

# Package ‘highcharter’

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**Type** Package

**Version** 0.5.0

**Title** A Wrapper for the 'Highcharts' Library

**Description** A wrapper for the 'Highcharts' library including shortcut functions to plot R objects. 'Highcharts' <<http://www.highcharts.com/>> is a charting library offering numerous chart types with a simple configuration syntax.

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**URL** <http://jkunst.com/highcharter>

**BugReports** <https://github.com/jbkunst/highcharter/issues>

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**License** MIT + file LICENSE

**RoxygenNote** 5.0.1

**Depends** R (>= 2.10)

**Imports** htmlwidgets, magrittr, purrr, rlist, assertthat, zoo, dplyr, tibble (>= 1.1), stringr, broom, xts, quantmod, tidyr, htmltools, jsonlite, igraph, lubridate

**Suggests** knitr, rmarkdown, survival, ggplot2, httr, viridisLite

**VignetteBuilder** knitr

**LazyData** true

**NeedsCompilation** no

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---

citytemp	<i>City temperatures from a year</i>
----------	--------------------------------------

---

**Description**

This data comes from the [http://www.highcharts.com/](http://www.highcharts.com/examples) examples.

**Usage**

citytemp

**Format**

A data frame with 12 observations and 5 variables.

**Variables**

- month: The months.
- tokyo: Tokyo's temperatures.
- new\_york: New york's temperatures.
- berlin: Berlin's temperatures.
- london: Londo's temperatures.

---

colorize	<i>Create vector of color from vector</i>
----------	---

---

**Description**

Create vector of color from vector

**Usage**

```
colorize(x, colors = c("#440154", "#21908C", "#FDE725"))
```

**Arguments**

x	A numeric, character or factor object.
colors	A character string of colors (ordered) to colorize x

**Examples**

```
colorize(runif(10))
colorize(LETTERS[rbinom(20, 5, 0.5)], c("#FF0000", "#00FFFF"))
```

---

color_classes	<i>Function to create dataClasses argument in hc_colorAxis</i>
---------------	--

---

**Description**

Function to create dataClasses argument in hc\_colorAxis

**Usage**

```
color_classes(breaks = NULL, colors = c("#440154", "#21908C", "#FDE725"))
```

**Arguments**

breaks            A numeric vector  
 colors            A character string of colors (ordered)

**Examples**

```
color_classes(c(0, 10, 20, 50))
```

---

color\_stops            *Function to create stops argument in hc\_colorAxis*

---

**Description**

Function to create stops argument in hc\_colorAxis

**Usage**

```
color_stops(n = 10, colors = c("#440154", "#21908C", "#FDE725"))
```

**Arguments**

n                    A numeric indicating how much quantiles generate.  
 colors            A character string of colors (ordered)

**Examples**

```
color_stops(5)
```

---

create\_yaxis            *Creating multiples yAxis for add a highcharts*

---

**Description**

Creating multiples yAxis for add a highcharts

**Usage**

```
create_yaxis(naxis = 2, heights = 1, sep = 0.01, offset = 0,  

  turnopposite = TRUE, ...)
```

**Arguments**

naxis	Number of axis an integer.
heights	A numeric vector. This values will be normalized.
sep	A numeric value for the separation (in percentage) for the panes.
offset	A numeric value (in percentage).
turnopposite	A logical value to turn the side of each axis or not.
...	Arguments defined in <a href="http://api.highcharts.com/highcharts#yAxis">http://api.highcharts.com/highcharts#yAxis</a> .

**Examples**

```
highchart() %>%
  hc_yAxis_multiples(create_yaxis(naxis = 2, heights = c(2, 1))) %>%
  hc_add_series(data = c(1,3,2), yAxis = 0) %>%
  hc_add_series(data = c(20, 40, 10), yAxis = 1)

highchart() %>%
  hc_yAxis_multiples(create_yaxis(naxis = 3, lineWidth = 2, title = list(text = NULL))) %>%
  hc_add_series(data = c(1,3,2)) %>%
  hc_add_series(data = c(20, 40, 10), yAxis = 1) %>%
  hc_add_series(data = c(200, 400, 500), type = "column", yAxis = 2) %>%
  hc_add_series(data = c(500, 300, 400), type = "column", yAxis = 2)
```

---

dash\_styles

*Get dash styles*

---

**Description**

Get dash style to use on highcharts objects.

**Usage**

```
dash_styles()
```

---

`datetime_to_timestamp` *Date to Timestamps*

---

### Description

Turn a date time vector to timestamp format

### Usage

```
datetime_to_timestamp(dt)
```

### Arguments

`dt`                    Date or datetime vector

### Examples

```
datetime_to_timestamp(  
  as.Date(c("2015-05-08", "2015-09-12"),  
  format = "%Y-%m-%d"))
```

---

`download_map_data`      *Auxilar function to download the map data form a url The urls are listed in <https://code.highcharts.com/mapdata/>.*

---

### Description

Auxilar function to download the map data form a url The urls are listed in <https://code.highcharts.com/mapdata/>.

### Usage

```
download_map_data(url = "custom/world.js", showinfo = FALSE)
```

### Arguments

`url`                    The map's url.  
`showinfo`              Show the properties of the downloaded map to know how are the keys to add data in hmap.

### See Also

[hmap](#)



## Examples

```
mpdta <- download_map_data("https://code.highcharts.com/mapdata/countries/us/us-ca-all.js")
str(mpdta, 1)
```

---

export\_hc

*Function to export js file the configuration options*

---

## Description

Function to export js file the configuration options

## Usage

```
export_hc(hc, filename = NULL)
```

## Arguments

hc	A A highcharts object
filename	A string

## Examples

```
fn <- "function(){
  console.log('Category: ' + this.category);
  alert('Category: ' + this.category);
}"

hc <- highcharts_demo() %>%
  hc_plotOptions(
    series = list(
      cursor = "pointer",
      point = list(
        events = list(
          click = JS(fn)
        )
      )
    )
  )
)
```

---

`favorite_bars`*Marshall's Favorite Bars*

---

**Description**

Data from How I met Your Mother: Marshall's Favorite Bars.

**Usage**`favorite_bars`**Format**

A data frame with 5 observations and 2 variables.

**Variables**

- bar: Bar's name.
- percent: In percentage of awesomeness

---

`favorite_pies`*Marshall's Favorite Pies*

---

**Description**

Data from How I met Your Mother: Marshall's Favorite Pies

**Usage**`favorite_pies`**Format**

A data frame with 5 observations and 2 variables.

**Variables**

- pie: Bar's name.
- percent: In percentage of tastiness

---

`fa_icon`*Helpers functions to get FontAwesome icons code*

---

**Description**

Helpers functions to get FontAwesome icons code

**Usage**

```
fa_icon(iconname = "circle")
```

```
fa_icon_mark(iconname = "circle")
```

**Arguments**

`iconname`      The icon's name

**Examples**

```
fa_icon("car")
```

```
fa_icon_mark("car")
```

```
fa_icon_mark(iconname = c("car", "plane", "car"))
```

---

`fix_1_length_data`*Function to avoid the jsonlite::auto\_unbox default*

---

**Description**

Function to avoid the jsonlite::auto\_unbox default

**Usage**

```
fix_1_length_data(x)
```

**Arguments**

`x`              And element, numeric or character

---

get\_data\_from\_map      *Auxilar function to get the data inside the map data The urls are listed in <https://code.highcharts.com/mapdata/>.*

---

### Description

Auxilar function to get the data inside the map data The urls are listed in <https://code.highcharts.com/mapdata/>.

### Usage

```
get_data_from_map(mapdata)
```

### Arguments

mapdata                A list obtained from [download\\_map\\_data](#).

### See Also

[download\\_map\\_data](#)

### Examples

```
dta <- download_map_data("https://code.highcharts.com/mapdata/countries/us/us-ca-all.js")
get_data_from_map(dta)
```

---

get\_hc\_series\_from\_df      *Auxiliar function to get series and options from tidy frame for hchart.data.frame*

---

### Description

This function is used in hchart.data.frame and hc\_add\_series\_df

### Usage

```
get_hc_series_from_df(data, type = NULL, ...)
```

### Arguments

data                    A data.frame object.

type                    The type of chart. Possible values are line, scatter, point, column.

...                     Aesthetic mappings as x y group color low high.

**Examples**

```
get_hc_series_from_df(iris, type = "point", x = Sepal.Width)
```

---

globaltemp

*globaltemp*

---

**Description**

Temperature information by years.

**Usage**

```
globaltemp
```

**Format**

A data frame with 1992 observations and 4 variables.

**Variables**

- date: Date.
- lower: Minimum temperature.
- median: Median temperature.
- upper: Maximum temperature.

**Source**

<http://www.climate-lab-book.ac.uk/2016/spiralling-global-temperatures/>

---

hcaes

*Define aesthetic mappings. Similar in spirit to ggplot2::aes*

---

**Description**

Define aesthetic mappings. Similar in spirit to ggplot2::aes

**Usage**

```
hcaes(x, y, ...)
```

**Arguments**

`x, y, ...` List of name value pairs giving aesthetics to map to variables. The names for `x` and `y` aesthetics are typically omitted because they are so common; all other aesthetics must be named.

**Examples**

```
hcaes(x = xval, color = colorvar, group = grvar)
```

---

<code>hcbars</code>	<i>Shortcut to make a bar chart</i>
---------------------	-------------------------------------

---

**Description**

Shortcut to make a bar chart

**Usage**

```
hcbars(x, ...)
```

**Arguments**

`x` A character or factor vector.  
`...` Additional arguments for the data series (<http://api.highcharts.com/highcharts#series>).

