Supplemental Materials for Candidate Choice 2020

Appendix A - Worst Performance ROC Comparison
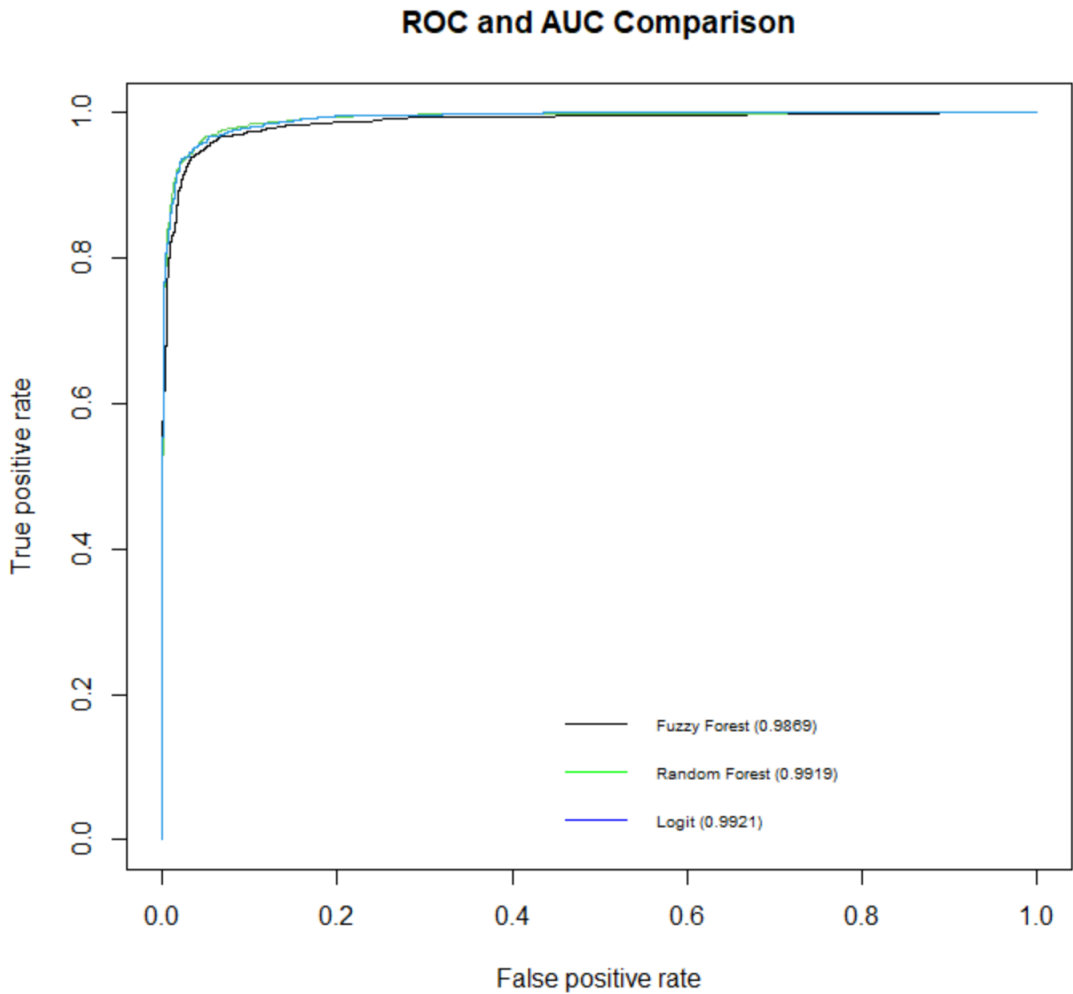
ROC and AUC Comparison

Figure 1: ROC curves and AUCs of the worst performing models from each cross validation.

