

# Joe Biden won popular votes in 2024 US Presidential Election\*

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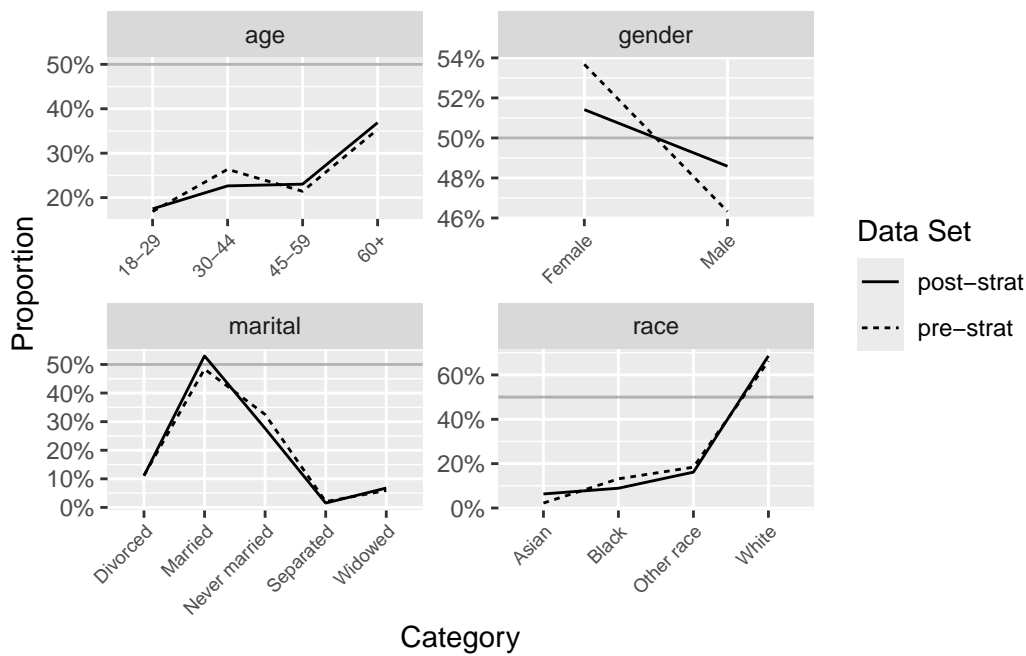


Figure 1: Voter Demographics (Age, Gender, Marital Status, Race)

\*Code and data in this analysis is available at:

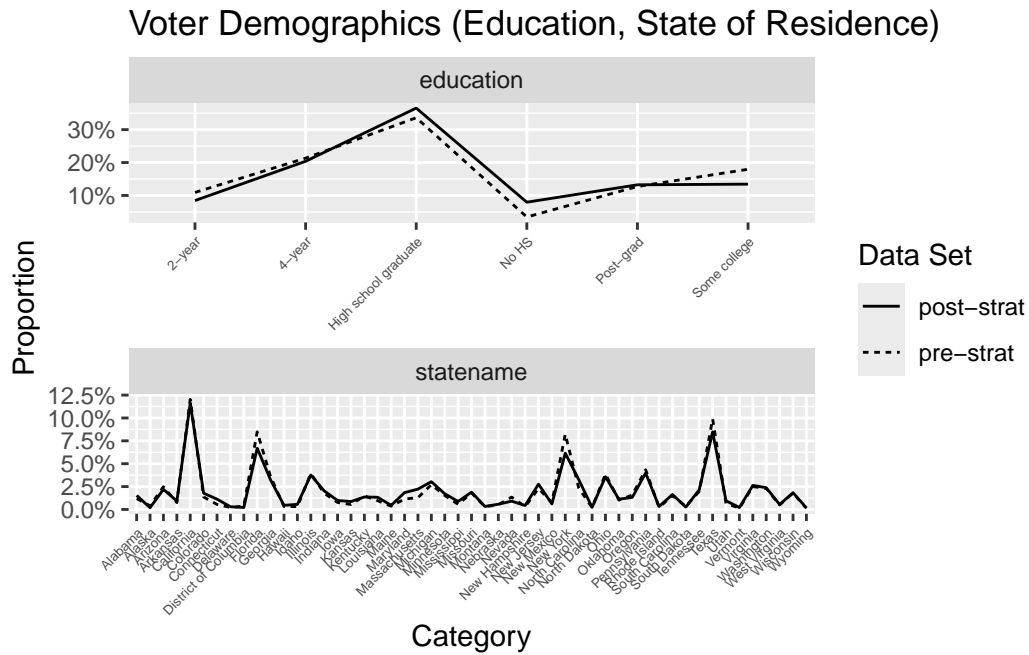


Figure 2: Voter Demographics (Education, State of Residence)