---

<code>hcboxplot</code>	<i>Shortcut to make a boxplot</i>
------------------------	-----------------------------------

---

**Description**

Shortcut to make a boxplot

**Usage**

```
hcboxplot(x = NULL, var = NULL, var2 = NULL, outliers = TRUE, ...)
```

**Arguments**

`x` A numeric vector.  
`var` A string vector same length of `x`.  
`var2` A string vector same length of `x`.  
`outliers` A boolean value to show or not the outliers.  
`...` Additional arguments for the data series (<http://api.highcharts.com/highcharts#series>).

**Examples**

```
hcboxplot(x = iris$Sepal.Length, var = iris$Species, color = "red")
```

---

hcdensity	<i>Shortcut to make density charts</i>
-----------	--

---

**Description**

Shortcut to make density charts

**Usage**

```
hcdensity(x, ...)
```

**Arguments**

x	A numeric vector or a density object.
...	Additional arguments for the data series ( <a href="http://api.highcharts.com/highcharts#series">http://api.highcharts.com/highcharts#series</a> ).

---

hchart	<i>Create a highchart object from a particular data type</i>
--------	--

---

**Description**

hchart uses highchart to draw a particular plot for an object of a particular class in a single command. This defines the S3 generic that other classes and packages can extend.

**Usage**

```
hchart(object, ...)
```

**Arguments**

object	A R object.
...	Additional arguments for the data series ( <a href="http://api.highcharts.com/highcharts#series">http://api.highcharts.com/highcharts#series</a> ).

**Details**

Run `methods(hchart)` to see what objects are supported.

---

hchart.survfit      *Plot survival curves using Highcharts*

---

## Description

Plot survival curves using Highcharts

## Usage

```
## S3 method for class 'survfit'
hchart(object, ..., fun = NULL, markTimes = TRUE,
        symbol = "plus", markerColor = "black", ranges = FALSE,
        rangesOpacity = 0.3)
```

## Arguments

object	A survfit object as returned from the survfit function
...	Extra parameters to pass to hc_add_series function
fun	Name of function or function used to transform the survival curve: log will put y axis on log scale, event plots cumulative events ( $f(y) = 1-y$ ), cumhaz plots the cumulative hazard function ( $f(y) = -\log(y)$ ), and cloglog creates a complimentary log-log survival plot ( $f(y) = \log(-\log(y))$ ) along with log scale for the x-axis.
markTimes	Label curves marked at each censoring time? TRUE by default
symbol	Symbol to use as marker (plus sign by default)
markerColor	Color of the marker ("black" by default); use NULL to use the respective color of each series
ranges	Plot interval ranges? FALSE by default
rangesOpacity	Opacity of the interval ranges (0.3 by default)

## Value

Highcharts object to plot survival curves

## Examples

```
# Plot Kaplan-Meier curves
require("survival")
leukemia.surv <- survfit(Surv(time, status) ~ x, data = aml)
hchart(leukemia.surv)

# Plot the cumulative hazard function
lsurv2 <- survfit(Surv(time, status) ~ x, aml, type='fleming')
hchart(lsurv2, fun="cumhaz")
```



```
# Plot the fit of a Cox proportional hazards regression model
fit <- coxph(Surv(futime, fustat) ~ age, data = ovarian)
ovarian.surv <- survfit(fit, newdata=data.frame(age=60))
hchart(ovarian.surv, ranges = TRUE)
```

---

hchist	<i>Shortcut to make an histogram</i>
--------	--------------------------------------

---

### Description

Shortcut to make an histogram

### Usage

```
hchist(x, ...)
```

### Arguments

x	A numeric vector.
...	Additional arguments for the data series ( <a href="http://api.highcharts.com/highcharts#series">http://api.highcharts.com/highcharts#series</a> ).

---

hciconarray	<i>Shortcut to make icon arrays charts</i>
-------------	--

---

### Description

Shortcut to make icon arrays charts

### Usage

```
hciconarray(labels, counts, rows = NULL, icons = NULL, size = 4, ...)
```

### Arguments

labels	A character vector
counts	A integer vector
rows	A integer to set
icons	A character vector same length (o length 1) as labels
size	Font size
...	Additional arguments for the data series ( <a href="http://api.highcharts.com/highcharts#series">http://api.highcharts.com/highcharts#series</a> ).

## Examples

```

hcmmap(c("nice", "good"), c(10, 20))

hcmmap(c("nice", "good"), c(10, 20), size = 10)

hcmmap(c("nice", "good"), c(100, 200), icons = "child")

hcmmap(c("car", "truck", "plane"), c(75, 30, 20), icons = c("car", "truck", "plane")) %>%
  hc_add_theme(
    hc_theme_merge(
      hc_theme_flatdark(),
      hc_theme_null(chart = list(backgroundcolor = "#34495e"))
    )
  )

```

---

hcmmap

*Shortcut for create map* *Shortcut for create map from <https://code.highcharts.com/mapdata/> collection.*

---

## Description

Shortcut for create map *Shortcut for create map from <https://code.highcharts.com/mapdata/> collection.*

## Usage

```

hcmmap(map = "custom/world",
  download_map_data = getOption("highcharter.download_map_data"),
  data = NULL, value = NULL, joinBy = NULL, ...)

```

## Arguments

map	String indicating what map to chart.
download_map_data	A logical value whether to download (add as a dependency) the map. Default FALSE.
data	Optional data to make a choropleth, in case of use the joinBy and value are needed.
value	A string value with the name of the column to chart.
joinBy	What property to join the map and df. the map.
...	Additional shared arguments for the data series ( <a href="http://api.highcharts.com/highcharts#series">http://api.highcharts.com/highcharts#series</a> ).

**Examples**

```
require(dplyr)
hcmmap(nullColor = "#DADADA")
hcmmap(nullColor = "#DADADA", download_map_data = TRUE)

data("USArrests", package = "datasets")
USArrests <- mutate(USArrests, "woe-name" = rownames(USArrests))

hcmmap(map = "countries/us/us-all", data = USArrests,
       joinBy = "woe-name", value = "UrbanPop", name = "Urban Population")

hcmmap(map = "countries/us/us-all", data = USArrests,
       joinBy = "woe-name", value = "UrbanPop", name = "Urban Population",
       download_map_data = TRUE)
```

---

hcpie	<i>Shortcut to make a pie chart</i>
-------	-------------------------------------

---

**Description**

Shortcut to make a pie chart

**Usage**

```
hcpie(x, ...)
```

**Arguments**

x	A character or factor vector.
...	Additional arguments for the data series ( <a href="http://api.highcharts.com/highcharts#series">http://api.highcharts.com/highcharts#series</a> ).

---

hcsparke	<i>Shortcut to make sparklines</i>
----------	------------------------------------

---

**Description**

Shortcut to make sparklines

**Usage**

```
hcsparke(x = NULL, type = NULL, ...)
```

**Arguments**

x                    A numeric vector.  
type                Type sparkline: line, bar, etc.  
...                 Additional arguments for the data series (<http://api.highcharts.com/highcharts#series>).

**Examples**

```
set.seed(123)
x <- cumsum(rnorm(10))

hcsark(x)
hcsark(x, "column")
hcsark(c(1, 4, 5), "pie")
hcsark(x, type = "area")
```

---

hctreemap

*Shortcut for create treemaps*

---

**Description**

This function helps to create highcharts treemaps from treemap objects from the package treemap.

**Usage**

```
hctreemap(tm, ...)
```

**Arguments**

tm                    A treemap object from the treemap package.  
...                    Additional shared arguments for the data series (<http://api.highcharts.com/highcharts#series>).

**Examples**

```
## Not run:

library("treemap")
library("viridis")

data(GNI2014)
head(GNI2014)

tm <- treemap(GNI2014, index = c("continent", "iso3"),
              vSize = "population", vColor = "GNI",
              type = "comp", palette = rev(viridis(6)),
```

```

        draw = FALSE)

hctreemap(tm, allowDrillToNode = TRUE, layoutAlgorithm = "squarified") %>%
  hc_title(text = "Gross National Income World Data") %>%
  hc_tooltip(pointFormat = "<b>{point.name}</b>:<br>
    Pop: {point.value:,.0f}<br>
    GNI: {point.valuecolor:,.0f}")

## End(Not run)

```

---

hcts *Shortcut to make time series or line charts*

---

### Description

Shortcut to make time series or line charts

### Usage

```
hcts(x, ...)
```

### Arguments

x                    A numeric vector or a time series object.  
 ...                  Additional arguments for the data series (<http://api.highcharts.com/highcharts#series>).

---

hc\_add\_series *Adding and removing series from highchart objects*

---

### Description

Adding and removing series from highchart objects

### Usage

```
hc_add_series(hc, data = NULL, ...)
```

### Arguments

hc                    A highchart htmlwidget object.  
 data                  An R object like numeric, list, ts, xts, etc.  
 ...                   Arguments defined in <http://api.highcharts.com/highcharts#chart>.

**Examples**

```
highchart() %>%
  hc_add_series(data = abs(rnorm(5)), type = "column") %>%
  hc_add_series(data = purrr::map(0:4, function(x) list(x, x)), type = "scatter", color = "blue")
```

---

hc\_add\_series.character

*hc\_add\_series for character and factor objects*

---

**Description**

hc\_add\_series for character and factor objects

**Usage**

```
## S3 method for class 'character'
hc_add_series(hc, data, ...)
```

```
## S3 method for class 'factor'
hc_add_series(hc, data, ...)
```

**Arguments**

hc	A highchart htmlwidget object.
data	A character or factor object.
...	Arguments defined in <a href="http://api.highcharts.com/highcharts#chart">http://api.highcharts.com/highcharts#chart</a> .

