Package 'voteR'

April 24, 2018

```
Title Variety of Open Tools for Electoral Research
Version 0.0.0.9000
Description
     This package contains a variety of tools and datasets that can be used for electoral research.
Depends R (>= 3.4.1),
      ggplot2,
      plyr,
     tidyverse
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BugReports m.schliebs@zeppelin-university.net
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     magrittr,
      stringr,
      tidyr
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      'gles.R'
      'importFrom.R'
      'partycolors.R'
      'partynames.R'
      'polling.R'
      'plotting.R'
      'scrape_wahlrecht.R'
      'wahldata.R'
Suggests knitr,
     rmarkdown
```

VignetteBuilder knitr

R topics documented:

	bundestag_laenderebene	2
	distance_function	3
	gles_recode_partyvar	3
	intrakoadistanz	4
	koas	4
	koa_members	5
	koa_positions	5
	laenderbip	6
	landesregierungen	6
	landtagswahlen	7
	parties	7
	plot_poll	8
	sample_dirichlet	9
	sample_dirichlet_quantiles	9
	structural_modeldata	10
Index		12
bunde	estag_laenderebene	
	lala	

Description

Bundestag election results for the regional laender level 1949-2017

Usage

bundestag_laenderebene

Format

A data frame with 236 rows and 13 variables:

```
year election year
land regional level
date election date
... party vote share vector
wbt voter turnout
others other parties
level Level of Election (federal or regional)
```

distance_function 3

distance_function Calculate Distances

Description

Calculate Distances from different parties/koalitions

Usage

```
distance_function(data_in = "gles2017_out", who = "schwarzgelb",
  issue = "soz")
```

Value

The vector including all coalitions.

Examples

```
gles_recode_partyvar
gles_recode_partyvar
```

Description

Recode a multiparty-variable in GESIS-Datasets such as the GERMAN LONGITUDINAL ELECTION STUDY (GLES)

Usage

```
gles_recode_partyvar(year = 2017, dataset_input = "gles2017",
  dataset_output = "gles2017_out", varname = "q52", own = NULL,
  varlabel = "soz", key = c("a", "b", "c", "d", "e", "f", "g"),
  partynames = c("cdu", "csu", "spd", "linke", "gruene", "fdp", "afd"),
  NAs = "<0", plot = TRUE)</pre>
```

Arguments

year the GLES-study is from. Defaults to 2017.

 ${\tt dataset_input} \quad Character\ string\ of\ the\ name\ of\ a\ data frame\ containing\ the\ raw\ data.$

dataset_output Character string of the name the output data frame (may already exist or not).

varname Character string of the name of the original variable.

own May apply: Different variable name for own position (on left-right scales, e.g.)

varlabel Character string of the to-be-assigned variable label.

key Character vector containing original alphabetic party keys.

partynames Character vector containing shortname party keys.

NAs Numeric vector containing to-be-assigned NAs/Missing values.

plot Logical T/F: Show relative frequency barplots while plotting.

4 koas

Value

A data frame containing output dataframe including newly appended new-variables.

Examples

intrakoadistanz

Calculate Intra-Coalition Heterogeneity

Description

Calculate Intra-Coalition Heterogeneity from different parties/koalitions

Usage

```
intrakoadistanz(who = "schwarzgelb", issue = "lr", input = "gles2017_out",
    year = 2017)
```

Value

The vector including all coalitions.

Examples

koas

Get coalitions

Description

Get all available coalitions

Usage

```
koas(year = 2017)
```

Value

The vector including all coalitions.

```
koas(year = 2017)
```

koa_members 5

koa_members

Get coalition members

Description

Get parties that are member of a certrain coalition

Usage

```
koa_members(koalition)
```

Arguments

coalition

Character string containing the name of the coalition.

Options are c("jamaika", "schwarzgelb", "rotgruen", "groko", "rotrotgruen", "ampel", "schwarzgruen").

Value

A vector containing all parties included in the coalition.

Examples

```
koa_members("schwarzgelb")
```

koa_positions

Get coalition members

Description

Calculate mean koalition issue position and create new variables

Usage

```
koa_positions(data_in = "gles2017_out", coalition = "schwarzgelb",
  issue = "soz")
```

Arguments

data_in Character string containing the name the dataset.

coalition Character string containing the name of the coalition.

issue Character string containing the issue.

Value

The treated dataset.

6 landesregierungen

laenderbip

German regional GDP data

Description

German regional GDP data

Usage

laenderbip

Format

A data frame with 27 rows and 18 variables:

year regional level

- ... name of the bundesland
- d Germany total sum

landesregierungen

German regional government cabinets for the whole post-war period

Description

German regional government cabinets for the whole post-war period

Usage

landesregierungen

Format

A data frame with 325 rows and 11 variables:

land regional level

cabinet name of the respective cabinet

years years cabinet was in office

dates specific dates cabinet was in office

parties parties forming the coalition

primeminister name of the government leader

party_x name of the forming parties

start year in which gov't started

end year in which it ended

landtagswahlen 7

landtagswahlen

German "Landtagswahlen" election results for the regional laender level 1946-2018

Description

German "Landtagswahlen" election results for the regional laender level 1946-2018