Appendix B - Fuzzy Forest Hyperparameters

1. One of the most important hyperparameters for Fuzzy Forests is the *power*. A network with suspected scale-free topology is preferred for the algorithm, such that $c(z) \propto z^\theta$, where $c(z)$ is the frequency function for the connectivity and θ is non-negative real number (**?**). For networks in which this criterion holds, the power β ideally has a high R^2 between $log(c(z))$ and $log(z)$. Below is the scale-free topology plot for the data used in this study, which shows that power values of 2, 3, or 4 have a high R^2, using a cutoff of 0.85. Of these, we chose *power* = 2.
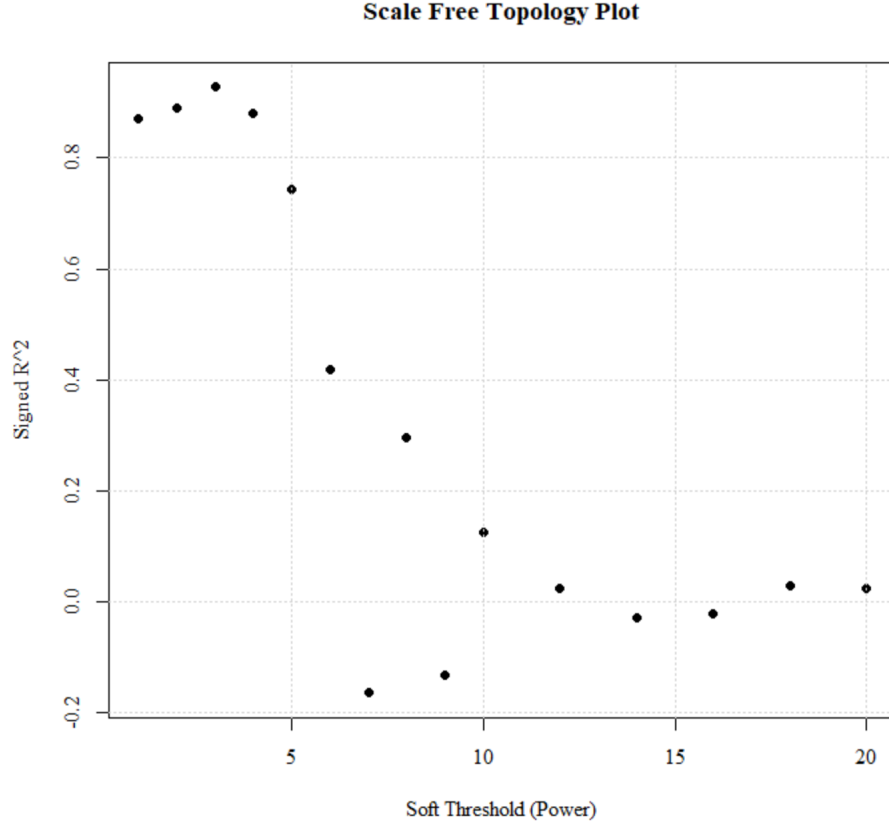
Scale Free Topology Plot

Figure 2: Analysis of the soft threshold for power needed to achieve a minimum R^2 scale free topology fit.

2. Another important hyperparameter is the minimum module size ($minModuleSize$), which determines the lowest amount of features per color. Since affirmative/negative versions of questions resulting from one-hot encoding consistently end up in the same module, we chose a minModuleSize of 5 to encourage at least two separate questions per module. This also prevents the formation of an excessive number of modules.

3. *dropfraction* is the proportion of features that are dropped during each round of RFE-RF, and the default value is 0.25. We optimized over two values: 0.25 and 0.50.

4. *keepfraction* is the proportion of features from each module that are to be kept during the screening step. The default value is 0.05, but our dataset is much smaller than biological ones, so we chose a value of 0.25.

5. The *mtryfactor* is a multiplier for mtry, which is passed into Random Forests. Since the number of features in each module is different, mtry is $(p/3) * mtryfactor$, where p is the number of features, or parameters, in the module. We used a value of 5 in screening_params, and 10 in select_params.

6. *min_ntree* is the minimum number of trees grown in each random forest; we set this to 1000.

7. *ntree_factor* is a Random Forest hyperparameter where *ntree_factor* multiplied by the number of parameters is the ntree. We use the default value of 1.

Appendix C - Full Module Membership and CES Feature List

In this Appendix we provide the full module membership and CES feature list in seven separate tables. The first column of each table provides the feature name from the CES 2020 dataset. The second column gives a longer description of the feature. The third column gives the model feature — for those features that were one-hot encoded. The fifth column provides responses to the CES question, while the sixth column gives the module that the CES feature is place into by the Fuzzy Forests model.

