

Supplementary Material: Two Sword Lengths Apart: Credible Commitment Problems and Physical Violence in Democratic National Legislatures

April 2, 2015

Data Set of Legislative Violence

Section added.

The legislative violence data set used in this paper was built by the author and four research assistants over a number of years using keyword searches of electronic news and video sources. An initial data set was compiled in Spring 2011 with keyword searches of the Google News Archive (Google, 2011). This resource has a global coverage of news sources over a long period of time. This search was done by a research assistant and the author using keywords that included ‘parliament’, ‘legislature’, ‘national assembly’, ‘brawls’, ‘scuffles’, ‘fights’. The initial data set was then verified and supplemented between 2013 and early 2015 by three other research assistants with similar keyword searches of the Google News Archive, LexisNexis,¹ NewsLibrary,² NewsBank,³ general Google search,⁴ and YouTube⁵. These searches were supplemented with colleagues’ expert knowledge.

YouTube is a particularly useful resource for detailed video data on the size and dynamics of legislative brawls. In future research I aim to use this detailed data to study how brawls occur once they happen. For this article, it is useful to note that each brawl can be considered a single event. Though brawl intensity

¹<http://www.lexisnexis.com/en-us/gateway.page>. Accessed 2013-2014.

²www.newslibrary.com. Accessed 2013-2014.

³www.newsbank.com. Accessed 2013-2014.

⁴www.google.com. Accessed 2013-2015.

⁵www.youtube.com. Accessed 2013-2014.

varies between brawls and over the course of the brawls as more or fewer legislators are involved, they tend to center around the same issue on the same day.

Sources and short descriptions of legislative violence incidents included in the data set can be found at: [OBSCURED FOR BLIND REVIEW].

Examining Possible Measurement Error

Relying heavily on electronic sources may create measurement error. The electronic availability of news and videos on legislative violence, as with material on almost all other phenomenon, could be positively correlated with time. I.e. more information is available for incidents in more recent years.

There are indeed more incidents in later years of the data set. For example, there were only 8 incidents observed in the 1980s for the entire sample of countries. In contrast the democratic sample's last ten years (2002-2012) has 52. Nonetheless, there are good reasons to believe that this distribution of incidents over time is not simply the result of measurement error, but has more to do with increasing democratization.

There are many more countries with democratic multi-party national legislatures that could have violence later in the sample. The top panel of Figure 1 shows the number democracies in the sample as defined as having a Polity IV score greater than 5. In 1981 there were only 40 countries. Between 1990 and 1995 a dramatic increase occurred such that by 1995 there are 76 democracies. At the end of the sample period, more than double the original number—93—countries are democracies. In the bottom panel of Figure 1 we can see that the temporal distribution of legislative violence roughly follows the pattern of democratization. There is a noticeable increase in the average number of violent incidents from this mid-1990s. Furthermore, as the empirical evidence in this article has demonstrated newer democracies are more likely to have legislative violence. As such, we should expect to see more violence in the more recent period when there are many new democracies.

Measurement error caused by the electronic availability of information could be an issue. Nonetheless, the increasing prevalence of young democracies with legislatures where members are competitively elected is likely an important cause of there being more observed incidents of violence later in the sample.

Additional Right-hand Variables

This section was moved from the main paper at the editor's request

I examined a number of other legislative and societal-level variables to guard against omitted variable bias. Results from models with these variables are shown in tables I and II. The variables are described