---

hc\_add\_series.data.frame

*hc\_add\_series for data frames objects*

---

**Description**

hc\_add\_series for data frames objects

**Usage**

```
## S3 method for class 'data.frame'
hc_add_series(hc, data, type = NULL, mapping = hcaes(),
  ...)
```

**Arguments**

hc	A highchart htmlwidget object.
data	A data.frame object.
type	The type of the series: line, bar, etc.
mapping	The mapping, same idea as ggplot2.
...	Arguments defined in <a href="http://api.highcharts.com/highcharts#chart">http://api.highcharts.com/highcharts#chart</a> .

---

hc\_add\_series.density *hc\_add\_series for density objects*

---

**Description**

hc\_add\_series for density objects

**Usage**

```
## S3 method for class 'density'
hc_add_series(hc, data, ...)
```

**Arguments**

hc	A highchart htmlwidget object.
data	A density object.
...	Arguments defined in <a href="http://api.highcharts.com/highcharts#chart">http://api.highcharts.com/highcharts#chart</a> .

---

hc\_add\_series.forecast  
*hc\_add\_series for forecast objects*

---

**Description**

hc\_add\_series for forecast objects

**Usage**

```
## S3 method for class 'forecast'
hc_add_series(hc, data, addOriginal = FALSE,
              addLevels = TRUE, fillOpacity = 0.1, ...)
```

**Arguments**

hc	A highchart htmlwidget object.
data	A forecast object.
addOriginal	Logical value to add the original series or not.
addLevels	Logical value to show predicctions bands.
fillOpacity	The opacity of bands
...	Arguments defined in <a href="http://api.highcharts.com/highcharts#chart">http://api.highcharts.com/highcharts#chart</a> .

---

hc\_add\_series.geo\_json

*hc\_add\_series for geo\_json & geo\_list objects*

---

**Description**

hc\_add\_series for geo\_json & geo\_list objects

**Usage**

```
## S3 method for class 'geo_json'
hc_add_series(hc, data, type = NULL, ...)
```

```
## S3 method for class 'geo_list'
hc_add_series(hc, data, type = NULL, ...)
```

**Arguments**

hc	A highchart htmlwidget object.
data	A geo_json or geo_list object.
type	Type of series. Can be 'mapline', 'mapoint'.
...	Arguments defined in <a href="http://api.highcharts.com/highcharts#chart">http://api.highcharts.com/highcharts#chart</a> .

---

hc\_add\_series.numeric *'hc\_add\_series' for numeric objects*

---

**Description**

'hc\_add\_series' for numeric objects

**Usage**

```
## S3 method for class 'numeric'
hc_add_series(hc, data, ...)
```



**Arguments**

hc	A highchart htmlwidget object.
data	A numeric object
...	Arguments defined in <a href="http://api.highcharts.com/highcharts#chart">http://api.highcharts.com/highcharts#chart</a> .

---

hc\_add\_series.ts      *hc\_add\_series for time series objects*

---

**Description**

hc\_add\_series for time series objects

**Usage**

```
## S3 method for class 'ts'
hc_add_series(hc, data, ...)
```

**Arguments**

hc	A highchart htmlwidget object.
data	A time series ts object.
...	Arguments defined in <a href="http://api.highcharts.com/highcharts#chart">http://api.highcharts.com/highcharts#chart</a> .

---

hc\_add\_series.xts      *hc\_add\_series for xts objects*

---

**Description**

hc\_add\_series for xts objects

**Usage**

```
## S3 method for class 'xts'
hc_add_series(hc, data, ...)

## S3 method for class 'ohlcv'
hc_add_series(hc, data, type = "candlestick", ...)
```

**Arguments**

hc	A highchart htmlwidget object.
data	A xts object.
...	Arguments defined in <a href="http://api.highcharts.com/highcharts#chart">http://api.highcharts.com/highcharts#chart</a> .
type	The type of way to show the xts object. Can be 'candlestick' or 'ohlcv'.

---

hc\_add\_series\_boxplot *Shortcut for create boxplot*

---

### Description

Shortcut for create boxplot

### Usage

```
hc_add_series_boxplot(hc, x, by = NULL, outliers = TRUE, ...)
```

### Arguments

hc	A highchart htmlwidget object.
x	A numeri vector
by	A string vector same length of x
outliers	A boolean value to show or not the outliers
...	Additional arguments for the data series ( <a href="http://api.highcharts.com/highcharts#series">http://api.highcharts.com/highcharts#series</a> ).

### Examples

```
## Not run:
highchart() %>%
  hc_add_series_boxplot(x = iris$Sepal.Length, by = iris$Species, name = "length")

## End(Not run)
```

---

hc\_add\_series\_df *Shortcut for tidy data frame a la ggplot2/qplot*

---

### Description

Function to create chart from tidy data frames. As same as qplot you can use aesthetic including the group variable

### Usage

```
hc_add_series_df(hc, data, type = NULL, ...)
```

**Arguments**

hc	A highchart htmlwidget object.
data	A data.frame object.
type	The type of chart. Possible values are line, scatter, point, column, columnrange, etc. See <a href="http://api.highcharts.com/highcharts#series">http://api.highcharts.com/highcharts#series</a> .
...	Aesthetic mappings, x y group color low high.

**Details**

The types supported are line, column, point, polygon, columnrange, spline, areaspline among others.

Automatically parsed de data frame (to a list o series). You you can use the default parameters of highcharts such as x, y, z, color, name, low, high for each series, for example check <http://api.highcharts.com/highcharts#series<bubble>.data>.

**Examples**

```
## Not run:
require("dplyr")
n <- 50
df <- data_frame(
  x = rnorm(n),
  y = x * 2 + rnorm(n),
  w = x^2
)

hc_add_series_df(highchart(), data = df, type = "point", x = x, y = y)
hc_add_series_df(highchart(), data = df, type = "point", color = w)
hc_add_series_df(highchart(), data = df, type = "point", color = w, size = y)

m <- 50
s <- cumsum(rnorm(m))
e <- 2 + rbeta(m, 2, 2)

df2 <- data_frame(
  var = seq(m),
  l = s - e,
  h = s + e,
  n = paste("I'm point ", var)
)

hc_add_series_df(highchart(), data = df2, type = "columnrange",
  x = var, low = l, high = h, name = n, color = var)

hc_add_series_df(highchart(), iris, "point",
  x = Sepal.Length, y = Sepal.Width, group = Species)

data(mpg, package = "ggplot2")
```

```

# point and scatter is the same
hc_add_series_df(highchart(), mpg, "scatter", x = displ, y = cty)
hc_add_series_df(highchart(), mpg, "point", x = displ, y = cty,
                  group = manufacturer)

mpgman <- count(mpg, manufacturer)
hc_add_series_df(highchart(), mpgman, "column", x = manufacturer, y = n) %>%
  hc_xAxis(type = "category")

mpgman2 <- count(mpg, manufacturer, year)
hc_add_series_df(highchart(), mpgman2, "bar", x = manufacturer, y = n, group = year) %>%
  hc_xAxis(type = "category")

data(economics, package = "ggplot2")

hc_add_series_df(highchart(), economics, "line", x = date, y = unemploy) %>%
  hc_xAxis(type = "datetime")

data(economics_long, package = "ggplot2")

economics_long2 <- filter(economics_long,
                          variable %in% c("pop", "uempmed", "unemploy"))

hc_add_series_df(highchart(), economics_long2, "line", x = date,
                  y = value01, group = variable) %>%
  hc_xAxis(type = "datetime")

## End(Not run)

```

---

hc\_add\_series\_flags    *Shortcut for add flags to highstock chart*

---

## Description

This function helps to add flags highstock charts created from xts objects.

## Usage

```
hc_add_series_flags(hc, dates, title = LETTERS[seq(length(dates))],
                   text = title, id = NULL, ...)
```

## Arguments

hc	A highchart htmlwidget object.
dates	Date vector.
title	A character vector with titles.

text	A character vector with the description.
id	The name of the series to add the flags. A previous series must be added with this id.
...	Additional shared arguments for the *flags* data series ( <a href="http://api.highcharts.com/highstock#plotOptions.flags">http://api.highcharts.com/highstock#plotOptions.flags</a> )

## Examples

```
## Not run:

library("quantmod")

usdjpy <- getSymbols("USD/JPY", src="oanda", auto.assign = FALSE)

dates <- as.Date(c("2015-05-08", "2015-09-12"), format = "%Y-%m-%d")
highchart(type = "stock") %>%
  hc_add_series_xts(usdjpy, id = "usdjpy") %>%
  hc_add_series_flags(dates,
                     title = c("E1", "E2"),
                     text = c("This is event 1", "This is the event 2"),
                     id = "usdjpy")

## End(Not run)
```

---

hc\_add\_series\_labels\_values

*Shortcut for add series for pie, bar and column charts*

---

## Description

This function add data to plot pie, bar and column charts.

## Usage

```
hc_add_series_labels_values(hc, labels, values, colors = NULL, ...)
```

## Arguments

hc	A highchart htmlwidget object.
labels	A vector of labels.
values	A numeric vector. Same length of labels.
colors	A not required color vector (hexadecimal format). Same length of labels.
...	Additional shared arguments for the data series ( <a href="http://api.highcharts.com/highcharts#series">http://api.highcharts.com/highcharts#series</a> ).

