

Package ‘highcharter’

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Type Package

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Title A Wrapper for the 'Highcharts' Library

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

URL <https://jkunst.com/highcharter/>,
<https://github.com/jbkunst/highcharter>

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

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citytemp	<i>City temperatures from a year in wide format</i>
----------	---

Description

This data comes from the <https://www.highcharts.com/> 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: London’s temperatures.

citytemp_long	<i>City temperatures from a year in long format</i>
---------------	---

Description

This data comes from the <https://www.highcharts.com/> examples.

Usage

```
citytemp_long
```

Format

A data frame with 36 observations and 3 variables.

Variables

- month: The months.
- citiy: City.
- temp: 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	<i>Function to create stops argument in hc_colorAxis</i>
-------------	--

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)
```

data_to_boxplot

Helper to transform data frame for boxplot highcharts format

Description

Helper to transform data frame for boxplot highcharts format

Usage

```
data_to_boxplot(
  data,
  variable,
  group_var = NULL,
  group_var2 = NULL,
  add_outliers = FALSE,
  ...
)
```

Arguments

data	The data frame containing variables.
variable	The variable to calculate the box plot data.
group_var	A variable to split calculation
group_var2	A second variable to create separate series.
add_outliers	A logical value indicating if outliers series should be calculated. Default to FALSE.
...	Arguments defined in https://api.highcharts.com/highcharts/plotOptions.series .

Examples

```
data(pokemon)

dat <- data_to_boxplot(pokemon, height)

highchart() %>%
  hc_xAxis(type = "category") %>%
  hc_add_series_list(dat)

dat <- data_to_boxplot(pokemon, height, type_1, name = "height in meters")

highchart() %>%
  hc_xAxis(type = "category") %>%
  hc_add_series_list(dat)
## Not run:
```

```
## End(Not run)
```

data_to_hierarchical	<i>Helper to transform data frame for treemap/sunburst highcharts format</i>
----------------------	--

Description

Helper to transform data frame for treemap/sunburst highcharts format

Usage

```
data_to_hierarchical(  
  data,  
  group_vars,  
  size_var,  
  colors = getOption("highcharter.color_palette")  
)
```

Arguments

data	data frame containing variables to organize each level of the treemap.
group_vars	Variables to generate treemap levels.
size_var	Variable to aggregate.
colors	Color to chart every item in the first level.

Examples

```
## Not run:  
  
library(dplyr)  
data(gapminder, package = "gapminder")  
  
gapminder_2007 <- gapminder::gapminder %>%  
  filter(year == max(year)) %>%  
  mutate(pop_mm = round(pop / 1e6))  
  
dout <- data_to_hierarchical(gapminder_2007, c(continent, country), pop_mm)  
  
hchart(dout, type = "sunburst")  
  
hchart(dout, type = "treemap")  
  
## End(Not run)
```

data_to_sankey	<i>Helper to transform data frame for sankey highcharts format</i>
----------------	--

Description

Helper to transform data frame for sankey highcharts format

Usage

```
data_to_sankey(data = NULL)
```

Arguments

data	A data frame
------	--------------

Examples

```
## Not run:  
library(dplyr)  
data(diamonds, package = "ggplot2")  
  
diamonds2 <- select(diamonds, cut, color, clarity)  
  
data_to_sankey(diamonds2)  
  
hchart(data_to_sankey(diamonds2), "sankey", name = "diamonds")  
  
## End(Not run)
```

datetime_to_timestamp	<i>Date to timestamps</i>
-----------------------	---------------------------

Description

Turn a date time vector to timestamp format

Usage

```
datetime_to_timestamp(dt)  
  
dt_tstp(dt)
```

Arguments

dt	Date or datetime vector
----	-------------------------

Examples

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

df_to_annotations_labels

Function to create annotations arguments from a data frame

Description

Function to create annotations arguments from a data frame

Usage

```
df_to_annotations_labels(df, xAxis = 0, yAxis = 0)
```

Arguments

df	A data frame with x, y and text columns names.
xAxis	Index (js 0-based) of the x axis to put the annotations.
yAxis	Index (js 0-based) of the y axis to put the annotations.

Examples

```
df <- data.frame(text = c("hi", "bye"), x = c(0, 1), y = c(1, 0))

df_to_annotations_labels(df)
```

download_map_data

Helper function to download the map data form a url

Description

The urls are listed in <https://code.highcharts.com/mapdata/>.

Usage

```
download_map_data(url = "custom/world.js", showinfo = FALSE, quiet = 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.
quiet	Boolean parameter to turn off download messages (on by default).

See Also

[hmap](#)

Examples

```
## Not run:
mpdta <- download_map_data("https://code.highcharts.com/mapdata/countries/us/us-ca-all.js")
mpdta <- download_map_data("https://code.highcharts.com/mapdata/countries/us/us-ca-all.js",
  quiet = TRUE
)
str(mpdta, 1)

## End(Not run)
```

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, as = "is", name = NULL)
```

Arguments

hc	A Highcharts object.
filename	String of the exported file.
as	String to define how to save the configuration options. One of 'is', 'container', 'variable'.
name	A variable used to put as name of the generated object if as is 'variable' and the css/js selector if is as is container.

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)
        )
      )
    )
  )
## Not run:
export_hc(hc, filename = "~/hc_is.js", as = "is")
export_hc(hc, filename = "~/hc_vr.js", as = "variable", name = "objectname")
export_hc(hc, filename = "~/hc_ct.js", as = "container", name = "#selectorid")

## End(Not run)
```

 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	<i>Marshall's Favorite Pies</i>
---------------	---------------------------------

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

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

Description

Helper 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`.

Usage

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

Arguments

<code>data</code>	A <code>data.frame</code> object.
<code>type</code>	The type of chart. Possible values are line, scatter, point, column.
<code>...</code>	Aesthetic mappings as <code>x y group color low high</code> .

Examples

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

<code>globaltemp</code>	<i>globaltemp</i>
-------------------------	-------------------

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	<i>Define aesthetic mappings. Similar in spirit to ggplot2::aes</i>
-------	---

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)
```

hcaes_string	<i>Define aesthetic mappings using strings. Similar in spirit to ggplot2::aes_string</i>
--------------	--

Description

Define aesthetic mappings using strings. Similar in spirit to ggplot2::aes_string

Usage

```
hcaes_string(x, y, ...)
```

```
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

```
hchart(mtcars, "point", hcaes_string("hp", "mpg", group = "cyl"))

hcaes_string(x = "xval", color = "colorvar", group = "grvar")
```

hcboxplot

Shortcut to make a boxplot

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 https://api.highcharts.com/highcharts/series .

Examples

```
## Not run:
hcboxplot(x = iris$Sepal.Length, var = iris$Species, color = "red")

## End(Not run)
```

hchart

Create a highchart object from a particular data type

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 (https://api.highcharts.com/highcharts/series).