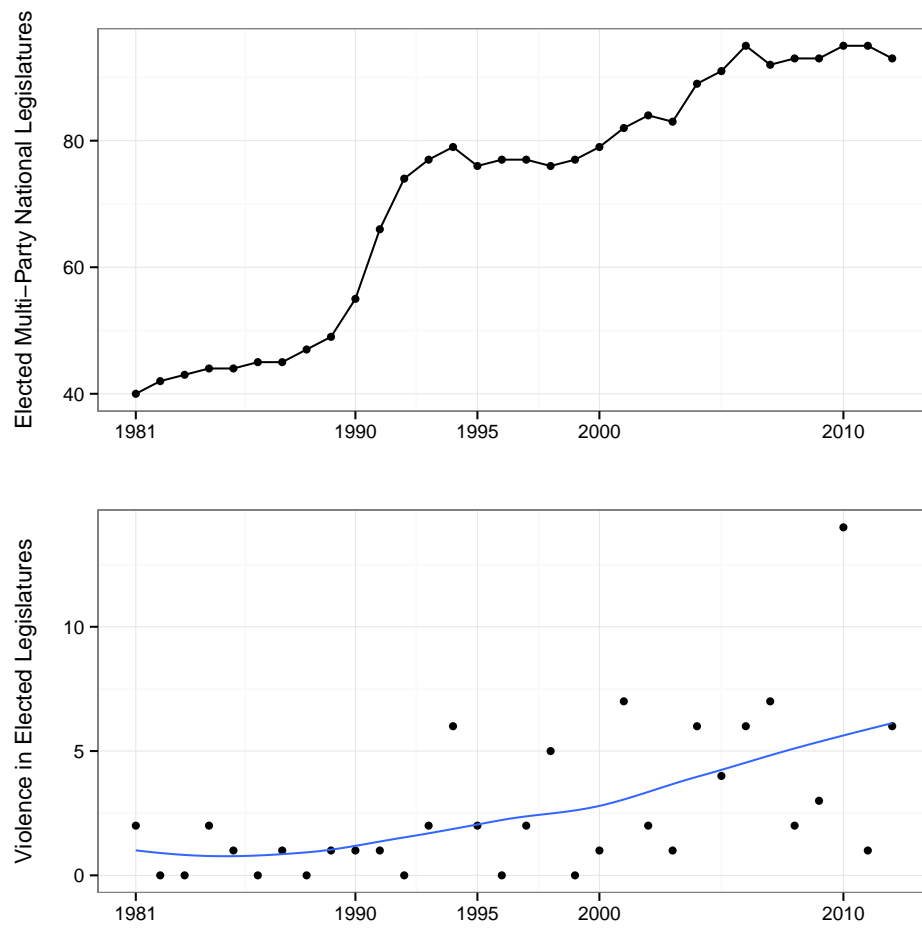


Figure 1: Comparing the Number of Multi-Party Elected National Legislatures to Observed Violence in These Legislatures Over Time (1981-2012)

below. It is important to first note that overall these factors were not found to be statistically significantly associated with legislative violence nor did they substantively alter the article’s core findings.

Motivation and Variable Descriptions

The following paragraph was added.

Previous research on protest movements has often focused on the role of these movements’ ability to organize and overcome collective action problems that discourage individuals from becoming involved in protests (Lohmann, 1994; Tucker, 2007). Perhaps this approach is applicable to legislative violence. Groups of legislators that are better able to organize may be more willing to engage in violent acts. However, there is a clear reason to be skeptical of the usefulness of this approach to explain whether or not legislative brawls occur: legislators are generally well-organized into political parties. Even weak parties with relatively few legislators, typically in the hundreds at most, are generally better organized and less subject to collective action problems than protest movements. That being said, the legislative studies literature has shown that the degree of personal vs. party organization varies across countries and is particularly influenced by the electoral system (Carey and Shugart, 1995). For example, if parties control the order of candidates on a closed-list ballot then the party will have considerable control over politicians. If a politician does not tow the party line, then the party could move the candidate lower down the list at the next election, decreasing their chances of re-election. Conversely, if candidates are placed on the ballot through open primaries, then parties have less control and candidates have stronger incentives to cultivate a personal vote. To measure the degree of party control I used the dominant legislative tier’s—i.e. the tier with the most seats—*personal vote* rank. The data is from Johnson and Wallack (2012) and is based on Carey and Shugart (1995). Scores range between 1 and 13. Higher scores indicate stronger incentives for candidates to cultivate a personal vote, i.e. there is less party control. The data is available through 2005. It was assumed to be constant from this point through 2012.

Gender is closely correlated with violence in society generally. Though there are many possible reasons for this that are beyond the scope of this article, women tend to commit many fewer acts of violence than men (Schwartz, Steffensmeier and Feldmeyer, 2009). Previous research has found that women’s participation in parliament has an impact on government decisions to go to war (Melander, 2005). Perhaps if a larger proportion of legislators are women there will be less violence in the parliamentary chamber. To examine this possibility, I gathered data on the *percentage of women in parliament* per country-year from two sources. Data from 1997 and after was from the Inter-Parliamentary Union (2013). Data from before 1997 was from Schwartz, Steffensmeier and Feldmeyer (2009).

I included a countries’ *murder rate*, i.e. murders per 100,000 people, to measure a possible association between societal-level and legislative violence. The data was from United Nations (2013), which aggre-

gated annual murder rates from a variety of national and international sources. The data is available from 1995 through 2011.⁶

I also included standard measures of the *effective number of parliamentary parties* by votes and by seats (Laakso and Taagepera, 1979; Taagepera and Shugart, 1989). The data was taken from Carey and Hix (2011) before 2004 and from Gallagher (2015) afterwards. Both of these measures indicate how fragmented a parliamentary party system is. Higher scores indicate that there are more parties that win either votes or seats. Neither measure produced statistically significant results, so only the results for the effective number of parties by seats are shown below.

To examine whether or not national legislative losers may be dissuaded from legislative violence because there is a possibility of gaining power at a provincial-level, I include the *federalism* dummy variable from Carey and Hix (2011). I updated this from 2004 until the end of the observation period. In early models I also controlled for the government system type, i.e. if it had a presidential, parliamentary, or mixed assembly-elected presidential. This was from the DPI.

Conflict in more economically divided societies may be generally more intense. These conflicts may spill over into legislatures where they precipitate violence between members. To capture similar possible effects from economic divisions, I include *Gini coefficients of economic inequality* from UNU-WIDER (2015).⁷ Finally, as is common in cross-country analyses, I also include the natural logarithm (due to its right-skewed distribution) of *gross domestic product per capita*. This data is from the World Bank's International Development Indicators (2015) and is in thousands of 2005 United States dollars.

Results Discussion

Moved from main paper and changed for results with updated data.

Societal-level Variables In general the additional societal-level variables were found to be associated with legislative violence in any of the models. Countries' murder rates were not found to be associated with violence indicating that the link between societal and legislative violence is not strong. Ethnic fractionalization was not statistically associated with legislative brawls. GDP per capita was also not found to be associated with violence. The Gini coefficient was negatively associated with brawls—more

⁶Beyond truncating the sample somewhat, this data set unfortunately does not record Taiwan's murder rate separately from China's.

⁷Note, for country-years with missing data I assumed that the Gini Coefficient remained constant from the last year there is data for the country, unless the span was ten years or more. If this was the case they were treated as missing.

inequality was associated with less violence. This finding runs counter to expectations and requires more research to fully understand.

