Assignment 3 - Empirical Findings

What explains the recent electoral success of the Alternative for Germany?

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April 26, 2016

View(Data) # Introduction

Data and Variables

Data gathering

Data cleaning and merging
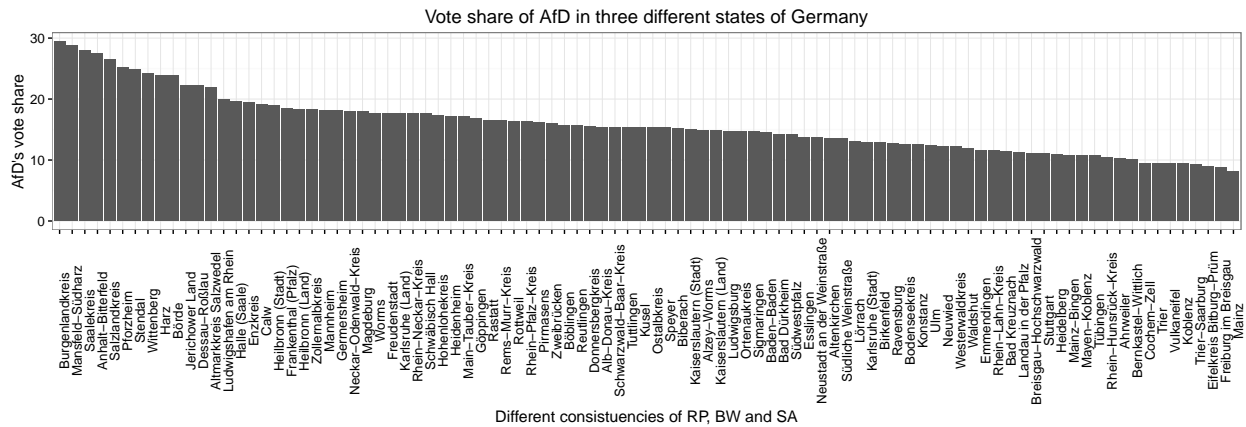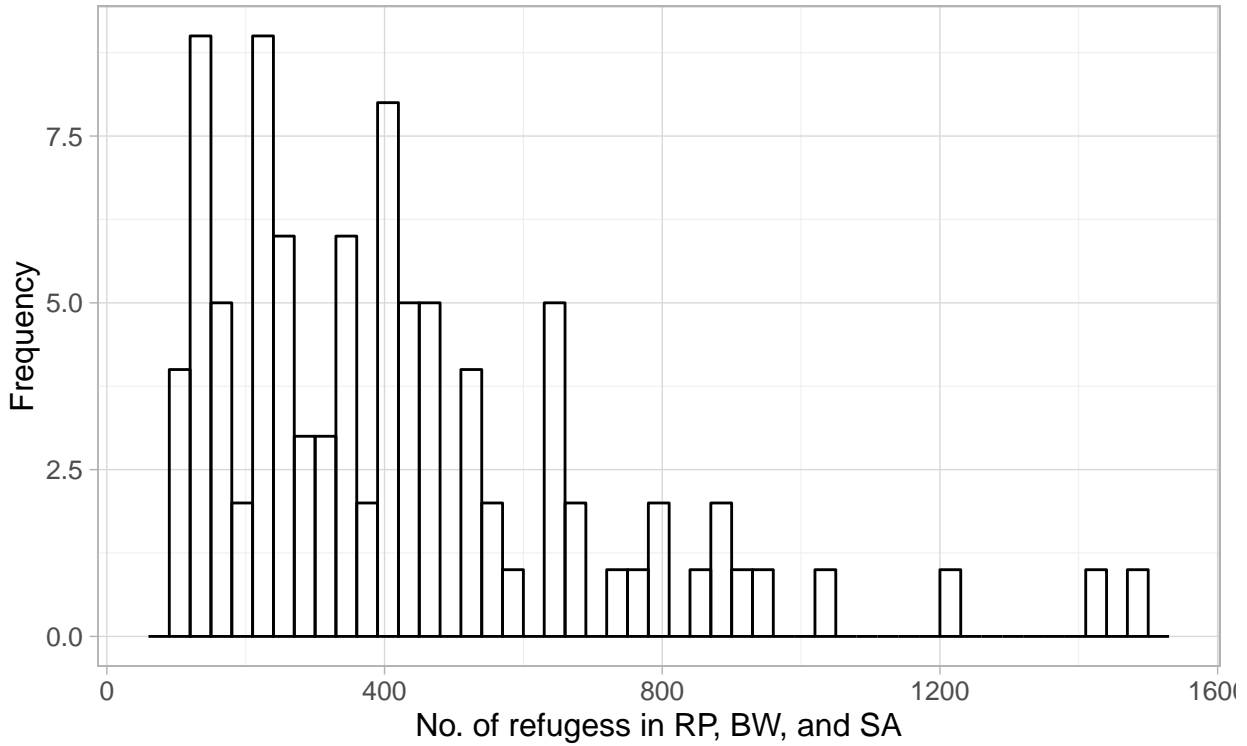
Empirical Findings

Descriptive Statistics

Summary Statistics

Please give a short description of this summary statistics!!!