Details

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

<code>hchart.survfit</code>	<i>Plot survival curves using Highcharts</i>
-----------------------------	--

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 <code>survfit</code> function
...	Extra parameters to pass to <code>hc_add_series</code> function
fun	Name of function or function used to transform the survival curve: <code>log</code> will put y axis on log scale, <code>event</code> plots cumulative events ($f(y) = 1-y$), <code>cumhaz</code> plots the cumulative hazard function ($f(y) = -\log(y)$), and <code>cloglog</code> 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)
```

hciconarray

Shortcut to make icon arrays charts

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 https://api.highcharts.com/highcharts/series .

hcmmap	Shortcut for create map from https://code.highcharts.com/mapdata/ collection.
--------	--

Description

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, a list from https://code.highcharts.com/mapdata/ . See examples.
download_map_data	A logical value whether to download (add as a dependency) the map. Default TRUE via <code>getOption("highcharter.download_map_data")</code> .
data	Optional data to make a choropleth, in case of use the <code>joinBy</code> and <code>value</code> are needed.
value	A string value with the name of the variable to chart.
joinBy	What property to join the map and df.
...	Additional shared arguments for the data series (https://api.highcharts.com/highcharts/series).

Examples

```
options(highcharter.download_map_data = TRUE)

# hcmmap(nullColor = "#DADADA")
# hcmmap(nullColor = "#DADADA", download_map_data = FALSE)

require(dplyr)
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"
```

```
# )

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

hccardords*Shortcut to create parallel coordinates*

Description

Shortcut to create parallel coordinates

Usage

```
hccardords(df, ...)
```

Arguments

<code>df</code>	A data frame object.
<code>...</code>	Additional shared arguments for the data series (https://api.highcharts.com/highcharts/series) for the <code>hchar.data.frame</code> function.

Examples

```
require(viridisLite)

n <- 15

hccardords(head(mtcars, n), color = hex_to_rgba(magma(n), 0.5))

require(dplyr)
data(iris)
set.seed(123)

iris <- sample_n(iris, 60)

hccardords(iris, color = colorize(iris$Species))
```

hcpxy_add_point	<i>Add point to a series of a higchartProxy object</i>
-----------------	--

Description

Add point to a series of a higchartProxy object

Usage

```
hcpxy_add_point(
  proxy,
  id = NULL,
  point,
  redraw = TRUE,
  shift = FALSE,
  animation = TRUE
)
```

Arguments

proxy	A higchartProxy object.
id	A character vector indicating the id of the series to update.
point	The point options. If options is a single number, a point with that y value is appended to the series. If it is an list, it will be interpreted as x and y values respectively. If it is an object, advanced options as outlined under series.data are applied
redraw	Whether to redraw the chart after the point is added. When adding more than one point, it is highly recommended that the redraw option be set to false, and instead Highcharts.Chart#redraw is explicitly called after the adding of points is finished. Otherwise, the chart will redraw after adding each point.
shift	If TRUE, a point is shifted off the start of the series as one is appended to the end.
animation	Whether to apply animation, and optionally animation configuration.

hcpxy_add_series	<i>Add data to higchartProxy element</i>
------------------	--

Description

Add data to higchartProxy element

Usage

```
hcpxy_add_series(proxy, data = NULL, ...)
```

Arguments

proxy	A higchartProxy object.
data	An R object supported by hc_add_series like data frame, ts, etc.
...	Arguments defined in https://api.highcharts.com/highcharts/plotOptions.series .

hcpy_loading	<i>Show or hide loading text for a higchartProxy object</i>
--------------	---

Description

Show or hide loading text for a higchartProxy object

Usage

```
hcpy_loading(proxy, action = "show")
```

Arguments

proxy	A higchartProxy object.
action	Single-element character vector indicating to "show" or "hide" the loading text defined in lang options.

hcpy_redraw	<i>Redraw a higchartProxy object</i>
-------------	--------------------------------------

Description

Redraw a higchartProxy object

Usage

```
hcpy_redraw(proxy)
```

Arguments

proxy	A higchartProxy object.
-------	-------------------------

hcpy_remove_point *Remove point to a series of a higchartProxy object*

Description

Remove point to a series of a higchartProxy object

Usage

```
hcpy_remove_point(proxy, id = NULL, i = NULL, redraw = TRUE)
```

Arguments

proxy	A higchartProxy object.
id	A character vector indicating the id of the series to update.
i	The index of the point in the data array. Remember js is 0 based index.
redraw	Whether to redraw the chart after the point is added. When adding more than one point, it is highly recommended that the redraw option be set to false, and instead Highcharts.Chart#redraw is explicitly called after the adding of points is finished. Otherwise, the chart will redraw after adding each point.

hcpy_remove_series *Remove series to higchartProxy element*

Description

Remove series to higchartProxy element

Usage

```
hcpy_remove_series(proxy, id = NULL, all = FALSE)
```

Arguments

proxy	A higchartProxy object.
id	A character vector indicating the id (or ids) of the series to remove.
all	A logical value to indicate to remove or not all series. The values is used only when the value is TRUE.

hcpy_set_data	<i>Update data for a higchartProxy object</i>
---------------	---

Description

Update data for a higchartProxy object

Usage

```
hcpy_set_data(
  proxy,
  type,
  data,
  mapping = hcaes(),
  redraw = FALSE,
  animation = NULL,
  updatePoints = TRUE
)
```

Arguments

proxy	A higchartProxy object.
type	series type (column, bar, line, etc)
data	dataframe of new data to send to chart
mapping	how data should be mapped using hcaes()
redraw	boolean Whether to redraw the chart after the series is altered. If doing more operations on the chart, it is a good idea to set redraw to false and call hcpy_redraw after.
animation	boolean When the updated data is the same length as the existing data, points will be updated by default, and animation visualizes how the points are changed. Set false to disable animation, or a configuration object to set duration or easing.
updatePoints	boolean When this is TRUE, points will be updated instead of replaced whenever possible. This occurs a) when the updated data is the same length as the existing data, b) when points are matched by their id's, or c) when points can be matched by X values. This allows updating with animation and performs better. In this case, the original array is not passed by reference. Set FALSE to prevent.

hcpxy_update	<i>Update options for a higchartProxy object</i>
--------------	--

Description

Update options for a higchartProxy object

Usage

```
hcpxy_update(proxy, ...)
```

Arguments

proxy	A higchartProxy object.
...	Named options.

hcpxy_update_point	<i>Update options series in a higchartProxy object</i>
--------------------	--

Description

Update options series in a higchartProxy object

Usage

```
hcpxy_update_point(proxy, id = NULL, id_point = NULL, ...)
```

Arguments

proxy	A higchartProxy object.
id	A character indicating the id of the series' point to update.
id_point	A vector value indicating the point's index to update, (0 based).
...	Arguments defined in https://api.highcharts.com/class-reference/Highcharts.Point . The arguments will be the same for each series. So if you want update data it is used this function sequentially for each point

hcpy_update_series	<i>Update options series in a highchartProxy object</i>
--------------------	---

Description

Update options series in a highchartProxy object

Usage

```
hcpy_update_series(proxy, id = NULL, ...)
```

Arguments

proxy	A highchartProxy object.
id	A character vector indicating the id (or ids) of the series to update.
...	Arguments defined in https://api.highcharts.com/highcharts/plotOptions.series . The arguments will be the same for each series. So if you want update data it is used this function sequentially for each series.