**Examples**

```

data("favorite_bars")
data("favorite_pies")

highchart() %>%
  hc_title(text = "This is a bar graph describing my favorite pies
              including a pie chart describing my favorite bars") %>%
  hc_subtitle(text = "In percentage of tastiness and awesomeness") %>%
  hc_add_series_labels_values(favorite_pies$pie, favorite_pies$percent, name = "Pie",
                             colorByPoint = TRUE, type = "column") %>%
  hc_add_series_labels_values(favorite_bars$bar, favorite_bars$percent,
                             colors = substr(terrain.colors(5), 0 , 7), type = "pie",
                             name = "Bar", colorByPoint = TRUE, center = c('35%', '10%'),
                             size = 100, dataLabels = list(enabled = FALSE)) %>%
  hc_yAxis(title = list(text = "percentage of tastiness"),
           labels = list(format = "{value}%"), max = 100) %>%
  hc_xAxis(categories = favorite_pies$pie) %>%
  hc_legend(enabled = FALSE) %>%
  hc_tooltip(pointFormat = "{point.y}%")

```

---

hc\_add\_series\_list      *Shortcut for data series from a list of data series*

---

**Description**

Shortcut for data series from a list of data series

**Usage**

```
hc_add_series_list(hc, x)
```

**Arguments**

hc	A highchart htmlwidget object.
x	A list or a data.frame of series.

**Examples**

```

ds <- lapply(seq(5), function(x){
  list(data = cumsum(rnorm(100, 2, 5)), name = x)
})

highchart() %>%
  hc_plotOptions(series = list(marker = list(enabled = FALSE))) %>%
  hc_add_series_list(ds)

```

---

hc\_add\_series\_map      *Add a map series*

---

## Description

Add a map series

## Usage

```
hc_add_series_map(hc, map, df, value, joinBy, ...)
```

## Arguments

hc	A highchart htmlwidget object.
map	A list object loaded from a geojson file.
df	A data.frame object with data to chart. Code region and value are required.
value	A string value with the name of the column to chart.
joinBy	What property to join the map and df
...	Additional shared arguments for the data series ( <a href="http://api.highcharts.com/highcharts#series">http://api.highcharts.com/highcharts#series</a> ).

## Details

This function force the highchart object to be map type.

## Examples

```
library("dplyr")

data("USArrests", package = "datasets")
data("usgeojson")

USArrests <- mutate(USArrests, state = rownames(USArrests))

highchart() %>%
  hc_title(text = "Violent Crime Rates by US State") %>%
  hc_subtitle(text = "Source: USArrests data") %>%
  hc_add_series_map(usgeojson, USArrests, name = "Murder arrests (per 100,000)",
    value = "Murder", joinBy = c("woename", "state"),
    dataLabels = list(enabled = TRUE,
      format = '{point.properties.postalcode}')) %>%
  hc_colorAxis(stops = color_stops()) %>%
  hc_legend(valueDecimals = 0, valueSuffix = "%") %>%
  hc_mapNavigation(enabled = TRUE)

## Not run:
```

```

data(worldgeojson, package = "highcharter")
data("GNI2014", package = "treemap")

highchart(type = "map") %>%
  hc_add_series_map(map = worldgeojson, df = GNI2014, value = "GNI", joinBy = "iso3") %>%
  hc_colorAxis(stops = color_stops()) %>%
  hc_tooltip(useHTML = TRUE, headerFormat = "",
    pointFormat = "this is {point.name} and have {point.population} people with gni of {point.GNI}")

## End(Not run)

```

---

hc\_add\_series\_ohlc      *Shortcut for create candlestick charts*

---

### Description

This function helps to create candlestick from xts objects obtaining by getSymbols function from the **quantmod**.

### Usage

```
hc_add_series_ohlc(hc, x, type = "candlestick", ...)
```

### Arguments

hc	A highchart htmlwidget object.
x	A OHLC object from the <b>quantmod</b> package.
type	The type of chart. Can be candlestick or ohlc.
...	Additional shared arguments for the data series ( <a href="http://api.highcharts.com/highcharts#series">http://api.highcharts.com/highcharts#series</a> ).

### Examples

```

## Not run:

library("xts")

data(sample_matrix)

matrix_xts <- as.xts(sample_matrix, dateFormat = "Date")

head(matrix_xts)

```



```
class(matrix_xts)

highchart() %>%
  hc_add_series_ohlc(matrix_xts)

library("quantmod")

x <- getSymbols("AAPL", auto.assign = FALSE)
y <- getSymbols("SPY", auto.assign = FALSE)

highchart() %>%
  hc_add_series_ohlc(x) %>%
  hc_add_series_ohlc(y)

## End(Not run)
```

---

hc\_add\_series\_scatter *Shortcut for create scatter plots*

---

## Description

This function helps to create scatter plot from two numerics vectors. Options arguments like size, color and label for points are added.

## Usage

```
hc_add_series_scatter(hc, x, y, z = NULL, color = NULL, label = NULL,
  showInLegend = FALSE, ...)
```

## Arguments

hc	A highchart htmlwidget object.
x	A numeric vector.
y	A numeric vector. Same length of x.
z	A numeric vector for size. Same length of x.
color	A vector to color the points.
label	A vector to put names in the dots if you enable the datalabels.
showInLegend	Logical value to show or not the data in the legend box.
...	Additional shared arguments for the data series ( <a href="http://api.highcharts.com/highcharts#series">http://api.highcharts.com/highcharts#series</a> ).

## Examples

```
## Not run:
hc <- highchart()

hc_add_series_scatter(hc, mtcars$wt, mtcars$mpg)
hc_add_series_scatter(hc, mtcars$wt, mtcars$mpg, mtcars$drat)
hc_add_series_scatter(hc, mtcars$wt, mtcars$mpg, mtcars$drat, mtcars$am)
hc_add_series_scatter(hc, mtcars$wt, mtcars$mpg, mtcars$drat, mtcars$qsec)
hc_add_series_scatter(hc, mtcars$wt, mtcars$mpg, mtcars$drat, mtcars$qsec, rownames(mtcars))

# Add named attributes to data (attributes length needs to match number of rows)
hc_add_series_scatter(hc, mtcars$wt, mtcars$mpg, mtcars$drat, mtcars$qsec,
                      name = rownames(mtcars), gear = mtcars$gear) %>%
  hc_tooltip(pointFormat = "<b>{point.name}</b><br/>Gear: {point.gear}")

## End(Not run)
```

---

hc\_add\_series\_times\_values

*Shortcut for create/add time series from times and values*

---

## Description

This function add a time series to a highchart object.

## Usage

```
hc_add_series_times_values(hc, dates, values, ...)
```

## Arguments

hc	A highchart htmlwidget object.
dates	A date vector (same length as values)
values	A numeric vector
...	Additional arguments for the data series ( <a href="http://api.highcharts.com/highcharts#series">http://api.highcharts.com/highcharts#series</a> ).

## Details

This function **modify** the type of chart to datetime

## Examples

```
## Not run:

require("ggplot2")
data(economics, package = "ggplot2")

hc_add_series_times_values(hc = highchart(),
                           dates = economics$date,
                           values = economics$psavert,
                           name = "Personal Savings Rate")

## End(Not run)
```

---

hc\_add\_series\_treemap *Shortcut for create treemaps*

---

## Description

This function helps to create highcharts treemaps from treemap objects from the package treemap.

## Usage

```
hc_add_series_treemap(hc, tm, ...)
```

## Arguments

hc	A highchart htmlwidget object.
tm	A treemap object from the treemap package.
...	Additional shared arguments for the data series ( <a href="http://api.highcharts.com/highcharts#series">http://api.highcharts.com/highcharts#series</a> ).

## Examples

```
## Not run:

library("treemap")
library("viridis")

data(GNI2014)
head(GNI2014)

tm <- treemap(GNI2014, index = c("continent", "iso3"),
              vSize = "population", vColor = "GNI",
              type = "comp", palette = rev(viridis(6)),
              draw = FALSE)
```

```

highchart(height = 800) %>%
  hc_add_series_treemap(tm, allowDrillToNode = TRUE,
                      layoutAlgorithm = "squarified",
                      name = "tmdata") %>%
  hc_title(text = "Gross National Income World Data") %>%
  hc_tooltip(pointFormat = "<b>{point.name}</b>:<br>
                          Pop: {point.value:,.0f}<br>
                          GNI: {point.valuecolor:,.0f}")

## End(Not run)

```

---

hc\_add\_series\_ts      *Shortcut for create/add time series charts from a ts object*

---

## Description

This function add a time series to a highchart object from a ts object.

## Usage

```
hc_add_series_ts(hc, ts, ...)
```

## Arguments

hc	A highchart htmlwidget object.
ts	A time series object.
...	Additional arguments for the data series ( <a href="http://api.highcharts.com/highcharts#series">http://api.highcharts.com/highcharts#series</a> ).

## Details

This function **modify** the type of chart to datetime

## Examples

```

## Not run:
highchart() %>%
  hc_title(text = "Monthly Airline Passenger Numbers 1949-1960") %>%
  hc_subtitle(text = "The classic Box and Jenkins airline data") %>%
  hc_add_series_ts(AirPassengers, name = "passengers") %>%
  hc_tooltip(pointFormat = '{point.y} passengers')

highchart() %>%
  hc_title(text = "Monthly Deaths from Lung Diseases in the UK") %>%
  hc_add_series_ts(fdeaths, name = "Female") %>%

```

```
hc_add_series_xts(mdeaths, name = "Male")  
## End(Not run)
```

---

hc\_add\_series\_xts      *Shortcut for create highstock chart from xts object*

---

## Description

This function helps to create highstock charts from xts objects obtaining by getSymbols function from the **quantmod**.

## Usage

```
hc_add_series_xts(hc, x, ...)
```

## Arguments

hc	A highchart htmlwidget object.
x	A xts object from the <b>quantmod</b> package.
...	Additional shared arguments for the data series ( <a href="http://api.highcharts.com/highcharts#series">http://api.highcharts.com/highcharts#series</a> ).