Other Political and Institutional Variables Results for other political and institutional variables were largely not statistically significant. The personalistic vote index was insignificant, perhaps because the baseline level of party organization is high, even if it does vary between legislatures. The effective number of parties variables and the basic continuous government fractionalization variable was statistically significant in the analyses. Likewise, federalism did not appear to be robustly related to legislative violence across the models. All of these variables are not as directly related to legislative fairness and an ability to make credible legislative commitments at a theoretical level, compared to disproportionality, democratic age and, to a lesser extent, governing majority size. So it should not come as too much of a surprise to find that they are more loosely, if not at all, associated with legislative violence.

Table I: Legislative Violence Rare Events Logistic Regression Results (Multi-Party Elected Legislature 1981-2012)

	<i>Dependent variable:</i>											
	Violent Incident											
	(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)	(12)
Lower Disproportionality	−0.701*** (0.266)	−0.689*** (0.266)	−0.693*** (0.267)	−0.664** (0.266)	−0.524* (0.297)	−0.722** (0.302)	−0.732** (0.306)	−0.883** (0.393)	−0.692** (0.274)	−0.587** (0.272)	−0.652** (0.266)	−0.524* (0.279)
Dem. Age (log)	−0.303*** (0.105)	−0.297*** (0.105)	−0.299*** (0.107)	−0.294*** (0.105)	−0.340*** (0.127)	−0.374*** (0.116)	−0.336*** (0.121)	−0.344** (0.162)	−0.325*** (0.117)	−0.332*** (0.112)	−0.350*** (0.105)	−0.301** (0.128)
Majority Size	−0.023*** (0.008)	−0.023*** (0.008)	−0.023*** (0.008)	−0.022*** (0.008)	−0.019* (0.010)	−0.029*** (0.009)	−0.022** (0.009)	−0.028** (0.014)	−0.026*** (0.009)	−0.026*** (0.009)	−0.024*** (0.009)	−0.020** (0.009)
Internal Armed Conflict		0.556* (0.303)	0.535* (0.303)	0.542* (0.303)	0.494 (0.350)	0.629* (0.371)	0.689** (0.336)	0.189 (0.547)	0.537* (0.309)	0.576* (0.308)	0.638** (0.308)	0.661** (0.316)
Leg. Immunity			−0.015 (0.257)									
Single Party Gov.			−0.102 (0.249)									
Political Constraints				−0.735 (0.912)								
Self Expression					2.384 (2.432)							
Ethnic Frac.					−0.523 (0.762)							
Personalistic Vote						0.018 (0.038)						
Perc. Women in Parl.							0.015 (0.017)					
Murder Rate								−0.002 (0.013)				
Federal									0.132 (0.357)			
Gov. Frac.										0.083 (0.468)		
No. of Parties by Seats											−0.091 (0.093)	
GINI												−0.040*** (0.015)
GDP per Capita (log)												−0.048 (0.120)
(Intercept)	−0.831 (0.534)	−0.923* (0.538)	−0.835 (0.633)	−0.717 (0.604)	−3.897 (3.040)	−0.417 (0.565)	−1.067* (0.623)	−0.288 (0.807)	−0.688 (0.572)	−0.371 (0.730)	0.775 (0.826)	−1.085* (0.580)
Observations	1,707	1,707	1,682	1,682	911	1,495	1,586	821	1,570	1,591	1,684	1,628
Log Likelihood	−279.636	−278.226	−277.253	−277.151	−203.983	−238.522	−226.651	−134.936	−259.188	−263.690	−273.029	−248.318
Akaike Inf. Crit.	567.272	566.452	568.507	566.302	421.966	489.043	465.303	281.872	532.377	539.380	558.058	508.636

*p<0.1; **p<0.05; ***p<0.01

Standard errors are in parentheses. All models use robust (WEAVE) standard errors.

Table II: Legislative Violence Regression Results (Democratic Legislature from 1990-2012)

	<i>Dependent variable:</i>						
	Violent Incident						
	(1)	(2)	(3)	(4)	(5)	(6)	(7)
Lower Disproportionality	-0.592* (0.308)	-0.588* (0.313)	-0.883** (0.393)	-0.602** (0.278)	-0.506* (0.276)	-0.543** (0.271)	-0.429 (0.286)
Dem. Age (log)	-0.375*** (0.122)	-0.368*** (0.130)	-0.344** (0.162)	-0.356*** (0.126)	-0.372*** (0.119)	-0.367*** (0.110)	-0.450*** (0.139)
Majority Size	-0.030*** (0.010)	-0.021** (0.010)	-0.028** (0.014)	-0.024** (0.009)	-0.025*** (0.010)	-0.023** (0.009)	-0.019** (0.009)
Internal Armed Conflict	0.324 (0.432)	0.509 (0.386)	0.188 (0.547)	0.452 (0.352)	0.504 (0.351)	0.549 (0.351)	0.648* (0.358)
Personalistic Vote	0.016 (0.039)						
Perc. Women in Parliament		0.009 (0.019)					
Murder Rate			-0.002 (0.013)				
Federal				-0.036 (0.410)			
Gov. Frac.				-0.066 (0.489)			
No. of Parties by Seats					-0.123 (0.098)		
Gini						-0.043*** (0.016)	
GDP per Capita (log)							0.137 (0.132)
(Intercept)	-0.272 (0.598)	-0.861 (0.652)	-0.177 (0.807)	-0.564 (0.597)	-0.112 (0.764)	0.971 (0.849)	-0.939 (0.612)
Observations	1,291	1,320	821	1,319	1,337	1,418	1,371
Log Likelihood	-220.241	-203.253	-134.936	-235.109	-238.861	-247.922	-223.698
Akaike Inf. Crit.	452.482	418.507	281.872	484.219	489.722	507.845	459.396

*p<0.1; **p<0.05; ***p<0.01

Standard errors are in parentheses. All models use robust (WEAVE) standard errors.

