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Emotional Attachment to Germany and its Effect on the Support for Redistribution in Germany

(A Replication of Johnston et al. Study "National Identity and Support for the Welfare State)

DESCRIPTION OF STUDY AND CONSIDERATION ON ADAPTION

Description of Richard Johnston's, Keith Banting's, Will Kymlicka's and Stuart Soroka's study: "National Identity and Support for the Welfare State"

In this paper I will try to replicate Johnston et al. (2010) study on nationality and the welfare

state. In detail Johnston's study is focused on how national identity influences the support for a welfare state system. In the 2010 study Johnston and his colleagues researched this effect at the national level in Canada using data stemming from fieldwork conducted between 2002 and 2003 by the second wave of the Equality, Security and Community survey (Johnston et al. 2010: 357). Their driving motivation for the study was the growing in equality in the world while at the same time the welfare state got weaker. Their goal for the study is to test if a shared national identity is beneficial for positive attitudes towards the welfare state (Johnston et al. 2010: 349). The existing research, as states by Johnston and his colleagues, between which the study is situated, tries to explain the welfare state using economic interests and the implications of ethnic diversity. They draw heavily on works by David Miller who argued that people with different economic situations will have different attitudes towards the welfare state as the welfare state usually redistributes the resources vertically and that a national identity could help in sustaining the welfare state despite this well tested mechanism (Johnston et al. 2010: 351-353). Miller, as presented by Johnston et al., argues that sympathy and trust towards other conationals especially facilitates this effect and helps to sustain the national identity (Johnston et al. 2010: 352). If a strong sense of nationhood exists within a country then economic discrepancies should matter less, because the people within the nation should feel a stronger obligation towards one another. This is especially true if there is interpersonal trust between the people as well as when the people trust in the government. However, nationhood can also be an excluding force, and this can lead to the national identity facilitating anti-immigration tendencies within the nation (Johnston et al. 2010: 354). Johnston and his colleagues therefore conduct a regression analysis in which they test if the support for the welfare state is higher the higher the national identity is. Then they introduce economic factors, as these are well researched causes for lower support of the welfare state, and then control the regression using indicators for trust and anti-immigration tendencies (Johnston et al. 2010: Table 1).

Thoughts and challenges for the adaption to Germany

Germany is quite different from Canada. We do have a comparatively strong welfare state for example universal healthcare; however, it is split into essentially two classes, unconditional unemployment support and basically free education. National identity is relatively low in Germany. The past made it for some people difficult to express their national support as right wing extremism is still a problem and persons often do not want to be associated with them. As well as the divide between east and west Germany.

East and West Germany even after over 30 years of being united still have vast structural differences and a mutual feeling is not a given. Infrastructure as well as wages are better in West Germany. The GDP per capita is also higher and the unemployment rate is lower than in East Germany. This could lead to a less extensive national identity between the two parts and further local identities as East Germany could feel disadvantaged and sour towards the West. For example, local identities sometimes supersede the national identity as in the case of Bavaria who still have their own version of the CDU. This divide is not captured in the dataset I will be working with but has to be considered.

The national identity in Germany could also be held back by the efforts of the EU to create a EU transnational identity. This double attempt could lead to Germans feeling more pulled towards the EU than Germany. The double layered problematic only gets more complicated if we look at one of the concepts mentioned by Johnston et al. to further national identity: Trust.

In particular the trust in one's government, interpersonal trust won't be affected by this. Because Germany is under EU jurisdiction the individual must put trust into 2 governments to fully feel comfortable with them instead of one in Canada. Local governments can be excluded from this equation as they are also present in Germany.

Germany has more than double the citizens and has therefore directly a higher challenge of sustaining a national identity. Furthermore, about 20 million people in Germany either are immigrants or the children of immigrants. This equates to about 12% of German citizens being immigrants and including their children to about 25% of the population (Tatsachen über Deutschland 2021). This is a lower figure of people born outside the country than the 20% of Canada (Johnston et al. 2010: 356) and historically speaking was Germany not a destination of immigration and the national identity was not constructed around a heterogeneous set of people. These two factors could severely dampen the positive attitudes towards immigration.

Immigration is an interesting topic compared to Canada, as Canada was built by immigrants and a national identity of diversity reflects that. Germany was not built by immigrants. Germans have a different view on different types of immigration. Immigration from Non-EU countries is less accepted as immigration from EU member countries. The EU has tried to construct a EU-Identity and people in Germany feel more and more like EU-citizens. Which would also make EU immigration less of a dividing factor and rather provide a different type of social glue. Furthermore, Germans have more in common with e.g., the French in contrast to someone who enters the country from the middle east.

Germans in 2018 (year of the ESS9) felt mistreated or overwhelmed by the immigration crisis starting in 2015 and still not being resolved in 2018. This could trigger more extreme anti-immigration sentiments than would have been found before the crisis, especially against

immigrants from outside the EU who come from middle eastern countries. These sentiments will be present in the dataset.

Research Agenda

The goal of this study is to test the hypothesis of Johnston and his colleagues for a different country. As they stated: "If national identity and the welfare state are mutually supportive in Canada [...], the obvious question is wether this experience is distinctive or whether similar patterns should emerge elswhere." (Johnston et al. 2010: 368). My aim it to go after this call for action. I will follow their steps as closely as possible. Some obvious limitations in terms of data are present as will be discussed in detail further below. My dataset does not include suitable variables for the healthcare and pensions argument advanced in their study. I will instead focus on the redistribution aspect of their study. An interesting difference between Canada and Germany which will influence the study is the fact that Germany is a member of the EU. Therefore, my paper will differentiate between trust in local government and EU government as well as immigration from within the EU and outside of the EU. The biggest differentiating factor will be my dependent variable as mine does not capture

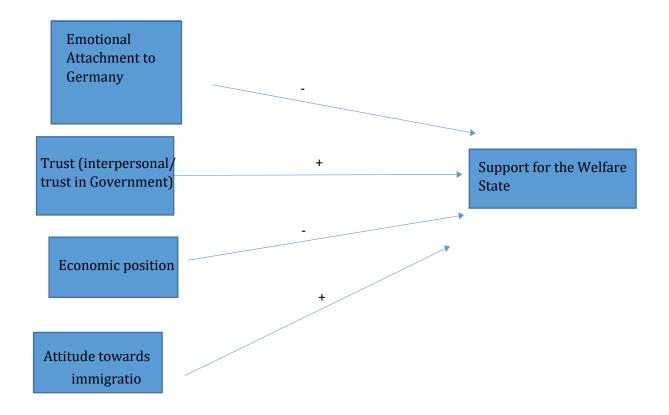
national identity and therefore my research question will be:

Does emotional attachment to Germany undermine support for redistribution?

H0: Emotional attachment to Germany does not undermine support for redistribution.

H1: Emotional attachment to Germany does undermine support for redistribution.

Causal links



DATA AND METHOD

Description of dataset

For this replication and adoption, I will be using the 9th Round of the European Social Survey which was conducted in 2018. In detail I will be using the Version 3.1 of the dataset as well as the codebook linked to this version. The dataset was released on the 17 of February 2021 and the codebook 2 days later. I do not use the full dataset with every country in which the survey was conducted, instead I will be using the subset for Germany as I will solely focus on Germany in this replication. In the German subset of the ESS9 are in total 2358 observations across 572 variables. Many of those are not usable as they correspond to other Countries and are filled in with NA in the German subset. After cleaning and managing the data I am left with 1967 total observations. The method I used for cleaning the data was listwise deletion. I only dropped 391

observations (about 16.58% of the original observations) which does not call for measures like data interpolation like Johnston and his colleagues used to fill their income variable.

Description and evaluation of variables used/omitted

The summary table (Table 1) has across all the different variables the same number of observations because I used list wise deletion for data cleaning and the summary table is based on the listwise deleted data.

Table 1

Variable	Variable label	Obs	Mean	SD	Min	Max
gincdif_reversed	Support for redistribution	1967	3.850	0.994	1	5
atchctr_m	Emotional Attachment to Germany	1967	7.515	2.167	0	10
inter_trust	Interpersonal Trust	1967	5.713	1.649	0	10
gov_trust	Trust in Government	1967	4.546	2.182	0	10
trust_EU_gov	Trust in EU Government	1967	4.575	2.377	0	10
hinctnta_m	Total Household Income	1967	6.123	2.804	1	10
AGE	Age	1967	50.010	18.387	15	90
female	Female	1967	0.470	0.499	0	1
trade_dummy	Member of Trade Union	1967	0.129	0.335	0	1
unemployed_dummy	Work Status: Unemployed	1967	0.034	0.180	0	1
work_status_other	Worl Status: Other	1967	0,400	0.490	0	1
imuecit_m	Immigrants enrich Culture	1967	6.015	2.509	0	10
allow_immigrants	Anti-Immigration	1967	1.866	0.643	1	4
allow_immigrants_out_EU	Anti-Immigration, Non European	1967	2.161	0.807	1	4
education_dummy	Completed Secondary Education	1967	0.311	0.463	0	1

Dependent variable.

