Package 'voteR'

March 7, 2018

```
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     tidyverse
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     'gles.R'
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     'partycolors.R'
     'partynames.R'
     'polling.R'
     'plotting.R'
Suggests knitr,
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R topics documented:
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distance_function

Calculate Distances

Description

Calculate Distances from different parties/koalitions

Usage

Index

```
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>
```

intrakoadistanz 3

Arguments

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

dataset_input Character string of the name of a dataframe 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.

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")
```

Value

The vector including all coalitions.

koa_members

koas

Get coalitions

Description

Get all available coalitions

Usage

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

Value

The vector including all coalitions.

Examples

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

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.

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

koa_positions 5

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.

Examples

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

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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 7

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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

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.

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