Package 'voteR'

December 18, 2017

Title Variety of Open Tools for Electoral Research

Version 0.0.0.9000

Description This package does this and that vfb stuttgart lalala

Depends R (>= 3.4.1),
ggplot2

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Encoding UTF-8

URL https://www.prognosophie.de

BugReports https://www.prognosophie.de/impressum

LazyData true

Imports dplyr,
ggplot2,
gtools,
hrbrthemes,
magrittr,
stringr,
tidyr

RoxygenNote 6.0.1

Collate 'create_manual.R'
'importFrom.R'
'partynames.R'
'polling.R'
'zplotting.R'

Suggests knitr,
rmarkdown

VignetteBuilder knitr

R topics documented:

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(vote = c(cdu = 0.33,
                          spd = 0.20,
                          fdp = 0.11,
                          linke = 0.09,
                          gruene = 0.09,
                          afd = 0.12,
                          sonstige = 0.05),
                 sample_n = 1000,
                 n_draw = 10000)
```

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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(0.1, 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

```
sample_dirichlet_quantiles(vote = c(cdu = 0.33,
                          spd = 0.20,
                          fdp = 0.11,
                          linke = 0.09,
                          gruene = 0.09,
                          afd = 0.12,
                          sonstige = 0.05),
                  sample_n = 1000,
                  n_draw = 10000,
                  show_mean = TRUE,
                  show_quantiles = c(0.05,0.95))
```

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