The effect to measure is the attitudes towards redistribution and how different effects influence this attitude, namely national identity. In the ESS9 there is only one suitable variable for the question of redistribution: gincdif. The question posed to the individual reads: "Government should reduce differences in income levels." The variable used is not an index derived from a set of questions as Johnston et. al. was able to generate but still the best fit within the dataset and the question clearly reflects one key aspect of redistribution. Furthermore, the variable

corresponds to the 6th question used by Johnston et al. to generate their index. Even though they only provided as answers "Agree" or "Disagree", but more precision on the variable that I will be using is not an issue. The one dividing factor is that the wording of their question asks whether the government "must do MORE". This is clearly a difference from the question of the ESS9 which only asks if the respondent thinks that the government should do anything at all about income differences. Both the wording of the question to generate my variable and Johnston et. al.'s is neutral.

The variable I use is scaled from 1 to 5, one being "Agree Strongly" and 5 "Disagree strongly" with 3 setting the neutral. The direction of the variable is counterintuitive for the analysis. If the direction stays like this a negative coefficient would be a positive relations ship towards redistribution. I reversed the variable for ease of interpretation later and in the summary table (Table 1) the reversed gincdif is displayed.

The mean of 3.85 indicates that on average the people are more of the opinion that the government should reduce the differences in income in Germany as 3 is the neutral point and 3+ the positive one. Even when considering the standard deviation of 0.994 the lower bound is only just below 3.0 and reassures that most of the people are positive towards redistribution organized by the government. The variable is of ordinal level and will be treated as a quasicontinuous variable as the point increase does represent a measurable increase in positive attitude towards redistribution.

Identity.

The concept used by Johnston et al. to explain the support for redistribution is national identity. Again, they derive a summary indicator based on multiple questions. I am not able to mimic this as the ESS9 only provides one suitable variable for the task. Furthermore, the variable that

I will be using does not directly ask the respondent about his national identity but asks how emotionally attached he/she/them are to Germany. This is different from Johnston et al.'s index but emotional attachment as well as national identity are both a form of link to the country the respondent is living in. Therefore, the effects of mentioned concepts should be similar and comparable. No normative claim about what it means to be emotionally attached to Germany is made in the wording of the posed question like the questions used by Johnston et al.

The variable (atchctr) is scaled from 0 to 10 with 10 being the most emotionally attached and 0 the least. Level of measurement is ordinal but as the dependent variable will be treated as a quasi-continuous variable. The mean of 7.515 tells us that on average the German respondent is quite emotionally attached to Germany (the average respondent is also 50 years old which could influence the result). Standard deviation is not too special and about the same as the dependent variable.

Trust indicators.

Johnston et al. use to different indexes for trust. First the interpersonal trust index and second the trust in government. The variables used to generate the indexes I am using are different in wording but represent the same concepts. One key difference is that I will be differentiating between trust in the national government and the trust in the EU government because Germany is within the jurisdiction of the EU and therefore this must be considered.

The questions used by Johnston et al. to create the trust index are different than mine. However, the same concept of trust is captured within the ones as I am using as well as the ones used by them. The variables used by me to create the interpersonal trust index (ppltrst, pplfair, pplhlp) all do represent a slightly different aspect of the concept of trust. The question about trust is directly asked plus whether the respondent thinks that most people try to be fair/most people try to be helpful. Every one of these variables is scaled 0 to 10 (10 being the fairest etc.), have the same direction, similar wording and are quasi-continuous variables (ordinal scaled) and

therefore are suitable to put into one index without any adjustments. The derived index inter_trust has a mean of over 5 meaning that on average the Germans do trust each other more than they distrust each other, even though the effect is marginal with 0.7 over neutral (5).

Johnston et al. use a "thermometer" or feeling of warmth towards the government and a question that asks whether the government does what is "right". None of these criteria can be filled by the variables I will be using, but mine do not carry any subjective connotations like "right" and directly ask whether the respondent has trust in the parliament, politicians, or EU-parliament. Furthermore, the sub concept of how the person relates to the government is still the same.

The variables capturing trust in the national parliament and politicians will be put into one index (gov_trust). Both these are scaled 0 to 10, have the same direction (10 being the most trust), and are quasi continuous variables. Trust in the EU Parliament will be left in a separate variable but has the same properties as the two other variables. Both of the items have a mean slightly below the neutral point (5) which means Germans distrust the governments under which they live slightly.

Economic position indicators.

I can only partially satisfy the "workhorse model" employed by Johnston et al. and will be dropping "Likelihood of Job loss" and "Economic Evaluations (worse)" because in the ESS9 no suitable or similar in concept variable exists. Every other variable will be kept; however, I do not use dummy variables for the respondents age group as a measure of age. Instead, I use age as a pure number because the interpretation is easier.

Household income is not measured by a number instead deciles are used in the ESS9. The variable is scaled from 1 to 10 and the level of measurement is interval. 1 corresponds to the first decile (lowest earning households) and 10 to the 10th decile (highest earning households). Each number therefore represents 10% of respondents. A measure of household income does

not significantly differ from individual income, used by Johnston et al., because individuals living in a wealth household and having low income themselves, e.g. spouse has a high income, will still have similar attitudes to other high income earners but respond with a low value on individual income.

Whether the respondent is part of a labor union, unemployed, not part of the workforce (home makers, students, disabled, retired) or female are all represented by dummy variables and are an exact replication of the variables deployed by Johnston et al. Education is mentioned in the appendix of the study by Johnston and his colleagues but not included in the regression table. I will include education as a dummy variable which captures whether the respondent has completed at least secondary education (Abitur) or not. This is inline with the text in the appendix. There are no anomalies in the mean or standard deviation of these dummy variables except for the mean on household income being 6.123 which indicates that this subsample has slightly more people who belong to the upper 50% of households. Age is scaled from 15 to 90 (min/max of the sample) and is ratio scaled in my analysis as opposed to dummy variables for the reasons noted above. (One thing to note is that my "unemployment_dummy" and "work_status_other" are derived from variables which only ask the respondent about the last 7 days as opposed to the typical 12 months questions in Johnston et al.'s dataset.)

The major difference between my model and Johnston and colleagues is that I do not derive a summary indicator for the "workhorse model" and rather put the variables directly into the full and partial models. I do this as I want to investigate the relation between each item and attitudes towards redistribution in detail.

Immigration indicators.

Johnston and his colleagues use anti-immigration sentiments to control the identity/economic position model. As they also do with trust. They use two indicators for their analysis. First an item which captures whether people think "recent immigrants" want to "fit in" and whether the

country is accepting to many or too few immigrants. Johnston and colleagues admit that "recent" might have a racial subtext. Both concepts can't be identically fulfilled by the data I am using. For the "fit in" question I use a variable (imueclt) which asks the respondent if "County's cultural life undermined or enriched by immigrants.". The wording of the variable makes it in essence similar because "undermining" could also be seen as not participating in the cultural life and therefore not trying to "fit in". The variable is scaled 0 to 10 and will be treated as a quasi-continuous variable throughout the analysis.

The two variables (imsmetn, imdfetn) used to create an index about the respondent opinion whether Germany allows too many or too few immigrants from the same or different group as the majority are both scaled 1 to 4 and do not have a neutral point. The wording is identical and an index can be created without any hurdles.

One deviation form the study of Johnston et al. has to be made here. In the ESS9 one variable (impontr) is provided which represents the attitudes towards immigrants from poorer countries outside Europe. This variable is relevant to include because since the refugee crisis staring in 2015 the non-European immigration is seen differently by many citizens of the EU and this question directly aims at this problem. The variable is coded the same way as the other two anti-immigration variables and has the same direction.

In general Germans think immigration enriches the cultural life because the mean of imueclt_m is above 5 (the neutral point of the variable). As expected Germans are not opposed to immigration as a whole, seen by the 1.866 average on anti-immigration, however they are slightly opposed to immigration from poorer countries outside Europe, as represented by the 2.161 average on non-European anti-immigration.

Method used

The analysis was conducted in R (R Core Team 2021, Version 4.1.0) and different packages listed in the bibliography below. For data cleaning, as stated above, I have used listwise deletion. Not many observations were dropped, and it is not necessary to resort to data interpolation like Johnston and his colleagues used on their income variable.

