# Package 'voteR'

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Title Variety of Open Tools for Electoral Research
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<b>Description</b> This package does this and that vfb stuttgart lalala
Depends R (>= 3.4.1), ggplot2, plyr, tidyverse
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Encoding UTF-8
<pre>URL https://www.prognosophie.de</pre>
BugReports https://www.prognosophie.de/impressum
LazyData true
Imports dplyr, ggplot2, gtools, hrbrthemes, magrittr, stringr, tidyr
RoxygenNote 6.0.1
Collate 'create_manual.R'     'gles.R'     'importFrom.R'     'partycolors.R'     'partynames.R'     'polling.R'     'plotting.R'
Suggests knitr, rmarkdown
VignetteBuilder knitr
R topics documented:
distance_function

2 gles\_recode\_partyvar

koas														
koa_members														
koa_positions														
plot_poll														
sample_dirichlet														
sample_dirichlet_quantiles														

8

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
```

# 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>
```

koas 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**

koas Get coalitions

# **Description**

Get all available coalitions

# Usage

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

# Value

The vector including all coalitions.

## **Examples**

koas()

koa\_positions

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.

# **Examples**

plot\_poll 5

plot_poll	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.

#### **Examples**

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

sample\_dirichlet

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.

Logical T/F Round Results to k decimal digits.

# Value

round

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**

# **Index**

```
distance_function, 2
gles_recode_partyvar, 2
koa_members, 4
koa_positions, 4
koas, 3
plot_poll, 5
sample_dirichlet, 6, 6
sample_dirichlet_quantiles, 6
```