## Examples

```
## Not run:  
  
library("quantmod")  
  
usdjpy <- getSymbols("USD/JPY", src="oanda", auto.assign = FALSE)  
eurkpw <- getSymbols("EUR/KPW", src="oanda", auto.assign = FALSE)  
  
highchart(type = "stock") %>%  
  hc_add_series_xts(usdjpy, id = "usdjpy") %>%  
  hc_add_series_xts(eurkpw, id = "eurkpw")  
  
## End(Not run)
```

---

hc_add_theme	<i>Add themes to a highchart object</i>
--------------	---

---

**Description**

Add highcharts themes to a highchart object.

**Usage**

```
hc_add_theme(hc, hc_thm)
```

**Arguments**

hc	A highchart object
hc_thm	A highchart theme object ("hc_theme" class)

**Examples**

```
highchart() %>%
  hc_add_series(data = c(7.0, 6.9, 9.5, 14.5, 18.2, 21.5, 25.2,
                        26.5, 23.3, 18.3, 13.9, 9.6),
              type = "column") %>%
  hc_add_theme(hc_theme_sandsignika())
```

---

hc_annotatons	<i>Adding annotations to highcharts objects</i>
---------------	---

---

**Description**

Helper function to add annotations to highcharts library.

**Usage**

```
hc_annotatons(hc, ...)
hc_add_annotation(hc, ...)
hc_add_annotatons(hc, x)
```

**Arguments**

hc	A highchart htmlwidget object.
...	Arguments defined in <a href="http://www.highcharts.com/plugin-registry/single/17/Annotations">http://www.highcharts.com/plugin-registry/single/17/Annotations</a> .
x	A list or a data.frame of annotations.

**Details**

The x elemens must have xValue and yValue elements

---

hc\_annotatonsOptions *Setting Annotations Options*

---

**Description**

Setting Annotations Options

**Usage**

hc\_annotatonsOptions(hc, ...)

**Arguments**

hc	A highchart htmlwidget object.
...	Options defined in <a href="http://www.highcharts.com/plugin-registry/single/17/Annotations">http://www.highcharts.com/plugin-registry/single/17/Annotations</a> .

---

hc\_chart *Adding chart options to highchart objects*

---

**Description**

Options regarding the chart area and plot area as well as general chart options.

**Usage**

hc\_chart(hc, ...)

**Arguments**

hc	A highchart htmlwidget object.
...	Arguments defined in <a href="http://api.highcharts.com/highcharts#chart">http://api.highcharts.com/highcharts#chart</a> .

**Examples**

```

data(citytemp)

hc <- highchart() %>%
  hc_xAxis(categories = citytemp$month) %>%
  hc_add_series(name = "Tokyo", data = citytemp$tokyo) %>%
  hc_add_series(name = "London", data = citytemp$london)

hc %>%
  hc_chart(type = "column",
           options3d = list(enabled = TRUE, beta = 15, alpha = 15))

hc %>%
  hc_chart(borderColor = '#EBBA95',
           borderRadius = 10,
           borderWidth = 2,
           backgroundColor = list(
             linearGradient = c(0, 0, 500, 500),
             stops = list(
               list(0, 'rgb(255, 255, 255)'),
               list(1, 'rgb(200, 200, 255)')
             )
           )))

```

---

`hc_colorAxis`*Adding Color Axis options to highchart objects*

---

**Description**

Function to set the axis color to highcharts objects.

**Usage**

```
hc_colorAxis(hc, ...)
```

**Arguments**

`hc` A highchart htmlwidget object.  
`...` Arguments are defined in <http://api.highcharts.com/highmaps#colorAxis>.

**Examples**

```

nyears <- 5

df <- expand.grid(seq(12) - 1, seq(nyears) - 1)

```



```

df$value <- abs(seq(nrow(df)) + 10 * rnorm(nrow(df))) + 10
df$value <- round(df$value, 2)
ds <- list_parse2(df)

hc <- highchart() %>%
  hc_chart(type = "heatmap") %>%
  hc_title(text = "Simulated values by years and months") %>%
  hc_xAxis(categories = month.abb) %>%
  hc_yAxis(categories = 2016 - nyears + seq(nyears)) %>%
  hc_add_series(name = "value", data = ds)

hc_colorAxis(hc, minColor = "#FFFFFF", maxColor = "#434348")

hc_colorAxis(hc, minColor = "#FFFFFF", maxColor = "#434348",
              type = "logarithmic")

require("viridisLite")

n <- 4
stops <- data.frame(q = 0:n/n,
                   c = substring(viridis(n + 1), 0, 7),
                   stringsAsFactors = FALSE)
stops <- list_parse2(stops)

hc_colorAxis(hc, stops = stops, max = 75)

```

---

 hc\_colors

*Adding color options to highchart objects*


---

### Description

An array containing the default colors for the chart's series. When all colors are used, new colors are pulled from the start again.

### Usage

```
hc_colors(hc, colors)
```

### Arguments

hc	A highchart htmlwidget object.
colors	A vector of colors.

## Examples

```
library("viridisLite")

cols <- viridis(3)
cols <- substr(cols, 0, 7)

highcharts_demo() %>%
  hc_colors(cols)
```

---

hc\_credits

*Adding credits options to highchart objects*

---

## Description

highchart by default don't put credits in the chart. You can add credits using these options.

## Usage

```
hc_credits(hc, ...)
```

## Arguments

hc            A highchart htmlwidget object.

...           Arguments defined in <http://api.highcharts.com/highcharts#credits>.

## Examples

```
data("citytemp")

highchart() %>%
  hc_xAxis(categories = citytemp$month) %>%
  hc_add_series(name = "Tokyo", data = citytemp$tokyo, type = "bar") %>%
  hc_credits(enabled = TRUE, text = "htmlwidgets.org",
            href = "http://www.htmlwidgets.org/")
```

---

hc_defs	<i>Adding patterns to be used in highcharts series</i>
---------	--

---

**Description**

Helper function to use the fill patten plugin <http://www.highcharts.com/plugin-registry/single/9/Pattern-Fill>.

**Usage**

```
hc_defs(hc, ...)
```

**Arguments**

hc	A highchart htmlwidget object.
...	Arguments defined in <a href="http://www.highcharts.com/plugin-registry/single/9/Pattern-Fill">http://www.highcharts.com/plugin-registry/single/9/Pattern-Fill</a> .

---

hc_drilldown	<i>Drilldown options for higcharts objects</i>
--------------	--

---

**Description**

Options for drill down, the concept of inspecting increasingly high resolution data through clicking on chart items like columns or pie slices.

**Usage**

```
hc_drilldown(hc, ...)
```

**Arguments**

hc	A highchart htmlwidget object.
...	Arguments defined in <a href="http://api.highcharts.com/highcharts#drilldown">http://api.highcharts.com/highcharts#drilldown</a> .

**Examples**

```
library("dplyr")
library("purrr")

df <- data_frame(
  name = c("Animals", "Fruits", "Cars"),
  y = c(5, 2, 4),
  drilldown = tolower(name)
)
```

```

df

ds <- list_parse(df)
names(ds) <- NULL
str(ds)

hc <- highchart() %>%
  hc_chart(type = "column") %>%
  hc_title(text = "Basic drilldown") %>%
  hc_xAxis(type = "category") %>%
  hc_legend(enabled = FALSE) %>%
  hc_plotOptions(
    series = list(
      boderWidth = 0,
      dataLabels = list(enabled = TRUE)
    )
  ) %>%
  hc_add_series(
    name = "Things",
    colorByPoint = TRUE,
    data = ds
  )

dfan <- data_frame(
  name = c("Cats", "Dogs", "Cows", "Sheep", "Pigs"),
  value = c(4, 3, 1, 2, 1)
)

dffru <- data_frame(
  name = c("Apple", "Organes"),
  value = c(4, 2)
)

dfcar <- data_frame(
  name = c("Toyota", "Opel", "Volkswage"),
  value = c(4, 2, 2)
)

second_el_to_numeric <- function(ls){
  map(ls, function(x){
    x[[2]] <- as.numeric(x[[2]])
    x
  })
}

dsan <- second_el_to_numeric(list_parse2(dfan))
dsfru <- second_el_to_numeric(list_parse2(dffru))
dscar <- second_el_to_numeric(list_parse2(dfcar))

```

```
hc <- hc %>%
  hc_drilldown(
    allowPointDrilldown = TRUE,
    series = list(
      list(
        id = "animals",
        data = dsan
      ),
      list(
        id = "fruits",
        data = dsfru
      ),
      list(
        id = "cars",
        data = dscar
      )
    )
  )
hc
```

---

hc\_elementId

*Setting elementId*

---

### Description

Function to modify the id for the container.

### Usage

```
hc_elementId(hc, id = NULL)
```

### Arguments

hc	A highchart htmlwidget object.
id	A string

### Examples

```
hchart(rnorm(10)) %>%
  hc_elementId("newid")
```

---

hc\_exporting                      *Exporting options for highcharts objects*

---

### Description

Exporting options for highcharts objects. You can define the file's name or the output format.

### Usage

```
hc_exporting(hc, ...)
```

### Arguments

hc                      A highchart htmlwidget object.  
 ...                    Arguments defined in <http://api.highcharts.com/highcharts#exporting>.

### Examples

```
require("dplyr")

data("citytemp")

highchart() %>%
  hc_xAxis(categories = citytemp$month) %>%
  hc_add_series(name = "Tokyo", data = citytemp$tokyo) %>%
  hc_add_series(name = "London", data = citytemp$london) %>%
  hc_exporting(enabled = TRUE,
              filename = "custom-file-name")
```

---

hc\_legend                      *Adding legend options to highchart objects*

---

### Description

Function to modify styles for the box containing the symbol, name and color for each item or point item in the chart.