For the analysis I will use an OLS-Regression. The dependent variable does not need a logistic regression and the variables used all conform to the standard needed to use an OLS-Regression. At first, I will do a bivariate regression focusing on the emotional attachment to Germany and how only this variable affects redistribution. Afterwards I am going to emulate the exact same regression as used by Johnston and his colleagues in their study. I will, contrary to the original study, include a full model with all independent and control variables included, as this should give the most accurate results and is an attempt to explain as much of the variation of the dependent variable as possible.

ANALYSIS

To note before reading the analysis is that because the dependent variable is only scaled from 1 to 5 means that even small values such as these in the regression table below represent quite telling jumps in the support for redistribution. This must be kept in mind while reading the analysis of the regression output.

The bivariate model tells us that there is a significant correlation between the emotional attachment and the idea that the government should reduce income differences (redistribution) as the p-value is under 0.01. On average for each point gained on the emotional attachment variable the respondent scores 0.031 lower on the redistribution variable. The intercept (y-axis point) tells us that if the respondent has no emotional attachment to Germany the respondent scores 4.082 on redistribution variable. Emotional attachment to Germany has a persistent

negative effect per point gained across all models and the effect keeps its statistical significance throughout the models. In the full model the effect is reduced to -0.029.

When the economic indicators are introduced to the regression the significance of the emotional attachment persists and essentially stays the same. Household income has a similar negative effect meaning for each higher decile the respondent scores 0.033 (or 0.034 in the trust model) points lower on the dependent variable. This effect is expected and significant in all models.

For each year of age the respondent gains they are more supportive of redistribution. Each year does not increase the attitude by a lot but when considered that the average age of the respondents is 50 the effect suddenly pushed the dependent variable 0.1 points towards more support for redistribution in the strictly economic position model or even 0.15 points all the other models. In the full model and the model which controls for anti-immigration tendencies the effect gains statistical significance.

If the respondent is female they are more likely to support redistribution. In every model the female variable has statistical significance and increases the support between 0.130 (in the full model) to 0.159 (economic indicator model). About the same can be said for the trade union variable. Between 0.161 and 0.155 point will be gained on average if the respondent is part of a trade union. The employment status as well as whether the respondent is not part of the workforce do not gain any statistical significance in any of the models in table 2. Whether the respondent has completed secondary education has a significant effect on the model, with the exception being the economic model controlled by trust (model 3). On average the respondent is between 0.1 and 0.124 less supportive of redistribution if they have completed secondary education. This is not unlikely as higher education usually means higher pay.

In the model which controls for trust every trust indicator has statistical significance, however interpersonal trust loses its significance in the full model. The other two indicators retain their significance levels. It is very interesting that the interpersonal trust losses all its significance in

the full model. The trust in the national government reduces the support for redistribution between 0.046 points and 0.051 for every point gained on the the 0 to 10 index. Interestingly has the trust in the EU-parliament the reversed effect. For every point more trust in the EU parliament the respondent gains on average 0.038 or 0.033 points. Therefore, people who are more supportive of the EU are in fact also more supportive of redistribution as opposed to people who trust their national government in Germany.

If the respondent is of the opinion that immigrants enrich the cultural life in Germany, they are more supportive of redistribution. Interestingly at the same time people who think Germany should allow less immigrants into Germany are also more likely to support redistribution. Both effects are significant. As expected, the effect is different if the question concerns immigrants from outside the European continent. If the respondent is opposed to immigrants from poorer countries coming to Europe, then the respondent scores on average less likely to support redistribution.

All intercepts are above 3 (neutral point of the dependent variable) which indicates that the if all the independent and control variables would equal 0 the average respondent would still be in support of redistribution. Furthermore, even though every model returns good results in terms of significance for the individual variables the variance of the dependent variable maxed out at 4.9%. In the bivariate model the explained variance is even as low as 0.5%.

The null hypotheses can be rejected as the effect of emotional attachment to Germany on the attitudes towards redistribution is clearly negative and statistically significant in all models. H1 will therefore be accepted and my research hypotheses that emotional attachment to Germany undermines support for redistribution is confirmed.

Table 2

Johnston et. al. models plus full model

	Dependent variable:							
	Redistribution							
	(1)	(2)	(3)	(4)	(5)			
Emotional Attachment to Germany	-0.031***	-0.032***	-0.032***	-0.032***	-0.029***			
	(0.010)	(0.011)	(0.011)	(0.011)	(0.011)			
Total Household Income		-0.033***	-0.034***	-0.033***	-0.033***			
		(0.009)	(0.009)	(0.009)	(0.009)			
Age		0.002^{*}	0.003^{*}	0.003^{**}	0.003**			
		(0.001)	(0.001)	(0.001)	(0.001)			
Female		0.159***	0.144***	0.143***	0.130***			
		(0.045)	(0.045)	(0.045)	(0.045)			
Member of Trade Union		0.159^{**}	0.161**	0.155**	0.155**			
		(0.066)	(0.066)	(0.066)	(0.066)			
Work Status: Unemployed		-0.008	-0.006	-0.014	-0.018			
		(0.126)	(0.126)	(0.126)	(0.126)			
Work Status: Other		0.082	0.076	0.081	0.079			
		(0.051)	(0.051)	(0.051)	(0.051)			
Completed Secondary Education		-0.100**	-0.096*	-0.124**	-0.110**			
		(0.049)	(0.051)	(0.051)	(0.051)			
Interpersonal Trust			0.030^{**}		0.021			
			(0.015)		(0.015)			
Trust in Government			-0.046***		-0.051***			
			(0.015)		(0.015)			
Trust in EU Government			0.038***		0.033**			
			(0.013)		(0.013)			
Immigrants enrich Culture				0.025^{**}	0.027^{**}			
				(0.011)	(0.011)			
Anti-Immigration				0.107^{**}	0.101**			
				(0.050)	(0.050)			
Anti-Immigration, Non European				-0.104***	-0.096**			
				(0.039)	(0.039)			
Intercept	4.082***	4.081***	3.937***	3.940***	3.852***			
	(0.081)	(0.109)	(0.125)	(0.167)	(0.178)			
Observations	1,967	1,967	1,967	1,967	1,967			
\mathbb{R}^2	0.005	0.035	0.042	0.043	0.049			

Note: *p<0.1; **p<0.05; ***p<0.01

Source data: ESS Round 9 (2018), own calculations

DICUSSION AND SUMMARY OF RESULTS

Some obvious limitation of the study come directly to mind. I could not investigate the support

for universal health care nor pensions in Germany. Furthermore, my dependent variable and

independent variable did not exactly represent the same wording as the ones used by Johnston

et al. However, I think I have argued that the concepts behind those variables are still about the

same and therefore the replication can be considered a success. A custom dataset just for this

replication would be too expansive.

As I have shown that the effect observed by Johnston and his colleagues in their study does not

neatly translate to other countries. Their results suggested that the welfare state and national

identity are mutually supportive. This effect cannot be observed in Germany rather the opposite

is true. If the respondent is highly emotionally attached, they are less likely to support

redistribution by the state. This is only one of the three aspects investigated by Johnston and

colleagues therefore I can't conclude if this effect persists across other parts of the welfare state.

One interesting lesson learned by is that the trust in the national government does have the

opposite effect of trust in the EU parliament (government). This gives rise to the question if

other policies experience the same oppositional effect as redistribution. Even other questions

like acceptance of gay rights, liberal policies or attitudes towards immigration should be

examined for this effect.

