

# Package ‘tabularmaps’

August 4, 2020

**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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**Repository** CRAN

**Date/Publication** 2020-08-04 09:00:02 UTC

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iso3166	<i>Country list</i>
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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

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jpn77	<i>Japan 7x7 grid dataset</i>
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**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

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scale\_fill\_jpreigion     *Coloring the tabularmaps by region in Japan*

---

**Description**

Custom ggplot2 scale for tabulamap.

**Usage**

```
scale_fill_jpreigion(lang, ...)
```

**Arguments**

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

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tabularmap     *Create Tile-Grid*

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**Description**

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

**Usage**

```

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

```

**Arguments**

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

**Examples**

```

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_jpreigion(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() +  
guides(fill = FALSE)
```

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theme\_tabularmap      *Tabularmap theme*

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### Description

Custom ggplot2 theme for tabularmap.

### 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: Identical number
- ward: Name
- ward\_kanji: Names in Kanji
- x, y: Coordinates for displaying as tabularmap

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