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

Description

Shortcut to make spkarlines

Usage

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

Arguments

x	A numeric vector.
type	Type sparkline: line, bar, etc.
...	Additional arguments for the data series https://api.highcharts.com/highcharts/series .

Examples

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

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

hctreemap*Shortcut for create treemaps*

Description

This function helps to create highcharts treemaps from treemap objects from the package treemap.
NOTE: This function is deprecated. Please use hctreemap2 instead.

Usage

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

Arguments

tm	A treemap object from the treemap package.
...	Additional shared arguments for the data series (https://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)
```

hctreemap2	<i>Shortcut to create treemaps.</i>
------------	-------------------------------------

Description

This function helps create highcharts treemaps from data frames.

Usage

```
hctreemap2(data, group_vars, size_var, color_var = NULL, ...)
```

Arguments

data	data frame containing variables to organize each level of the treemap on
group_vars	vector of strings containing column names of variables to generate treemap levels from. the first listed column will specify the top level of the treemap. the unique values in each of these columns must have no intersection (including NAs).
size_var	string name of column containing numeric data to aggregate by
color_var	string name of column containing numeric data to color by. defaults to same column as size_var
...	additional shared arguments for the data series (https://api.highcharts.com/highcharts/series).

Value

highchart plot object

Examples

```
## Not run:

library(tidyverse)
library(highcharter)
library(RColorBrewer)

tibble(
  index1 = sample(LETTERS[1:5], 500, replace = T),
  index2 = sample(LETTERS[6:10], 500, replace = T),
  index3 = sample(LETTERS[11:15], 500, replace = T),
  value = rpois(500, 5),
  color_value = rpois(500, 5)
) %>%
  hctreemap2(
    group_vars = c("index1", "index2", "index3"),
    size_var = "value",
    color_var = "color_value",
    layoutAlgorithm = "squarified",
```

```

    levelIsConstant = FALSE,
    levels = list(
      list(level = 1, dataLabels = list(enabled = TRUE)),
      list(level = 2, dataLabels = list(enabled = FALSE)),
      list(level = 3, dataLabels = list(enabled = FALSE))
    )
  ) %>%
  hc_colorAxis(
    minColor = brewer.pal(7, "Greens")[1],
    maxColor = brewer.pal(7, "Greens")[7]
  ) %>%
  hc_tooltip(pointFormat = "<b>{point.name}</b>:<br>
    Value: {point.value:,.0f}<br>
    Color Value: {point.colorValue:,.0f}")

## End(Not run)

```

 hc_add_annotation

Helper to add annotations from data frame or list

Description

Helper to add annotations from data frame or list

Usage

```
hc_add_annotation(hc, ...)
```

```
hc_add_annotations(hc, x)
```

Arguments

hc	A highchart htmlwidget object.
...	Arguments defined in https://api.highcharts.com/highcharts/annotations .
x	A list or a data.frame of annotations.

Details

The x elements must have xValue and yValue elements

hc_add_dependency	<i>Add modules or plugin dependencies to highcharts objects</i>
-------------------	---

Description

Add modules or plugin dependencies to highcharts objects

Usage

```
hc_add_dependency(hc, name = "plugins/annotations.js")
```

Arguments

hc	A highchart htmlwidget object.
name	The partial path to the plugin or module, example: "plugins/annotations.js"

Details

See vignette("modules")

Examples

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

hchart(mpg, "point", hcaes(displ, hwy),
  regression = TRUE,
  regressionSettings = list(type = "polynomial", order = 5, hideInLegend = TRUE)
) %>%
  hc_add_dependency("plugins/highcharts-regression.js")

hchart(mpg, "point", hcaes(displ, hwy, group = drv), regression = TRUE) %>%
  hc_colors(c("#d35400", "#2980b9", "#2ecc71")) %>%
  hc_add_dependency("plugins/highcharts-regression.js")
```

hc_add_dependency_fa	<i>Helpers functions to get FontAwesome icons code</i>
----------------------	--

Description

Helpers functions to get FontAwesome icons code

Usage

```
hc_add_dependency_fa(hc)

fa_icon(iconname = "circle")

fa_icon_mark(iconname = "circle")
```

Arguments

hc	A highchart htmlwidget object.
iconname	The icon's name

hc_add_event_point	<i>Helpers to use highcharter as input in shiny apps</i>
--------------------	--

Description

When you use highcharter in a shiny app, for example `renderHighcharter('my_chart')`, you can access to the actions of the user using and then use the `hc_add_event_point` via the `my_chart` input (`input$my_chart`). That's a way you can use a chart as an input.

Usage

```
hc_add_event_point(hc, series = "series", event = "click")

hc_add_event_series(hc, series = "series", event = "click")
```

Arguments

hc	A highchart htmlwidget object.
series	The name of type of series to apply the event.
event	The name of event: click, mouseOut, mouseOver. See https://api.highcharts.com/highcharts/plotOptions.area.spline.range.point.events.select for more details.

Note

Event details are accessible from `hc_name_EventType`, i.e. if a highchart is rendered against `output$my_hc` and we wanted the coordinates of the user-clicked point we would use `input$my_hc_click`

hc_add_series	<i>Adding data to highchart objects</i>
---------------	---

Description

Adding data to 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 https://api.highcharts.com/highcharts/plotOptions.series .

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 = "orange")
```

 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 https://api.highcharts.com/highcharts/plotOptions.series .

```
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(), fast = FALSE, ...)
```

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.
fast	convert to json during the composition of a highchart object
...	Arguments defined in https://api.highcharts.com/highcharts/chart .

```
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 https://api.highcharts.com/highcharts/plotOptions.series .

 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,
  name = NULL,
  ...
)
```

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 predictions bands.
fillOpacity	The opacity of bands.
name	The name of the series.
...	Arguments defined in https://api.highcharts.com/highcharts/chart .

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 https://api.highcharts.com/highcharts/plotOptions.series .

hc_add_series.lm	<i>hc_add_series for lm and loess objects</i>
------------------	---

Description

hc_add_series for lm and loess objects

Usage

```
## S3 method for class 'lm'
hc_add_series(
  hc,
  data,
  type = "line",
  color = "#5F83EE",
  fillOpacity = 0.1,
  ...
)

## S3 method for class 'loess'
hc_add_series(
  hc,
  data,
  type = "line",
  color = "#5F83EE",
  fillOpacity = 0.1,
  ...
)
```

Arguments

hc	A highchart htmlwidget object.
data	A lm or loess object.
type	The type of the series: line, spline.
color	A stringr color.
fillOpacity	fillOpacity to the confidence interval.
...	Arguments defined in https://api.highcharts.com/highcharts/chart .

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 https://api.highcharts.com/highcharts/plotOptions.series .

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 https://api.highcharts.com/highcharts/plotOptions.series .

hc_add_series.xts	<i>hc_add_series for xts objects</i>
-------------------	--------------------------------------

Description

hc_add_series for xts objects

Usage

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

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

Arguments

hc	A highchart htmlwidget object.
data	A xts object.
...	Arguments defined in https://api.highcharts.com/highcharts/plotOptions.series .
type	The way to show the xts object. Can be 'candlestick' or 'ohlc'.

hc_add_series_list	<i>Shortcut for data series from a list of data series</i>
--------------------	--

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	<i>Add a map series</i>
-------------------	-------------------------

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 variable to chart.
joinBy	What property to join the map and df
...	Additional shared arguments for the data series (https://api.highcharts.com/highcharts/series).

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_theme

Add themes to a highchart object

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_annotations

Annotations options for highcharter objects

Description

A basic type of an annotation. It allows to add custom labels or shapes. The items can be tied to points, axis coordinates or chart pixel coordinates.

Usage