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APPENDIX

Log of analysis

Mark Scharmann

15 8 2021

View(my.df)

Missing Values and rescaling

GINCDIF (Redistribution)

```
table(my.df$gincdif)
##
##
           2
                3
                          5
    610 1107 309
                  264
                         48
attributes(my.df$gincdif)
## $label
## [1] "Government should reduce differences in income levels"
## $format.spss
## [1] "F1.0"
##
## $display_width
## [1] 9
##
## $labels
##
               Agree strongly
                                                     Agree
##
## Neither agree nor disagree
                                                 Disagree
##
##
            Disagree strongly
                                                  Refusal
##
##
                   Don't know
                                                No answer
##
```

```
attributes(my.df$atchctr)
## $label
## [1] "How emotionally attached to [country]"
## $format.spss
## [1] "F2.0"
##
## $display_width
## [1] 9
##
## $labels
## Not at all emotionally attached
                                                                  1
##
                                                                  1
                                 2
                                                                  3
##
                                 2
                                                                  3
##
##
                                 4
                                                                  5
##
                                 4
                                                                  5
##
                                 6
                                                                  7
                                                                  7
##
                                 6
##
                                 8
                                                                  9
                                                                  9
##
##
         Very emotionally attached
                                                            Refusal
##
                                                                 77
##
                        Don't know
                                                          No answer
my.df <- my.df %>% mutate(atchctr_m = ifelse(atchctr == 77 | atchctr == 88 | atchctr == 99, NA, atchctr
table(my.df$atchctr_m, useNA = "ifany")
##
##
     0
                2
                     3
                               5
                                    6
                                         7
                                              8
                                                    9
                                                        10 <NA>
           1
                    72
                         78 172 189 350 588 333
##
     25
          18
               45
class(my.df$atchctr_m)
## [1] "numeric"
PPLTRST, PPLFAIR, PPLHLP (Interpersonal trust)
table(my.df$ppltrst)
##
##
             2
                 3
                   4
                         5
                             6
                                 7
                                            10
```

85 43 120 238 228 462 314 458 311 53

attributes(my.df\$ppltrst)

```
## $label
## [1] "Most people can be trusted or you can't be too careful"
## $format.spss
## [1] "F2.0"
##
## $display_width
## [1] 9
##
## $labels
    You can't be too careful
                                                      1
##
                                                      1
##
                           2
                                                      3
                           2
##
                                                      3
##
                           4
                                                      5
##
                           4
                                                      5
##
                           6
                                                      7
                                                      7
##
                           6
##
                           8
                                                      9
                                                      9
##
## Most people can be trusted
                                                Refusal
                                                     77
##
                  Don't know
                                              No answer
##
my.df <- my.df %>% mutate(ppltrst_m = ifelse(ppltrst == 77 | ppltrst == 88 | ppltrst == 99, NA, ppltrst
table(my.df$ppltrst_m, useNA = "ifany")
##
##
                3 4 5
                            6 7 8
## 85 43 120 238 228 462 314 458 311 53 46
class(my.df$ppltrst_m)
## [1] "numeric"
table(my.df$pplfair)
##
            2 3 4 5
                            6 7 8 9 10
##
   31 20 60 153 165 459 274 504 454 150 87
attributes(my.df$pplfair)
## $label
## [1] "Most people try to take advantage of you, or try to be fair"
##
## $format.spss
## [1] "F2.0"
## $display_width
```

```
## [1] 9
##
## $labels
## Most people try to take advantage of me
                                                                                    1
##
                                                                                    1
##
                                           2
                                                                                    3
##
                                           2
                                                                                    3
                                           4
                                                                                    5
##
##
                                           4
                                                                                    5
##
                                           6
                                                                                    7
##
                                          6
                                                                                    7
                                                                                    9
##
                                          8
##
                                                                                    9
##
                Most people try to be fair
                                                                              Refusal
##
                                          10
                                                                                   77
##
                                 Don't know
                                                                            No answer
##
                                         88
                                                                                   99
my.df <- my.df %>% mutate(pplfair_m = ifelse(pplfair == 77 | pplfair == 88 | pplfair == 99, NA, pplfair
table(my.df$pplfair_m, useNA = "ifany")
##
##
      0
           1
                2
                      3
                           4
                                5
                                     6
                                          7
                                                8
                                                     9
                                                         10 <NA>
     31
          20
               60 153 165 459 274 504
                                             454
##
                                                  150
                                                         87
class(my.df$pplfair_m)
## [1] "numeric"
table(my.df$pplhlp)
##
##
             2
                 3
                    4
                          5
                              6
                                  7
                                          9
                                             10
     0
         1
                                      8
    37 25 111 245 264 566 329 403 268 57 50
attributes(my.df$pplhlp)
## $label
## [1] "Most of the time people helpful or mostly looking out for themselves"
##
## $format.spss
## [1] "F2.0"
##
## $labels
## People mostly look out for themselves
                                                                                1
##
                                                                                1
                                        2
##
                                                                                3
                                        2
##
                                                                                3
                                        4
##
                                                                                5
##
                                        4
                                                                                5
##
                                        6
                                                                                7
```

```
7
##
                                         6
##
                                         8
                                                                                 9
##
                                         8
                                                                                 9
##
         People mostly try to be helpful
                                                                           Refusal
##
                                                                                77
##
                               Don't know
                                                                         No answer
##
                                                                                99
my.df <- my.df %>% mutate(pplhlp m = ifelse(pplhlp == 77 | pplhlp == 88 | pplhlp == 99, NA, pplhlp))
table(my.df$pplhlp_m, useNA = "ifany")
##
##
      0
                                           7
                                                          10 <NA>
                 2
                      3
                                5
                                      6
                                                8
           1
##
     37
          25
                   245
                         264
                              566
                                   329
                                         403
                                                          50
class(my.df$pplhlp m)
## [1] "numeric"
my.df <- my.df %>% mutate(inter_trust = (ppltrst_m + pplfair_m + pplhlp_m) / 3)
table(my.df$inter_trust, useNA = "ifany")
##
                    0 0.66666666666667
                                                             1.333333333333333
##
##
                                       6
                                                          8
                                       2
                                                             2.6666666666667
##
    1.6666666666667
                                          2.33333333333333
##
                   15
                                      16
                                                         28
                                                                            47
                   3
                       3.33333333333333
                                          3.6666666666667
                                                                             4
##
##
                   48
                                      68
                                                         88
                                                                           102
                                                             5.33333333333333
                       4.6666666666667
##
    4.33333333333333
                                                          5
##
                  118
                                     114
                                                        194
                                                                           133
##
    5.6666666666667
                                          6.33333333333333
                                                             6.666666666667
##
                  168
                                     186
                                                                           205
                                                        188
##
                   7
                       7.33333333333333
                                          7.6666666666667
                                                                             8
##
                                     170
                                                        104
                                                                            71
                  159
##
    8.33333333333333
                       8.6666666666667
                                                          9
                                                             9.33333333333333
##
                   48
                                      19
                                                         15
                                                                            10
##
    9.6666666666667
                                      10
                                                       <NA>
##
                    2
                                                          4
                                      11
```

TRSTPRL, TRSTPLT, TRSTEP (Trust in government)

```
table(my.df$trstprl)

##
## 0 1 2 3 4 5 6 7 8 9 10
## 134 73 161 254 258 396 301 320 281 88 61
```

```
attributes(my.df$trstprl)
## $label
## [1] "Trust in country's parliament"
## $format.spss
## [1] "F2.0"
##
## $display_width
## [1] 9
##
## $labels
## No trust at all
                                                 2
                                                                  3
                                                 2
                                                                  3
                                                                                  4
##
                                 1
##
                 5
                                 6
                                                                  8
                                                                                  9
                                 6
                                                                  8
                                                                                  9
##
                 5
##
   Complete trust
                          Refusal
                                        Don't know
                                                         No answer
                                77
                                                                 99
##
                10
                                                88
my.df <- my.df %>% mutate(trstprl_m = ifelse(trstprl == 77 | trstprl == 88 | trstprl == 99, NA, trstprl
table(my.df$trstprl_m, useNA = "ifany")
##
                                                        10 <NA>
##
      0
                               5
                                                   9
                2
                     3
                          4
                                    6
                                         7
                                              8
          73 161
                  254
                        258
                             396 301
                                      320
                                            281
                                                             31
class(my.df$trstprl_m)
## [1] "numeric"
table(my.df$trstplt)
##
       1
             2
                 3 4 5
                             6
                                 7
## 239 129 244 362 345 431 255 218 84 14 18
attributes(my.df$trstplt)
## $label
## [1] "Trust in politicians"
## $format.spss
## [1] "F2.0"
##
## $display_width
## [1] 9
##
## $labels
## No trust at all
                                                 2
##
                                 1
```

```
##
##
                                 6
                                                                  8
    Complete trust
                                        Don't know
##
                           Refusal
                                                         No answer
                                77
                                                88
                                                                 99
##
                10
my.df <- my.df %>% mutate(trstplt_m = ifelse(trstplt == 77 | trstplt == 88 | trstplt == 99, NA, trstplt
table(my.df$trstplt_m, useNA = "ifany")
##
##
      0
           1
                2
                     3
                          4
                               5
                                    6
                                         7
                                              8
                                                        10 <NA>
   239 129 244 362 345 431 255
class(my.df$trstplt_m)
## [1] "numeric"
table(my.df$trstep)
##
             2
                 3
                     4
                        5
                             6
                                 7
## 186 101 158 296 283 440 296 267 171 52 27
attributes(my.df$trstep)
## $label
## [1] "Trust in the European Parliament"
## $format.spss
## [1] "F2.0"
##
## $labels
## No trust at all
                                                 2
                                 1
                                                                  3
                                                                                  4
##
                                 1
                                                  2
                                                                  3
                                                                                  4
##
                 5
                                                                  8
                                                                                  9
                 5
                                 6
##
                           Refusal
                                        Don't know
   Complete trust
                                                         No answer
##
                10
                                77
                                                88
my.df <- my.df %>% mutate(trust_EU_gov = ifelse(trstep == 77 | trstep == 88 | trstep == 99, NA, trstep)
table(my.df$trust_EU_gov, useNA = "ifany")
##
           1
                2
                     3
                          4
                               5
                                    6
                                         7
                                              8
                                                   9
                                                        10 <NA>
    186 101 158 296 283 440
                                  296 267 171
                                                  52
                                                        27
                                                             81
class(my.df$trust_EU_gov)
```