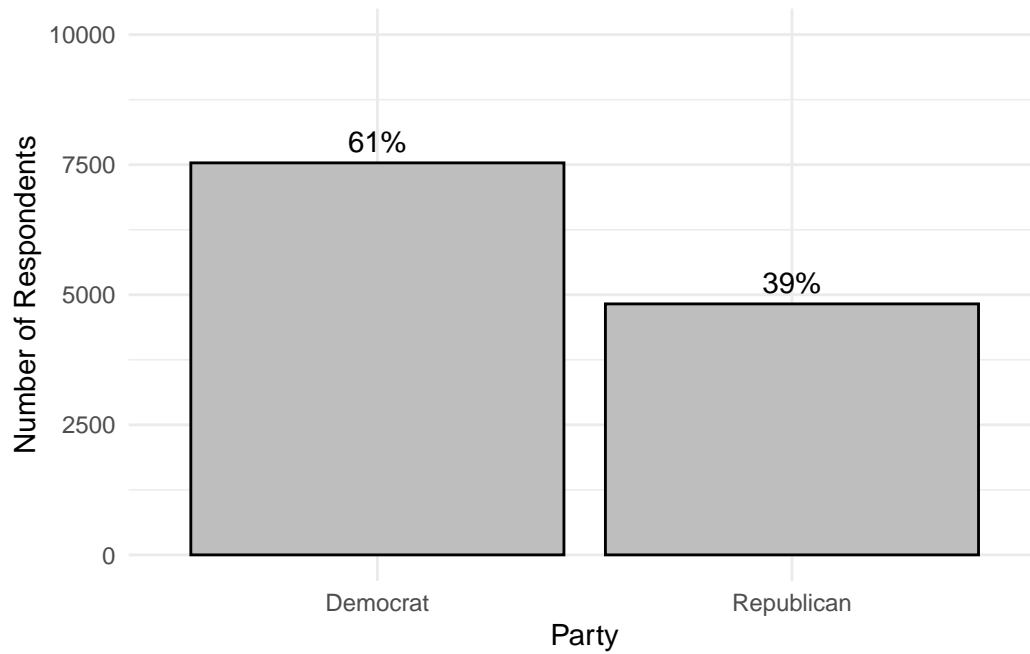


Figure 3: Proportion of the Two Parties in the Survey

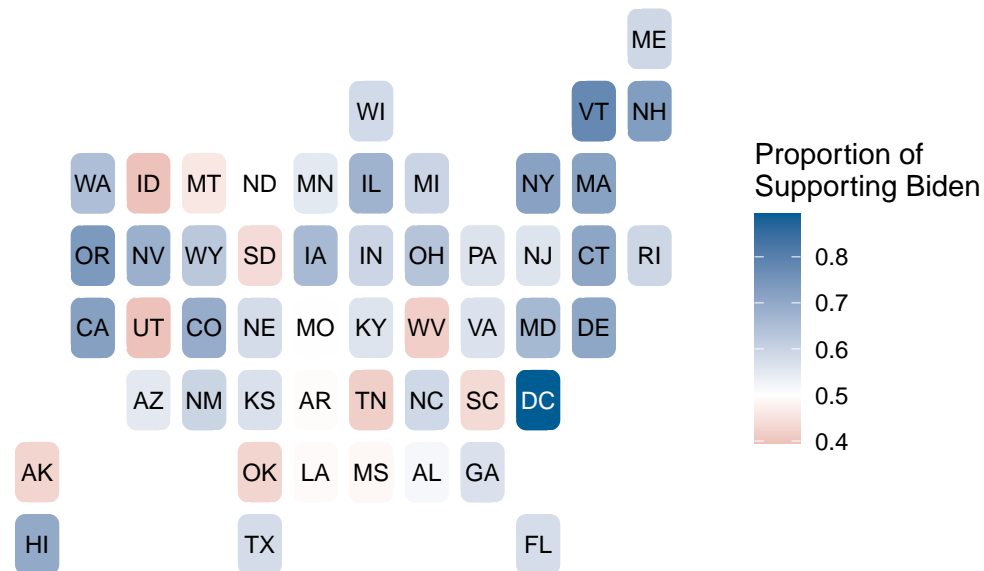


Figure 4: Support for Joe Biden and Donald Trump by State in the Sample

Table 1: Coefficients of the Voting Model

term	estimate	std.error	statistic	p.value	conf.low	conf.high
(Intercept)	0.56	0.25	2.27	0.02	0.08	1.04
raceBlack	0.71	0.16	4.45	0.00	0.39	1.01
raceOther race	-0.05	0.15	-0.34	0.73	-0.36	0.24
raceWhite	-0.44	0.15	-2.97	0.00	-0.73	-0.15
genderMale	-0.30	0.04	-7.57	0.00	-0.38	-0.22
education4-year	0.42	0.07	5.78	0.00	0.28	0.56
educationHigh school graduate	-0.10	0.07	-1.52	0.13	-0.23	0.03
educationNo HS	-0.07	0.12	-0.57	0.57	-0.30	0.17
educationPost-grad	0.84	0.08	10.04	0.00	0.67	1.00
educationSome college	0.17	0.07	2.24	0.02	0.02	0.31
statenameAlaska	-0.63	0.35	-1.81	0.07	-1.32	0.05
statenameArizona	0.30	0.21	1.42	0.16	-0.11	0.71
statenameArkansas	0.09	0.28	0.32	0.75	-0.46	0.64
statenameCalifornia	0.89	0.18	4.82	0.00	0.53	1.25
statenameColorado	0.86	0.24	3.53	0.00	0.39	1.34
statenameConnecticut	0.89	0.32	2.74	0.01	0.26	1.54
statenameDelaware	1.05	0.46	2.27	0.02	0.17	2.00
statenameDistrict of Columbia	1.72	0.51	3.38	0.00	0.81	2.84