Details on Prior Correction of the Rare Logistic Regression Models

For prior correction (see King and Zeng, 2001) in the models with the full sample of democratic legislatures I used the observed proportion of all observations with legislative violence ^{c1}through 2012: i.e. ^{c2}3.7 percent of observations up until ^{c3}2012 had violence ($\tau = \frac{86}{2297} = 0.037$). There were ^{c4}79 observed incidences of violence and ^{c5}1898 country-years from 1990 through ^{c6}2012 in the sample, so: $\tau = \frac{79}{1898} = 0.042$.

^{c1} up to 2010
^{c2} 2.1
^{c3} 2010
^{c4} 63
^{c5} 2654
^{c6} 2009

Interactions

Section added

I examined a number of interactions between the article’s key independent variables—lower disproportionality and democratic age—and a number of societal level and political variables. While I did not find evidence for additive relationships between most of the societal variables and legislative brawls, perhaps they mediate the effect of disproportionality or democratic age. For example, legislators in more homogenous societies might have fewer information asymmetries across partisan divides enabling them to establish credible commitments in new democracies.

Tables III and IV provide the raw estimates from these interactive models. We can see that some of the interactions contain statistically significant terms, though often only at the 10% level.

As in the main article, in order to evaluate the substantive significance of these findings I simulated expected probabilities for interactions that included statistically significant terms at the 5% level and higher. I then plotted them in figures 2 and 3.^{c0} The plots show expected probabilities for various levels of low disproportionality and democratic age at ‘high’ and ‘low’ values of the other variables in the interactions. Self-expression was high at 1.35 and low at 1.1. Ethnic fractionalization was high at 0.8 and low at 0.1. Finally, political constraints were high at 0.7 and low at 0.1. These fitted values are close to the variables’ minimum and maximum values to enable the largest meaningful contrasts.

The substantive importance of these interactions is overall very weak. Plots of the simulations illustrate that there is considerable overlap in the uncertainty surrounding most of the estimates for substantively meaningful fitted values. This is especially true for interactions with the low disproportionality

^{c0}See Figure 4 for marginal effects (Brambor, Clark and Golder, 2006). The substantive importance of the interactions is not conveyed as effectively in these plots. In addition, while the interaction between lower disproportionality and the Gini coefficient contains significant terms at the 5% level the effect is substantively meaningless and is not plotted.

tionality variable. To the extent that the estimates are suggestive of true interactive effects, overall it appears that factors creating credible commitment problems in new democracies are worsened by ethnic divisions and few constraints on altering policy. The top-panel of Figure IV suggests that perhaps in new democracies violence is more likely when there is more ethnic fractionalisation. Credible commitment problems between ethnic groups could be particularly strong in these countries. The bottom-panel of Figure IV suggests that high political constraints on policy change mediate the effect of democratic age on violence. Having more and more disperse veto players make it difficult for the current majority to enact policy change, perhaps improving their ability to make credible commitments.

It is important to reiterate that though these interactive effects have statistically significant terms, the substantive importance of these estimates for meaningful fitted values is very weak.