[1] "numeric"

```
my.df <- my.df %>% mutate(gov_trust = (trstprl_m + trstplt_m) / 2)
table(my.df$gov_trust, useNA = "ifany")
##
##
       0.5
                 1.5
                         2 2.5
                                   3 3.5
                                            4 4.5
                                                      5 5.5
##
   105
                  73
                       100 111 173 149 169 180
                                                    241 171 185 171 155 107
         35
              68
##
     8
        8.5
               9
                  9.5
                        10 <NA>
##
     65
         32
              16
                    5
                         9
                             38
HINCTNTA (Household income)
table(my.df$hinctnta)
##
           3 4 5
                        6
        2
                            7
                                8
## 139 163 160 207 200 218 223 256 231 291
attributes(my.df$hinctnta)
## $label
## [1] "Household's total net income, all sources"
## $format.spss
## [1] "F2.0"
## $display_width
## [1] 10
##
## $labels
##
  J - 1st decile R - 2nd decile C - 3rd decile M - 4th decile F - 5th decile
                                               3
   S - 6th decile K - 7th decile P - 8th decile D - 9th decile H - 10th decile
##
##
##
          Refusal
                       Don't know
                                        No answer
##
               77
my.df <- my.df %>% mutate(hinctnta_m = ifelse(hinctnta == 77 | hinctnta == 88 | hinctnta == 99, NA, hin
table(my.df$hinctnta_m, useNA = "ifany")
##
##
                              6
                                   7
                                        8
                                            9
                                                10 <NA>
      1
          2
               3
                    4
                         5
                            218 223 256 231 291 270
  139 163 160 207 200
class(my.df$hinctnta_m)
## [1] "numeric"
```

YRBRN (year of birht, age)

```
table(my.df$yrbrn)
## 1928 1929 1930 1931 1932 1933 1934 1935 1936 1937 1938 1939 1940 1941 1942 1943
                      6
                           15
                                10
                                       6
                                           13
                                                14
                                                      15
                                                           13
                                                                27
                                                                      35
                                                                           22
## 1944 1945 1946 1947 1948 1949 1950 1951 1952 1953 1954 1955 1956 1957 1958 1959
                     26
##
     20
          23
                30
                           26
                                35
                                     45
                                           51
                                                37
                                                      42
                                                           38
                                                                64
                                                                      45
                                                                           39
                                                                                 48
## 1960 1961 1962 1963 1964 1965 1966 1967 1968 1969 1970 1971 1972 1973 1974 1975
     40
          42
                38
                     51
                           46
                                48
                                     42
                                           41
                                                44
                                                      35
                                                           38
                                                                44
                                                                      32
                                                                           37
                                                                                 31
## 1976 1977 1978 1979 1980
                              1981 1982 1983
                                              1984
                                                   1985
                                                         1986 1987 1988 1989 1990 1991
##
     24
          28
                24
                     32
                          29
                                29
                                     30
                                           30
                                                36
                                                      28
                                                           37
                                                                26
                                                                      34
                                                                           37
                                                                                 37
                                                                                      21
## 1992 1993 1994 1995 1996 1997 1998 1999 2000 2001 2002 2003
##
     25
          36
                24
                     36
                          41
                                30
                                     27
                                           39
                                                29
                                                      32
                                                           40
                                                                17
attributes(my.df$yrbrn)
## $label
## [1] "Year of birth"
##
## $format.spss
## [1] "F4.0"
##
## $display_width
## [1] 7
##
## $labels
##
      Refusal Don't know No answer
         7777
##
                     8888
                                 9999
my.df <- my.df %>% mutate(yrbrn_m = ifelse(yrbrn == 7777 | yrbrn == 8888 | yrbrn == 9999, NA, yrbrn))
table(my.df$yrbrn_m, useNA = "ifany")
##
## 1928 1929 1930 1931 1932 1933 1934 1935 1936 1937 1938 1939 1940 1941 1942 1943
                                                                27
                                                                           22
##
      9
           4
                 5
                      6
                           15
                                10
                                       6
                                           13
                                                14
                                                      15
                                                           13
                                                                      35
                                                                                 25
                                                                                      22
## 1944 1945 1946 1947 1948 1949 1950 1951 1952 1953 1954 1955 1956 1957 1958 1959
##
          23
                30
                     26
                           26
                                35
                                     45
                                           51
                                                37
                                                      42
                                                           38
                                                                64
                                                                      45
                                                                           39
  1960 1961 1962 1963 1964 1965 1966 1967 1968 1969 1970 1971 1972 1973 1974 1975
          42
                                     42
##
     40
                38
                     51
                          46
                                48
                                           41
                                                44
                                                      35
                                                           38
                                                                44
                                                                      32
                                                                           37
                                                                                 31
                                                                                      38
## 1976 1977 1978 1979 1980
                             1981 1982 1983 1984 1985
                                                         1986 1987 1988 1989 1990 1991
##
     24
          28
                24
                     32
                          29
                                29
                                     30
                                           30
                                                36
                                                      28
                                                           37
                                                                26
                                                                      34
                                                                           37
                                                                                 37
## 1992 1993 1994 1995 1996 1997 1998 1999 2000 2001 2002 2003 <NA>
##
     25
          36
                24
                     36
                          41
                                30
                                     27
                                           39
                                                29
                                                      32
                                                           40
                                                                17
```

```
class(my.df$yrbrn_m)
## [1] "numeric"
# has to be recoded into 4 seperate dummy variables: 30-39, 50-65, 66 over, 30 under
my.df <- my.df %>% mutate(AGE = 2018 - yrbrn_m)
table(my.df$AGE, useNA = "ifany")
##
##
     15
                     18
                          19
                                20
                                     21
                                          22
                                                23
                                                     24
                                                          25
                                                                26
                                                                     27
                                                                          28
                                                                                29
                                                                                     30
          16
                17
##
     17
          40
                32
                     29
                          39
                                27
                                     30
                                          41
                                                36
                                                     24
                                                          36
                                                                25
                                                                     21
                                                                          37
                                                                                37
                                                                                     34
##
     31
          32
                33
                          35
                                36
                                     37
                                          38
                                                39
                                                     40
                                                          41
                                                                42
                                                                                45
                                                                                     46
                     34
                                                                     43
                                                                          44
##
     26
          37
                28
                     36
                          30
                                30
                                     29
                                          29
                                                32
                                                     24
                                                          28
                                                                24
                                                                     38
                                                                          31
                                                                                37
                                                                                     32
##
     47
          48
                49
                     50
                          51
                                52
                                     53
                                          54
                                                55
                                                     56
                                                          57
                                                                58
                                                                     59
                                                                          60
                                                                                61
                                                                                     62
##
     44
          38
                35
                     44
                          41
                                42
                                     48
                                          46
                                               51
                                                     38
                                                          42
                                                                40
                                                                     39
                                                                          48
                                                                                39
                                                                                     45
                                                                                     78
##
     63
          64
                65
                     66
                          67
                                68
                                     69
                                          70
                                               71
                                                     72
                                                          73
                                                               74
                                                                     75
                                                                          76
                                                                                77
##
     64
          38
                42
                     37
                          51
                                45
                                     35
                                          26
                                                26
                                                     30
                                                          23
                                                                20
                                                                     22
                                                                          25
                                                                                22
                                                                                     35
     79
##
          80
                81
                     82
                          83
                                84
                                     85
                                          86
                                                87
                                                     88
                                                          89
                                                                90 <NA>
##
     27
          13
                15
                     14
                          13
                                 6
                                     10
                                          15
                                                      5
                                                                 9
                                                 6
class(my.df$AGE)
## [1] "numeric"
GNDR (Gender)
table(my.df$gndr)
##
##
      1
## 1212 1146
attributes(my.df$gndr)
## $label
## [1] "Gender"
##
## $format.spss
## [1] "F1.0"
##
## $display_width
## [1] 6
##
## $labels
##
        Male
                 Female No answer
##
           1
                      2
```

```
my.df <- my.df %>% mutate(gndr_m = ifelse(gndr == 9, NA, gndr))
table(my.df$gndr_m, useNA = "ifany")
##
##
## 1212 1146
class(my.df$gndr_m)
## [1] "numeric"
## gender recoding, female as 1 male as 0
my.df$female[my.df$gndr_m == 2] <- 1</pre>
my.df$female[my.df$gndr_m != 2] <- 0</pre>
table(my.df$female, useNA = "ifany")
##
      0
##
## 1212 1146
MBTRU (member of trade union)
table(my.df$mbtru)
##
##
      1
    285 475 1593
attributes(my.df$mbtru)
## $label
## [1] "Member of trade union or similar organisation"
## $format.spss
## [1] "F1.0"
##
## $display_width
## [1] 7
##
## $labels
                                                                         Don't know
## Yes, currently Yes, previously
                                               No
                                                            Refusal
                                                  3
##
##
         No answer
##
                 9
```

```
my.df <- my.df %>% mutate(mbtru_m = ifelse(mbtru == 7 | mbtru == 8 | mbtru == 9, NA, mbtru))
table(my.df$mbtru_m, useNA = "ifany")
##
##
           2
                3 <NA>
   285 475 1593
##
## dummy variable if currently member of trade union
my.df$trade_dummy[my.df$mbtru_m == 1] <- 1</pre>
my.df$trade_dummy[my.df$mbtru_m != 1] <- 0</pre>
table(my.df$trade_dummy, useNA = "ifany")
##
##
      0
           1 <NA>
## 2068 285
Workstatus (unemployment and workforce filter)
table(my.df$edctn, useNA = "ifany")
##
##
      0
## 2091 267
attributes(my.df$edctn)
## $label
## [1] "Doing last 7 days: education"
## $format.spss
## [1] "F1.0"
## $display_width
## [1] 7
##
## $labels
## Not marked
                  Marked
##
            0
table(my.df$dsbld, useNA = "ifany")
##
##
      0
           1
## 2234 124
```

```
## $label
## [1] "Doing last 7 days: permanently sick or disabled"
## $format.spss
## [1] "F1.0"
##
## $display_width
## [1] 7
## $labels
## Not marked
                  Marked
##
            0
table(my.df$rtrd, useNA = "ifany")
##
##
      0
## 1725 633
attributes(my.df$rtrd)
## $label
## [1] "Doing last 7 days: retired"
## $format.spss
## [1] "F1.0"
## $display_width
## [1] 6
##
## $labels
## Not marked
                  Marked
table(my.df$hswrk, useNA = "ifany")
##
##
      0
           1
## 1717 641
attributes(my.df$hswrk)
## $label
## [1] "Doing last 7 days: housework, looking after children, others"
## $format.spss
## [1] "F1.0"
##
```