Table 1: Coefficients of the Voting Model

term	estimate	std.error	statistic	p.value	conf.low	conf.high
statenameFlorida	0.38	0.19	2.07	0.04	0.02	0.75
statenameGeorgia	0.10	0.20	0.48	0.63	-0.30	0.49
statenameHawaii	0.66	0.40	1.66	0.10	-0.10	1.46
statenameIdaho	-0.29	0.38	-0.75	0.45	-1.05	0.46
statenameIllinois	0.73	0.20	3.64	0.00	0.34	1.12
statenameIndiana	0.57	0.22	2.56	0.01	0.14	1.01
statenameIowa	0.85	0.28	3.03	0.00	0.31	1.41
statenameKansas	0.40	0.31	1.29	0.20	-0.20	1.01
statenameKentucky	0.44	0.23	1.89	0.06	-0.02	0.90
statenameLouisiana	-0.09	0.26	-0.35	0.73	-0.60	0.42
statenameMaine	0.67	0.36	1.87	0.06	-0.03	1.39
statenameMaryland	0.66	0.25	2.61	0.01	0.17	1.17
statenameMassachusetts	1.00	0.25	3.97	0.00	0.51	1.49
statenameMichigan	0.42	0.21	2.03	0.04	0.01	0.83
statenameMinnesota	0.33	0.23	1.45	0.15	-0.12	0.79
statenameMississippi	-0.13	0.31	-0.42	0.67	-0.73	0.47
statenameMissouri	0.11	0.22	0.50	0.62	-0.33	0.55
statenameMontana	-0.14	0.39	-0.37	0.71	-0.91	0.62
statenameNebraska	0.40	0.31	1.27	0.20	-0.21	1.02
statenameNevada	0.83	0.24	3.40	0.00	0.35	1.31
statenameNew Hampshire	1.24	0.41	2.98	0.00	0.45	2.09
statenameNew Jersey	0.24	0.21	1.10	0.27	-0.18	0.65
statenameNew Mexico	0.47	0.28	1.69	0.09	-0.07	1.01
statenameNew York	0.89	0.19	4.73	0.00	0.52	1.26
statenameNorth Carolina	0.30	0.21	1.41	0.16	-0.12	0.72
statenameNorth Dakota	0.06	0.44	0.14	0.89	-0.81	0.94
statenameOhio	0.70	0.20	3.51	0.00	0.31	1.09
statenameOklahoma	-0.12	0.25	-0.47	0.64	-0.62	0.38
statenameOregon	1.17	0.24	4.87	0.00	0.70	1.65
statenamePennsylvania	0.43	0.20	2.18	0.03	0.04	0.81
statenameRhode Island	0.46	0.44	1.04	0.30	-0.40	1.34
statenameSouth Carolina	-0.30	0.23	-1.29	0.20	-0.75	0.15
statenameSouth Dakota	-0.08	0.37	-0.22	0.83	-0.81	0.64
statenameTennessee	-0.17	0.22	-0.79	0.43	-0.61	0.26
statenameTexas	0.26	0.18	1.43	0.15	-0.10	0.62
statenameUtah	-0.39	0.29	-1.33	0.18	-0.96	0.18
statenameVermont	1.38	0.61	2.27	0.02	0.27	2.71
statenameVirginia	0.23	0.21	1.11	0.27	-0.18	0.65
statenameWashington	0.71	0.22	3.29	0.00	0.29	1.13

Table 1: Coefficients of the Voting Model

term	estimate	std.error	statistic	p.value	conf.low	conf.high
statenameWest Virginia	-0.02	0.32	-0.07	0.94	-0.65	0.60
statenameWisconsin	0.55	0.22	2.48	0.01	0.12	0.99
statenameWyoming	0.51	0.55	0.92	0.36	-0.56	1.65
maritalMarried	-0.43	0.07	-6.58	0.00	-0.56	-0.30
maritalNever married	0.06	0.08	0.84	0.40	-0.08	0.21
maritalSeparated	0.01	0.15	0.08	0.93	-0.28	0.31
maritalWidowed	-0.26	0.10	-2.72	0.01	-0.46	-0.07
age30-44	-0.08	0.07	-1.25	0.21	-0.21	0.05
age45-59	-0.31	0.07	-4.40	0.00	-0.45	-0.17
age60+	-0.27	0.07	-3.86	0.00	-0.40	-0.13