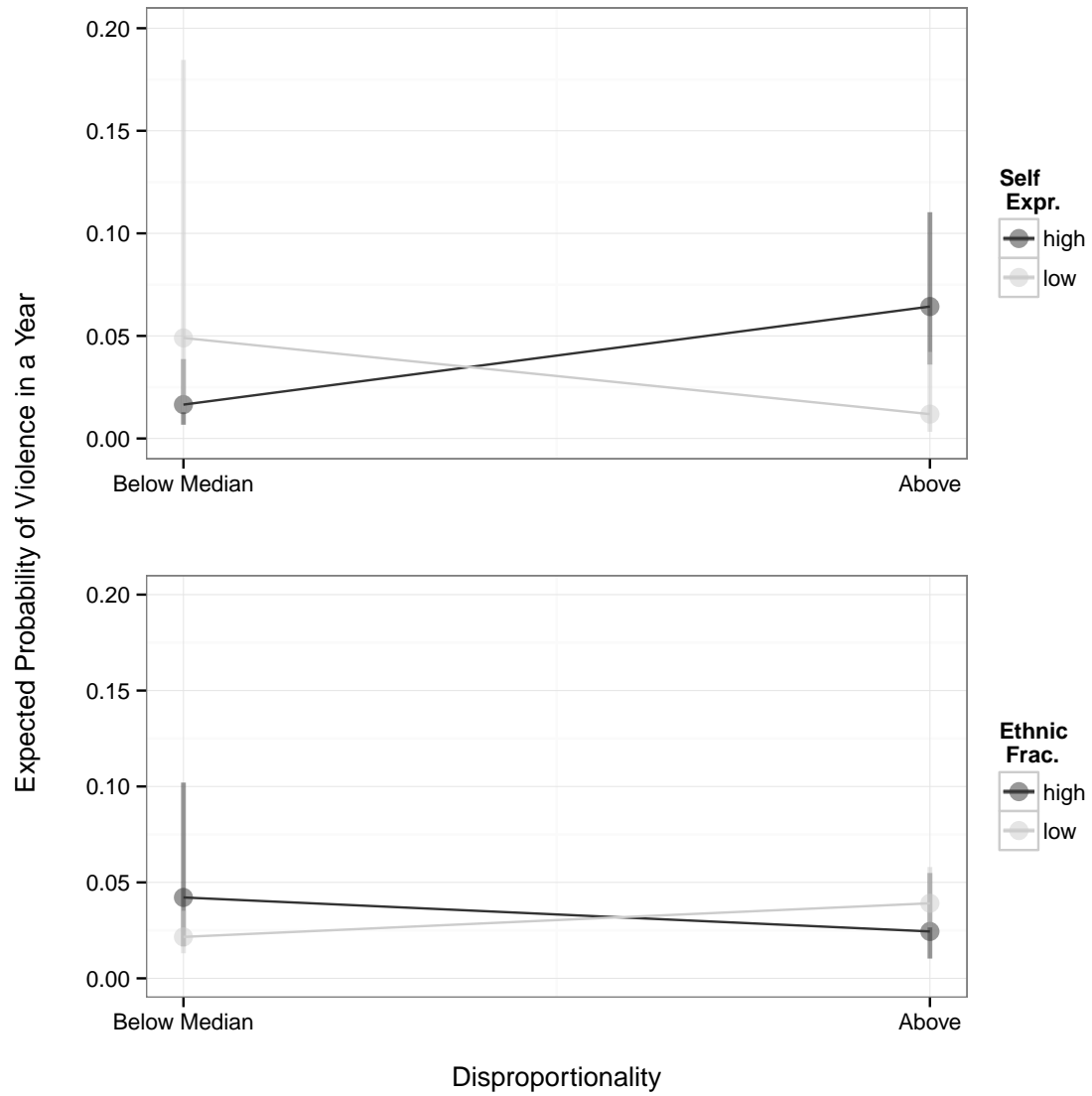


Figure 2: Expected Probability of Legislative Violence in Democratic Legislatures per Year (Interactions 1)

The graphs show the median and middle 95% of 1000 simulations at each fitted value of the variables. The simulations use estimates from tables III and IV. For each set of simulations all other variables were fitted at their means.

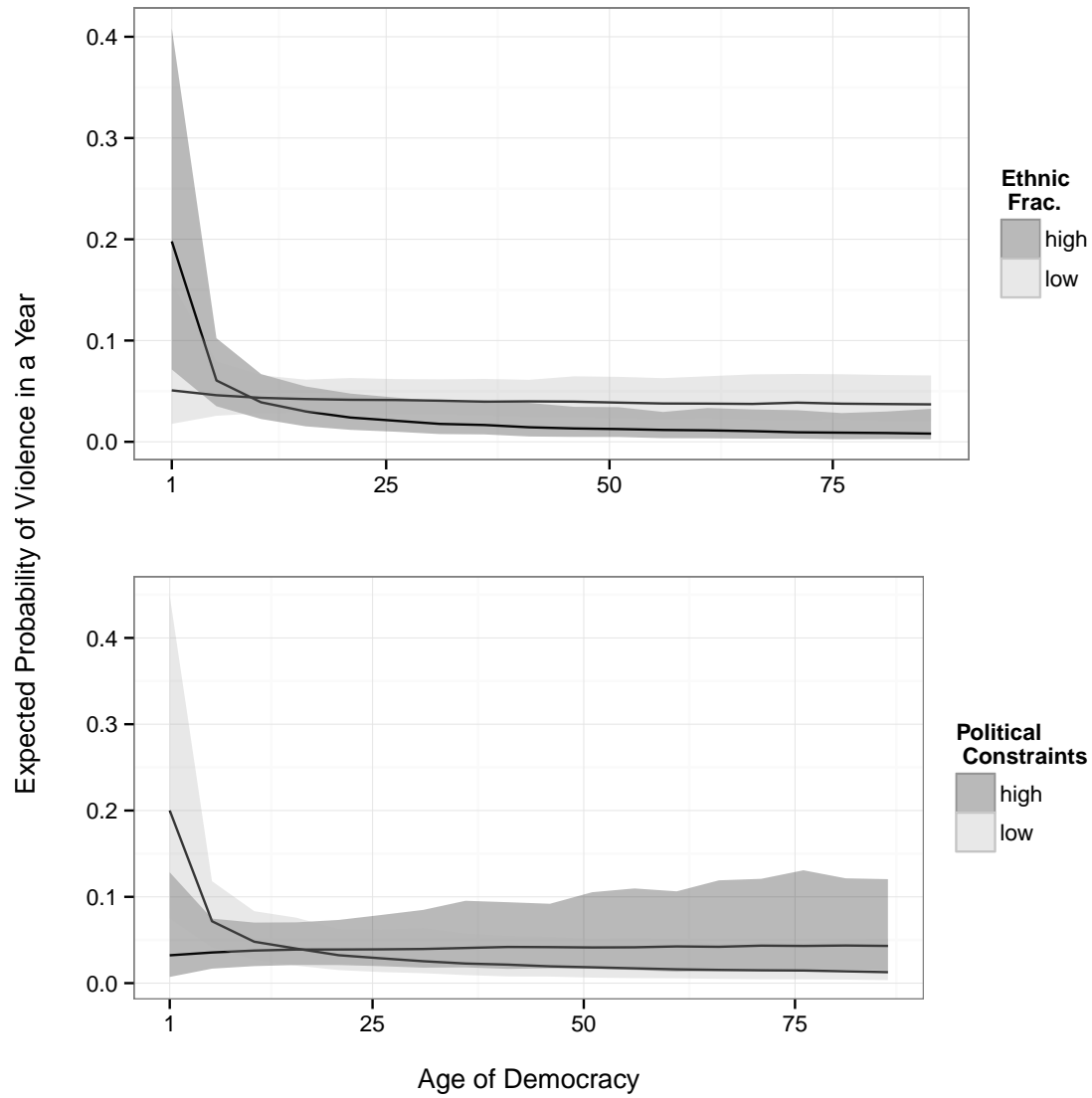


Figure 3: Expected Probability of Legislative Violence in Democratic Legislatures per Year (Interactions 2)

The graphs show the median and middle 95% of 1000 simulations at each fitted value of the variables. The simulations use estimates from tables III and IV. For each set of simulations all other variables were fitted at their means.

