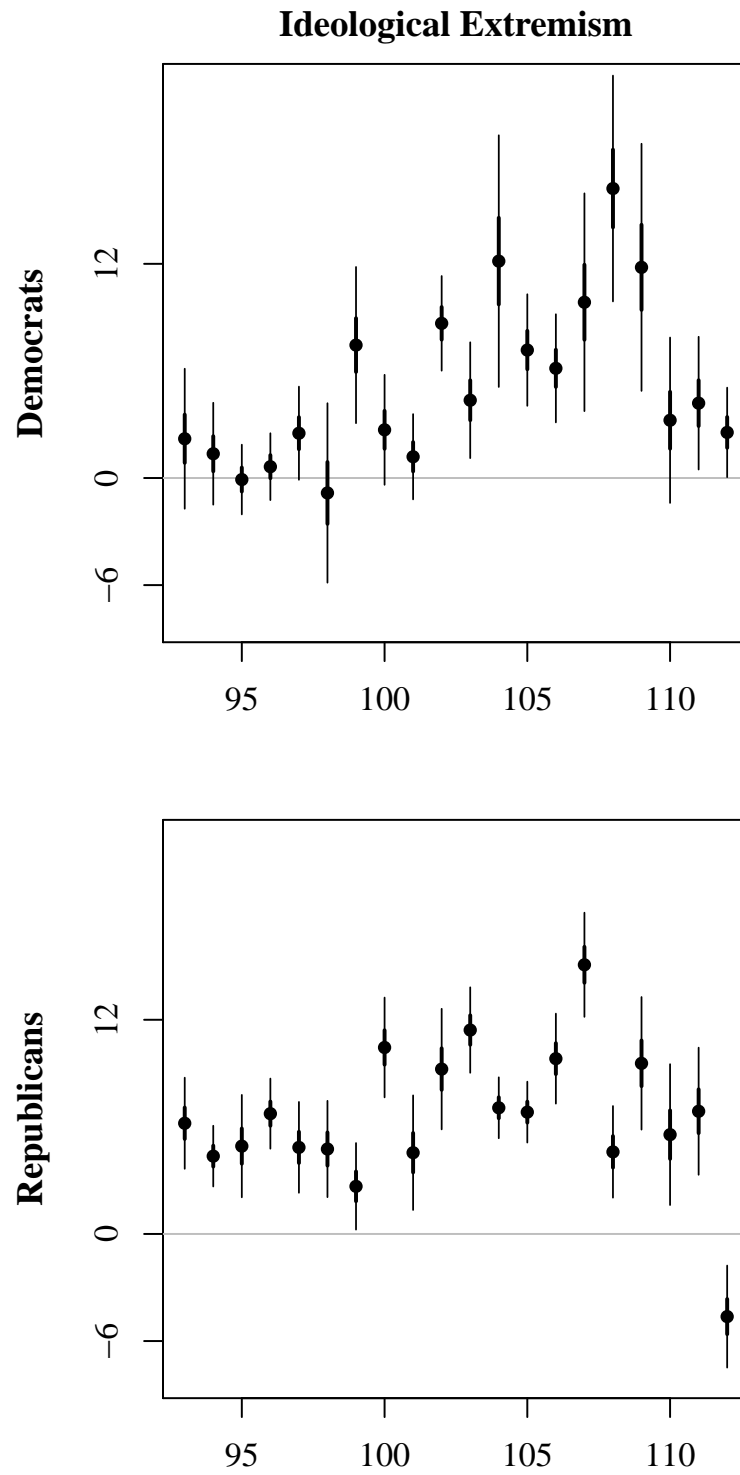
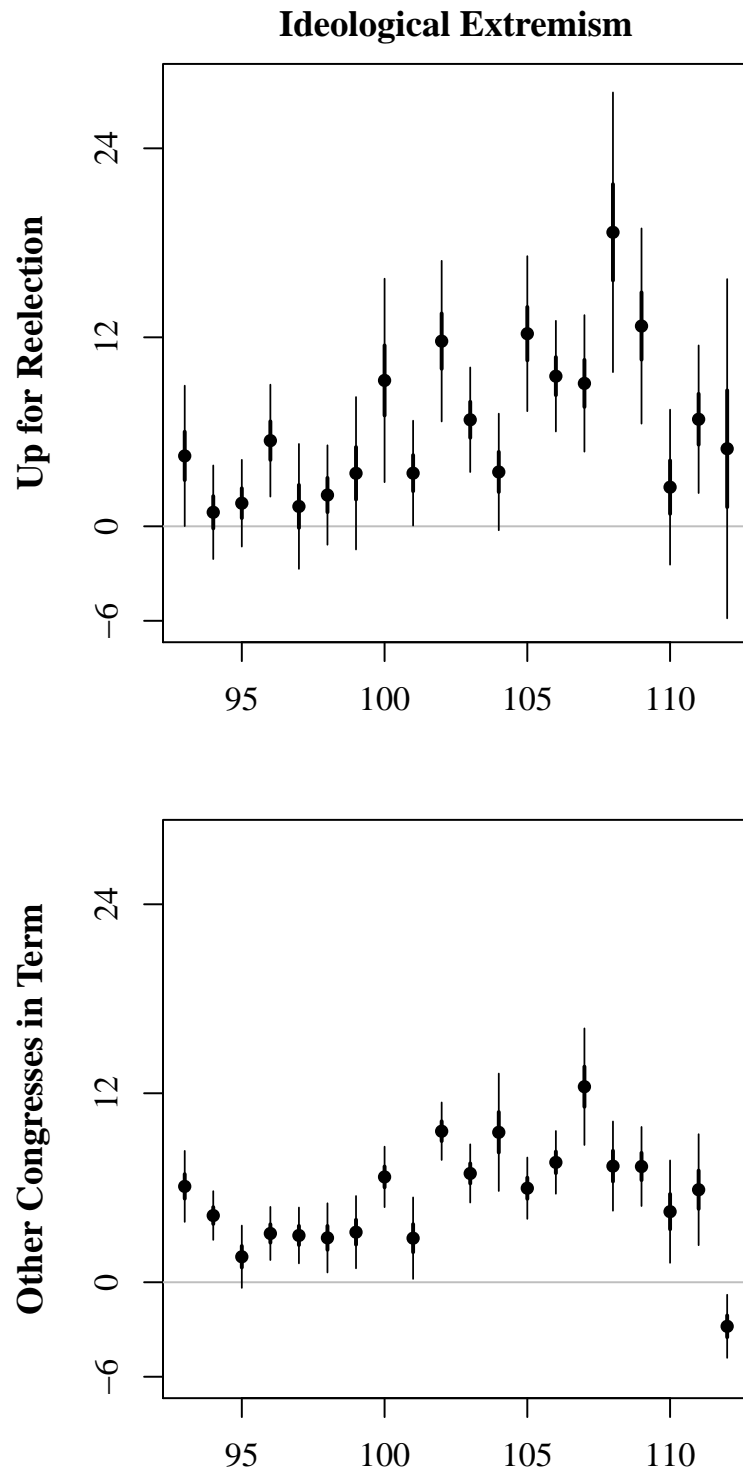Figure 35: Senate Ideological Extremism Coefficient Plot, Election Proximity