CES Feature	Feature Label	Model Feature	Response	Module
birthyr	Year of Birth	birthyr	numeric	green
CC20_300_1	Used social media in the past 24 hrs	CC20_300_1.1	yes	pink
		CC20_300_1.2	no	pink
CC20_300_2	Watched TV News in the past 24 hrs	CC20_300_2.1	yes	pink
		CC20_300_2.2	no	pink
CC20_300_3	Read a newspaper in print or online in the past 24 hrs	CC20_300_3.1	yes	grey
		CC20_300_3.2	no	grey
CC20_300_4	Listened to a radio news program or talk radio	CC20_300_4.1	yes	grey
		CC20_300_4.2	no	grey
CC20_300_5	none of the these	CC20_300_5.1	yes	pink
		CC20_300_5.2	no	pink
CC20_302	Over the past year, the nation's economy has gotten:	CC20_302.1	gotten much better	turquoise
		CC20_302.2	gotten somewhat better	grey
		CC20_302.3	stayed about the same	grey
		CC20_302.4	gotten somewhat worse	grey
		CC20_302.5	gotten much worse	turquoise
		CC20_302.6	not sure	grey
CC20_303	Over the past year, has your household income:	CC20_303.1	increased a lot	grey
		CC20_303.2	increased somewhat	grey
		CC20_303.3	stayed about the same	grey
		CC20_303.4	decreased somewhat	grey
		CC20_303.5	decreased a lot	yellow
CC20_305_1	Over the past year, have you gotten married?	CC20_305_1.1	yes	black
		CC20_305_1.2	no	black
CC20_305_10	Over the past year, have you visited an emergency room?	CC20_305_10.1	yes	black
		CC20_305_10.2	no	black
CC20_305_11	Over the past year, have you visited a doctor for a regular exam?	CC20_305_11.1	yes	black
		CC20_305_11.2	no	black
CC20_305_12	Over the past year, have you received a raise at work?	CC20_305_12.1	yes	green
		CC20_305_12.2	no	green
CC20_305_13	Over the past year, have you had a pay cut at work?	CC20_305_13.1	yes	purple
		CC20_305_13.2	no	purple
CC20_305_2	Over the past year, have you lost a job?	CC20_305_2.1	yes	yellow
		CC20_305_2.2	no	yellow
CC20_305_3	Over the past year, have you finished school?	CC20_305_3.1	yes	grey
		CC20_305_3.2	no	grey
CC20_305_4	Over the past year, have you retired?	CC20_305_4.1	yes	green
		CC20_305_4.2	no	green
CC20_305_5	Over the past year, have you divorced?	CC20_305_5.1	yes	grey
		CC20_305_5.2	no	grey
CC20_305_6	Over the past year, have you had a child?	CC20_305_6.1	yes	grey
		CC20_305_6.2	no	grey
CC20_305_7	Over the past year, have you taken a new job?	CC20_305_7.1	yes	yellow
		CC20_305_7.2	no	yellow
CC20_305_9	Over the past year, have you been a victim of a crime?	CC20_305_9.1	yes	grey
		CC20_305_9.2	no	grey
CC20_307	Do the police make you feel:	CC20_307.1	mostly safe	turquoise
		CC20_307.2	somewhat safe	grey
		CC20_307.3	somewhat unsafe	turquoise
		CC20_307.4	mostly unsafe	grey
CC20_309a_1	Have you been diagnosed with Covid-19 in the past year?	CC20_309a_1.1	yes	grey
		CC20_309a_1.2	no	grey
CC20_309a_2	Has a family member been diagnosed with Covid-19 in the past year?	CC20_309a_2.1	yes	red
		CC20_309a_2.2	no	red
CC20_309a_3	Has a friend been diagnosed with Covid-19 in the past year?	CC20_309a_3.1	yes	red
		CC20_309a_3.2	no	red
CC20_309a_4	Has a coworker been diagnosed with Covid-19 in the past year?	CC20_309a_4.1	yes	red
		CC20_309a_4.2	no	red
CC20_309a_5	No one you know has been diagnosed with Covid-19 in the past year:	CC20_309a_5.1	yes	red
		CC20_309a_5.2	no	red
CC20_309c_1	My work hours have been reduced because of Covid:	CC20_309c_1.1	yes	purple
		CC20_309c_1.2	no	purple
CC20_309c_10	Nothing about my work has changed due to Covid:	CC20_309c_10.1	yes	grey
		CC20_309c_10.2	no	grey
CC20_309c_2	My work hours have been reduced because of Covid, but restored:	CC20_309c_2.1	yes	grey
		CC20_309c_2.2	no	grey
CC20_309c_3	I have been temporarily laid off because of Covid:	CC20_309c_3.1	yes	yellow
		CC20_309c_3.2	no	yellow
CC20_309c_4	I was temporarily laid off due to Covid, but I've been rehired:	CC20_309c_4.1	yes	grey
		CC20_309c_4.2	no	grey