```
hc_annotations(hc, ...)
```

Arguments

hc	A highchart htmlwidget object.
...	Arguments defined in https://api.highcharts.com/highcharts/annotations .

Examples

```

# Ex 1
highchart() %>%
  hc_add_series(
    data = c(29.9, 71.5, 106.4, 129.2, 144.0, 176.0, 135.6, 148.5, 216.4, 194.1, 95.6, 54.4)
  ) %>%
  hc_xAxis(
    tickInterval = 0.5,
    gridLineWidth = 1
  ) %>%
  hc_annotations(
    list(
      labels =
        list(
          list(
            point = list(x = 3, y = 129.2, xAxis = 0, yAxis = 0),
            text = "x: {x}<br/>y: {y}"
          ),
          list(
            point = list(x = 9, y = 194.1, xAxis = 0, yAxis = 0),
            text = "x: {x}<br/>y: {y}"
          ),
          list(
            point = list(x = 5, y = 100, xAxis = 0),
            text = "x: {x}<br/>y: {point.plotY} px"
          ),
          list(

```

```

        point = list(x = 0, y = 0),
        text = "x: {point.plotX} px<br/>y: {point.plotY} px"
    )
)
)
)

# Ex 2
df <- data.frame(
  x = 1:10,
  y = 1:10
)

highchart() %>%
  hc_add_series(data = df, hcaes(x = x, y = y), type = "area") %>%
  hc_annotations(
    list(
      labels = list(
        list(point = list(x = 5, y = 5, xAxis = 0, yAxis = 0), text = "Middle"),
        list(point = list(x = 1, y = 1, xAxis = 0, yAxis = 0), text = "Start")
      )
    )
  )
)

```

 hc_boost

Boost options for highcharter objects

Description

Options for the Boost module. The Boost module allows certain series types to be rendered by WebGL instead of the default SVG. This allows hundreds of thousands of data points to be rendered in milliseconds. In addition to the WebGL rendering it saves time by skipping processing and inspection of the data wherever possible. This introduces some limitations to what features are available in boost mode. See the docs for details. In addition to the global boost option, each series has a `boostThreshold` that defines when the boost should kick in. Requires the `modules/boost.js` module.

Usage

```
hc_boost(hc, ...)
```

Arguments

hc	A highchart htmlwidget object.
...	Arguments defined in https://api.highcharts.com/highcharts/boost .

Examples

```

# Ex 1
options(highcharter.rjson = FALSE)

n <- 50000

x <- sin(4 * 2 * pi * seq(n) / n) + rnorm(n) / 10

x <- round(x, 3)

plot(x)

hc1 <- highchart() %>%
  hc_chart(zoomType = "x") %>%
  hc_add_series(data = x) %>%
  hc_title(text = "No boost") %>%
  hc_boost(
    enabled = FALSE # Default
  )

hc1

# Boost is a stripped-down renderer-in-a-module for Highcharts. It bypasses
# some of the standard Highcharts features (such as animation), and focuses
# on pushing as many points as possible as quickly as possible.

hc2 <- highchart() %>%
  hc_chart(zoomType = "x") %>%
  hc_add_series(data = x) %>%
  hc_title(text = "With boost") %>%
  hc_boost(enabled = TRUE)

hc2

# # Ex 2
# library(MASS)
#
# n <- 20000
#
# sigma <- matrix(c(10,3,3,2),2,2)
# sigma
#
# mvr <- round(mvrnorm(n, rep(c(0, 0)), sigma), 2)
#
# vx <- ceiling(1+abs(max(mvr[, 1])))
# vy <- ceiling(1+abs(max(mvr[, 2])))
#
# # unnamed list
# ds <- list_parse2(as.data.frame(mvr))
#
# highchart() %>%

```

```

# hc_chart(zoomType = "xy") %>%
# hc_xAxis(min = -vx, max = vx) %>%
# hc_yAxis(min = -vy, max = vy) %>%
# hc_add_series(
#   data = ds, #list
#   type = "scatter",
#   name = "A lot of points!",
#   color = 'rgba(0,0,0,0.1)',
#   marker = list(radius = 2)
# ) %>%
# hc_boost(
#   enabled = TRUE
# )
#
# dat <- as.data.frame(mvr)
# names(dat) <- c("x", "y")
#
# highchart() %>%
#   hc_chart(zoomType = "xy") %>%
#   hc_xAxis(min = -vx, max = vx) %>%
#   hc_yAxis(min = -vy, max = vy) %>%
#   hc_add_series(
#     data = dat,
#     type = "scatter",
#     hcaes(x, y),
#     name = "A lot of points!",
#     color = 'rgba(0,0,0,0.1)',
#     marker = list(radius = 2)
#   ) %>%
#   hc_boost(enabled = TRUE)
#
# # Ex3
# N <- 1000000
# n <- 5
# s <- seq(n)
# s <- s/(max(s) + min(s))
# s <- round(s, 2)
#
# series <- s %>%
#   purrr::map(~ stats::arima.sim(round(N/n), model = list(ar = .x)) + .x * n * 20) %>%
#   purrr::map(as.vector) %>%
#   purrr::map(round, 2) %>%
#   purrr::map(~ list(data = .x))
#
# highchart() %>%
#   hc_add_series_list(series) %>%
#   hc_chart(zoomType = "x") %>%
#   hc_boost(enabled = TRUE)

```

Description

The chart's caption, which will render below the chart and will be part of exported charts. The caption can be updated after chart initialization through the `Chart.update` or `Chart.caption.update` methods.

Usage

```
hc_caption(hc, ...)
```

Arguments

hc	A highchart htmlwidget object.
...	Arguments defined in https://api.highcharts.com/highcharts/caption .

Examples

```
highchart() %>%
  hc_title(text = "Chart with a caption") %>%
  hc_subtitle(text = "This is the subtitle") %>%
  hc_xAxis(categories = c("Apples", "Pears", "Banana", "Orange")) %>%
  hc_add_series(
    data = c(1, 4, 3, 5),
    type = "column",
    name = "Fruits"
  ) %>%
  hc_caption(
    text = "<b>The caption renders in the bottom, and is part of the exported
chart.</b><br><em>Lorem ipsum dolor sit amet, consectetur adipiscing elit,
sed do eiusmod tempor incididunt ut labore et dolore magna aliqua. Ut enim
ad minim veniam, quis nostrud exercitation ullamco laboris nisi ut aliquip
ex ea commodo consequat. Duis aute irure dolor in reprehenderit in voluptate
velit esse cillum dolore eu fugiat nulla pariatur. Excepteur sint occaecat
cupidatat non proident, sunt in culpa qui officia deserunt mollit anim id est
laborum.</em>"
  )
```

 hc_chart

Chart options for highcharter objects

Description

General options for the chart.

Usage