Ideological Extremism

Table 11: Senate Aggregate Regression Models

	Democrats	Republicans	Majority	Minority
ideological_extremism	3.136***	7.792***	4.708***	7.949***
	(0.409)	(0.357)	(0.315)	(0.400)
chair	0.852	3.626***	−0.017	
	(0.543)	(0.700)	(0.517)	
pfrate100	0.759***	0.742***	0.702***	0.702***
	(0.030)	(0.031)	(0.025)	(0.035)
pres_vote_share	23.381***	−13.374***	18.213***	0.566
	(2.399)	(3.082)	(1.970)	(3.187)
south	−1.690**	0.872	0.054	1.085
	(0.557)	(0.578)	(0.427)	(0.622)
power_committee	−0.855	−0.325	−0.052	−1.468
	(0.772)	(0.924)	(0.719)	(1.064)
vote_share	−5.257*	14.914***	−1.178	7.599*
	(2.161)	(2.802)	(2.066)	(2.958)
female	1.690*	0.451	0.532	4.256***
	(0.730)	(1.132)	(0.758)	(1.113)
afam	−1.164	−10.789*	1.531	−5.519
	(2.789)	(4.278)	(4.184)	(3.219)
latino	1.814	7.264**	4.781*	6.253
	(2.198)	(2.779)	(1.878)	(3.506)
up_for_reelection	−0.630	−1.436**	−0.951*	−1.204*
	(0.426)	(0.538)	(0.411)	(0.603)
seniority	0.041	−0.024	0.077	0.118
	(0.052)	(0.072)	(0.060)	(0.070)
freshman	0.769	0.358	0.600	0.996
	(0.708)	(0.842)	(0.631)	(1.032)
retiree	1.599	2.290*	1.816*	2.575*
	(0.897)	(0.997)	(0.850)	(1.110)
best_committee	0.237	0.008	0.027	0.373*
	(0.124)	(0.154)	(0.118)	(0.174)
leader	2.218**	0.910	1.441*	1.940*
	(0.712)	(0.776)	(0.661)	(0.899)
(Intercept)	9.447**	18.182***	16.365***	10.799**
	(2.906)	(3.489)	(2.644)	(4.009)
R^2	0.689	0.641	0.684	0.615
Adj. R^2	0.684	0.635	0.679	0.608
Num. obs.	1042	951	1052	843
RMSE	6.118	7.255	5.865	7.749

***$p < 0.001$, **$p < 0.01$, *$p < 0.05$

Table 12: Senate Intra Party Division Models

	Democrats		Republicans	
	Southern	Others	Gingrich Senators	Others
ideological_extremism	4.519***	2.629***	3.012***	6.526***
	(1.154)	(0.409)	(0.645)	(0.401)
south			0.020	1.011
			(0.707)	(0.661)
pfrate100	0.850***	0.634***	0.244***	0.827***
	(0.065)	(0.035)	(0.050)	(0.034)
pres_vote_share	26.709***	22.988***	0.574	−5.288
	(5.097)	(2.641)	(4.618)	(3.425)
vote_share	−2.777	−3.334	2.376	9.541**
	(3.714)	(2.827)	(3.508)	(3.208)
latino		2.774	2.907	3.419
		(1.968)	(2.520)	(3.613)
female	0.215	2.476***		1.921
	(1.988)	(0.735)		(1.120)
up_for_reelection	−1.548	−0.343	−0.466	−1.785**
	(1.073)	(0.432)	(0.698)	(0.585)
seniority	−0.295*	0.136*	−0.264	0.139
	(0.140)	(0.054)	(0.178)	(0.075)
freshman	2.037	0.699	−0.198	0.141
	(1.768)	(0.725)	(0.967)	(0.968)
retiree	1.653	1.935*	2.811	2.406*
	(2.255)	(0.924)	(1.609)	(1.049)
best_committee	0.575	0.132	0.081	0.044
	(0.307)	(0.129)	(0.182)	(0.177)
leader	5.755*	1.792**	1.892	0.965
	(2.307)	(0.694)	(1.127)	(0.836)
power_committee	0.722	−1.360	1.075	−1.242
	(2.107)	(0.779)	(1.119)	(1.058)
chair	3.093*	0.581	1.291	3.690***
	(1.400)	(0.555)	(1.113)	(0.739)
afam		−1.012		−7.873
		(2.493)		(4.193)
(Intercept)	−6.288	20.478***	67.769***	8.912*
	(6.586)	(3.184)	(5.039)	(3.890)
R^2	0.728	0.571	0.236	0.678
Adj. R^2	0.713	0.563	0.174	0.671
Num. obs.	246	796	188	763
RMSE	7.334	5.445	4.067	7.090

***$p < 0.001$, **$p < 0.01$, *$p < 0.05$

3.2 House

Table 13:

Statistic	N	Mean	St. Dev.	Min	Max
congress	8,544	102.546	5.787	93	112
icpsrLegis	8,544	18,470.740	9,043.958	62	99,342
state_cd	8,544	2,455.331	1,433.201	101	5,001
cd	8,544	9.837	9.760	1	53
dem	8,544	0.555	0.497	0	1
majority	8,544	0.574	0.495	0	1
female	8,544	0.094	0.292	0	1
afam	8,544	0.063	0.244	0	1
latino	8,544	0.035	0.183	0	1
votepct	8,544	68.266	13.793	36	100
speaker	8,544	0.002	0.042	0	1
chair	8,544	0.051	0.219	0	1
subchr	8,544	0.250	0.433	0	1
power	8,544	0.255	0.436	0	1
seniority	8,544	5.331	4.054	1	29
maj_leader	8,544	0.017	0.130	0	1
min_leader	8,544	0.019	0.137	0	1
south	8,544	0.296	0.456	0	1
les	8,544	1.008	1.595	0.000	18.686
drop	8,544	0.000	0.000	0	0
freshman	8,544	0.156	0.363	0	1
leader	8,544	0.036	0.187	0	1
fips	8,544	28.080	15.537	1	56
state_alphabetical_order	8,544	24.455	14.349	1	50
dpres	8,544	48.834	13.950	13.170	96.060
pres_votepct	8,544	56.562	12.365	16.310	96.060
bestgrosswart	8,544	13.822	6.376	0	22
party_free_ideal_point	8,544	−0.004	1.003	−4.076	9.347
pirate100	8,544	85.800	11.478	8.021	100.000
pfrate100	8,544	86.955	7.507	0.000	100.000
ideological_extremism	8,544	0.603	0.802	−4.317	9.347

Table 16: House Sorting Algorithm Coefficient Signs

	$(-)$ Ideal	$(+)$ Ideal
(-) Party	0.38	0.15
(+) Party	0.17	0.30

Table 14:

Statistic	N	Mean	St. Dev.	Min	Max
congress	4,746	102.059	5.785	93	112
icpsrLegis	4,746	17,626.680	8,603.223	62	95,415
state_cd	4,746	2,476.726	1,422.596	102	5,001
cd	4,746	9.596	9.070	1	53
dem	4,746	1.000	0.000	1	1
majority	4,746	0.700	0.458	0	1
female	4,746	0.114	0.317	0	1
afam	4,746	0.112	0.316	0	1
latino	4,746	0.050	0.217	0	1
votepct	4,746	70.230	14.571	36	100
speaker	4,746	0.002	0.041	0	1
chair	4,746	0.062	0.240	0	1
subchr	4,746	0.321	0.467	0	1
power	4,746	0.257	0.437	0	1
seniority	4,746	5.752	4.376	1	29
maj_leader	4,746	0.019	0.136	0	1
min_leader	4,746	0.015	0.122	0	1
south	4,746	0.289	0.453	0	1
les	4,746	1.113	1.702	0.000	18.686
drop	4,746	0.000	0.000	0	0
freshman	4,746	0.140	0.347	0	1
leader	4,746	0.034	0.182	0	1
fips	4,746	28.318	15.433	1	56
state_alphabetical_order	4,746	24.671	14.239	1	50
dpres	4,746	54.871	14.495	16.310	96.060
pres_votepct	4,746	54.846	14.503	16.310	96.060
bestgrosswart	4,746	13.832	6.398	0	22
party_free_ideal_point	4,746	−0.546	0.809	−4.076	4.317
pirate100	4,746	86.290	12.110	8.021	100.000
pfrate100	4,746	86.996	7.214	0.000	100.000
ideological_extremism	4,746	0.546	0.809	−4.317	4.076

Table 15:

Statistic	N	Mean	St. Dev.	Min	Max
congress	3,798	103.154	5.732	93	112
icpsrLegis	3,798	19,525.480	9,462.085	226	99,342
state_cd	3,798	2,428.596	1,446.085	101	5,001
cd	3,798	10.139	10.553	1	52
dem	3,798	0.000	0.000	0	0
majority	3,798	0.416	0.493	0	1
female	3,798	0.069	0.254	0	1
afam	3,798	0.002	0.049	0	1
latino	3,798	0.016	0.126	0	1
votepct	3,798	65.812	12.324	37	100
speaker	3,798	0.002	0.043	0	1
chair	3,798	0.037	0.189	0	1
subchr	3,798	0.161	0.367	0	1
power	3,798	0.251	0.434	0	1
seniority	3,798	4.805	3.543	1	21
maj_leader	3,798	0.015	0.121	0	1
min_leader	3,798	0.024	0.153	0	1
south	3,798	0.304	0.460	0	1
les	3,798	0.876	1.439	0.000	17.547
drop	3,798	0.000	0.000	0	0
freshman	3,798	0.176	0.381	0	1
leader	3,798	0.039	0.193	0	1
fips	3,798	27.783	15.662	1	56
state_alphabetical_order	3,798	24.185	14.482	1	50
dpres	3,798	41.290	8.534	13.170	76.530
pres_votepct	3,798	58.707	8.537	23.470	86.830
bestgrosswart	3,798	13.810	6.349	0	22
party_free_ideal_point	3,798	0.674	0.786	-2.473	9.347
pirate100	3,798	85.186	10.605	31.276	100.000
pfrate100	3,798	86.904	7.858	28.302	100.000
ideological_extremism	3,798	0.674	0.786	-2.473	9.347