Table 1: Summary statistics of all variables

Statistic	N	Mean	St. Dev.	Min	Max
Vote share of AfD	94	15.825	4.856	8.200	29.440
Vote turnout in 2011	94	61.587	6.176	47.060	73.400
Vote share of CDU in 2011	94	36.675	6.350	21.500	51.200
Vote share of Greens in 2011	94	17.303	8.288	2.830	43.000
Vote share of SPD in 2011	94	27.731	7.606	16.600	46.300
Vote share of FDP in 2011	94	4.107	1.987	0.090	8.400
Vote share of Linke in 2011	94	5.986	7.283	2.000	25.180
High school ratio	94	29.524	8.957	13.900	55.200
No high school degree	94	5.798	2.594	1.600	15.900
GDP per capita	94	31,543.490	10,577.930	14,998	70,052
Unemployment rate	94	6.246	3.032	2.900	15.100
No. of refugees	94	423.266	283.213	97	1,487

Vote share of AfD in three different states of Germany
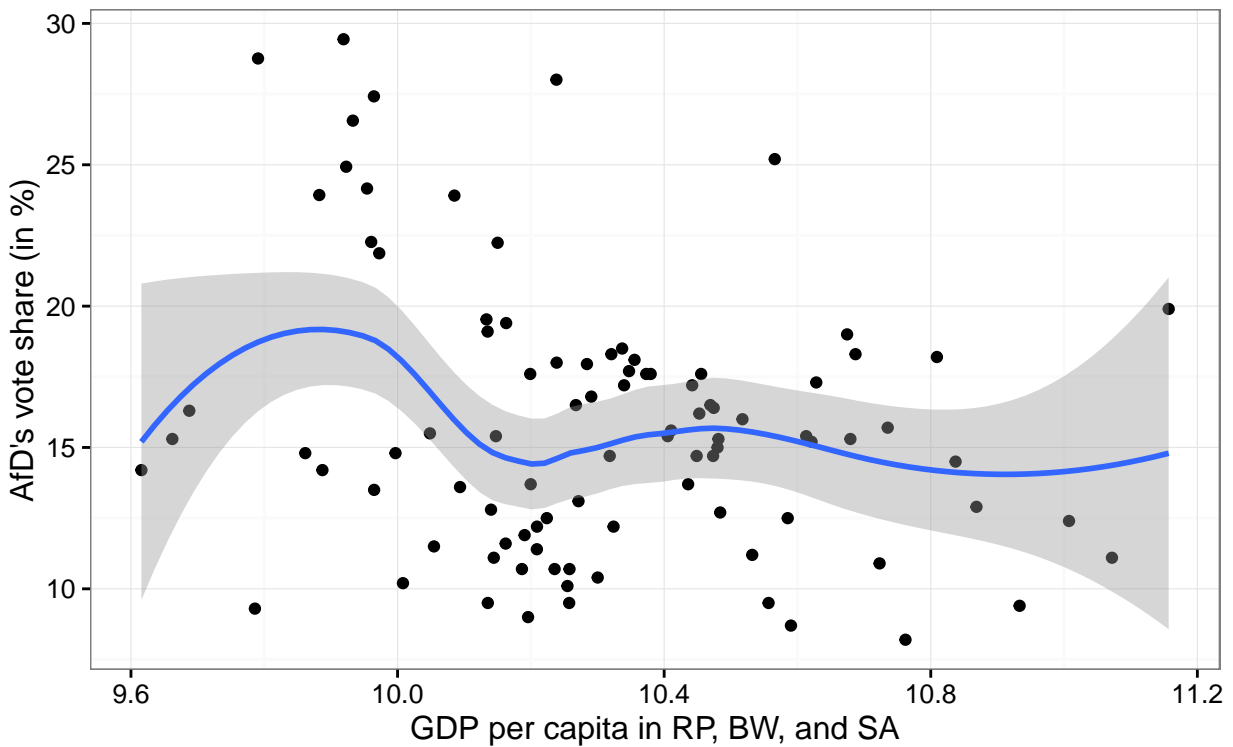
Correlations among variables

Please give a short description of this correlation matrix!!!

