Package ‘tabularmaps’

October 14, 2022

Title Create Tile-Grid Geographical Maps

Version 0.1.0

Description The ‘tabularmap’ is one of the visualization methods for efficiently displaying data consisting of multiple elements by tiling them. When dealing with geospatial, it corrects for differences in visibility between areas.

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URL https://github.com/uribo/tabularmaps

BugReports https://github.com/uribo/tabularmaps/issues

Depends R (>= 3.3.0)

Imports ggforce (>= 0.3.2), ggplot2 (>= 3.3.0), purrr (>= 0.3.4), rlang (>= 0.4.7)

Suggests countrycode, zipangu, knitr, rmarkdown, testthat (>= 2.1.0)

Encoding UTF-8

LazyData true

RoxygenNote 7.1.1

VignetteBuilder knitr

NeedsCompilation no

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**Description**

A data frame include ISO-3166 codes.

**Usage**

iso3166

**Format**

A data frame with 250 rows 8 variables:

- country_name:
- continent:
- region:
- iso2c:
- iso3c:
- iso3n: 3 digits number (as character)
- x: Coordinates for displaying as tabularmap
- y: Coordinates for displaying as tabularmap

**Description**

Prefectures dataset.

**Usage**

jpn77
Format

A data frame with 47 rows 8 variables:

- jis_code: jis code
- prefecture: prefecture names
- region: region
- major_island:
- prefecture_kanji:
- region_kanji:
- x: Coordinates for displaying as tabularmap
- y: Coordinates for displaying as tabularmap

scale_fill_jpregion  Coloring the tabularmaps by region in Japan

Description

Custom ggplot2 scale for tabularmap.

Usage

scale_fill_jpregion(lang, ...)

Arguments

lang  Select whether the region variable is Japanese (jp) or English (en).
...  all other arguments passed on to ggplot2::scale_fill_manual()

tabularmap  Create Tile-Grid

Description

A ggplot2-based tabularmap that places a coordinated dataset in a rectangle.
Usage

```r
tabularmap(
  data,
  x,
  y,
  group,
  fill = NULL,
  label = NULL,
  ..., .expand_size = 10, .radius_size = 2
)
```

Arguments

- `data` data.frame. Contain x, y, group and label variables used as coordinates.
- `x`, `y` A column containing the numbers to line up the items.
- `group` Group variable.
- `fill` Fill colour variable.
- `label` Label variable.
- `...` All other arguments passed on to `ggplot2::geom_text()` include label family.
- `.expand_size` The value specified in the `expand` argument of `ggforce::geom_shape()`. The unit is in mm.
- `.radius_size` The value specified in the `radius` argument of `ggforce::geom_shape()`. The unit is in pt.

Examples

```r
library(ggplot2)
tabularmap(jpn77, x, y, group = jis_code, label = prefecture, size = 3)
tabularmap(jpn77, x, y, group = jis_code, fill = region, label = prefecture, size = 3) +
  theme_tabularmap() +
  scale_fill_jpregion(lang = "en")
tabularmap(data.frame(
  id = letters[seq.int(9)],
  x = rep(c(1,2,3), each = 3),
  y = rep(c(1,2,3), times = 3),
  fill = seq.int(9),
  label = letters[seq.int(9)])
  , x, y,
  group = id,
  fill = fill,
  label = label,
  .expand_size = 20, .radius_size = 10)
tabularmap(iso3166, x, y, group = iso2c,
  fill = continent,
  label = iso2c,
  .expand_size = 5) +
```

**theme_tabularmap**

theme_tabularmap() +
guides(fill = FALSE)

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**tabularmap theme**

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**Description**

Custom ggplot2 theme for tabulamap.

**Usage**

theme_tabularmap(...)  

**Arguments**

...  

all other arguments passed on to ggplot2::theme_minimal()

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**tky23**  

Special wards of Tokyo

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**Description**

Tokyo 23 wards dataset.

**Usage**

tky23  

**Format**

A data frame with 23 rows 5 variables:

- no: Identificational number
- ward: Name
- ward_kanji: Names in Kanji
- x, y: Coordinates for displaying as tabularmap
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