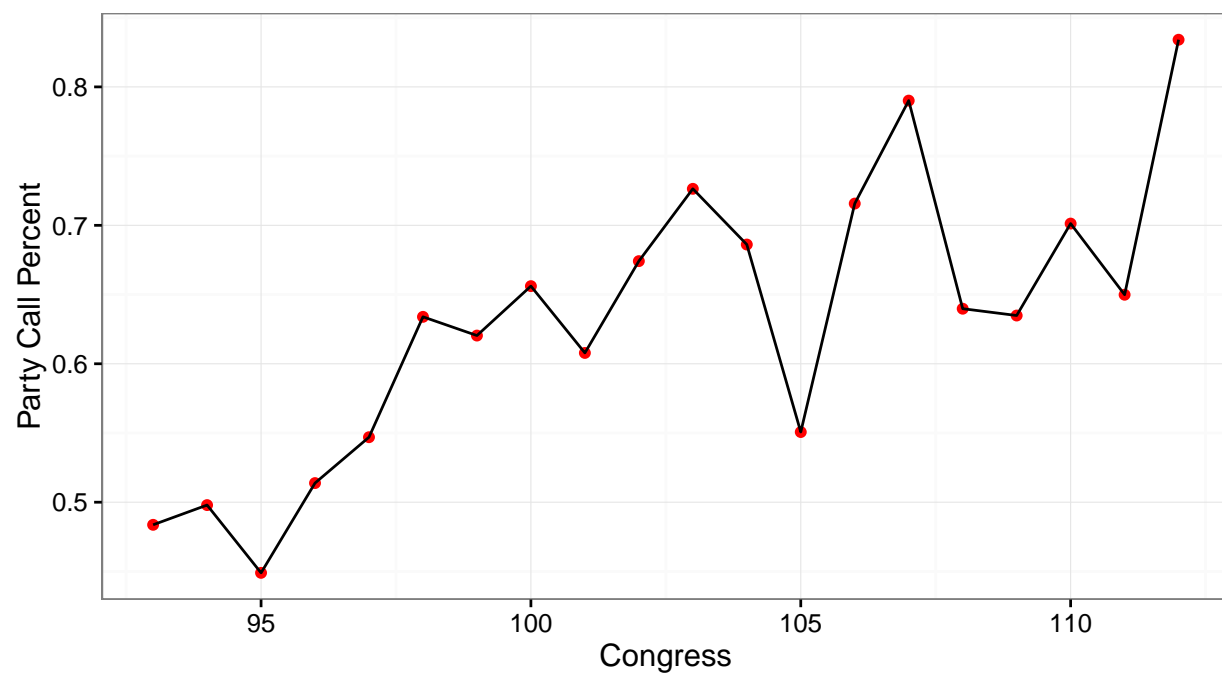Figure 36: House Party Calls by Congress

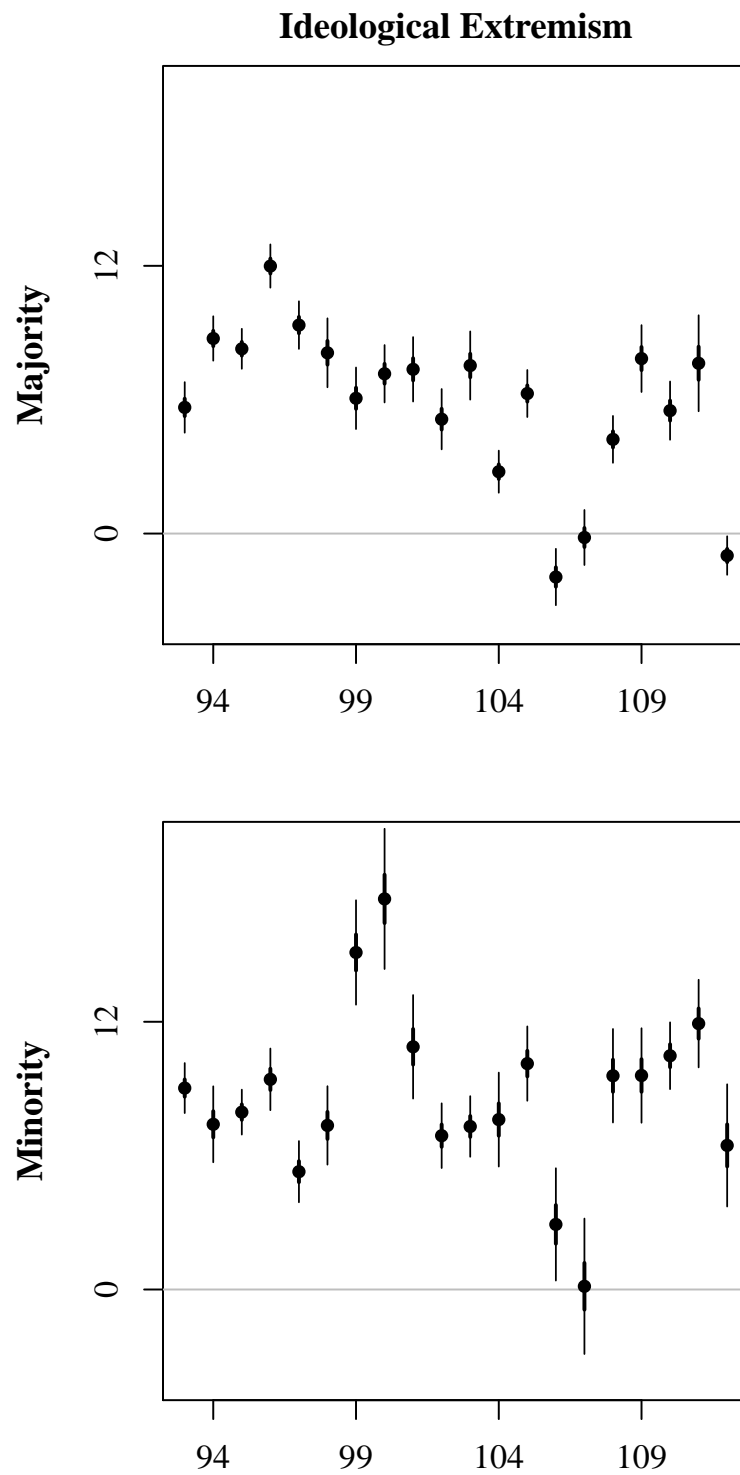Figure 37: House Ideological Extremism Coefficient Plot, Majority