attributes(my.df\$dsbld)

```
## $display_width
## [1] 7
##
## $labels
## Not marked
               Marked
       0
my.df <- my.df %>% mutate(work_status_other = case_when(edctn == 1 ~ 1,
                                                       dsbld == 1 \sim 1,
                                                       rtrd == 1 ~ 1,
                                                       edctn == 0 \sim 0,
                                                       edctn == 0 \sim 0,
                                                       edctn == 0 \sim 0,))
table(my.df$work_status_other, useNA = "ifany")
##
##
     0
        1
## 1385 973
table(my.df$uempla, useNA = "ifany")
##
##
     0
         1
## 2308 50
attributes(my.df$uempla)
## $label
## [1] "Doing last 7 days: unemployed, actively looking for job"
## $format.spss
## [1] "F1.0"
##
## $labels
## Not marked Marked
      0
##
table(my.df$uempli, useNA = "ifany")
##
##
   0
         1
## 2324 34
attributes(my.df$uempli)
## $label
## [1] "Doing last 7 days: unemployed, not actively looking for job"
##
## $format.spss
## [1] "F1.0"
```

```
##
## $labels
## Not marked
                  Marked
##
            0
                        1
my.df <- my.df %>% mutate(unemployed_dummy = case_when(uempla == 0 & uempli == 0 ~ 0,
                                                         uempla == 1 & uempli == 0 ~ 1,
                                                         uempla == 0 & uempli == 1 ~ 1))
table(my.df$unemployed_dummy, useNA = "ifany")
##
##
      0
           1 <NA>
## 2276
          80
Immigration: want to fit in [imueclt]
table(my.df$imueclt)
##
##
                 3
                      4
                          5
                              6
                                  7
                                      8
    71 57 118 159 163 391 254 385 366 186 189
attributes(my.df$imueclt)
## $label
## [1] "Country's cultural life undermined or enriched by immigrants"
## $format.spss
## [1] "F2.0"
## $display_width
## [1] 9
##
## $labels
## Cultural life undermined
                                                     1
                                                                               2
##
                                                     1
                                                                               2
##
                           3
                                                     4
                                                                               5
##
                           3
                                                     4
                                                                               5
                           6
                                                     7
                                                                               8
##
##
                           6
                                                                               8
                           9
                               Cultural life enriched
                                                                         Refusal
##
##
                                                                              77
##
                 Don't know
                                            No answer
my.df <- my.df %>% mutate(imueclt_m = ifelse(imueclt == 77 | imueclt == 88 | imueclt == 99, NA, imueclt
table(my.df$imueclt_m, useNA = "ifany")
##
##
      0
                2
                      3
                                5
                                     6
                                          7
                                                8
                                                         10 <NA>
```

366

186

189

254

385

##

71

57 118 159 163 391

Immigration: too many or too few immigrants

```
table(my.df$imsmetn)
##
##
                     4
      1
           2
                3
## 1028 1083 192
                    28
attributes(my.df$imsmetn)
## [1] "Allow many/few immigrants of same race/ethnic group as majority"
## $format.spss
## [1] "F1.0"
## $display_width
## [1] 9
##
## $labels
## Allow many to come and live here
                                                           Allow some
##
##
                        Allow a few
                                                           Allow none
##
                                  3
                                                           Don't know
##
                            Refusal
##
##
                          No answer
##
table(my.df$imdfetn)
##
                     4
##
           2
      1
                3
   522 1176 546
attributes(my.df$imdfetn)
## $label
## [1] "Allow many/few immigrants of different race/ethnic group from majority"
## $format.spss
## [1] "F1.0"
## $display_width
## [1] 9
##
## $labels
## Allow many to come and live here
                                                           Allow some
                        Allow a few
##
                                                           Allow none
```

```
##
                                     3
                              Refusal
                                                              Don't know
##
##
##
                            No answer
##
table(my.df$impcntr)
##
##
                 3
                      4
   487 1098 616 127
attributes(my.df$impcntr)
## $label
## [1] "Allow many/few immigrants from poorer countries outside Europe"
## $format.spss
## [1] "F1.0"
##
## $display_width
## [1] 9
##
## $labels
## Allow many to come and live here
                                                               Allow some
##
##
                          Allow a few
                                                               Allow none
##
                                                              Don't know
##
                              Refusal
##
##
                            No answer
##
                                    9
my.df <- my.df %>% mutate(imsmetn_m = ifelse(imsmetn == 7 | imsmetn == 8 | imsmetn == 9, NA, imsmetn),
                            imdfetn_m = ifelse(imdfetn == 7 | imdfetn == 8 | imdfetn == 9, NA, imdfetn),
                            allow_immigrants_out_EU = ifelse(impcntr == 7 | impcntr == 8 | impcntr == 9, impcntr == 9, impcntr == 9, impcntr == 9
table(my.df$imsmetn_m, useNA = "ifany")
##
##
            2
                 3
                      4 <NA>
      1
## 1028 1083 192
                     28
                           27
table(my.df$imdfetn_m, useNA = "ifany")
##
            2
                 3
                      4 <NA>
      1
```