CC20_309c_5	I had more than one job before the pandemic, and I lost one of them:	CC20_309c_5.1	yes	grey
		CC20_309c_5.2	no	grey
CC20_309c_6	I lost my job due to Covid:	CC20_309c_6.1	yes	yellow
		CC20_309c_6.2	no	yellow
CC20_309c_7	I was not working when the pandemic began:	CC20_309c_7.1	yes	grey
		CC20_309c_7.2	no	grey
CC20_309c_8	My hours have increased as a result of Covid:	CC20_309c_8.1	yes	green
		CC20_309c_8.2	no	green
CC20_309c_9	I have taken additional jobs since the pandemic:	CC20_309c_9.1	yes	grey
		CC20_309c_9.2	no	grey
CC20_309e	Would you say that, in general, your health is:	CC20_309e.1	excellent	grey
		CC20_309e.2	very good	grey
		CC20_309e.3	good	grey
		CC20_309e.4	fair	grey
		CC20_309e.5	poor	grey
CC20_327a	Expansion of Medicare to a single comprehensive public health care coverage program that would cover all Americans:	CC20_327a.1	support	turquoise
		CC20_327a.2	oppose	turquoise
CC20_327b	Allow the government to negotiate with drug companies to get a lower price on prescription drugs that would apply to both Medicare and private insurance. Maximum negotiated price could not exceed 120% of the average prices in 6 other countries:	CC20_327b.1	support	grey
		CC20_327b.2	oppose	grey
CC20_327c	Lower the eligibility age for Medicare from 65 to 50:	CC20_327c.1	support	turquoise
		CC20_327c.2	oppose	turquoise
CC20_327d	Repeal the entire Affordable Care Act:	CC20_327d.1	support	turquoise
		CC20_327d.2	oppose	turquoise
CC20_327e	Restore the Affordable Care Act's mandate that all individuals be required to purchase health insurance:	CC20_327e.1	support	turquoise
		CC20_327e.2	oppose	turquoise
CC20_327f	Allow states to import prescription drugs from other countries:	CC20_327f.1	support	grey
		CC20_327f.2	oppose	grey
CC20_330a	Prohibit state and local governments from publishing the names and addresses of all gun owners:	CC20_330a.1	support	turquoise
		CC20_330a.2	oppose	turquoise
CC20_330b	Ban assault rifles:	CC20_330b.1	support	turquoise
		CC20_330b.2	oppose	turquoise
CC20_330c	Make it easier for people to obtain concealed-carry permit:	CC20_330c.1	support	turquoise
		CC20_330c.2	oppose	turquoise
CC20_332a	Always allow a woman to obtain an abortion as a matter of choice:	CC20_332a.1	support	turquoise
		CC20_332a.2	oppose	turquoise
CC20_332b	Permit abortion only in case of rape, incest or when the woman's life is in danger:	CC20_332b.1	support	turquoise
		CC20_332b.2	oppose	turquoise
CC20_332c	Prohibit all abortions after the 20th week of pregnancy:	CC20_332c.1	support	turquoise
		CC20_332c.2	oppose	turquoise
CC20_332d	Allow employers to decline coverage of abortions in insurance plans:	CC20_332d.1	support	turquoise
		CC20_332d.2	oppose	turquoise
CC20_332e	Prohibit the expenditure of funds authorized or appropriated by federal law for any abortion:	CC20_332e.1	support	turquoise
		CC20_332e.2	oppose	turquoise
CC20_332f	Make abortions illegal in all circumstances:	CC20_332f.1	support	grey
		CC20_332f.2	oppose	grey
CC20_332g	Prohibit states from requiring that abortions be performed only at hospitals (not clinics):	CC20_332g.1	support	grey
		CC20_332g.2	oppose	grey
CC20_356	How do you feel about Amy Coney Barrett as Supreme Court Justice?	CC20_356.1	support	turquoise
		CC20_356.2	oppose	turquoise
		CC20_356.3	not sure	grey
CC20_356a	Should Ruth Bader Gisberg be replaced:	CC20_356a.1	before new govt. in Jan. 2021	turquoise
		CC20_356a.2	after new govt. in Jan. 2021	turquoise
		CC20_356a.3	not sure	grey
CC20_360	With which party, if any, are you registered?	CC20_360.1	no party, Independent, declined to state	grey
		CC20_360.2	Democratic Party	turquoise
		CC20_360.3	Republican Party	turquoise
		CC20_360.4	Other	grey