Ideological Extremism
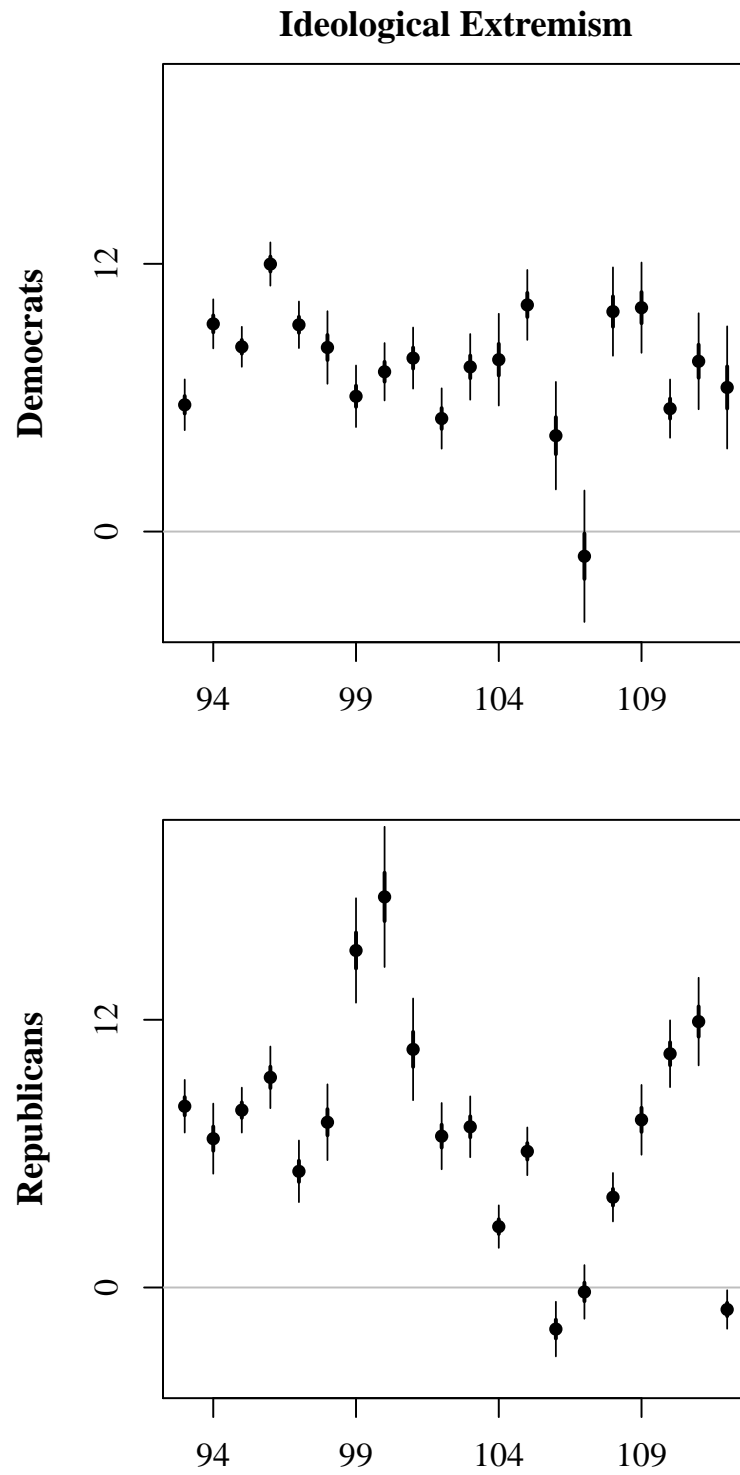
Figure 38: House Ideological Extremism Coefficient Plot, Party

Ideological Extremism

Table 17: House Aggregate Regression Models

	Democrats	Republicans	Majority	Minority
ideological_extremism	8.34***	5.84***	6.64***	8.73***
	(0.17)	(0.21)	(0.16)	(0.20)
pfrate100	0.64***	0.41***	0.52***	0.63***
	(0.02)	(0.02)	(0.01)	(0.02)
pres_votepct	0.09***	−0.09***	0.20***	0.16***
	(0.01)	(0.02)	(0.01)	(0.02)
south	−2.43***	3.63***	−1.65***	−0.36
	(0.28)	(0.34)	(0.25)	(0.31)
votepct	−0.04***	−0.00	−0.09***	−0.06***
	(0.01)	(0.01)	(0.01)	(0.01)
female	0.53	−0.08	−0.13	2.13***
	(0.35)	(0.57)	(0.40)	(0.44)
afam	−0.52	5.01	−3.04***	3.24***
	(0.44)	(2.97)	(0.53)	(0.61)
latino	1.73***	2.41*	2.83***	3.02***
	(0.51)	(1.15)	(0.63)	(0.70)
seniority	0.05	−0.33***	0.02	0.00
	(0.03)	(0.05)	(0.03)	(0.04)
freshman	−0.07	1.00*	0.28	−0.39
	(0.36)	(0.46)	(0.35)	(0.44)
bestgrosswart	−0.04*	−0.24***	−0.17***	−0.16***
	(0.02)	(0.03)	(0.02)	(0.02)
leader	1.96**	2.80***	2.62***	1.79**
	(0.60)	(0.76)	(0.65)	(0.65)
power	1.82***	2.95***	3.02***	1.06**
	(0.28)	(0.37)	(0.27)	(0.36)
chair	2.49***	9.85***	1.85***	
	(0.50)	(0.80)	(0.44)	
(Intercept)	24.00***	53.04***	36.42***	17.78***
	(1.58)	(2.21)	(1.49)	(2.05)
R^2	0.63	0.30	0.57	0.48
Adj. R^2	0.63	0.30	0.56	0.48
Num. obs.	4746	3798	4902	3642
RMSE	7.36	8.87	7.55	8.01