Table 2: Correlation Matrix of different variables

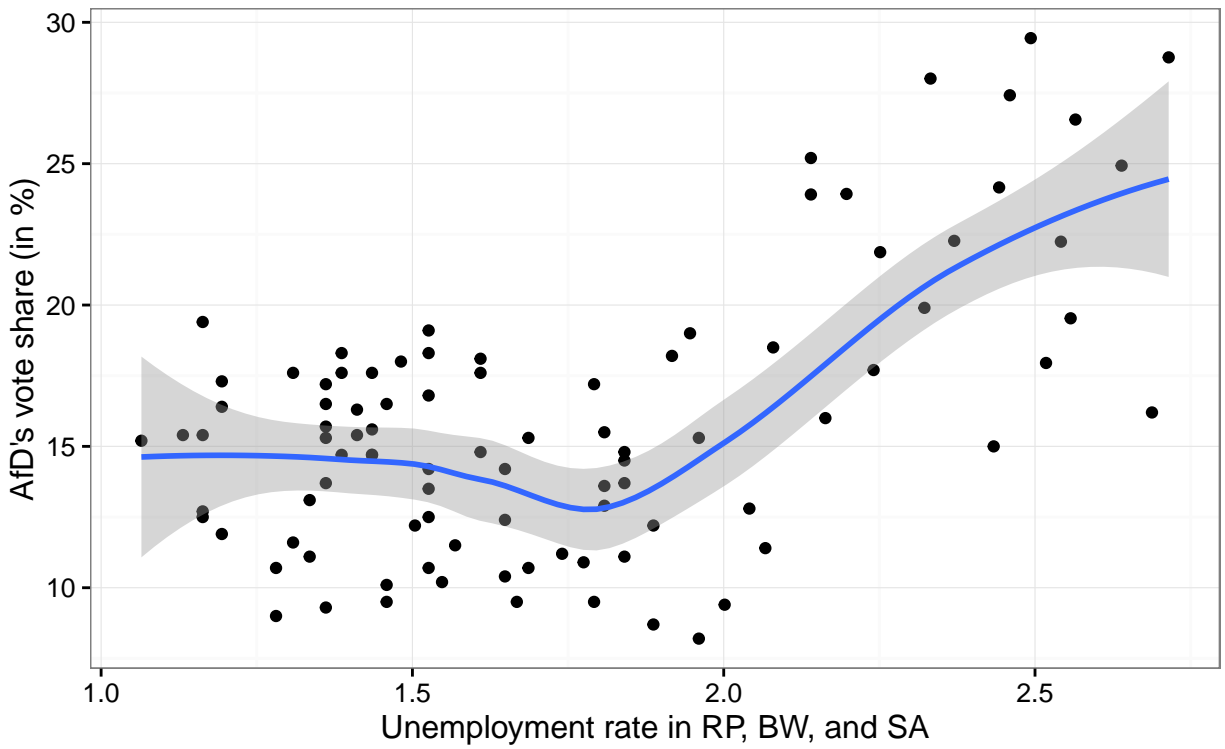|	vote.AfD	lag.CDU	lag.SPD	GDP.capita	unempl.rate	n.refugees	abitur.ratio
vote.AfD	1	-0.079	-0.337	-0.232	0.615	0.020	-0.298
lag.CDU	-0.079	1	-0.409	-0.019	-0.527	-0.037	-0.481
lag.SPD	-0.337	-0.409	1	-0.119	0.045	-0.400	0.227
GDP.capita	-0.232	-0.019	-0.119	1	-0.119	0.185	0.468
unempl.rate	0.615	-0.527	0.045	-0.119	1	-0.079	0.236
n.refugees	0.020	-0.037	-0.400	0.185	-0.079	1	-0.021
abitur.ratio	-0.298	-0.481	0.227	0.468	0.236	-0.021	1

