

Package ‘hchinamap’

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Type Package

Title Mapping China and Its Provinces

Version 0.1.0

Description By binding R functions and the 'High-maps' <<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

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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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hchinamap	<i>'hchinamap': Mapping China and Its Provinces, Municipalities and Autonomous Regions using R and 'Highmaps'</i>
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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 = "#0066cc", 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")
}
```

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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