### Usage

```
hc_legend(hc, ...)
```

### Arguments

hc                      A highchart htmlwidget object.  
 ...                    Arguments are defined in <http://api.highcharts.com/highcharts#legend>.

**Examples**

```

data(citytemp)

highchart() %>%
  hc_xAxis(categories = citytemp$month) %>%
  hc_add_series(name = "Tokyo", data = citytemp$tokyo) %>%
  hc_add_series(name = "London", data = citytemp$london) %>%
  hc_legend(align = "left", verticalAlign = "top",
            layout = "vertical", x = 0, y = 100)

```

---

hc_mapNavigation	<i>Adding mapNavigation options to highmaps charts</i>
------------------	--

---

**Description**

Options regarding the mapNavigation: A collection of options for zooming and panning in a map.

**Usage**

```
hc_mapNavigation(hc, ...)
```

**Arguments**

hc	A highchart htmlwidget object.
...	Arguments defined in <a href="http://api.highcharts.com/highmaps#mapNavigation">http://api.highcharts.com/highmaps#mapNavigation</a> .

---

hc_motion	<i>Adding options to Motion options to highcharts objects</i>
-----------	---

---

**Description**

The Motion Highcharts Plugin adds an interactive HTML5 player to any Highcharts chart (Highcharts, Highmaps and Highstock).

**Usage**

```
hc_motion(hc, ...)
```

**Arguments**

hc	A highchart htmlwidget object.
...	Arguments defined in <a href="https://github.com/larsac07/Motion-Highcharts-Plugin/wiki">https://github.com/larsac07/Motion-Highcharts-Plugin/wiki</a> .

---

hc_navigator	<i>Adding navigator options to highstock charts</i>
--------------	---

---

**Description**

Options regarding the navigator: The miniseries below chart in a highstock chart.

**Usage**

```
hc_navigator(hc, ...)
```

**Arguments**

hc	A highchart htmlwidget object.
...	Arguments defined in <a href="http://api.highcharts.com/highstock#navigator">http://api.highcharts.com/highstock#navigator</a> .

---

hc_pane	<i>Adding panes</i>
---------	---------------------

---

**Description**

Applies only to polar charts and angular gauges. This configuration object holds general options for the combined X and Y axes set. Each xAxis or yAxis can reference the pane by index.

**Usage**

```
hc_pane(hc, ...)
```

**Arguments**

hc	A highchart htmlwidget object.
...	Arguments defined in <a href="http://api.highcharts.com/highcharts#pane">http://api.highcharts.com/highcharts#pane</a> .



---

hc\_plotOptions      *Adding plot options to highchart objects*

---

### Description

The plotOptions is a wrapper object for config objects for each series type. The config objects for each series can also be overridden for each series item as given in the series array.

### Usage

```
hc_plotOptions(hc, ...)
```

### Arguments

hc                    A highchart htmlwidget object.  
...                   Arguments are defined in <http://api.highcharts.com/highcharts#plotOptions>.

### Details

Configuration options for the series are given in three levels. Options for all series in a chart are given with the hc\_plotOptions function. Then options for all series of a specific type are given in the plotOptions of that type, for example hc\_plotOptions(line = list(...)). Next, options for one single series are given in the series array.

### Examples

```
data(citytemp)

hc <- highchart() %>%
  hc_plotOptions(line = list(color = "blue",
                             marker = list(
                               fillColor = "white",
                               lineWidth = 2,
                               lineColor = NULL
                             )
                )) %>%
  hc_add_series(name = "Tokyo", data = citytemp$tokyo) %>%
  hc_add_series(name = "London", data = citytemp$london,
                marker = list(fillColor = "black"))

hc

# override the `blue` option with the explicit parameter
hc %>%
  hc_add_series(name = "London",
                data = citytemp$new_york,
```

```
color = "red")
```

---

hc_rangeSelector	<i>Adding scrollbar options to highstock charts</i>
------------------	---

---

### Description

Options to edit the range selector which is The range selector is a tool for selecting ranges to display within the chart. It provides buttons to select preconfigured ranges in the chart, like 1 day, 1 week, 1 month etc. It also provides input boxes where min and max dates can be manually input.

### Usage

```
hc_rangeSelector(hc, ...)
```

### Arguments

hc	A highchart htmlwidget object.
...	Arguments defined in <a href="http://api.highcharts.com/highstock#rangeSelector">http://api.highcharts.com/highstock#rangeSelector</a> .

---

hc_rm_series	<i>Removing series to highchart objects</i>
--------------	---

---

### Description

Removing series to highchart objects

### Usage

```
hc_rm_series(hc, names = NULL)
```

### Arguments

hc	A highchart htmlwidget object.
names	The series's names to delete.

---

hc\_scrollbar                    *Adding scrollbar options to highstock objects*

---

**Description**

Options regarding the scrollbar which is a means of panning over the X axis of a chart.

**Usage**

```
hc_scrollbar(hc, ...)
```

**Arguments**

hc                    A highchart htmlwidget object.  
...                   Arguments defined in <http://api.highcharts.com/highstock#scrollbar>.

---

hc\_series                    *Series options from highchart objects*

---

**Description**

Series options from highchart objects

**Usage**

```
hc_series(hc, ...)
```

**Arguments**

hc                    A highchart htmlwidget object.  
...                   Arguments defined in <http://api.highcharts.com/highcharts#series>.

**Examples**

```
highchart() %>%  
  hc_series(  
    list(  
      name = "Tokyo",  
      data = c(7.0, 6.9, 9.5, 14.5, 18.4, 21.5, 25.2, 26.5, 23.3, 18.3, 13.9, 9.6)  
    ),  
    list(  
      name = "London",  
      data = c(3.9, 4.2, 5.7, 8.5, 11.9, 15.2, 17.0, 16.6, 14.2, 10.3, 6.6, 4.8)  
    )  
  )  
)
```

---

hc_size	<i>Changing the size of a highchart object</i>
---------	--

---

**Description**

Changing the size of a highchart object

**Usage**

```
hc_size(hc, width = NULL, height = NULL)
```

**Arguments**

hc	A highchart htmlwidget object.
width	A numeric input in pixels.
height	A numeric input in pixels.

**Examples**

```
hc_size(hcts(rnorm(100)), 400, 200)
```

---

hc_theme	<i>Highchart theme constructor</i>
----------	------------------------------------

---

**Description**

Function to create highcharts themes.

**Usage**

```
hc_theme(...)
```

**Arguments**

...	A named parameters.
-----	---------------------

**Details**

More examples are in <http://www.highcharts.com/docs/chart-design-and-style/themes>.

## Examples

```
hc <- highcharts_demo()

hc

thm <- hc_theme(
  colors = c('red', 'green', 'blue'),
  chart = list(
    backgroundColor = "#15C0DE"
  ),
  title = list(
    style = list(
      color = '#333333',
      fontFamily = "Erica One"
    )
  ),
  subtitle = list(
    style = list(
      color = '#666666',
      fontFamily = "Shadows Into Light"
    )
  ),
  legend = list(
    itemStyle = list(
      fontFamily = 'Tangerine',
      color = 'black'
    ),
    itemHoverStyle = list(
      color = 'gray'
    )
  )
)

hc %>% hc_add_theme(thm)
```

---

hc\_theme\_538

*Fivethirtyeight theme for highcharts*

---

## Description

Fivethirtyeight theme for highcharts

## Usage

```
hc_theme_538(...)
```

**Arguments**

...                    Named argument to modify the theme

**Examples**

```
highcharts_demo() %>%
  hc_add_theme(hc_theme_538())

highcharts_demo() %>%
  hc_add_theme(
    hc_theme_538(
      colors = c("red", "blue", "green"),
      chart = list(backgroundColor = "white")
    )
  )
```

---

hc\_theme\_chalk

*Chalk theme for highcharts*

---

**Description**

Chalk theme for highcharts. Inspired by <https://www.amcharts.com/inspiration/chalk/>

**Usage**

```
hc_theme_chalk(...)
```

**Arguments**

...                    Named argument to modify the theme

**Examples**

```
highcharts_demo() %>%
  hc_add_theme(hc_theme_chalk())
```

---

hc\_theme\_darkunica      *Dark Unica theme for highcharts*

---

**Description**

Dark Unica theme for highcharts

**Usage**

```
hc_theme_darkunica(...)
```

**Arguments**

...                      Named argument to modify the theme

**Examples**

```
highcharts_demo() %>%  
  hc_add_theme(hc_theme_darkunica())
```

---

hc\_theme\_db                      *Dotabuff theme for highcharts*

---

**Description**

Dotabuff theme for highcharts

**Usage**

```
hc_theme_db(...)
```

**Arguments**

...                      Named argument to modify the theme

**Examples**

```
highcharts_demo() %>%  
  hc_add_theme(hc_theme_db())
```

---

hc\_theme\_economist     *Economist theme for highcharts*

---

**Description**

Economist theme for highcharts

**Usage**

```
hc_theme_economist(...)
```

**Arguments**

...                    Named argument to modify the theme

**Examples**

```
highcharts_demo() %>%  
  hc_add_theme(hc_theme_economist())
```

---

hc\_theme\_elementary     *Elementary (OS) theme for highcharts*

---

**Description**

Elementary (OS) theme for highcharts based on <https://elementary.io>

**Usage**

```
hc_theme_elementary(...)
```

**Arguments**

...                    Named argument to modify the theme

**Examples**

```
highcharts_demo() %>%  
  hc_add_theme(hc_theme_elementary())
```



---

hc_theme_ffx	<i>Firefox theme for highcharts</i>
--------------	-------------------------------------