```
hc_chart(hc, ...)
```

Arguments

hc A highchart htmlwidget object.

... Arguments defined in <https://api.highcharts.com/highcharts/chart>.

Examples

```
hc <- highchart() %>%
  hc_xAxis(categories = month.abb) %>%
  hc_add_series(name = "Tokyo", data = sample(1:12)) %>%
  hc_add_series(name = "London", data = sample(1:12) + 10)

hc

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

Coloraxis options for highcharter objects

Description

A color axis for series. Visually, the color axis will appear as a gradient or as separate items inside the legend, depending on whether the axis is scalar or based on data classes. For supported color formats, see the docs article about colors. A scalar color axis is represented by a gradient. The colors either range between the minColor and the maxColor, or for more fine grained control the colors can be defined in stops. Often times, the color axis needs to be adjusted to get the right color spread for the data. In addition to stops, consider using a logarithmic axis type, or setting min and max to avoid the colors being determined by outliers. When dataClasses are used, the ranges are subdivided into separate classes like categories based on their values. This can be used for ranges between two values, but also for a true category. However, when your data is categorized,

it may be as convenient to add each category to a separate series. Color axis does not work with: sankey, sunburst, dependencywheel, networkgraph, wordcloud, venn, gauge and solidgauge series types. Since v7.2.0 colorAxis can also be an array of options objects. See the Axis object for programmatic access to the axis.

Usage

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

Arguments

hc	A highchart htmlwidget object.
...	Arguments defined in https://api.highcharts.com/highcharts/colorAxis .

Examples

```
library(dplyr)

data(mpg, package = "ggplot2")

mpgman2 <- mpg %>%
  group_by(manufacturer, year) %>%
  dplyr::summarise(
    n = dplyr::n(),
    displ = mean(displ)
  )

mpgman2

hchart(
  mpgman2, "column", hcaes(x = manufacturer, y = n, group = year),
  colorKey = "displ",
  # color = c("#FCA50A", "#FCFFA4"),
  name = c("Year 1999", "Year 2008")
) %>%
  hc_colorAxis(min = 0, max = 5)

# defaults to yAxis
hchart(iris, "point", hcaes(Sepal.Length, Sepal.Width)) %>%
  hc_colorAxis(
    minColor = "red",
    maxColor = "blue"
  )

# Ex2
n <- 5

stops <- data.frame(
  q = 0:n / n,
```

```

c = c("#440154", "#414487", "#2A788E", "#22A884", "#7AD151", "#FDE725"),
stringsAsFactors = FALSE
)

stops <- list_parse2(stops)

M <- round(matrix(rnorm(50 * 50), ncol = 50), 2)

hchart(M) %>%
  hc_colorAxis(stops = stops)

# Ex3
# hchart(volcano) %>%
#   hc_colorAxis(stops = stops, max = 200)

```

hc_colors

Colors options for highcharter 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)

highchart() %>%
  hc_add_series(data = sample(1:12)) %>%
  hc_add_series(data = sample(1:12) + 10) %>%
  hc_add_series(data = sample(1:12) + 20) %>%
  hc_colors(cols)

```

hc_credits*Credits options for highcharter objects*

Description

Highchart by default puts a credits label in the lower right corner of the chart. This can be changed using these options.

Usage

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

Arguments

hc	A highchart htmlwidget object.
...	Arguments defined in https://api.highcharts.com/highcharts/credits .

Examples

```
highchart() %>%  
  hc_xAxis(categories = citytemp$month) %>%  
  hc_add_series(name = "Tokyo", data = sample(1:12)) %>%  
  hc_credits(  
    enabled = TRUE,  
    text = "htmlwidgets.org",  
    href = "http://www.htmlwidgets.org/"  
  )
```

hc_drilldown*Drilldown options for highcharter objects*

Description

Options for drill down, the concept of inspecting increasingly high resolution data through clicking on chart items like columns or pie slices. The drilldown feature requires the drilldown.js file to be loaded, found in the modules directory of the download package, or online at code.highcharts.com/modules/drilldown.js.

Usage

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

Arguments

hc	A highchart htmlwidget object.
...	Arguments defined in https://api.highcharts.com/highcharts/drilldown .

Examples

```

library(highcharter)
library(dplyr)
library(purrr)

df <- tibble(
  name = c("Animals", "Fruits"),
  y = c(5, 2),
  drilldown = tolower(name)
)

df

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

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)
)

dsan <- list_parse2(dfan)

dsfru <- list_parse2(dffru)

hc <- hc %>%
  hc_drilldown(
    allowPointDrilldown = TRUE,
    series = list(
      list(
        id = "animals",

```

```

        data = dsan
      ),
      list(
        id = "fruits",
        data = dsfru
      )
    )
  )
  hc

```

hc_elementId	<i>Setting elementId</i>
--------------	--------------------------

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	<i>Exporting options for highcharter objects</i>
--------------	--

Description

Options for the exporting module. For an overview on the matter, see the docs.

Usage

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

Arguments

hc	A highchart htmlwidget object.
...	Arguments defined in https://api.highcharts.com/highcharts/exporting .

Examples

```
highchart() %>%
  hc_xAxis(categories = month.abb) %>%
  hc_add_series(name = "Tokyo", data = sample(1:12)) %>%
  hc_exporting(
    enabled = TRUE, # always enabled
    filename = "custom-file-name"
  )
```

hc_labels

Labels options for highcharter objects

Description

HTML labels that can be positioned anywhere in the chart area. This option is deprecated since v7.1.2. Instead, use annotations that support labels.

Usage

```
hc_labels(hc, ...)
```

Arguments

hc A highchart htmlwidget object.

... Arguments defined in <https://api.highcharts.com/highcharts/labels>.

Examples

```
highchart() %>%
  hc_add_series(data = sample(1:12)) %>%
  hc_labels(
    items = list(
      list(
        html = "<p>Some <b>important</b><br>text</p>",
        style = list(
          left = "150%",
          top = "150%"
        )
      )
    )
  )
```

hc_legend

*Legend options for highcharter objects***Description**

The legend is a box containing a symbol and name for each series item or point item in the chart. Each series (or points in case of pie charts) is represented by a symbol and its name in the legend. It is possible to override the symbol creator function and create custom legend symbols.

Usage

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

Arguments

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

Details

A Highmaps legend by default contains one legend item per series, but if a colorAxis is defined, the axis will be displayed in the legend. Either as a gradient, or as multiple legend items for dataClasses.

Examples