CC20_361	How long have you lived at your present address?	CC20_361.1	<1 month	grey
		CC20_361.2	2-6 months	grey
		CC20_361.3	7-11 months	grey
		CC20_361.4	1-2 years	grey
		CC20_361.5	3-4 years	grey
		CC20_361.6	5+ years	grey
CC20_363	Do you intend to vote in the 2020 general election on Nov. 3?	CC20_363.1	yes, definitely	grey
		CC20_363.2	probably	grey
		CC20_363.3	already voted	grey
		CC20_363.4	plan to vote before Nov. 3	grey
		CC20_363.5	no	grey
		CC20_363.6	undecided	grey
CC20_401	Did you vote in the 2020 general election on Nov. 3?	CC20_401.4	attempted, but did/could not	grey
		CC20_401.5	definitely	grey
CC20_403	How did you vote:	CC20_403.1	in person on election day	grey
		CC20_403.2	in person before election day	grey
		CC20_403.3	voted by mail	turquoise
		CC20_403.4	don't know	grey
CC20_411_GA1	Which candidate do you prefer (Georgia runoff election for Senate)?	CC20_411_GA1.1	Jon Ossoff	grey
		CC20_411_GA1.2	David Perdue	grey
		CC20_411_GA1.7	not sure	grey
		CC20_411_GA1.97	other	grey
CC20_420_1	Deployment of US troops to ensure oil supply:	CC20_420_1.1	support	brown
		CC20_420_1.2	oppose	brown
CC20_420_2	Deployment of US troops to destroy a terrorist camp:	CC20_420_2.1	support	brown
		CC20_420_2.2	oppose	brown
CC20_420_3	Deployment of US troops to intervene in region with genocide/civil war:	CC20_420_3.1	support	brown
		CC20_420_3.2	oppose	brown
CC20_420_4	Deployment of US troops to assist the spread of democracy:	CC20_420_4.1	support	brown
		CC20_420_4.2	oppose	brown
CC20_420_5	Deployment of US troops to protect allies under attack:	CC20_420_5.1	support	brown
		CC20_420_5.2	oppose	brown
CC20_420_6	Deployment of US troops to help the UN uphold intl. law:	CC20_420_6.1	support	turquoise
		CC20_420_6.2	oppose	turquoise
CC20_420_7	Don't support troop deployment for any of the above:	CC20_420_7.1	support	brown
		CC20_420_7.2	oppose	brown
CC20_421r	Tax increase-spending cut scale, to fix deficit spending	CC20_421r	numeric	turquoise
CC20_422r	Income tax-sales tax scale if state were to increase taxes	CC20_422r	numeric	grey
CC20_430a_1	Attended local political meetings in the past year?	CC20_430a_1.1	yes	blue
		CC20_430a_1.2	no	blue
CC20_430a_2	Put up a political sign in the past year?	CC20_430a_2.1	yes	blue
		CC20_430a_2.2	no	blue
CC20_430a_3	Worked for a candidate or campaign in the past year?	CC20_430a_3.1	yes	blue
		CC20_430a_3.2	no	blue
CC20_430a_4	Attended a political protest, march, or demonstration in the past year?	CC20_430a_4.1	yes	blue
		CC20_430a_4.2	no	blue
CC20_430a_5	Contacted a public official in the past year?	CC20_430a_5.1	yes	blue
		CC20_430a_5.2	no	blue
CC20_430a_6	Donated money to a candidate, campaign, or politcal org. in the past year?	CC20_430a_6.1	yes	blue
		CC20_430a_6.2	no	blue
CC20_430a_7	Donated blood in the past year?	CC20_430a_7.1	yes	grey
		CC20_430a_7.2	no	grey
CC20_430a_8	Did not do any of the above in the past year?	CC20_430a_8.1	yes	blue
		CC20_430a_8.2	no	blue
CC20_431a	Contacted by a candidate/campaign during 2020 elections?	CC20_431a.1	yes	blue
		CC20_431a.2	no	blue
CC20_432a	Ever ran for elective office at any level of government?	CC20_432a.1	yes	grey
		CC20_432a.2	no	grey
CC20_433a	Generally speaking, do you think of yourself as a:	CC20_433a.1	Democrat	turquoise
		CC20_433a.2	Republican	turquoise
		CC20_433a.3	Independent	grey
		CC20_433a.4	other	grey
CC20_440a	White people in the U.S. have certain advantages because of the color of their skin:	CC20_440a.1	strongly agree	turquoise
		CC20_440a.2	somewhat agree	grey
		CC20_440a.3	neither agree nor disagree	grey
		CC20_440a.4	somewhat disagree	grey
		CC20_440a.5	strongly disagree	turquoise