Usage

landtagswahlen

Format

A data frame with 233 rows and 13 variables:

year election year

land regional level

date election date

... party vote share vector

wbt voter turnout

others other parties

level Level of Election (federal or regional)

parties

Get parties

Description

Get main parties for Gles analysis

Usage

```
parties(year = 2017)
```

Value

The vector including all parties

```
parties(year = 2017)
```

plot_poll

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Plot a multiparty poll

Description

•••

Usage

```
plot_poll(vote = c(cdu = 0.33, spd = 0.2, fdp = 0.11, linke = 0.09, gruene = 0.09, afd = 0.12, sonstige = 0.05), order = "alphabetical", sample_confidence_bounds = TRUE, sample_n = 1000, n_draw = 10000, show_quantiles = c(0.05, 0.95), round = 1, xlab = "Party", ylab = "Voteshare", title = "Title", subtitle = "Subtitle", caption = "Caption", theme_ipsum = FALSE, grid = "Y")
```

Arguments

vote A labeled party vote share vector.

order Method to order parties (Default is "alphabetical"; also takes "descending" and

"ascending" as well as manual specification of party vector)

sample_confidence_bounds

Logical T/F: add empirical dirichlet quantiles

sample_n The number of observations in the poll sample.

n_draw How many samples to draw from the dirichlet distribution. show_quantiles Vector of quantiles/confidence boundaries to calculate.

_ _ _ _ _ _

round Round to k decimals after comma

xlab x-label string
ylab y-label string
title title string
subtitle subtitle string
caption caption string

theme_ipsum Pre-applies nice theme from the hrbrthemes-package.(Attention: possible font-

issues when Roboto font is not installed on your computer.)

grid (Applies only if theme_ipsum == T) Add a grid (options: "none","Y")

Value

A data frame containing n rows of samples for each party.

Warning

Do not operate heavy machinery within 8 hours of using this function.

```
sample\_dirichlet\_quantiles(vote = c(cdu = 0.33,....
```

sample_dirichlet 9

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Dirichlet-sample of a multinomial election poll

Description

Calculate a dirichlet-sample of a multinomial election poll

Usage

```
sample_dirichlet(vote = c(cdu = 0.5, spd = 0.4, fdp = 0.1), sample_n = 1000, n_draw = 10000)
```

Arguments

vote A labeled party vote share vector.

sample_n The number of observations in the poll sample.

n_draw How many samples to draw from the dirichlet distribution.

Value

A data frame containing n rows of samples for each party.

Warning

Do not operate heavy machinery within 8 hours of using this function.

Examples

```
sample_dirichlet_quantiles
```

Empirical Dirichlet Quantiles from Multinomial Election Poll

Description

Calculate empirical quantiles from a sample created by sample_dirichlet of a multinomial election poll

10 structural_modeldata

Usage

```
sample_dirichlet_quantiles(vote = c(cdu = 0.5, spd = 0.4, fdp = 0.1),
  sample_n = 1000, n_draw = 10000, show_mean = TRUE,
  show_quantiles = c(0.05, 0.95), round = 2)
```

Arguments

vote A labeled party vote share vector.

sample_n The number of observations in the poll sample.

n_draw How many samples to draw from the dirichlet distribution.

show_mean Logical T/F: Show sample mean.

show_quantiles Vector of quantiles/confidence boundaries to calculate.

round Logical T/F Round Results to k decimal digits.

Value

A data frame containing n rows of samples for each party.

Warning

Do not operate heavy machinery within 8 hours of using this function.

Examples

Description

Input Data for structural model

Usage

```
structural_modeldata
```

structural_modeldata 11

Format

A data frame with 1864 rows and 25 variables:

year election year

land regional level

date election date

wbt voter turnout

party party name

vote vote share

partytype classification in spd/union/small and others

lag_ltw one-period lag of landtagswahl result

lag_btw one-period lag of bundestagswahl result (of that party in that state)

date_btw date of the last bundestagswahl

cabinet name of the cabinet

primeminister_name name of the incumbent prime minister

party_x 1st to 3rd party listing coalition members (1st party is party of PM)

start year that the incumbent government was formed

end year it was replaced

primeminister Logical T/F if party is holding incumbency of PM

gov Logical T/F if party is incumbent coalition member

juniorpartner T/F if party is junior partner (gov but not PM)

bip absolute bip in billion €

bipchange change in bip in the last 2 years prior to the election

firsttime Logical T/F if party is firsttime contender

distance_btw_lag distance to last Bundestagswahl in days

others other parties

Index

```
*Topic datasets
    bundestag_laenderebene, 2
    laenderbip, 6
    landesregierungen, 6
    landtagswahlen, 7
    \verb|structural_modeldata|, 10
\verb|bundestag_laenderebene|, 2|
{\tt distance\_function}, 3
gles\_recode\_partyvar, 3
intrakoadistanz, 4
koa_members, 5
koa_positions, 5
koas, 4
laenderbip, 6
landesregierungen, 6
landtagswahlen, 7
parties, 7
plot_poll, 8
sample\_dirichlet, 9, 9
sample_dirichlet_quantiles, 9
structural_modeldata, 10
```