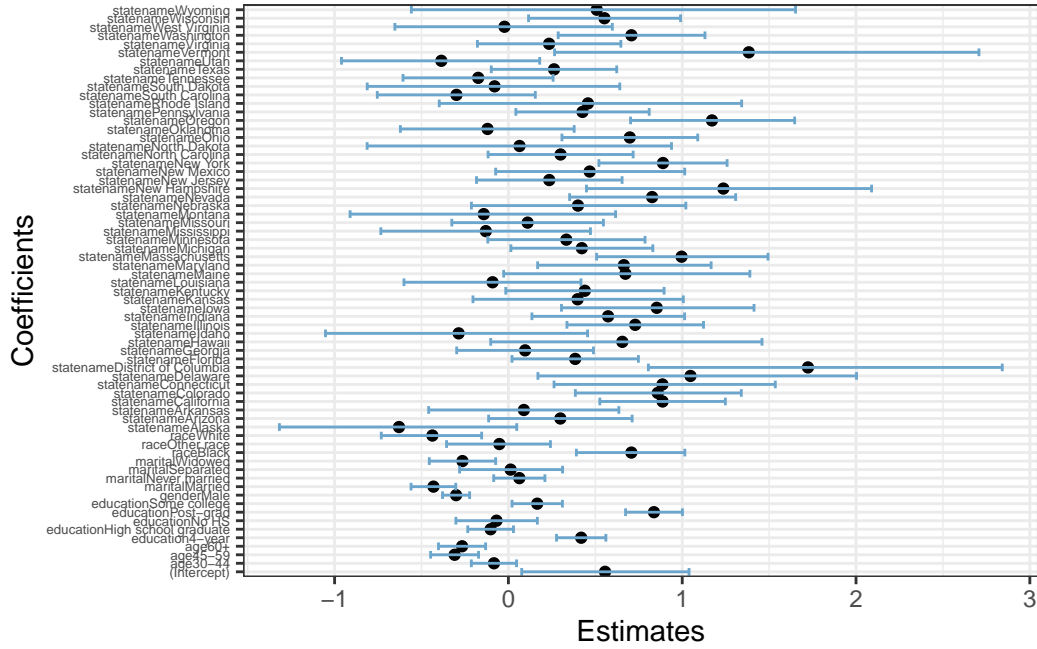


Figure 5: Estimates of Coefficients in the Model

Table 2: Votes in 2020 from the Survey Respondents

Candidates	Number of Votes	Proportion (%)
Did not vote for President	4471	22.355
Donald Trump	6020	30.100
Howie Hawkins	92	0.460
Jo Jorgensen	259	1.295