Table III: Legislative Violence Regression Results with Lower Disproportionality Interactions (Democratic Legislature from 1990-2012)

	<i>Dependent variable:</i>					
	Violent Incident					
	(1)	(2)	(3)	(4)	(5)	(6)
Majority Size	-0.022** (0.009)	-0.017* (0.010)	-0.022** (0.009)	-0.023** (0.009)	-0.018* (0.010)	-0.020** (0.009)
Dem. Age (log)	-0.245* (0.137)	-0.384*** (0.132)	-0.335*** (0.114)	-0.373*** (0.112)	-0.412*** (0.142)	-0.329*** (0.112)
Lower Disproportionality	0.082 (0.654)	14.407** (6.481)	-1.638*** (0.588)	-0.559 (1.168)	0.262 (0.431)	0.022 (0.765)
Lower Disp.*Dem. Age	-0.252 (0.234)					
Self Expression		7.058** (3.210)				
Lower Disp.*Self Expression		-11.738** (5.128)				
Ethnic Frac.			-1.193 (0.758)			
Lower Disp.*Ethnic Frac.			2.776** (1.270)			
GINI				-0.039* (0.021)		
Lower Disp.*GINI				0.001 (0.030)		
GDP per Capita (log)					0.244 (0.153)	
Lower Disp.*GDP Per Capita					-0.449* (0.231)	
Political Constraints						-0.030 (1.169)
Lower Disp.*Pol. Constraints						-1.483 (1.881)
(Intercept)	-0.953 (0.597)	-9.836** (4.097)	-0.313 (0.653)	0.928 (0.982)	-1.177* (0.648)	-0.850 (0.728)
Observations	1,441	810	1,435	1,418	1,371	1,417
Log Likelihood	-253.644	-186.409	-251.423	-248.923	-222.992	-252.849
Akaike Inf. Crit.	517.288	384.817	514.846	509.845	457.984	517.697

*p<0.1; **p<0.05; ***p<0.01

Standard errors are in parentheses. All models use robust (WEAVE) standard errors.

Table IV: Legislative Violence Regression Results with Democratic Age Interactions (Democratic Legislature from 1990-2012)

	<i>Dependent variable:</i> Violent Incident				
	(1)	(2)	(3)	(4)	(5)
Majority Size	-0.019* (0.010)	-0.023*** (0.009)	-0.023** (0.009)	-0.019** (0.009)	-0.024*** (0.009)
Lower Disproportionality	-0.465 (0.301)	-0.583** (0.271)	-0.537** (0.272)	-0.410 (0.285)	-0.568** (0.272)
Dem. Age (log)	-0.749 (2.750)	0.018 (0.213)	0.008 (0.503)	-0.364* (0.207)	-0.780** (0.313)
Self Expression	2.873 (5.389)				
Dem. Age*Self Expression	0.277 (2.139)				
Ethnic Frac.		2.155 (1.340)			
Dem. Age*Ethnic Frac.		-0.971** (0.486)			
GINI			-0.015 (0.034)		
Dem. Age*GINI			-0.010 (0.013)		
GDP per Capita (log)				0.209 (0.283)	
Dem. Age*GDP Per Capita				-0.042 (0.092)	
Political Constraints					-3.405* (1.983)
Dem. Age*Pol. Constraints					1.224 (0.786)
(Intercept)	-4.392 (6.876)	-1.535* (0.806)	0.046 (1.396)	-0.997 (0.739)	0.574 (0.960)
Observations	810	1,435	1,418	1,371	1,417
Log Likelihood	-189.097	-252.058	-248.643	-224.856	-252.091
Akaike Inf. Crit.	390.194	516.115	509.285	461.711	516.183

*p<0.1; **p<0.05; ***p<0.01

Standard errors are in parentheses. All models use robust (WEAVE) standard errors.