CC20_440b	Racial problems in the U.S. are rare, isolated situations:	CC20_440b.1	strongly agree	turquoise
		CC20_440b.2	somewhat agree	turquoise
		CC20_440b.3	neither agree nor disagree	grey
		CC20_440b.4	somewhat disagree	grey
		CC20_440b.5	strongly disagree	turquoise
CC20_440c	Women seek to gain power by getting control over men:	CC20_440c.1	strongly agree	grey
		CC20_440c.2	somewhat agree	grey
		CC20_440c.3	neither agree nor disagree	grey
		CC20_440c.4	somewhat disagree	grey
		CC20_440c.5	strongly disagree	turquoise
CC20_440d	Women are too easily offended:	CC20_440d.1	strongly agree	grey
		CC20_440d.2	somewhat agree	turquoise
		CC20_440d.3	neither agree nor disagree	grey
		CC20_440d.4	somewhat disagree	grey
		CC20_440d.5	strongly disagree	turquoise
CC20_441a	Irish, Italians, Jewish and many other minorities overcame prejudice and worked their way up. Blacks should do the same without any special favors:	CC20_441a.1	strongly agree	turquoise
		CC20_441a.2	somewhat agree	grey
		CC20_441a.3	neither agree nor disagree	grey
		CC20_441a.4	somewhat disagree	turquoise
		CC20_441a.5	strongly disagree	turquoise
CC20_441b	Generations of slavery and discrimination have created conditions that make it difficult for Blacks to work their way out of the lower class:	CC20_441b.1	strongly agree	turquoise
		CC20_441b.2	somewhat agree	grey
		CC20_441b.3	neither agree nor disagree	grey
		CC20_441b.4	somewhat disagree	grey
		CC20_441b.5	strongly disagree	turquoise
CC20_442a	Assassination of Iranian General Qasem Soleimani:	CC20_442a.1	support	turquoise
		CC20_442a.2	oppose	turquoise
CC20_442b	Withdraw the United States from the Iran Nuclear Accord and reimpose sanctions on Iran:	CC20_442b.1	support	turquoise
		CC20_442b.2	oppose	turquoise
CC20_442c	Declare a national emergency to permit construction of border wall with Mexico:	CC20_442c.1	support	turquoise
		CC20_442c.2	oppose	turquoise
CC20_442d	Suspend a program that allows migrants to remain in the US while their asylum cases were being decided:	CC20_442d.1	support	turquoise
		CC20_442d.2	oppose	turquoise
CC20_442e	Withdraw troops from Kurdish-controlled region of northern Syria on the border with Turkey:	CC20_442e.1	support	turquoise
		CC20_442e.2	oppose	turquoise
CC20_443_1	State legislature spending on welfare should:	CC20_443_1.1	greatly increase	turquoise
		CC20_443_1.2	slightly increase	turquoise
		CC20_443_1.3	maintain	grey
		CC20_443_1.4	slightly decrease	grey
		CC20_443_1.5	greatly decrease	turquoise
CC20_443_2	State legislature spending on healthcare should:	CC20_443_2.1	greatly increase	turquoise
		CC20_443_2.2	slightly increase	grey
		CC20_443_2.3	maintain	turquoise
		CC20_443_2.4	slightly decrease	grey
		CC20_443_2.5	greatly decrease	grey
CC20_443_3	State legislature spending on education should:	CC20_443_3.1	greatly increase	turquoise
		CC20_443_3.2	slightly increase	grey
		CC20_443_3.3	maintain	turquoise
		CC20_443_3.4	slightly decrease	grey
		CC20_443_3.5	greatly decrease	grey
CC20_443_4	State legislature spending on law enforcement should:	CC20_443_4.1	greatly increase	turquoise
		CC20_443_4.2	slightly increase	grey
		CC20_443_4.3	maintain	grey
		CC20_443_4.4	slightly decrease	turquoise
		CC20_443_4.5	greatly decrease	turquoise
CC20_443_5	State legislature spending on transportation/infrastructure should:	CC20_443_5.1	greatly increase	grey
		CC20_443_5.2	slightly increase	grey
		CC20_443_5.3	maintain	grey
		CC20_443_5.4	slightly decrease	grey
		CC20_443_5.5	greatly decrease	grey
cit1	Are you a US citizen?	cit1.1	yes	grey
		cit1.2	no	grey