---

**Description**

Theme inspired by <https://www.mozilla.org/en-US/styleguide/>

**Usage**

```
hc_theme_ffx(...)
```

**Arguments**

...                   Named argument to modify the theme

**Examples**

```
highcharts_demo() %>%  
  hc_add_theme(hc_theme_ffx())
```

---

hc_theme_flat	<i>Flat theme for highcharts</i>
---------------	----------------------------------

---

**Description**

Base16 Inspired theme <https://github.com/chriskempson/base16> and <https://github.com/cttobin/ggthemr#flat>

**Usage**

```
hc_theme_flat(...)
```

**Arguments**

...                   Named argument to modify the theme

**Examples**

```
highcharts_demo() %>%  
  hc_add_theme(hc_theme_flat())
```

---

hc\_theme\_flatdark      *Flatdark theme for highcharts*

---

**Description**

Base16 Inspired theme <https://github.com/chriskempson/base16> and <https://github.com/cttobin/ggthemr#flat>

**Usage**

```
hc_theme_flatdark(...)
```

**Arguments**

...                      Named argument to modify the theme

**Examples**

```
highcharts_demo() %>%  
  hc_add_theme(hc_theme_flatdark())
```

---

hc\_theme\_ft              *Financial Times theme for highcharts*

---

**Description**

Financial Times theme for highcharts

**Usage**

```
hc_theme_ft(...)
```

**Arguments**

...                      Named argument to modify the theme

**Examples**

```
highcharts_demo() %>%  
  hc_add_theme(hc_theme_ft())
```

---

hc_theme_google	<i>Google theme for highcharts</i>
-----------------	------------------------------------

---

**Description**

Google theme for highcharts based on <https://books.google.com/ngrams/>

**Usage**

```
hc_theme_google(...)
```

**Arguments**

...                   Named argument to modify the theme

**Examples**

```
highcharts_demo() %>%  
  hc_add_theme(hc_theme_google())
```

---

hc_theme_gridlight	<i>Grid Light theme for highcharts</i>
--------------------	--

---

**Description**

Grid Light theme for highcharts

**Usage**

```
hc_theme_gridlight(...)
```

**Arguments**

...                   Named argument to modify the theme

**Examples**

```
highcharts_demo() %>%  
  hc_add_theme(hc_theme_gridlight())
```

---

hc\_theme\_handdrawn     *Hand Drawn theme for highcharts*

---

**Description**

Hand Drawn theme for highcharts. Inspired by <https://www.amcharts.com/inspiration/hand-drawn/>

**Usage**

```
hc_theme_handdrawn(...)
```

**Arguments**

...                    Named argument to modify the theme

**Examples**

```
highcharts_demo() %>%  
  hc_add_theme(hc_theme_handdrawn())
```

---

hc\_theme\_merge            *Merge themes*

---

**Description**

Function to combine hc\_theme objects.

**Usage**

```
hc_theme_merge(...)
```

**Arguments**

...                    hc\_theme objects.

**Examples**

```
thm <- hc_theme_merge(  
  hc_theme_darkunica(),  
  hc_theme(  
    chart = list(  
      backgroundColor = "transparent",  
      divBackgroundImage = "http://cdn.wall-pix.net/albums/art-3Dview/00025095.jpg"  
    ),  
  ),  
)
```

```
    title = list(  
      style = list(  
        color = 'white',  
        fontFamily = "Erica One"  
      )  
    )  
  )  
)
```

---

hc\_theme\_monokai      *Monokai theme for highcharts*

---

**Description**

A well know text editor theme

**Usage**

```
hc_theme_monokai(...)
```

**Arguments**

...                  Named argument to modify the theme

**Examples**

```
highcharts_demo() %>%  
  hc_add_theme(hc_theme_monokai())
```

---

hc\_theme\_null          *Null theme for highcharts*

---

**Description**

Null theme for highcharts. Axis are removed (`visible = FALSE`).

**Usage**

```
hc_theme_null(...)
```

**Arguments**

...                  Named argument to modify the theme

## Examples

```
highcharts_demo() %>%  
  hc_add_theme(hc_theme_null())
```

---

hc\_theme\_sandsignika *Sand Signika theme for highcharts*

---

## Description

Sand Signika theme for highcharts

## Usage

```
hc_theme_sandsignika(...)
```

## Arguments

...                    Named argument to modify the theme

## Examples

```
highcharts_demo() %>%  
  hc_add_theme(hc_theme_sandsignika())
```

---

hc\_theme\_smpl                    *Simple theme for highcharts*

---

## Description

Desing inspired by <https://github.com/hrbrmstr/hrbrmisc/blob/master/R/themes.r> and color by <https://www.materialui.co/flatuicolors>

## Usage

```
hc_theme_smpl(...)
```

## Arguments

...                    Named argument to modify the theme

### Examples

```
highcharts_demo() %>%  
  hc_add_theme(hc_theme_smpl())
```

---

hc\_theme\_sparkline      *Sparkline theme for highcharts*

---

### Description

Based on <http://www.highcharts.com/demo/sparkline>.

### Usage

```
hc_theme_sparkline(...)
```

### Arguments

...                      Named argument to modify the theme

### Examples

```
highcharts_demo() %>%  
  hc_add_theme(hc_theme_sparkline())
```

---

hc\_theme\_tufte              *Tufte theme for highcharts*

---

### Description

Desing inspired by Edward Tufte style.

### Usage

```
hc_theme_tufte(...)  
  
hc_theme_tufte2(...)
```

### Arguments

...                      Named argument to modify the theme

## Examples

```
n <- 15
dta <- dplyr::data_frame(
  x = rnorm(n),
  y = 1.5 * x + rnorm(n))
highchart() %>%
  hc_chart(type = "scatter") %>%
  hc_add_series(data = list_parse(dta)) %>%
  hc_add_theme(hc_theme_tufte())

values <- 1 + abs(rnorm(12))
highchart() %>%
  hc_chart(type = "column") %>%
  hc_add_series(data = values) %>%
  hc_xAxis(categories = month.abb) %>%
  hc_add_theme(hc_theme_tufte2())
```

---

 hc\_title

*Adding title and subtitle options to highchart objects*


---

## Description

Function to add and change title and subtitle's style.

## Usage

```
hc_title(hc, ...)
```

```
hc_subtitle(hc, ...)
```

## Arguments

hc                    A highchart htmlwidget object.  
 ...                   Arguments are defined in <http://api.highcharts.com/highcharts#title>.

## Examples

```
highchart() %>%
  hc_add_series(data = c(7.0, 6.9, 9.5, 14.5, 18.2, 21.5, 25.2,
    26.5, 23.3, 18.3, 13.9, 9.6),
    type = "column") %>%
  hc_title(text = "This is a title with <i>margin</i> and <b>Strong or bold text</b>",
    margin = 20, align = "left",
    style = list(color = "#90ed7d", useHTML = TRUE)) %>%
  hc_subtitle(text = "And this is a subtitle with more information",
```



```
align = "left", style = list(color = "#2b908f", fontWeight = "bold"))
```

---

 hc\_tooltip

*Adding tooltip options to highchart objects*


---

### Description

Options for the tooltip that appears when the user hovers over a series or point.

### Usage

```
hc_tooltip(hc, ..., sort = FALSE, table = FALSE)
```

### Arguments

hc	A highchart htmlwidget object.
...	Arguments are defined in <a href="http://api.highcharts.com/highcharts#tooltip">http://api.highcharts.com/highcharts#tooltip</a> .
sort	Logical value to implement sort according this point <a href="http://stackoverflow.com/a/16954666/829971">http://stackoverflow.com/a/16954666/829971</a> .
table	Logical value to implement table in tooltip: <a href="http://stackoverflow.com/a/22327749/829971">http://stackoverflow.com/a/22327749/829971</a> .

### Examples

```
highcharts_demo() %>%
  hc_tooltip(crosshairs = TRUE, borderWidth = 5, sort = TRUE, table = TRUE)
```

---

 hc\_xAxis

*Adding axis options to highchart objects*


---

### Description

Change axis labels or style. Add lines or band to charts.

### Usage

```
hc_xAxis(hc, ...)
hc_yAxis(hc, ...)
hc_yAxis_multiples(hc, ...)
```

**Arguments**

hc                    A highchart htmlwidget object.  
 ...                   Arguments defined in <http://api.highcharts.com/highcharts#xAxis>.

**Examples**

```
highchart() %>%
  hc_add_series(data = c(7.0, 6.9, 9.5, 14.5, 18.2, 21.5, 25.2,
                        26.5, 23.3, 18.3, 13.9, 9.6),
                type = "spline") %>%
  hc_xAxis(title = list(text = "x Axis at top"),
           opposite = TRUE,
           plotLines = list(
             list(label = list(text = "This is a plotLine"),
                  color = "'#FF0000'",
                  width = 2,
                  value = 5.5))) %>%
  hc_yAxis(title = list(text = "y Axis at right"),
           opposite = TRUE,
           minorTickInterval = "auto",
           minorGridLineDashStyle = "LongDashDotDot",
           showFirstLabel = FALSE,
           showLastLabel = FALSE,
           plotBands = list(
             list(from = 25, to = 80, color = "rgba(100, 0, 0, 0.1)",
                  label = list(text = "This is a plotBand")))))

highchart() %>%
  hc_yAxis_multiples(
    list(top = "0%", height = "30%", lineWidth = 3),
    list(top = "30%", height = "70%", offset = 0,
         showFirstLabel = FALSE, showLastLabel = FALSE)
  ) %>%
  hc_add_series(data = rnorm(10)) %>%
  hc_add_series(data = rexp(10), type = "spline", yAxis = 1)
```

---

 hex\_to\_rgba

*Transform colors from hexadecimal format to rgba hc notation*


---

**Description**

Transform colors from hexadecimal format to rgba hc notation

**Usage**

```
hex_to_rgba(x, alpha = 1)
```

**Arguments**

x	colors in hexadecimal format
alpha	alpha

**Examples**

```
hex_to_rgba(x <- c("#440154", "#21908C", "#FDE725"))
```

---

highcharter	<i>An htmlwidget interface to the Highcharts javascript chart library</i>
-------------	---

---

**Description**

Highcharts <http://www.highcharts.com/> is a mature javascript charting library. Highcharts provide a various type of charts, from scatters to heatmaps or treemaps.