Correlation of AfD's vote share and GDP per capita

The following figure shows statistically significant (the t value from the Pearson's product-moment correlation test is 6.27) positve correlation of increase in unemployment rate with the increase in AfD's vote share in those three states.
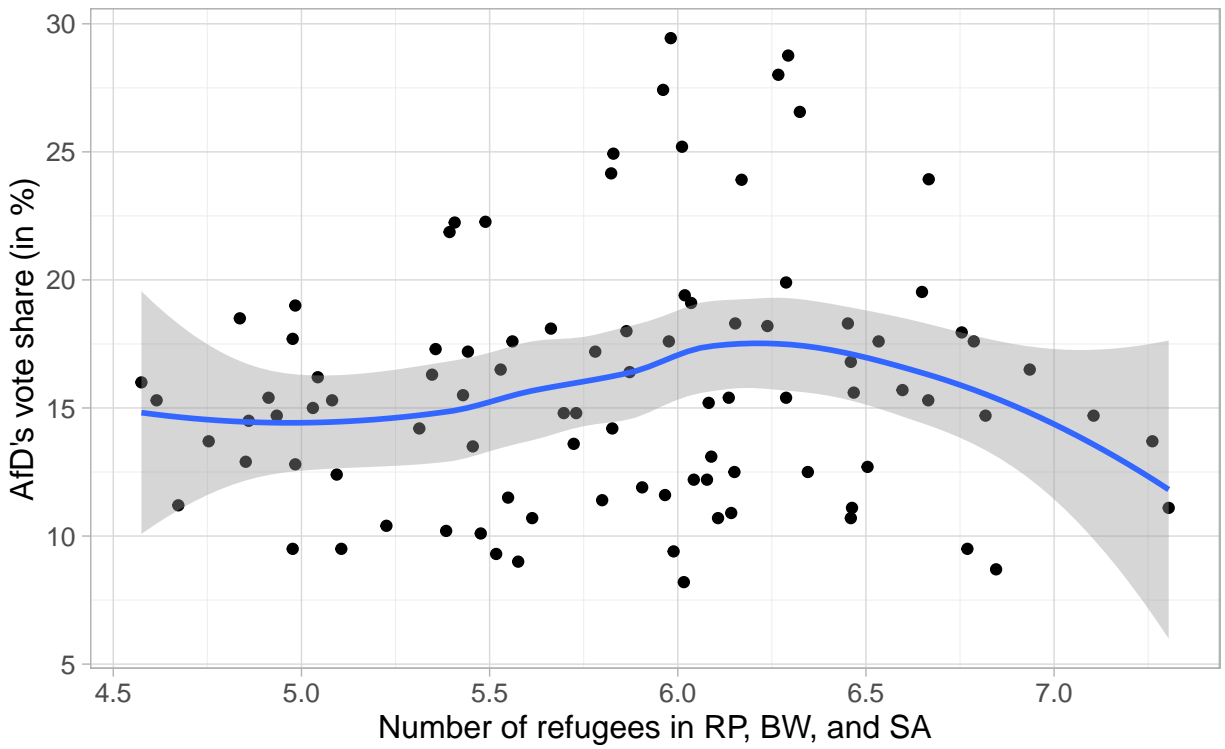
Correlation of AfD's vote share and unemployment rate

The following figure shows statistically significant (t value is -2.04) negative coorelation of increasing Per capita GDP with AfD's vote share. The

Correlation of AfD's vote share and number of refugees

The result though shows positive coorelation of increased number of refugees with with AfD's vote share, it is not statistically significant since the t value is .13 from the Pearson's product-moment correlation test.

Inferrential Statistics

Table 3: Determinants of vote for the Alternative for Germany

	Dependent variable:			
	Vote share of AfD			
	(1)	(2)	(3)	(4)
GDP per capita	−0.0001**	−0.0001**	0.00004	0.00001
	(0.00004)	(0.00003)	(0.00004)	(0.00004)
Unemployment rate	0.963***	0.682***	1.103***	0.973***
	(0.130)	(0.222)	(0.181)	(0.233)
No. of Refugees	0.002	0.001	0.001	−0.0003
	(0.001)	(0.001)	(0.001)	(0.001)
Vote share of CDU in 2011 election		0.091		−0.033
		(0.074)		(0.073)
Vote share of SPD in 2011 election		−0.205***		−0.201***
		(0.058)		(0.055)
High School Ratio		−0.241**		−0.136
		(0.105)		(0.099)
University Degree ratio			−0.267***	−0.224***
			(0.048)	(0.050)
(Intercept)			0.148	−0.118
			(0.208)	(0.203)
Constant	11.675***	30.800***	14.225***	32.175***
	(1.618)	(8.649)	(1.731)	(8.277)
District FE?	NO	NO	NO	NO
Observations	94	94	94	94
R^2	0.413	0.588	0.597	0.669
Adjusted R^2	0.394	0.560	0.574	0.638

Note: ∗p<0.1; ∗∗p<0.05; ∗∗∗p<0.01