$^{***}p < 0.001$, $^{**}p < 0.01$, $^{*}p < 0.05$

Table 18: Minozzi Volden (2013) Table 3 Replication

	Democrats			Republicans		
Congress:	97	102	107	97	102	107
ideological_extremism	9.27***	5.07***	−1.11	5.21***	6.78***	−0.20
	(0.53)	(0.69)	(1.50)	(0.71)	(0.76)	(0.61)
pfrate100	1.03***	0.67***	1.11**	0.50***	0.48***	0.35**
	(0.07)	(0.08)	(0.36)	(0.08)	(0.08)	(0.11)
pres_votepct	0.15**	0.14**	0.22***	0.23***	0.21*	0.18***
	(0.05)	(0.05)	(0.06)	(0.07)	(0.08)	(0.03)
south	−4.20***	−1.31	−3.13*	1.53	0.07	1.75***
	(1.02)	(0.80)	(1.28)	(1.19)	(1.22)	(0.52)
votepct	−0.08*	−0.03	−0.04	0.05	−0.00	−0.03
	(0.03)	(0.03)	(0.05)	(0.05)	(0.03)	(0.02)
female	0.05	−1.58	2.44*	−4.21*	−1.87	−1.39
	(2.06)	(1.22)	(1.21)	(2.00)	(2.25)	(0.83)
afam	−2.56	−1.98	−1.43		3.95	−3.54
	(2.12)	(1.58)	(1.73)		(6.14)	(3.57)
latino	4.02	2.79	0.69	−1.28	3.26	0.79
	(2.91)	(1.90)	(1.89)	(5.75)	(6.35)	(1.50)
seniority	0.08	0.07	−0.11	−0.02	−0.71***	−0.17*
	(0.12)	(0.10)	(0.13)	(0.17)	(0.15)	(0.08)
freshman	−1.25	0.01	−0.13	3.45*	3.76*	0.59
	(1.43)	(1.19)	(2.02)	(1.34)	(1.77)	(0.78)
bestgrosswart	0.09	−0.06	0.25*	0.11	0.11	0.17**
	(0.08)	(0.08)	(0.10)	(0.09)	(0.11)	(0.05)
leader	7.02*	2.00	0.56	0.38	4.26	3.17*
	(2.87)	(1.95)	(2.42)	(2.42)	(2.24)	(1.23)
power	1.09	1.44	−1.23	−1.37	−0.03	−0.21
	(1.02)	(0.90)	(1.31)	(1.35)	(1.41)	(0.63)
chair	2.61	1.31				1.30
	(1.52)	(1.35)				(0.91)
(Intercept)	−18.03**	25.29***	−33.70	11.17	23.11**	47.81***
	(6.71)	(7.32)	(35.43)	(8.06)	(8.49)	(10.27)
R²	0.82	0.65	0.36	0.54	0.61	0.52
Adj. R²	0.80	0.64	0.31	0.50	0.58	0.49
Num. obs.	233	263	209	187	162	217
RMSE	5.47	4.97	6.39	5.62	5.86	3.26

***$p < 0.001$, **$p < 0.01$, *$p < 0.05$