

## PROJECT INFORMATION

### „Endgültiges Ergebnis des Volksentscheides über den Beschlussentwurf „Deutsche Wohnen & Co enteignen“ am 26. September 2021“

(Final result of the referendum on the draft resolution “Expropriate Deutsche Wohnen & Co” on September 26, 2021)

#### 1) DATA SOURCE

Election data provided and owned by the „Amt für Statistik Berlin Brandenburg“ which provides Information on all political elections (European, Federal, State, City level and Referendums) governmental data with high level of trustworthiness.

Open access.

[https://www.statistik-berlin-brandenburg.de/opendata/Berlin\\_VE21\\_W.csv](https://www.statistik-berlin-brandenburg.de/opendata/Berlin_VE21_W.csv)

Meta:

[https://download.statistik-berlin-brandenburg.de/c7d075c58e0cbcd2/b9bb77cf1a37/Berlin\\_VE21\\_Meta.pdf](https://download.statistik-berlin-brandenburg.de/c7d075c58e0cbcd2/b9bb77cf1a37/Berlin_VE21_Meta.pdf)

The Dataset contains information on Polling stations, Districts, different categories of electoral districts, whether the district belongs to West- or East Berlin, eligible voters, valid votes, invalid votes and results: yes/no

Why to chose this dataset:

- the dataset fullfills the requirements in terms of continuous, categorical and geographical variables.
- it has a sufficient but small size which makes it easy to understand and easy to handle.
- election data is a perfect application example for Data Analysis in other than commercial use.
- contentwise I am very interested in the whole subject of the referendum and I am close to the people who fought for it. It is scandalous that this successful referendum, despite a clear majority, has had no consequences so far.
- I am interested to look at it again in detail, 4 years after it happend, not from the perspective of an adressed citizen, but now from the perspective of an data analyst.

#### 2) Data Profile

Column Name: (abbreviations for better reading)	Stimmart	Adresse	BezNr	BezNa	WahlBez	BezArt	wahlBez	AGHWK	BTWK	OstWest	er	total	mber A1	mber A2	mber A3	TeilN	TeilN B1	Stimme	Stimme	Stimme	Ja	Nein
Data type:	object	object	int64	object	object	object	object	int64	int64	object	int64	int64	int64	int64	int64	int64	int64	int64	int64	int64	int64	int64
Duplicates:	No duplicates found																					
Missing values:	No missing Values																					
Value Count Voting district	no remarks																					
basic statistics:	min of 0 in 'stimm total', 'stimme ja' and 'stimme nein': it seems that there is one voting district listed which is not activ. no voters are registered																					

Details in jupyter notebookskript

There are no ethical concerns at the level of data or data collection. It is part of the nature of functioning democracies that election results are correctly recorded and stored.

The level of control and monitoring is very high.

Who has the right to participate in the election and whether there are certain biases is a question that can certainly be asked from a perspective other than that of data analysis.

### 3) QUESTIONS

- What are the majority ratios?
- How high is voter turnout?
- Are there certain patterns for the individual districts?

For instance:

- Do the outlying districts vote differently than the inner city districts?
- Are there voting patterns in the eastern and western parts of the city?
- which districts have the highest/lowest approval rating
- which districts have the highest/lowest voter turnout?