Table 2: Votes in 2020 from the Survey Respondents

Candidates	Number of Votes	Proportion (%)
Joe Biden	8942	44.710
Other	216	1.080

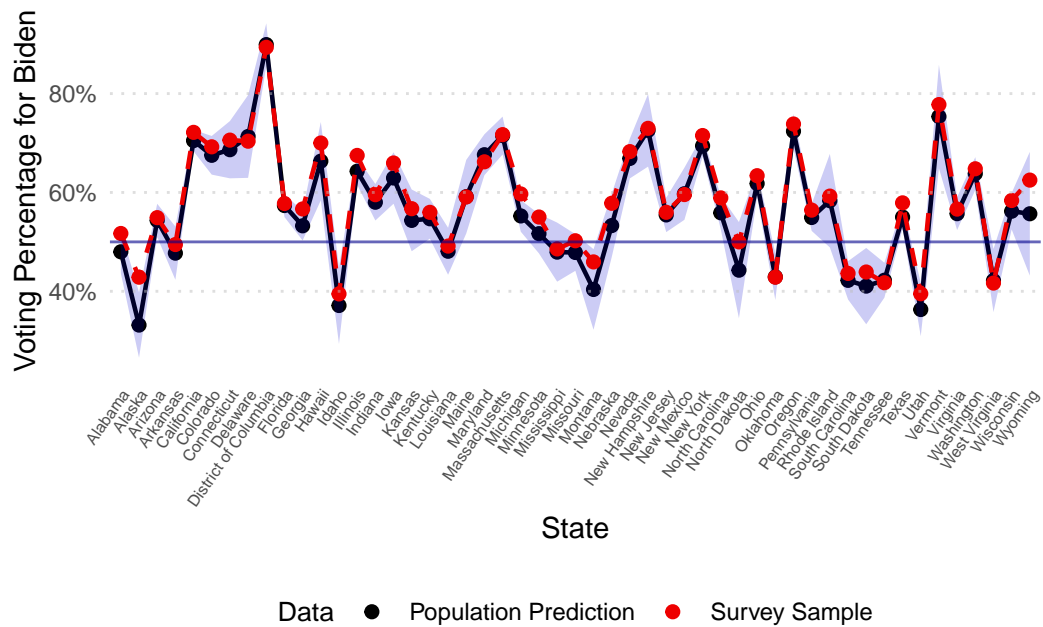


Figure 6: Proportion of Voters in Each State Voting for Biden

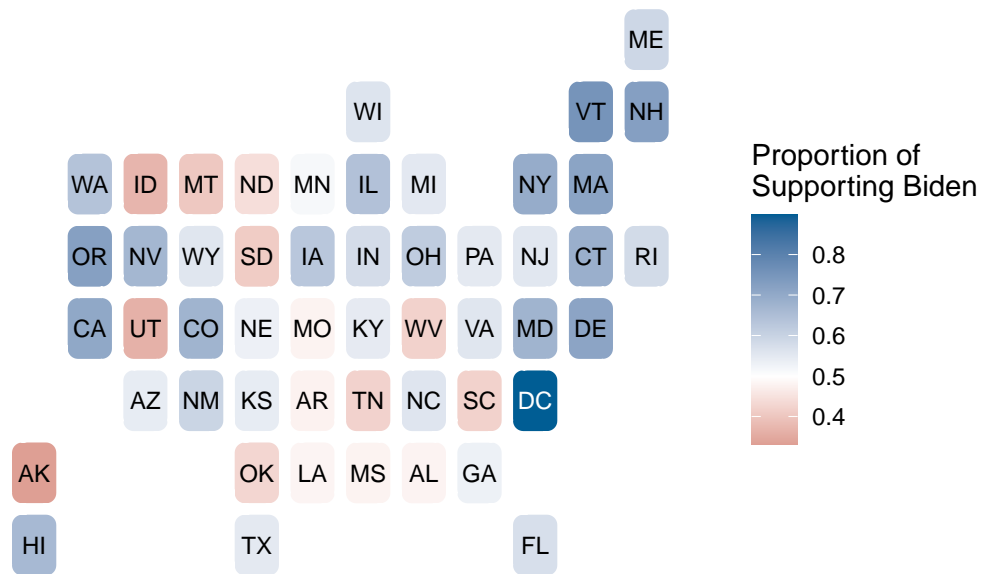


Figure 7: Predicted support for Joe Biden and Donald Trump by State

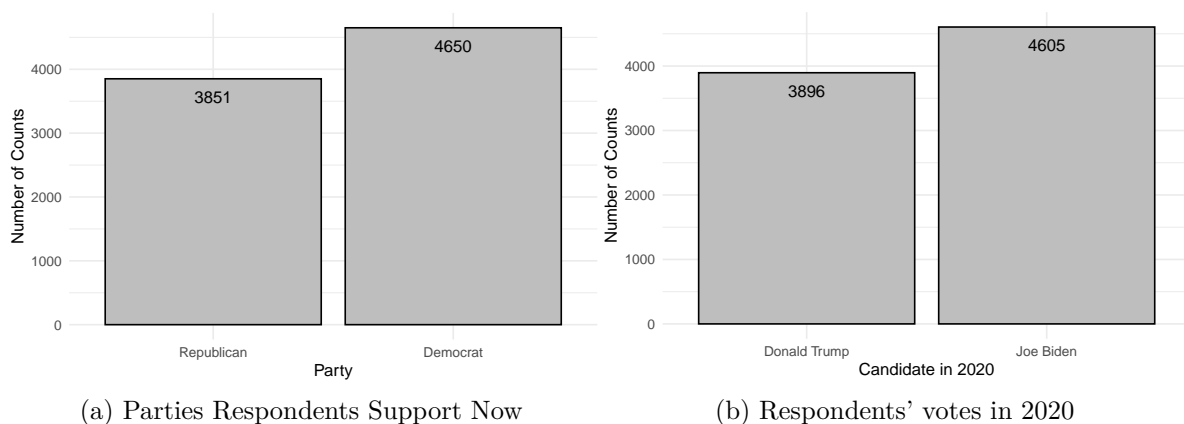


Figure 8: Distribution of Supporting Parties Now and Votes in 2020 from the Survey Respondents