522 1176 546

84

30

```
table(my.df$impcntr_m, useNA = "ifany")
## 
my.df <- my.df %>% mutate(allow_immigrants = (imsmetn_m + imdfetn_m) / 2 )
table(my.df$allow_immigrants, useNA = "ifany")
##
##
      1 1.5
                2 2.5
                            3.5
                                   4 <NA>
  503 430 827 330 177
                             26
                                  24
                                       41
table(my.df$allow_immigrants_out_EU, useNA = "ifany")
##
##
      1
          2
               3
                    4 <NA>
   487 1098 616 127
Education: Dummy variable for at least high school
table(my.df$edubde1, useNA = "ifany")
##
##
     0
          1
               2
                    3
                         4
                              5
                                   6 5555 <NA>
##
               8 535 765
                            242 724
attributes(my.df$edubde1)
## $label
## [1] "Highest level of education, Germany: höchster allgemeinbildender Schulabschluss"
## $format.spss
## [1] "F4.0"
##
## $display_width
## [1] 9
##
## $labels
                                                  Grundschule nicht beendet
##
##
##
                        (Noch) kein Schulabschluss, aber Grundschule beendet
##
                   Abschluss einer Förderschule (Sonderschule, Hilfsschule)
##
##
             Volks- oder Hauptschule / Polytechn. Oberschule (8./9. Klasse)
##
##
      Mittlere Reife, Realschule / MSA / Polytechn. Oberschule (10. Klasse)
##
##
```

##

Fachhochschulreife

```
##
## Abitur, fachgebundene Hochschulreife / Erweiterte Oberschule (12. Klasse)
##
##
                                                                          Other
##
                                                                           5555
##
                                                                        Refusal
##
                                                                           7777
                                                                     Don't know
##
##
                                                                           8888
##
                                                                      No answer
##
                                                                           9999
my.df <- my.df %>% mutate(education_m = ifelse(edubde1 == 5555 |
                                                   edubde1 == 7777 |
                                                   edubde1 == 8888 |
                                                   edubde1 == 9999, NA, edubde1))
table(my.df$education_m, useNA = "ifany")
##
##
      0
          1
                     3
                          4
                                5
                                     6 <NA>
                2
          69
##
                8 535 765 242 724
my.df$education_dummy[my.df$education_m == 6] <- 1</pre>
my.df$education_dummy[my.df$education_m != 6] <- 0</pre>
table(my.df$education_dummy, useNA = "ifany")
##
##
      0
           1 <NA>
## 1625 724
```

Listwise deleted model

```
my.df.filt <- my.df[varsinmodel.vc]</pre>
View(my.df.filt)
nrow(my.df.filt)
## [1] 2358
names(my.df.filt)
## [1] "gincdif_reversed"
                                   "atchctr_m"
## [3] "inter_trust"
                                   "gov_trust"
## [5] "trust_EU_gov"
                                   "hinctnta_m"
                                   "female"
## [7] "AGE"
## [9] "trade_dummy"
                                   "unemployed_dummy"
## [11] "work_status_other"
                                   "imueclt_m"
## [13] "allow_immigrants"
                                   "allow_immigrants_out_EU"
## [15] "education_dummy"
#Listwise deletion
my.df.lw <- na.omit(my.df.filt)</pre>
View(my.df.lw)
nrow(my.df.lw)
```

[1] 1967

Summary statistics

Variable	Variable label	Obs	Mean	SD	Min	Max
gincdif_reversed	Support for redistribution	1967	3.850	0.994	1	5
atchctr_m	Emotional Attachment to Germany	1967	7.515	2.167	0	10
inter_trust	Interpersonal Trust	1967	5.713	1.649	0	10
gov_trust	Trust in Government	1967	4.546	2.182	0	10
trust_EU_gov	Trust in EU Government	1967	4.575	2.377	0	10
hinctnta_m	Total Household Income	1967	6.123	2.804	1	10
AGE	Age	1967	50.010	18.387	15	90
female	Female	1967	0.470	0.499	0	1
trade_dummy	Member of Trade Union	1967	0.129	0.335	0	1
unemployed_dummy	Work Status: Unemployed	1967	0.034	0.180	0	1
work_status_other	Worl Status: Other	1967	0.400	0.490	0	1
imueclt_m	Immigrants enrich Culture	1967	6.015	2.509	0	10
allow_immigrants	Anti-Immigration	1967	1.866	0.643	1	4
allow_immigrants_out_EU	Anti-Immigration, Non European	1967	2.161	0.807	1	4
education_dummy	Completed Secondary Education	1967	0.311	0.463	0	1

Bivariate Regressions

```
bi_m1.lw <- lm(gincdif_reversed ~ atchctr_m, data = my.df.lw)
multi_econ_m1.lw <- lm(gincdif_reversed ~ atchctr_m +</pre>
```

Variable	Variable label	Obs	Mean	SD	Min	Max
gincdif_reversed	Support for redistribution	1967	3.850	0.994	1	5
atchctr_m	Emotional Attachment to Germany	1967	7.515	2.167	0	10
inter_trust	Interpersonal Trust	1967	5.713	1.649	0	10
gov_trust	Trust in Government	1967	4.546	2.182	0	10
trust_EU_gov	Trust in EU Government	1967	4.575	2.377	0	10
hinctnta_m	Total Household Income	1967	6.123	2.804	1	10
AGE	Age	1967	50.010	18.387	15	90
female	Female	1967	0.470	0.499	0	1
trade_dummy	Member of Trade Union	1967	0.129	0.335	0	1
unemployed_dummy	Work Status: Unemployed	1967	0.034	0.180	0	1
$work_status_other$	Worl Status: Other	1967	0.400	0.490	0	1
$imueclt_m$	Immigrants enrich Culture	1967	6.015	2.509	0	10
allow_immigrants	Anti-Immigration	1967	1.866	0.643	1	4
allow_immigrants_out_EU	Anti-Immigration, Non European	1967	2.161	0.807	1	4
education_dummy	Completed Secondary Education	1967	0.311	0.463	0	1

```
hinctnta_m +
                     AGE +
                     female +
                     trade_dummy +
                     unemployed_dummy +
                     work_status_other +
                     education_dummy, data = my.df.lw)
\verb|multi_econ_trust_m2.lw| <- \\ \verb|lm(gincdif_reversed ~ atchctr_m + \\
                     hinctnta_m +
                     AGE +
                     female +
                     trade_dummy +
                     unemployed_dummy +
                     work_status_other +
                     education_dummy +
                     inter_trust +
                     gov_trust +
                     trust_EU_gov, data = my.df.lw)
multi_econ_immigration_m3.lw <- lm(gincdif_reversed ~ atchctr_m +</pre>
                     hinctnta_m +
                     AGE +
                     female +
                     trade_dummy +
                     unemployed_dummy +
                     work_status_other +
                     education_dummy +
                     imueclt_m +
                     allow_immigrants +
                     allow_immigrants_out_EU, data = my.df.lw)
```

Multivariate Regression

```
multi_full_model.lw <- lm(gincdif_reversed ~ atchctr_m +</pre>
                    hinctnta_m +
                    AGE +
                    female +
                    trade_dummy +
                    unemployed_dummy +
                    work_status_other +
                    education_dummy +
                    inter trust +
                    gov_trust +
                    trust EU gov +
                    imueclt_m +
                    allow_immigrants +
                    allow_immigrants_out_EU, data = my.df.lw)
multi_full_model.lw
##
## Call:
## lm(formula = gincdif_reversed ~ atchctr_m + hinctnta_m + AGE +
       female + trade_dummy + unemployed_dummy + work_status_other +
       education_dummy + inter_trust + gov_trust + trust_EU_gov +
##
##
       imueclt_m + allow_immigrants + allow_immigrants_out_EU, data = my.df.lw)
##
## Coefficients:
##
               (Intercept)
                                           atchctr_m
                                                                    hinctnta_m
                  3.852119
                                            -0.028857
                                                                      -0.032657
##
##
                        AGE
                                              female
                                                                   trade_dummy
                  0.003142
                                            0.130369
                                                                      0.155139
##
          unemployed_dummy
                                   work_status_other
##
                                                               education_dummy
##
                 -0.017585
                                            0.078984
                                                                     -0.109797
##
               inter_trust
                                           gov_trust
                                                                  trust_EU_gov
##
                  0.020811
                                           -0.051036
                                                                      0.033023
##
                 imueclt_m
                                    allow_immigrants
                                                       allow_immigrants_out_EU
                                            0.100700
##
                  0.026827
                                                                     -0.096427
```

Printing the regression table

```
"Work Status: Unemployed",
    "Work Status: Other",
    "Completed Secondary Education",
    "Interpersonal Trust",
    "Trust in Government",
    "Trust in EU Government",
    "Immigrants enrich Culture",
    "Anti-Immigration",
    "Anti-Immigration, Non European",
    "Intercept"),
    keep.stat = c("n", "rsq"))
```

% Table created by stargazer v.5.2.2 by Marek Hlavac, Harvard University. E-mail: hlavac at fas.harvard.edu