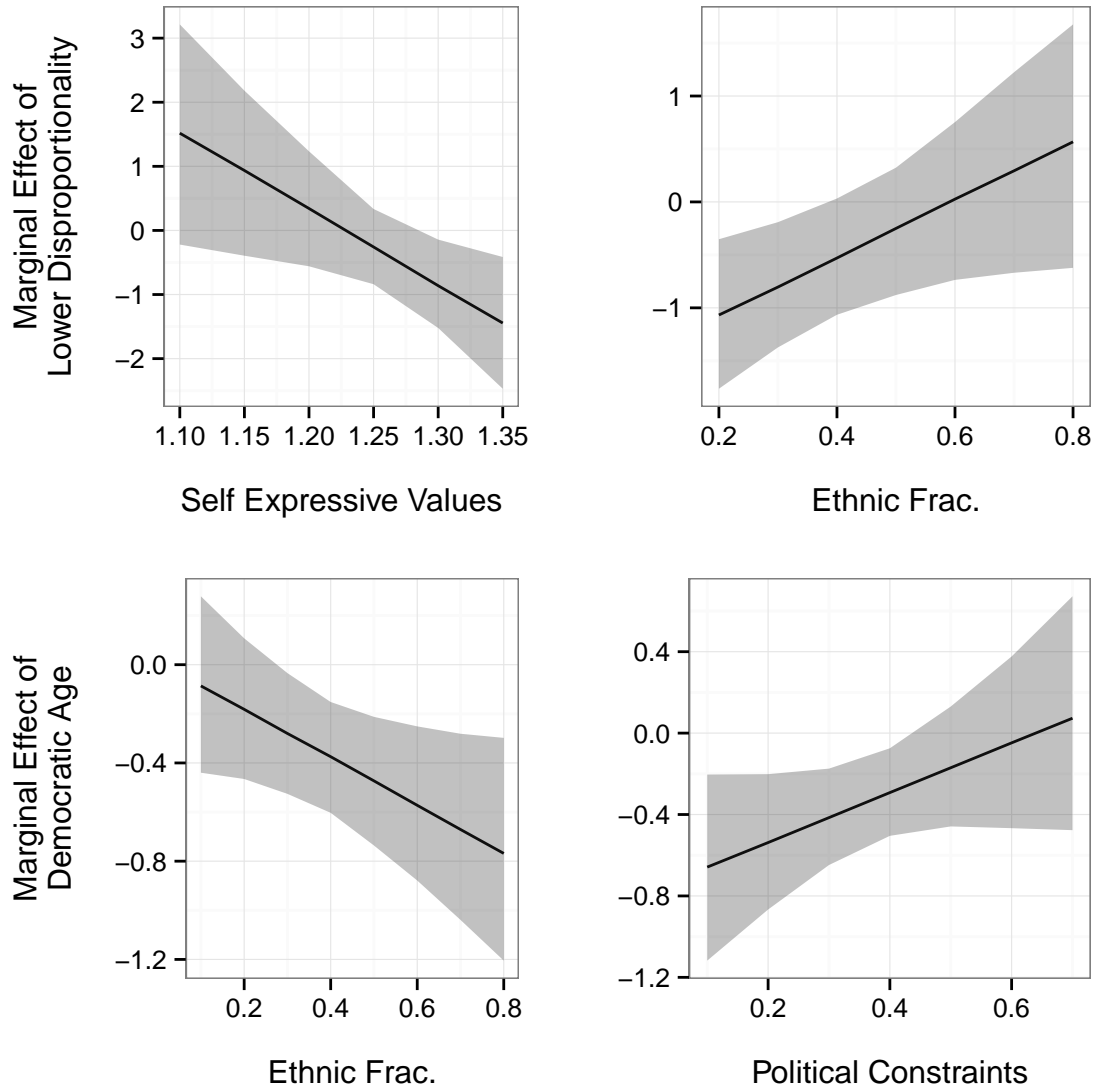


Figure 4: Marginal Effects of Lower Disproportionality and Democratic Age Given Representative Ranges of Interaction Variables

The graphs show the median and middle 95% of 1000 simulations at each fitted value of the variables. The simulations use estimates from tables [III](#) and [IV](#).

Ethnic fractionalization list-wise inclusion

Section added.

Table [V](#) shows models with ethnic fractionalization where key variables from the analysis are list-wise included. Ethnic fractionalization is statistically significantly associated with violence at the 10% level in two of these models. However, there are a number of reasons to be very skeptical of this result. First, the direction of the estimated effect runs strongly counter to our expectations in that more fractionalization is associated with *less* legislative violence. Second, the effect is highly model dependent as it is not

significant at the 10% level when lower disproportionality is included or in a model by itself.

Table V: Ethnic Fractionalisation list-wise inclusion (Democracies 1990-2012)

	<i>Dependent variable:</i>			
	Violent Incident			
	(1)	(2)	(3)	(4)
Ethnic Frac.	-0.254 (0.498)	-0.930* (0.533)	-0.914* (0.527)	-0.249 (0.605)
Dem. Age (log)		-0.357*** (0.097)	-0.415*** (0.101)	-0.342*** (0.115)
Majority Size			-0.016** (0.007)	-0.022** (0.009)
Lower Disproportionality				-0.571** (0.271)
(Intercept)	-3.142*** (0.213)	-1.966*** (0.354)	-0.895 (0.550)	-0.727 (0.642)
Observations	1.870	1.692	1.640	1.435
Log Likelihood	-327.144	-305.950	-299.687	-253.953
Akaike Inf. Crit.	658.288	617.900	607.374	517.906

*p<0.1; **p<0.05; ***p<0.01

Standard errors are in parentheses. All models use robust (WEAVE) standard errors.