dualcit	Are you also a citizen of another country besides the US?	dualcit.1	yes	magenta
		dualcit.2	no	magenta
edloan	Are you currently responsible for paying off a student loan?	edloan.1	yes	grey
		edloan.2	no	grey
educ	What is the highest level of education you have completed?	educ.1	didn't graduate high school	grey
		educ.2	high school graduate	grey
		educ.3	some college	grey
		educ.4	2-year college degree	grey
		educ.5	4-year college degree	grey
		educ.6	postgraduate degree	grey
employ	Which best describes your current employment status?	employ.1	working full time	green
		employ.2	working part time	purple
		employ.3	temporarily laid off	grey
		employ.4	unemployed	yellow
		employ.5	retired	green
		employ.6	permanently disabled	grey
		employ.7	taking care of home/family	grey
		employ.8	student	grey
		employ.9	other	grey
*faminc_new	What was your family income over the past year?	faminc_new.1	< $20,000	grey
		faminc_new.3	$20,000 - $39,999	grey
		faminc_new.5	$40,000 - $59,999	grey
		faminc_new.7	$60,000 - $79,999	grey
		faminc_new.9	$80,000 - $119,999	grey
		faminc_new.11	$120,000 - $199,999	grey
		faminc_new.13	$200,000 - $349,999	grey
		faminc_new.15	$350,000+	grey
		faminc_new.97	prefer not to say	grey
gender	What is your gender?	gender.1	male	grey
		gender.2	female	grey
gunown	Do you or does anyone in your household own a gun?	gunown.1	personally own a gun	grey
		gunown.2	not personally but someone in household	grey
		gunown.3	no one in the household	turquoise
		gunown.8	not sure	grey
ideo5	How would you describe your political viewpoint?	ideo5.1	very liberal	turquoise
		ideo5.2	liberal	turquoise
		ideo5.3	moderate	grey
		ideo5.4	conservative	turquoise
		ideo5.5	very conservative	turquoise
		ideo5.6	not sure	grey
immstat	Which best describes you:	immstat.1	immigrant and naturalized citizen	magenta
		immstat.2	immigrant and noncitizen	grey
		immstat.3	born in the US but parent is immigrant	grey
		immstat.4	parents and I were born in the US but grandparent was an immigrant	grey
		immstat.5	parents, grandparents, and I were born in the US	magenta
inputstate	What is your state of residence?	inputstate.1	Alabama	grey
		inputstate.2	Alaska	grey
		inputstate.4	Arizona	grey
		inputstate.5	Arkansas	grey
		inputstate.6	California	grey
		inputstate.8	Colorado	grey
		inputstate.9	Connecticut	grey
		inputstate.10	Delaware	grey
		inputstate.11	District of Columbia	grey
		inputstate.12	Florida	grey
		inputstate.13	Georgia	grey
		inputstate.15	Hawaii	grey
		inputstate.16	Idaho	grey
		inputstate.17	Illinois	grey
		inputstate.18	Indiana	grey
		inputstate.19	Iowa	grey
		inputstate.20	Kansas	grey
		inputstate.21	Kentucky	grey
		inputstate.22	Louisiana	grey
		inputstate.23	Maine	grey
		inputstate.24	Maryland	grey
		inputstate.25	Massachusetts	grey

