Package: hchinamap (via r-universe)

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Type Package

Title Mapping China and Its Provinces

Version 0.1.0

Description By binding R functions and the 'Highmaps' <https://www.highcharts.com.cn/products/highmaps> chart library, 'hchinamap' package provides a simple way to map China and its provinces. The map of China drawn by this package contains complete Chinese territory, especially the Nine-dotted line, South Tibet, Hong Kong, Macao and Taiwan.

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Encoding UTF-8

Date 2019-08-18

URL https://github.com/czxa/hchinamap

BugReports https://github.com/czxa/hchinamap/issues

LazyData true

RoxygenNote 6.1.1

Depends R (>= 3.0.0)

Suggests knitr, rmarkdown, magrittr, dplyr, shiny, colourpicker

VignetteBuilder knitr

Imports htmlwidgets

NeedsCompilation no

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Repository https://r-stata.r-universe.dev

RemoteUrl https://github.com/cran/hchinamap

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Contents

`hchinamap` *'hchinamap': Mapping China and Its Provinces, Municipalities and Autonomous Regions using R and 'Highmaps'*

Description

By binding R functions and the 'Highmaps' <https://www.highcharts.com.cn/products/highmaps> chart library,'hchinamap' package provides a simple way to map China and its provinces. The map of China drawn by this package contains complete Chinese territory, especially the Nine-dotted line, South Tibet, Hong Kong, Macao and Taiwan.

Usage

```
hchinamap(name, value, region = "China", width = NULL, height = NULL,
  elementId = NULL, itermName = "Random data", title = "",
  titleAlign = "center", titleSize = "20px", titleColor = "#333333",
  subtitle = "", subtitleAlign = "center", subtitleSize = "",
  subtitleColor = "#666666", min = 0, minColor = "rgb(255,255,255)",
  maxColor = "#006cee", legendLayout = "horizontal",
  legendAlign = "center", legendTitle = "",
  legendVerticalAlign = "bottom", hoverColor = "#a4edba",
  theme = "sunset")
```

Arguments

`name`	Chinese name vector of provinces or prefecture-level cities in China.
`value`	Value vector;
`region`	Region name in English, Such as "China", "Anhui" ...;
`width`	Chart width;
`height`	Chart height;
`elementId`	NULL
`itermName`	Data attributes in tooltip;
`title`	Chart title;
`titleAlign`	The horizontal position of the title, such as "center";
`titleSize`	The size of the title, such as "20px";
`titleColor`	The color of the title, such as "#3333";
`subtitle`	Subtitle of chart;

subtitleAlign	The horizontal position of subtitles, such as "center";
subtitleSize	The size of the subtitle, such as "16px";
subtitleColor	The color of the subtitle, such as "#666666";
min	The minimum value of legend, 0 by default.
minColor	The color corresponding to the minimum of the legend, such as "white";
maxColor	The color corresponding to the maximum value of the legend, such as "#006cee";
legendLayout	Legend, horizontal or vertical;
legendAlign	Horizontal position of legend, center/left/right;
legendTitle	The title of the legend;
legendVerticalAlign	The vertical position of legends, top/center/bottom;
hoverColor	The color of the area when the mouse is hovering.
theme	Chart theme, you can choose one from: darkgreen/darkblue/avocado/darkunica/gray/gridlight/grid/sandsignika/sunset;

Note

Because the map data of Taiwan have not been collated yet, it is impossible to draw provincial map of Taiwan Province for the time being.

Examples

```
library(hchinamap)
library(dplyr)
library(magrittr)
dir <- tempdir()
download.file('https://czxb.github.io/br/chinadf.rda', file.path(dir, 'chinadf.rda'))
load(file.path(dir, 'chinadf.rda'), verbose = TRUE)
china <- chinadf %>%
  dplyr::filter(region == "China")
if(interactive()) {
   hchinamap(name = china$name, value = china$value, region = "China")
}
```

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hchinamap-shiny *Shiny bindings for hchinamap*

Description

Output and render functions for using hchinamap within Shiny applications and interactive Rmd documents.

Usage

```
hchinamapOutput(outputId, width = "100%", height = "400px")

renderHchinamap(expr, env = parent.frame(), quoted = FALSE)
```

Arguments

outputId	output variable to read from
width, height	Must be a valid CSS unit (like '100%', '400px', 'auto') or a number, which will be coerced to a string and have 'px' appended.
expr	An expression that generates a hchinamap
env	The environment in which to evaluate expr.
quoted	Is expr a quoted expression (with quote())? This is useful if you want to save an expression in a variable.

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