

Table S1 Initial positions of the model extracted from Zucco and Power [40]. The authors used computed the party locations from more than 850 responses from legislators from both the House and Senate. The scale ranges from 1 to 10 where 1 is complete *left* and 10 is complete *right*.

Party	Party Number	Position	Number of Candidacies
PCdoB	65	2.153	163
PT	13	3.388	1114
PSB	40	3.469	761
PDT	12	3.880	1042
PSDB	45	6.010	1207
PMDB	15	5.005	1436
PTB	14	6.860	837
PL	22	6.600	627
PFL	25	7.560	1044
PP	11	7.214	1089

Table S2 Descriptive data of currently active Brazilian political parties. These institutions do not provide an English version of their names, this is a free translation from the authors. Adapted from <http://www.tse.jus.br/partidos/partidos-politicos> (In Portuguese). The interested reader can also find a detailed history of Brazilian political parties in the link.

Party Acronym (s)	Portuguese Name	English Name	Year of Foundation
MDB	Movimento Democrático Brasileiro	Brazilian Democratic Movement	1981
PTB	Partido Trabalhista Brasileiro	Brazilian Labor Party	1981
PDT	Partido Democrático Trabalhista	Labor Democratic Party	1981
PT	Partido dos Trabalhadores	Workers's Party	1982
DEM	Democratas	Democrats	1986
PCdoB	Partido Comunista do Brasil	Communist Party of Brazil	1988
PSB	Partido Socialista Brasileiro	Brazilian Socialist Party	1988
PSDB	Partido da Social Democracia Brasileira	Party of the Brazilian Social Democracy	1989
PTC	Partido Trabalhista Cristão	Christian Labor Party	1990
PSC	Partido Social Cristão	Social Christian Party	1990
PMN	Partido da Mobilização Nacional	Party of the National Mobilization	1990
PRP	Partido Republicano Progressista	Progressive Republican Party	1991
PPS	Partido Popular Socialista	Popular Socialist Party	1992
PV	Partido Verde	Green Party	1993
AVANTE	Avante	Onward	1994
PP	Progressistas	Progressives	1995
PSTU	Partido Socialista dos Trabalhadores Unificado	Socialist Party of the Unified Workers	1995
PCB	Partido Comunista Brasileiro	Brazilian Communist Party	1996
PRTB	Partido Renovador Trabalhista Brasileiro	Brazilian Labor Renewer Party	1997
PHS	Partido Humanista da Solidariedade	Party of Humanist Solidarity	1997
DC	Democracia Cristã	Christian Democracy	1997
PCO	Partido da Causa Operária	Party of the Worker's Cause	1997
PODE	Podemos	We can	1997
PSL	Partido Social Liberal	Social Liberal Party	1998
PRB	Partido Republicano Brasileiro	Brazilian Republican Party	2005
PSOL	Partido Socialismo e Liberdade	Party Socialism and Freedom	2005
PR	Partido da República	Party of the Republic	2006
PSD	Partido Social Democrático	Social Democratic Party	2011
PPL	Partido Pátria Livre	Free Homeland Party	2011
PATRI	Patriota	Patriot	2012
PROS	Partido Republicano da Ordem Social	Republican Party of the Social Order	2013
SOLIDARIEDADE	Solidariedade	Solidarity	2015
NOVO	Partido Novo	New Party	2015
REDE	Rede Sustentabilidade	Sustainability Network	2015
PMB	Partido da Mulher Brasileira	Party of the Brazilian Woman	2015