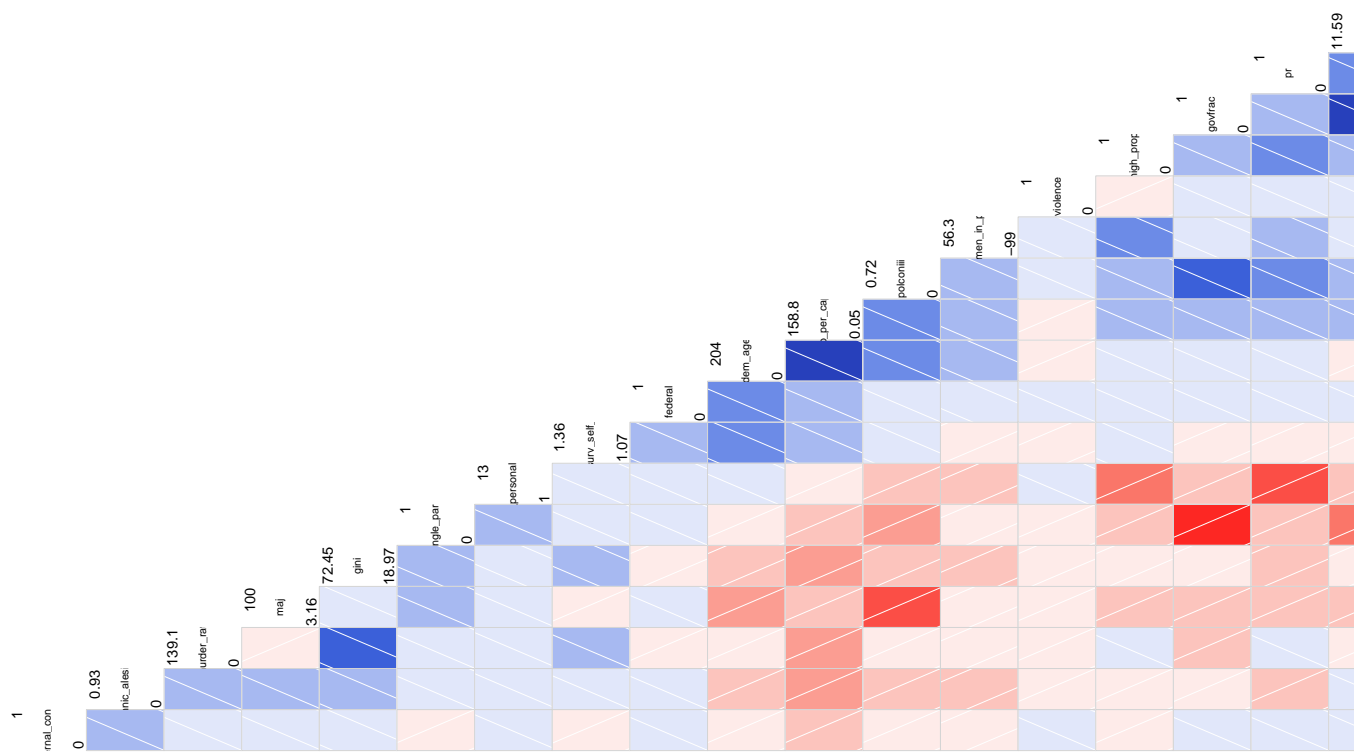
Table VI: Variable Summary

Variable	Label	Description	Source
Disproportionality	disproportionality	Gallagher Index of Electoral Disproportionality	Gallagher (2015) & Carey and Hix (2011)
ENPS	enps	Effective number of parties by seats	Gallagher (2015) & Carey and Hix (2011)
ENPV	enpv	Effective number of parties by votes	Gallagher (2015) & Carey and Hix (2011)
Ethnic Fractionalization	ethnic_alesina	Probability two randomly selected members of society are from the same ethnic group	Alesina et al. (2003)
Federal	federal	Whether a country has a federal system or not	Carey and Hix (2011), updated from 2003 by the author
GDP/Capita	gdp_per_capita	GDP per capita in thousands of US dollars	World Bank (2015)
Gov. Fractionalization	govfrac	Probability that two members of the Government will be from different parties	Beck et al. (2001)
Gini	gini	Gini Coefficient of income inequality averaged over reported sources	UNU-WIDER (2015)
Immunity	immunity	Whether legislators are immune from arrest and/or criminal prosecution or not	Fish and Kroening (2009)
Internal Conflict	internal_conflict	Internal armed conflict involving purely domestic as well as external combatants	UCDP/PRIO Armed Conflict Dataset (Themnér and Wallensteen, 2014)
LEIC	leic	Legislative Indices of Electoral Competitiveness. Includes both the existence of a legislature and its level of electoral competitiveness.	Beck et al. (2001)
Lower Disproportionality	high_prop	Gallagher Index below the sample mean (6.4)	Author's calculations based on Gallagher (2015) & Carey and Hix (2011)
Majority	maj	Percentage of legislature controlled by governing parties	Beck et al. (2001)
Murder Rate	murder_rate	Murders per 100,000 population	United Nations (2013)
Dominant Personalistic Vote Rank	dom_personal_vote	The personalistic vote rank in the most populous legislative chamber	(Johnson and Wallack, 2012)
Political Constraints	polconiii	POLCONIII measure of political constraints	(Henisz, 2004, updated through 2011)
Polity	polity2	Polity IV Score	Marshall and Jaggers (2009)
PR	pr	Whether a country uses a proportional representation electoral system or a plurality system	Beck et al. (2001)
Self Expression	cw_surv_self_expr	WVS self-expression indicator averaged across country-survey waves	World Values Survey Association (2009)
System	system	Government system (parliamentary, presidential, or mixed)	Beck et al. (2001)
Trust	higher_trust	Average of WVS responses where 1 = most people can be trusted and 2 = you can't be too careful	World Values Survey Association (2009)
Violence	violence	Incidences of violence between legislators in the national parliamentary chamber	author
Perc. Women in Parl.	women_in_parl	Percentage of parliamentary seats held by women	Paxton, Green and Hughes (2008) & Inter-Parliamentary Union (2013)

Label refers to the label used in the replication data file (*LegislativeViolenceMain.csv*).

Please contact the author for detailed summary statistics.

All of the data from Beck et al. (2001) was updated through 2012.



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