% Date and time: So, Aug 15, 2021 - 19:29:38

```
stargazer(bi_m1.lw, multi_econ_m1.lw, multi_econ_trust_m2.lw, multi_econ_immigration_m3.lw, multi_full_i
          dep.var.labels = c("Redistribution"),
          title = "Johnston et. al. models plus full model",
          notes = "Source data: ESS Round 9 (2018), own calculations",
          covariate.labels = c("Emotional Attachment to Germany",
                              "Total Household Income",
                              "Age",
                              "Female",
                              "Member of Trade Union",
                              "Work Status: Unemployed",
                              "Work Status: Other",
                              "Completed Secondary Education",
                              "Interpersonal Trust",
                              "Trust in Government",
                              "Trust in EU Government",
                              "Immigrants enrich Culture",
                              "Anti-Immigration",
                              "Anti-Immigration, Non European",
                              "Intercept"),
          keep.stat = c("n", "rsq"),
          out = "johnston models plus full model.htm")
```

Johnston et. al. models plus full model

Dependent variable:

Redistribution

- (1)
- (2)
- (3)
- (4)
- (5)

Emotional Attachment to Germany

```
-0.031***
```

-0.032***

Table 1: Johnston et. al. models plus full model

			$Dependent \ v$	ariable:	
			Redistribu	ition	
	(1)	(2)	(3)	(4)	(5)
Emotional Attachment to Germany	-0.031^{***} (0.010)	-0.032^{***} (0.011)	-0.032^{***} (0.011)	-0.032^{***} (0.011)	-0.029^{***} (0.011)
Total Household Income		-0.033^{***} (0.009)	-0.034^{***} (0.009)	-0.033^{***} (0.009)	-0.033^{***} (0.009)
Age		0.002* (0.001)	0.003^* (0.001)	0.003** (0.001)	0.003** (0.001)
Female		0.159*** (0.045)	0.144*** (0.045)	0.143*** (0.045)	0.130*** (0.045)
Member of Trade Union		0.159** (0.066)	0.161** (0.066)	0.155** (0.066)	0.155** (0.066)
Work Status: Unemployed		-0.008 (0.126)	-0.006 (0.126)	-0.014 (0.126)	-0.018 (0.126)
Work Status: Other		0.082 (0.051)	0.076 (0.051)	0.081 (0.051)	$0.079 \\ (0.051)$
Completed Secondary Education		-0.100^{**} (0.049)	-0.096^* (0.051)	-0.124^{**} (0.051)	-0.110^{**} (0.051)
Interpersonal Trust			0.030** (0.015)		0.021 (0.015)
Trust in Government			-0.046^{***} (0.015)		-0.051^{***} (0.015)
Trust in EU Government			0.038*** (0.013)		0.033** (0.013)
Immigrants enrich Culture				0.025** (0.011)	0.027** (0.011)
Anti-Immigration				0.107** (0.050)	0.101** (0.050)
Anti-Immigration, Non European				-0.104*** (0.039)	-0.096^{**} (0.039)
Intercept	4.082*** (0.081)	4.081*** (0.109)	3.937*** (0.125)	3.940*** (0.167)	3.852*** (0.178)
Observations R ²	1,967 0.005	1,967 0.035	1,967 0.042	1,967 0.043	1,967 0.049

Note:

*p<0.1; **p<0.05; ***p<0.01 Source data: £SS Round 9 (2018) published 17.02.2021, own calculations

-0.032***

- -0.032***
- -0.029***
- (0.010)
- (0.011)
- (0.011)
- (0.011)
- (0.011)

Total Household Income

- -0.033***
- -0.034***
- -0.033***
- -0.033***
- (0.009)
- (0.009)
- (0.009)
- (0.009)
- Age
- 0.002*
- 0.003*
- 0.003**
- 0.003**
- (0.001)
- (0.001)
- (0.001)
- (0.001)

Female

- 0.159***
- 0.144***
- 0.143***
- 0.130***
- (0.045)
- (0.045)
- (0.045)
- (0.045)

Member of Trade Union

0.159**
0.161**
0.155**
0.155**
(0.066)
(0.066)
(0.066)
(0.066)
Work Status: Unemployed
-0.008
-0.006
-0.014
-0.018
(0.126)
(0.126)
(0.126)
(0.126)
Work Status: Other
0.082
0.076
0.081
0.079
(0.051)
(0.051)
(0.051)
(0.051)
Completed Secondary Education
-0.100**
-0.096*
-0.124**
-0.110**
(0.049)
(0.051)
(0.051)
(0.051)

Interpersonal Trust

0.030**
0.021
(0.015)
(0.015)
Trust in Government
-0.046***
-0.051***
(0.015)
(0.015)
Trust in EU Government
0.038***
0.033**
(0.013)
(0.013)
Immigrants enrich Culture
0.025**
0.027**
(0.011)
(0.011)
Anti-Immigration
0.107**
0.101**
(0.050)
(0.050)
Anti-Immigration, Non Europea
-0.104***
-0.096**
(0.039)
(0.039)
Intercept
4.082***
4.081***
3.937***
3.940***
3.852***

(0.081)

```
(0.109)
(0.125)
(0.167)
(0.178)
Observations
1,967
1,967
1,967
1.967
1.967
R2
0.005
0.035
0.042
0.043
0.049
Note:
p<0.1; p<0.05; p<0.01
Source data: ESS Round 9 (2018), own calculations
```

Exporting Model

```
library(texreg)
setwd(results.dir)
htmlreg(list(bi_m1.lw, multi_econ_m1.lw, multi_econ_trust_m2.lw, multi_econ_immigration_m3.lw, multi_fu
        file = "johnston_replication_regression.doc",
        caption = "Johnston et. al. models plus full model",
        custom.note = "Source data: ESS Round 9 (2018), own calculations",
        custom.coef.names = c("Emotional Attachment to Germany",
                              "Total Household Income",
                              "Age",
                              "Female",
                              "Member of Trade Union",
                              "Work Status: Unemployed",
                              "Work Status: Other",
                              "Completed Secondary Education",
                              "Interpersonal Trust",
                              "Trust in Government",
                              "Trust in EU Government",
                              "Immigrants enrich Culture",
                              "Anti-Immigration",
                              "Anti-Immigration, Non European",
                              "Intercept"),
```

include.rmse = F,
include.adjrs = F)

Erklärung zur Prüfungsleistung

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Matrikelnummer: 6914831

Studiengang: Politikwissenschaft

Die am FB03 gültige Definition von Plagiaten ist mir vertraut und verständlich:

"Eine am FB03 eingereichte Arbeit wird als Plagiat identifiziert, wenn in ihr nachweislich fremdes geistiges Eigentum ohne Kennzeichnung verwendet wird und dadurch dessen Urheberschaft suggeriert oder behauptet wird. Das geistige Eigentum kann ganze Texte, Textteile, Formulierungen, Ideen, Argumente, Abbildungen, Tabellen oder Daten umfassen und muss als geistiges Eigentum der Urheberin/des Urhebers gekennzeichnet sein. Sofern eingereichte Arbeiten die Kennzeichnung vorsätzlich unterlassen, provozieren sie einen Irrtum bei denjenigen, welche die Arbeit bewerten und erfüllen somit den Tatbestand der Täuschung."

Ich versichere hiermit, dass ich die eingereichte Arbeit mit dem Titel Emotional Attachment to Germany and its Effect on the Support for Redistribution in Germany

nach den Regeln guter wissenschaftlicher Praxis angefertigt habe. Alle Stellen, die wörtlich oder sinngemäß aus Veröffentlichungen oder aus anderen fremden Mitteilungen entnommen wurden, sind als solche kenntlich gemacht. Die vorliegende Arbeit ist von mir selbständig und ohne Benutzung anderer als der angegebenen Quellen und Hilfsmittel verfasst worden. Ebenfalls versichere ich, dass diese Arbeit noch in keinem anderen Modul oder Studiengang als Prüfungsleistung vorgelegt wurde.

Mir ist bekannt, dass Plagiate auf Grundlage der Studien- und Prüfungsordnung im Prüfungsamt dokumentiert und vom Prüfungsausschuss sanktioniert werden. Diese Sanktionen können neben dem Nichtbestehen der Prüfungsleistung weitreichende Folgen bis hin zum Ausschluss von der Erbringung weiterer Prüfungsleistungen für mich haben.

M. Scharmanh

Franfkury, 15.08.2021

Ort, Datum, Unterschrift

Diese Erklärung ist der Prüfungsleistung als Anhang beizufügen.

Prüfungsleistungen ohne diese Erklärung werden nicht zur Bewertung angenommen.