```
highchart() %>%
  hc_xAxis(categories = month.abb) %>%
  hc_add_series(name = "Tokyo", data = sample(1:12)) %>%
  hc_add_series(name = "London", data = sample(1:12) + 10) %>%
  hc_add_series(name = "Other City", data = sample(1:12) + 20) %>%
  hc_legend(
    align = "left",
    verticalAlign = "top",
    layout = "vertical",
    x = 0,
    y = 100
  )
```

hc_loading

*Loading options for highcharter objects***Description**

The loading options control the appearance of the loading screen that covers the plot area on chart operations. This screen only appears after an explicit call to `chart.showLoading()`. It is a utility for developers to communicate to the end user that something is going on, for example while retrieving new data via an XHR connection. The "Loading..." text itself is not part of this configuration object, but part of the lang object.

Usage

```
hc_loading(hc, ...)
```

Arguments

hc	A highchart htmlwidget object.
...	Arguments defined in https://api.highcharts.com/highcharts/loading .

Examples

```
highcharts_demo() %>%  
  hc_loading(  
    hideDuration = 1000,  
    showDuration = 1000  
  )
```

hc_mapNavigation	<i>Mapnavigation options for highcharter objects</i>
------------------	--

Description

Mapnavigation options for highcharter objects

Usage

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

Arguments

hc	A highchart htmlwidget object.
...	Arguments defined in https://api.highcharts.com/highmaps/mapNavigation .

Examples

```
hcmmap(download_map_data = TRUE) %>%  
  hc_mapNavigation(  
    enabled = TRUE,  
    enableMouseWheelZoom = TRUE,  
    enableDoubleClickZoom = TRUE  
  )
```

hc_motion	<i>Setting 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, enabled = TRUE, startIndex = 0, ...)
```

Arguments

hc	A highchart htmlwidget object.
enabled	Enable the motion plugin.
startIndex	start index, default to 0.
...	Arguments defined in https://github.com/TorsteinHonsi/Motion-Highcharts-Plugin/wiki .

hc_navigator	<i>Navigator options for highcharter objects</i>
--------------	--

Description

The navigator is a small series below the main series, displaying a view of the entire data set. It provides tools to zoom in and out on parts of the data as well as panning across the dataset.

Usage

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

Arguments

hc	A highchart htmlwidget object.
...	Arguments defined in https://api.highcharts.com/highstock/navigator .

Examples

```

highchart(type = "stock") %>%
  hc_add_series(AirPassengers) %>%
  hc_rangeSelector(selected = 4) %>%
  hc_navigator(
    outlineColor = "gray",
    outlineWidth = 2,
    series = list(
      color = "red",
      lineWidth = 2,
      type = "areaspline", # you can change the type
      fillColor = "rgba(255, 0, 0, 0.2)"
    ),
    handles = list(
      backgroundColor = "yellow",
      borderColor = "red"
    )
  )

```

 hc_pane

Pane options for highcharter objects

Description

The pane serves as a container for axes and backgrounds for circular gauges and polar charts.

Usage

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

Arguments

hc	A highchart htmlwidget object.
...	Arguments defined in https://api.highcharts.com/highcharts/pane .

Examples

```

highchart() %>%
  hc_chart(
    type = "gauge",
    plotBackgroundColor = NULL,
    plotBackgroundImage = NULL,
    plotBorderWidth = 0,
    plotShadow = FALSE
  ) %>%
  hc_title(
    text = "Speedometer"
  ) %>%
  hc_pane(

```

```

startAngle = -150,
endAngle = 150,
background = list(list(
  backgroundColor = list(
    linearGradient = list(x1 = 0, y1 = 0, x2 = 0, y2 = 1),
    stops = list(
      list(0, "#FFF"),
      list(1, "#333")
    )
  ),
  borderWidth = 0,
  outerRadius = "109%"
), list(
  backgroundColor = list(
    linearGradient = list(x1 = 0, y1 = 0, x2 = 0, y2 = 1),
    stops = list(
      list(0, "#333"),
      list(1, "#FFF")
    )
  ),
  borderWidth = 1,
  outerRadius = "107%"
), list(
  # default background
), list(
  backgroundColor = "#DDD",
  borderWidth = 0,
  outerRadius = "105%",
  innerRadius = "103%"
))
) %>%
hc_add_series(
  data = list(80), name = "speed", tooltip = list(valueSuffix = " km/h")
) %>%
hc_yAxis(
  min = 0,
  max = 200,
  minorTickInterval = "auto",
  minorTickWidth = 1,
  minorTickLength = 10,
  minorTickPosition = "inside",
  minorTickColor = "#666",
  tickPixelInterval = 30,
  tickWidth = 2,
  tickPosition = "inside",
  tickLength = 10,
  tickColor = "#666",
  labels = list(
    step = 2,
    rotation = "auto"
  ),
),
title = list(
  text = "km/h"
)

```

```

    ),
    plotBands = list(
      list(from = 0, to = 120, color = "#55BF3B"),
      list(from = 120, to = 160, color = "#DDDF0D"),
      list(from = 160, to = 200, color = "#DF5353")
    )
  )
)

```

 hc_plotOptions

Plotoptions options for highcharter 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. Configuration options for the series are given in three levels. Options for all series in a chart are given in the plotOptions.series object. Then options for all series of a specific type are given in the plotOptions of that type, for example plotOptions.line. Next, options for one single series are given in the series array.

Usage

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

Arguments

hc	A highchart htmlwidget object.
...	Arguments defined in https://api.highcharts.com/highcharts/plotOptions .

Examples

```

highchart() %>%
  hc_add_series(
    data = c(29.9, 71.5, 106.4, 129.2, 144.0, 176.0, 135.6, 148.5, 216.4, 194.1, 95.6, 54.4)
  ) %>%
  hc_plotOptions(
    line = list(
      color = "blue",
      marker = list(
        fillColor = "white",
        lineWidth = 2,
        lineColor = NULL
      )
    )
  )
)

```

hc_rangeSelector	<i>Rangeselector options for highcharter objects</i>
------------------	--

Description

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 https://api.highcharts.com/highstock/rangeSelector .

Examples

```
hc <- highchart(type = "stock") %>%
  hc_add_series(AirPassengers)

hc

hc %>%
  hc_rangeSelector(enabled = FALSE)

hc %>%
  hc_rangeSelector(
    verticalAlign = "bottom",
    selected = 4
  )
```

hc_responsive	<i>Responsive options for highcharter objects</i>
---------------	---

Description

Allows setting a set of rules to apply for different screen or chart sizes. Each rule specifies additional chart options.

Usage

```
hc_responsive(hc, ...)
```

Arguments

hc A highchart htmlwidget object.

... Arguments defined in <https://api.highcharts.com/highcharts/responsive>.