**Author(s)**

Joshua Kunst (@jbkunst)

---

highcharter-exports	<i>highcharter exported operators and S3 methods</i>
---------------------	--

---

**Description**

The following functions are imported and then re-exported from the highcharter package to avoid listing the magrittr as Depends of highcharters.

---

highchart *Create a Highcharts chart widget*

---

### Description

This function creates a Highchart chart using **htmlwidgets**. The widget can be rendered on HTML pages generated from R Markdown, Shiny, or other applications.

### Usage

```
highchart(hc_opts = list(), theme = getOption("highcharter.theme"),
  type = "chart", width = NULL, height = NULL, elementId = NULL)
```

### Arguments

hc_opts	A list object containing options defined as <a href="http://api.highcharts.com/highcharts">http://api.highcharts.com/highcharts</a> .
theme	A hc_theme class object
type	A character value to set if use Highchart, Highstock or Highmap. Options are "chart", "stock" and "map".
width	A numeric input in pixels.
height	A numeric input in pixels.
elementId	Use an explicit element ID for the widget.

---

highchart2 *Create a Highcharts chart widget*

---

### Description

This widgets don't support options yet.

### Usage

```
highchart2(hc_opts = list(), theme = NULL, width = NULL, height = NULL,
  elementId = NULL, debug = FALSE)
```

### Arguments

hc_opts	A list object containing options defined as <a href="http://api.highcharts.com/highcharts">http://api.highcharts.com/highcharts</a> .
theme	A hc_theme class object
width	A numeric input in pixels.
height	A numeric input in pixels.
elementId	Use an explicit element ID for the widget.
debug	A boolean value if you want to print in the browser console the parameters given to highchart.

**Details**

This function creates a Highchart chart using **htmlwidgets**. The widget can be rendered on HTML pages generated from R Markdown, Shiny, or other applications.

---

highchartOutput	<i>Widget output function for use in Shiny</i>
-----------------	--

---

**Description**

Widget output function for use in Shiny

**Usage**

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

```
highchartOutput2(outputId, width = "100%", height = "400px")
```

**Arguments**

outputId	The name of the input.
width	A numeric input in pixels.
height	A numeric input in pixels.

---

highcharts_demo	<i>Chart a demo for testing themes</i>
-----------------	--

---

**Description**

Chart a demo for testing themes

**Usage**

```
highcharts_demo()
```

**Examples**

```
highcharts_demo()
```

---

hw_grid	<i>Lays out highchart widgets into a "grid", similar to grid.arrange from gridExtra</i>
---------	---

---

**Description**

Lays out highchart widgets into a "grid", similar to grid.arrange from gridExtra

**Usage**

```
hw_grid(..., ncol = NULL, rowheight = NULL)
```

**Arguments**

...	either individual highchart objects or a mixture of individual highchart objects and lists of highchart objects.
ncol	how many columns in the grid
rowheight	Height in px.

---

is.hexcolor	<i>Check if a string vector is in hexadecimal color format</i>
-------------	--

---

**Description**

Check if a string vector is in hexadecimal color format

**Usage**

```
is.hexcolor(x)
```

**Arguments**

x	A string vectors
---	------------------

**Examples**

```
x <- c("#f0f0f0", "#FFF", "#99990000", "#00FFFFFF")
```

```
is.hexcolor(x)
```

---

is.highchart	<i>Reports whether x is a highchart object</i>
--------------	--

---

**Description**

Reports whether x is a highchart object

**Usage**

```
is.highchart(x)
```

**Arguments**

x	An object to test
---	-------------------

---

list_parse	<i>Convert an object to list with identical structure</i>
------------	---

---

**Description**

This functions are similiar to `rlist::list.parse` but this removes names.

**Usage**

```
list_parse(df)
```

```
list_parse2(df)
```

```
list.parse2(df)
```

```
list.parse3(df)
```

**Arguments**

df	A data frame to parse to list
----	-------------------------------

**Examples**

```
x <- data.frame(a=1:3, type=c('A','C','B'), stringsAsFactors = FALSE)
```

```
list_parse(x)
```

```
list_parse2(x)
```

mutate\_mapping      *Modify data frame accoring to mapping*

---

**Description**

Modify data frame accoring to mapping

**Usage**

```
mutate_mapping(data, mapping)
```

**Arguments**

data            A data frame object.  
mapping        A mapping from hcaes function.

**Examples**

```
mutate_mapping(data = head(mtcars), mapping = hcaes(x = cyl, y = wt + cyl, group = gear))
```

---

pokemon            *pokemon*

---

**Description**

Information about 718 pokemon.

**Usage**

```
pokemon
```

**Format**

A data frame with 718 observations and 20 variables.

**Variables**

- id:
- pokemon:
- species\_id:
- height:
- weight:



- base\_experience:
- type\_1:
- type\_2:
- attack:
- defense:
- hp:
- special\_attack:
- special\_defense:
- speed:
- color\_1:
- color\_2:
- color\_f:
- egg\_group\_1:
- egg\_group\_2:
- url\_image:

**Source**

[jkunst.com/r/pokemon-visualize-em-all/](https://www.reddit.com/r/pokemon-visualize-em-all/)

---

random_id	<i>Function to generate iids</i>
-----------	----------------------------------

---

**Description**

Function to generate iids

**Usage**

```
random_id(n = 1, length = 10)
```

**Arguments**

n	Number of ids
length	Length of ids

---

renderHighchart	<i>Widget render function for use in Shiny</i>
-----------------	--

---

### Description

Widget render function for use in Shiny

### Usage

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

```
renderHighchart2(expr, env = parent.frame(), quoted = FALSE)
```

### Arguments

expr	A highchart expression.
env	A environment.
quoted	A boolean value.

---

stars	<i>stars</i>
-------	--------------

---

### Description

A sample using by Nadieg Bremer blocks. <http://bl.ocks.org/nbremer/eb0d1fd4118b731d069e2ff98dfadc47>.

### Usage

```
stars
```

### Format

A data frame with 404 observations and 6 variables.

### Variables

- bv: BV
- absmag: Magnitude
- lum: Luminosity
- temp: Temperature
- radiussun: Radius
- distance: Distance

---

str_to_id	<i>String to 'id' format</i>
-----------	------------------------------

---

**Description**

Turn a string to id format used in treemaps.

**Usage**

```
str_to_id(x)
```

**Arguments**

x	A vector string.
---	------------------

**Examples**

```
str_to_id(" A string _ with sd / sdg  Underscores \ ")
```

---

tooltip_table	<i>Helper for make table in tooltips</i>
---------------	--

---

**Description**

Helper to make table in tooltips for the pointFormat parameter in hc\_tooltip

**Usage**

```
tooltip_table(x, y, title = NULL, img = NULL, ...)
```

**Arguments**

x	A string vector with description text
y	A string with accessors ex: point.series.name, point.x
title	A title tag with accessor or string
img	Img tag
...	html attributes for the table element

## Examples

```
x <- c("Income:", "Genre", "Runtime")
y <- c("${point.y}", "{point.series.options.extra.genre}",
      "{point.series.options.extra.runtime}")

tooltip_table(x, y)
```

---

unemployment

*US Counties unemployment rate*

---

## Description

This data comes from the <https://www.highcharts.com/samples/data/jsonp.php?filename=us-counties-unemployment.json> and is used in highmaps examples.

## Usage

```
unemployment
```

## Format

A data.frame with 3 variables and 3.216 observations.

## Variables

- code: The county code.
- name: The county name.
- value: The unemployment.

## Source

<https://www.highcharts.com/samples/data/jsonp.php?filename=us-counties-unemployment.json>

---

uscountygeojson	<i>US Counties map in Geojson format (list)</i>
-----------------	---

---

**Description**

This data comes from the <https://code.highcharts.com/mapdata/countries/us/us-all-all.js> and is used in highmaps examples.

**Usage**

```
uscountygeojson
```

**Format**

A list in geojson format.

---

usgeojson	<i>US States map in Geojson format (list)</i>
-----------	---

---

**Description**

This data comes from the <https://code.highcharts.com/mapdata/countries/us/us-all.js> and is used in highmaps examples.

**Usage**

```
usgeojson
```

**Format**

A list in geojson format.

---

vaccines	<i>Vaccines</i>
----------	-----------------

---

**Description**

The number of infected people by Measles, measured over 70-some years and across all 50 states. From the WSJ analysis: <http://graphics.wsj.com/infectious-diseases-and-vaccines/>

**Usage**

vaccines

**Format**

A data frame with 3,876 observations and 3 variables.

**Variables**

- year: Year
- state: Name of the state
- count: Number of cases per 100,000 people. If the value is NA the count was 0.

---

weather	<i>Weather</i>
---------	----------------

---

**Description**

Temperature information of San Francisco.

**Usage**

weather

**Format**

A data frame with 365 observations and 4 variables.

**Variables**

- date: Day in date format.
- min\_temperaturec: Minimum temperature.
- max\_temperaturec: Maximun temperature.
- mean\_temperaturec: Mean temperature.

---

worldgeojson

*World map in Geojson format (list)*

---

**Description**

This data comes from the <https://code.highcharts.com/mapdata/custom/world.js> and is used in `highmaps examples.#'`

**Usage**

worldgeojson

**Format**

A list in geojson format.

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