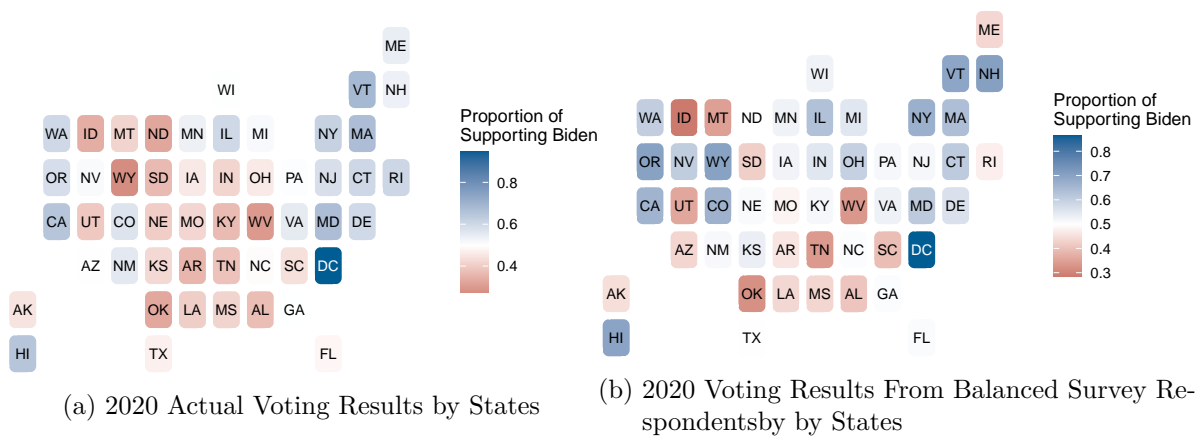


Figure 9: Distribution of prices of Paris Airbnb rentals in December 2023



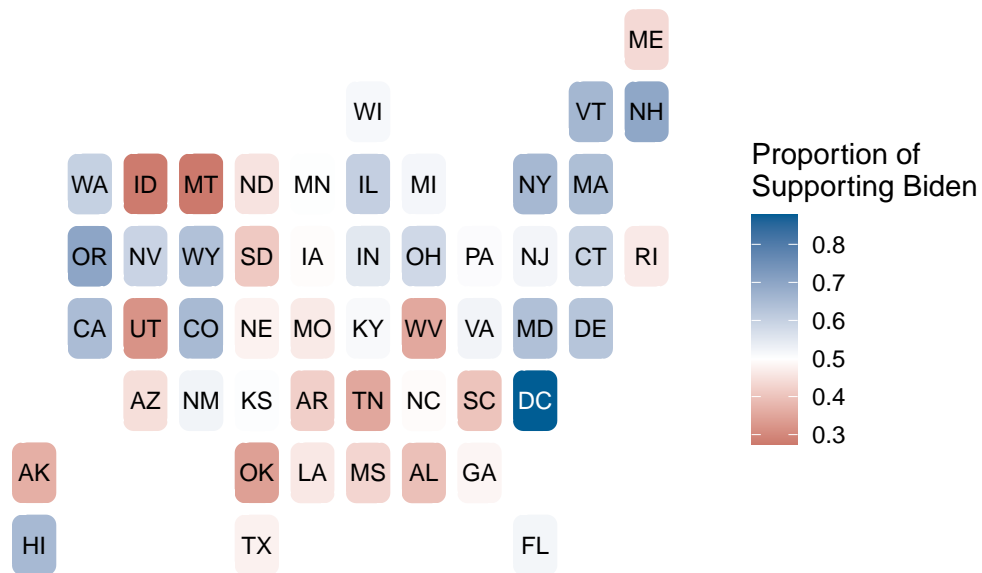


Figure 10: Predicted support for Joe Biden and Donald Trump by State (Using Balanced Survey Results)