Examples

```
leg_500_opts <- list(enabled = FALSE)
leg_900_opts <- list(align = "right", verticalAlign = "middle", layout = "vertical")

# change the with of the container/windows to see the effect
highchart() %>%
  hc_add_series(data = cumsum(rnorm(100))) %>%
  hc_responsive(
    rules = list(
      # remove legend if there is no much space
      list(
        condition = list(maxWidth = 500),
        chartOptions = list(legend = leg_500_opts)
      ),
      # put legend on the right when there is much space
      list(
        condition = list(minWidth = 900),
        chartOptions = list(legend = leg_900_opts)
      )
    )
  )
)
```

 hc_rm_series

Removing series to highchart objects

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

*Scrollbar options for highcharter objects***Description**

The scrollbar is a means of panning over the X axis of a stock chart. Scrollbars can also be applied to other types of axes. Another approach to scrollable charts is the `chart.scrollablePlotArea` option that is especially suitable for simpler cartesian charts on mobile. In styled mode, all the presentational options for the scrollbar are replaced by the classes `.highcharts-scrollbar-thumb`, `.highcharts-scrollbar-arrow`, `.highcharts-scrollbar-button`, `.highcharts-scrollbar-rifles` and `.highcharts-scrollbar-track`.

Usage

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

Arguments

hc	A highchart htmlwidget object.
...	Arguments defined in https://api.highcharts.com/highstock/scrollbar .

Examples

```
highchart(type = "stock") %>%
  hc_add_series(AirPassengers) %>%
  hc_rangeSelector(selected = 4) %>%
  hc_scrollbar(
    barBackgroundColor = "gray",
    barBorderRadius = 7,
    barBorderWidth = 0,
    buttonBackgroundColor = "gray",
    buttonBorderWidth = 0,
    buttonArrowColor = "yellow",
    buttonBorderRadius = 7,
    rifleColor = "yellow",
    trackBackgroundColor = "white",
    trackBorderWidth = 1,
    trackBorderColor = "silver",
    trackBorderRadius = 7
  )
```

 hc_series

Series options for highcharter objects

Description

Series options for specific data and the data itself. In TypeScript you have to cast the series options to specific series types, to get all possible options for a series.

Usage

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

Arguments

hc	A highchart htmlwidget object.
...	Arguments defined in https://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

Changing the size of a highchart object

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 <- hchart(ts(rnorm(100))), showInLegend = FALSE)

hc_size(hc, 200, 200)
```

hc_subtitle	<i>Subtitle options for highcharter objects</i>
-------------	---

Description

The chart's subtitle. This can be used both to display a subtitle below the main title, and to display random text anywhere in the chart. The subtitle can be updated after chart initialization through the `Chart.setTitle` method.

Usage

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

Arguments

hc	A highchart htmlwidget object.
...	Arguments defined in https://api.highcharts.com/highcharts/subtitle .

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_subtitle(
    text = "And this is a subtitle with more information",
    align = "left",
    style = list(color = "#2b908f", fontWeight = "bold")
  )
```

hc_theme	<i>Creating highcharter themes</i>
----------	------------------------------------

Description

Highcharts is very flexible so you can modify every element of the chart. There are some exiting themes so you can apply style to charts with few lines of code.

Usage

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

Arguments

... A list of named parameters.

Details

More examples and details in <https://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_add_theme(hc, thm)
```

hc_theme_538

Theme collection for highcharts

Description

Highcharts is very flexible so you can modify every element of the chart. There are some exiting themes so you can apply style to charts with few lines of code.

Usage

```
hc_theme_538(...)

hc_theme_sparkline_vb(...)

hc_theme_tufte2(...)
```

Arguments

... A named parameters to modify the theme.

Examples

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

highcharts_demo() %>%
  hc_add_theme(hc_theme_sparkline_vb())

highchart() %>%
  hc_chart(type = "column") %>%
  hc_add_series(data = round(1 + abs(rnorm(12)), 2), showInLegend = FALSE) %>%
  hc_xAxis(categories = month.abb) %>%
  hc_add_theme(hc_theme_tufte2())
```

hc_theme_alone	<i>Alone theme for highcharts</i>
----------------	-----------------------------------

Description

Alone theme for highcharts

Usage

```
hc_theme_alone(...)
```

Arguments

... A named parameters to modify the theme.

Examples

```
highcharts_demo() %>%
  hc_add_theme(hc_theme_alone())
```

hc_theme_bloom	<i>Bloomberg Graphics theme for highcharts</i>
----------------	--

Description

Bloomberg Graphics theme for highcharts

Usage

```
hc_theme_bloom(...)
```

Arguments

... A named parameters to modify the theme.

Examples

```
highcharts_demo() %>%  
  hc_add_theme(hc_theme_bloom())
```

hc_theme_chalk	<i>Chalk theme for highcharts</i>
----------------	-----------------------------------

Description

Chalk theme for highcharts

Usage

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

Arguments

... A named parameters to modify the theme.
Chalk theme for highcharts was inspired by <https://www.amcharts.com/demos/>.

Examples

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

hc_theme_darkunica	<i>Dark Unica theme for highcharts</i>
--------------------	--

Description

Dark Unica theme for highcharts

Usage

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

Arguments

... A named parameters to modify the theme.

Examples

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

hc_theme_db	<i>Dotabuff theme for highcharts</i>
-------------	--------------------------------------

Description

Dotabuff theme for highcharts

Usage

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

Arguments

... A named parameters to modify the theme.

Examples

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

hc_theme_economist	<i>Economist theme for highcharts</i>
--------------------	---------------------------------------

Description

Economist theme for highcharts

Usage

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

Arguments

... A named parameters to modify the theme.

Examples

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

hc_theme_elementary	<i>Elementary (OS) theme for highcharts</i>
---------------------	---

Description

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

Usage

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

Arguments

... A named parameters to modify the theme.

Examples

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

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

Description

Firefox theme was inspired by <https://mozilla.design/>.

Usage

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

Arguments

... A named parameters to modify the theme.

Examples

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

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

Description

Flat and flatdark theme is inspired by <https://github.com/chriskempson/base16> and <https://github.com/Mikata-Project/ggthemr#flat>

Usage

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

Arguments

... A named parameters to modify the theme.

Examples

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

hc_theme_flatdark	<i>Flatdark theme for highcharts</i>
-------------------	--------------------------------------

Description

Flatdark theme for highcharts

Usage

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

Arguments

... A named parameters to modify the theme.

Examples

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

hc_theme_ft	<i>Financial Times theme for highcharts</i>
-------------	---

Description

Financial Times theme for highcharts

Usage

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

Arguments

... A named parameters to modify the theme.

Examples

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

hc_theme_ggplot2	<i>ggplot2 theme for highcharts</i>
------------------	-------------------------------------

Description

ggplot2 theme is based on <https://ggplot2.tidyverse.org/>.

Usage

```
hc_theme_ggplot2(...)
```

Arguments

... A named parameters to modify the theme.

Examples

```
highcharts_demo() %>%  
  hc_add_theme(hc_theme_ggplot2())
```

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

Description

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

Usage

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

Arguments

... A named parameters 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

... A named parameters to modify the theme.

Examples

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

hc_theme_handdrawn	<i>Hand Drawn theme for highcharts</i>
--------------------	--

Description

Hand Drawn theme for highcharts. Inspired by <https://www.amcharts.com/demos/>.

Usage

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

Arguments

... A named parameters to modify the theme.

Examples

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

hc_theme_hcrt	<i>Highcharter theme for highcharts</i>
---------------	---

Description

hcrt theme is used for the documentation website.