		inputstate.26	Michigan	grey
		inputstate.27	Minnesota	grey
		inputstate.28	Mississippi	grey
		inputstate.29	Missouri	grey
		inputstate.30	Montana	grey
		inputstate.31	Nebraska	grey
		inputstate.32	Nevada	grey
		inputstate.33	New Hampshire	grey
		inputstate.34	New Jersey	grey
		inputstate.35	New Mexico	grey
		inputstate.36	New York	grey
		inputstate.37	North Carolina	grey
		inputstate.38	North Dakota	grey
		inputstate.39	Ohio	grey
		inputstate.40	Oklahoma	grey
		inputstate.41	Oregon	grey
		inputstate.42	Pennsylvania	grey
		inputstate.44	Rhode Island	grey
		inputstate.45	South Carolina	grey
		inputstate.46	South Dakota	grey
		inputstate.47	Tennessee	grey
		inputstate.48	Texas	grey
		inputstate.49	Utah	grey
		inputstate.50	Vermont	grey
		inputstate.51	Virginia	grey
		inputstate.53	Washington	grey
		inputstate.54	West Virginia	grey
		inputstate.55	Wisconsin	grey
		inputstate.56	Wyoming	grey
internethome	What best describes your Internet access at home:	internethome.1	cable, DSL, other broadband	grey
		internethome.2	dial-up	grey
		internethome.3	none	grey
investor	Do you have any money invested in the stock market right now?	investor.1	yes	blue
		investor.2	no	blue
marstat	What is your marital status?	marstat.1	married	grey
		marstat.2	separated	grey
		marstat.3	divorced	grey
		marstat.4	widowed	grey
		marstat.5	never married	grey
		marstat.6	domestic/civil partnership	grey
newsint	Would you say you follow what's going on in govt. and public affairs:	newsint.1	most of the time	blue
		newsint.2	some of the time	grey
		newsint.3	only now and then	grey
		newsint.4	hardly at all	grey
		newsint.7	don't know	grey
numchildren	How many children do you have?	numchildren.0	none	grey
		numchildren.1	1	grey
		numchildren.2	2	grey
		numchildren.3	3	grey
		numchildren.4	4	grey
		numchildren.5	5	grey
		numchildren.6	6	grey
		numchildren.7	7	grey
		numchildren.8	8	grey
		numchildren.9	9	grey
		numchildren.10	10	grey
		numchildren.11	11	grey
		numchildren.12	12	grey
		numchildren.13	13	grey
		numchildren.14	14	grey
		numchildren.15	15	grey
		numchildren.16	16	grey
		numchildren.22	22	grey
		numchildren.25	25	grey
ownhome	Do you own your home or pay rent?	ownhome.1	own	grey
		ownhome.2	rent	grey
		ownhome.3	other	grey

pew_churatd	How often do you attend religious services (not weddings/funerals)	pew_churatd.1	more than once a week	grey
		pew_churatd.2	once a week	grey
		pew_churatd.3	once or twice a month	grey
		pew_churatd.4	a few times a year	grey
		pew_churatd.5	seldon	grey
		pew_churatd.6	never	turquoise
		pew_churatd.7	don't know	grey
pew_religimp	How important is religion in your life?	pew_religimp.1	very important	turquoise
		pew_religimp.2	somewhat important	grey
		pew_religimp.3	not too important	grey
		pew_religimp.4	not at all important	turquoise
presvote16post	Who did you vote for in the 2016 presidential elections?	presvote16post.1	Hillary Clinton	turquoise
		presvote16post.2	Donald Trump	turquoise
		presvote16post.3	Gary Johnson	grey
		presvote16post.4	Jill Stein	grey
		presvote16post.5	Evan McMullin	grey
		presvote16post.6	other	grey
		presvote16post.7	did not vote for president	grey
race	What racial or ethnic group best describes you?	race.1	White	grey
		race.2	Black or African-American	grey
		race.3	Hispanic or Latino	grey
		race.4	Asian or Asian-American	magenta
		race.5	Native American	grey
		race.6	two or more races	grey
		race.7	other	grey
		race.8	Middle Eastern	grey
**religpew	What is your present religion, if any?	religpew.1	Protestant	grey
		religpew.2	Roman Catholic	grey
		religpew.3	Mormon	grey
		religpew.5	Jewish	grey
		religpew.9	Atheist	grey
		religpew.10	Agnostic	grey
		religpew.11	nothing in particular	grey
		religpew.12	something else	grey
		religpew.97	Eastern/Greek Orthodox, Hindu, Buddhist, Muslim	grey
same_day	Does your state allow same-day voter registration?	same_day.0	yes	grey
		same_day.1	no	grey
sexuality	Which of the following best describes your sexuality?	sexuality.1	heterosexual/straight	grey
		sexuality.2	lesbian/gay woman	grey
		sexuality.3	gay man	grey
		sexuality.4	bisexual	grey
		sexuality.5	other	grey
		sexuality.6	prefer not to say	grey
union	Are you a member of a labor union?	union.1	yes	grey
		union.2	formerly	grey
		union.3	not now nor in the past	grey
urbancity	How would you describe the place where you live?	urbancity.1	city	grey
		urbancity.2	suburb	grey
		urbancity.3	town	grey
		urbancity.4	rural area	grey
		urbancity.5	none	grey