

Package ‘voteogram’

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Type Package

Title United States House and Senate Voting Cartogram Generators

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Description 'ProPublica' <<https://projects.propublica.org/represent/>> makes United States Congress member votes available and has developed their own unique cartogram to visually represent this data. Tools are provided to retrieve voting data, prepare voting data for plotting with 'ggplot2', create vote cartograms and theme them.

URL <https://github.com/hrbrmstr/voteogram>

BugReports <https://github.com/hrbrmstr/voteogram/issues>

Encoding UTF-8

License AGPL

Suggests testthat, covr, knitr, rmarkdown

Depends R (>= 3.2.0)

Imports ggplot2, dplyr, scales, jsonlite, utils

RoxygenNote 6.0.1.9000

VignetteBuilder knitr

NeedsCompilation no

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fortify.pprc	<i>Fortify a <code>roll_call()</code> (pprc) object</i>
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Description

Fortify a `roll_call()` (pprc) object

Usage

```
## S3 method for class 'pprc'
fortify(model, data)
```

Arguments

model	a <code>roll_call()</code> (pprc) object
data	unused

house_carto	<i>Produce a ProPublica- or GovTrack-style House roll call vote cartogram</i>
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Description

Produce a ProPublica- or GovTrack-style House roll call vote cartogram

Usage

```
house_carto(vote_tally, style = c("pp", "gt", "propublica", "govtrack"),
  pp_square = FALSE)
```

Arguments

vote_tally	either a pprc object (the result of a call to <code>roll_call()</code>) or a data.frame of vote tallies for the house It expects 3 columns. <code>state_abbrev</code> : the 2-letter U.S. state abbreviation; <code>district</code> : either 1 or 2 to distinguish between each representative; <code>party</code> : R, D or ID; <code>position</code> : yes, no, present, none for how the representative voted.
style	either ProPublica-ish (pp or propublica) or GovTrack-ish (gt or govtrack)
pp_square	if TRUE then no "state borders" will be drawn, but distinct Representative squares. If FALSE then the cartogram will be very close to the ProPublica cartograms.

Value

a ggplot2 object that you can further customize with scales, labels, etc.

Note

No "theming" is applied to the returned ggplot2 object. You can use `theme_voteogram()` if you need a base theme. Also, GovTrack-style cartograms will have `coord_equal()` applied by default.

Examples

```
## Not run:
# what you'd normally do
rep <- roll_call("house", 115, 1, 256)

## End(Not run)

# using a saved object
rep <- readRDS(system.file("extdata", "rep.rds", package="voteogram"))

house_carto(rep, pp_square=TRUE)
```

print.pprc

Better default print function for `roll_call()` (pprc) objects

Description

Better default print function for `roll_call()` (pprc) objects

Usage

```
## S3 method for class 'pprc'
print(x, ...)
```

Arguments

x	a <code>roll_call()</code> (pprc) object
...	ignored

roll_call	<i>Get Voting Record for House or Senate By Number, Session & Roll Call Number</i>
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Description

Get Voting Record for House or Senate By Number, Session & Roll Call Number

Usage

```
roll_call(critter = c("house", "senate"), number, session = c(1L, 2L),
          rcall)
```

Arguments

critter	one of 'house' or 'senate'
number	valid congress number. ProPublica seems to have data going back to the 101st Congress, so valid values are '101'-present Congress number ('115' as of the creation date of the package).
session	a valid session numbner (i.e. '1' or '2' and valid for current year)
rcall	roll call vote number

Value

a 'list', one component of which is a 'votes' 'data.frame'

Note

Try to cache this data if at all possible. ProPublica is a non-profit organization and this data comes from their Amazon S3 buckets. Every access in a given month ticks down the "free" counter.

Examples

```
## Not run:
# these make API calls so they aren't run in the examples
rep <- roll_call("house", 115, 1, 256)
sen <- roll_call("senate", 115, 1, 110)

## End(Not run)
```

senate_carto	<i>Produce a Senate cartogram</i>
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Description

Produce a Senate cartogram

Usage

```
senate_carto(vote_tally)
```

Arguments

`vote_tally` either a pprc object (the result of a call to `roll_call()`) or a data.frame of vote tallies for the senate. It expects 3 columns. `state_abbrev` : the 2-letter U.S. state abbreviation; `district` : either 1 or 2 to distinguish between each senator; `party` : R, D or ID; `position` : yes, no, present, none for how the senator voted.

Value

a ggplot2 object that you can further customize with scales, labels, etc.

Note

No "theming" is applied to the returned ggplot2 object. You can use `theme_voteogram()` if you need a base theme.

Examples

```
## Not run:  
# what you'd normally do  
sen <- roll_call("senate", 115, 1, 110)  
  
## End(Not run)  
  
# Using a saved object  
sen <- readRDS(system.file("extdata", "sen.rds", package="voteogram"))  
  
senate_carto(sen)
```

theme_voteogram	<i>voteogram ggplot2 theme</i>
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Description

Provides a very basic theme with no background, grid, axis text or axis ticks and an easy way to turn the legend on or off.

Usage

```
theme_voteogram(legend = TRUE)
```

Arguments

legend if 'FALSE' no legend is shown

Examples

```
## Not run:  
# what you'd normally do  
sen <- roll_call("senate", 115, 1, 110)  
  
## End(Not run)  
  
# using a saved object  
sen <- readRDS(system.file("extdata", "sen.rds", package="voteogram"))  
  
senate_carto(sen) +  
  theme_voteogram()
```

voteogram	<i>U.S. House and Senate Voting Cartogram Generators</i>
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Description

ProPublica' <<https://projects.propublica.org/represent/>> makes United States Congress member votes available and has developed their own unique cartogram to visually represent this data. Tools are provided to retrieve voting data, prepare voting data for plotting with 'ggplot2', create vote cartograms and theme them.

Author(s)

Bob Rudis (bob@rud.is)

voteogram-colors *voteogram manual scale colors*

Description

Manual color scales fill and color scale values (in the event you need to use them) outside the main plotting functions.

Usage

vote_carto_fill

vote_carto_color

Format

An object of class character of length 13.

voteogram-exports *voteogram exported operators*

Description

The following functions are imported and then re-exported from the voteogram package to enable use of the magrittr pipe operator with no additional library calls

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