Usage

```
hc_theme_hcrt(...)
```

Arguments

... A named parameters to modify the theme.

Examples

```
highcharts_demo() %>%
  hc_add_theme(hc_theme_hcrt())
```

hc_theme_merge	<i>Merge themes</i>
----------------	---------------------

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	<i>Monokai theme for highcharts</i>
------------------	-------------------------------------

Description

Monokai is a well know text editor theme.

Usage

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

Arguments

... A named parameters to modify the theme.

Examples

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

hc_theme_null	<i>Null theme for highcharts</i>
---------------	----------------------------------

Description

For Null theme the axis are removed (visible = FALSE).

Usage

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

Arguments

... A named parameters to modify the theme.

Examples

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

hc_theme_sandsignika	<i>Sand Signika theme for highcharts</i>
----------------------	--

Description

Sand Signika theme for highcharts

Usage

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

Arguments

... A named parameters to modify the theme.

Examples

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

hc_theme_smpl	<i>Simple theme for highcharts</i>
---------------	------------------------------------

Description

Theme smpl design is inspired by <https://github.com/hrbrmstr/hrbrmisc/blob/master/R/themes.r> and color by <https://materialui.co/flatuicolors>.

Usage

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

Arguments

... A named parameters to modify the theme.

Examples

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

hc_theme_sparkline	<i>Sparkline theme for highcharts</i>
--------------------	---------------------------------------

Description

Sparkline theme is based on <https://www.highcharts.com/demo/sparkline> and this post <https://jkunst.com/blog/posts/2020-06-26-valuebox-and-sparklines/>.

Usage

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

Arguments

... A named parameters to modify the theme.

Examples

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

hc_theme_superheroes	<i>Superheroes theme for highcharts</i>
----------------------	---

Description

The superheroes theme is inspired by <https://public.tableau.com/profile/ryansmith#!/vizhome/HeroesofNewYork/SuperheroesinNewYork>

Usage

```
hc_theme_superheroes(...)
```

Arguments

... A named parameters to modify the theme.

Examples

```
highcharts_demo() %>%  
  hc_add_theme(hc_theme_superheroes())
```

hc_theme_tufte	<i>Tufte theme for highcharts</i>
----------------	-----------------------------------

Description

Tufte theme for highcharts

Usage

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

Arguments

... A named parameters to modify the theme.

Examples

```
n <- 15

dta <- data.frame(
  x = 1:n + rnorm(n),
  y = 2 * 1:n + rnorm(n)
)

highchart() %>%
  hc_chart(type = "scatter") %>%
  hc_add_series(data = list_parse(dta), showInLegend = FALSE) %>%
  hc_add_theme(hc_theme_tufte())
```

hc_title	<i>Title options for highcharter objects</i>
----------	--

Description

The chart's main title.

Usage

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

Arguments

hc A highchart htmlwidget object.

... Arguments defined in <https://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 = "#22A884", useHTML = TRUE)
  )
```

hc_tooltip

Tooltip options for highcharter 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 defined in https://api.highcharts.com/highcharts/tooltip .
sort	Logical value to implement sort according this.point https://stackoverflow.com/a/16954666/829971 .
table	Logical value to implement table in tooltip: https://stackoverflow.com/a/22327749/829971 .

Examples

```
highchart() %>%
  hc_add_series(data = sample(1:12)) %>%
  hc_add_series(data = sample(1:12) + 10) %>%
  hc_tooltip(
    crosshairs = TRUE,
    borderWidth = 5,
    sort = TRUE,
    table = TRUE
  )
```

hc_xAxis

*Xaxis options for highcharter objects***Description**

The X axis or category axis. Normally this is the horizontal axis, though if the chart is inverted this is the vertical axis. In case of multiple axes, the xAxis node is an array of configuration objects. See the Axis class for programmatic access to the axis.

Usage

```
hc_xAxis(hc, ...)
```

Arguments

hc	A highchart htmlwidget object.
...	Arguments defined in https://api.highcharts.com/highcharts/xAxis .

Details

In Highmaps, the axis is hidden, but it is used behind the scenes to control features like zooming and panning. Zooming is in effect the same as setting the extremes of one of the exes.

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"),
    alternateGridColor = "#FDFFD5",
    opposite = TRUE,
    plotLines = list(
      list(
        label = list(text = "This is a plotLine"),
        color = "#FF0000",
        width = 2,
        value = 5.5
      )
    )
  )
```

 hc_yAxis

Yaxis options for highcharter objects

Description

The Y axis or value axis. Normally this is the vertical axis, though if the chart is inverted this is the horizontal axis. In case of multiple axes, the yAxis node is an array of configuration objects. See the Axis object for programmatic access to the axis.

Usage

```
hc_yAxis(hc, ...)
```

Arguments

hc	A highchart htmlwidget object.
...	Arguments defined in https://api.highcharts.com/highcharts/yAxis .

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_yAxis(
    title = list(text = "y Axis at right"),
    opposite = TRUE,
    alternateGridColor = "#FAFAFA",
    minorTickInterval = "auto",
    minorGridLineDashStyle = "LongDashDotDot",
    showFirstLabel = FALSE,
    showLastLabel = FALSE,
    plotBands = list(
      list(
        from = 13,
        to = 17,
        color = "rgba(100, 0, 0, 0.1)",
        label = list(text = "This is a plotBand")
      )
    )
  )
```

hc_yAxis_multiples	<i>Creating multiples yAxis to use with highcharts</i>
--------------------	--

Description

The Y axis or value axis. Normally this is the vertical axis, though if the chart is inverted this is the horizontal axis. Add yAxis allows to add multiple axis with a relative height between Y axis. Based upon the relative parameter the height of each Y axis is recalculated. Otherwise the parameters are as supported by Y axis.

Usage

```
hc_yAxis_multiples(hc, ...)
```

```
hc_xAxis_multiples(hc, ...)
```

```
hc_zAxis_multiples(hc, ...)
```

```
create_axis(
  naxis = 2,
  heights = 1,
  sep = 0.01,
  offset = 0,
  turnopposite = TRUE,
  ...
)
```

```
create_yaxis(...)
```

```
hc_add_yAxis(hc, ...)
```

Arguments

hc	A highchart htmlwidget object.
...	Arguments defined in https://api.highcharts.com/highcharts/yAxis .
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.

Examples

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

# Retrieve stock data to plot.
aapl <- quantmod::getSymbols("AAPL",
  src = "yahoo",
  from = "2020-01-01",
  auto.assign = FALSE
)

# Plot prices and volume with relative height.
highchart(type = "stock") %>%
  hc_title(text = "AAPLE") %>%
  hc_add_series(aapl, yAxis = 0, showInLegend = FALSE) %>%
  hc_add_yAxis(nid = 1L, title = list(text = "Prices"), relative = 2) %>%
  hc_add_series(aapl[, "AAPL.Volume"], yAxis = 1, type = "column", showInLegend = FALSE) %>%
  hc_add_yAxis(nid = 2L, title = list(text = "Volume"), relative = 1)

```

hc_zAxis

Zaxis options for highcharter objects

Description

The Z axis or depth axis for 3D plots. See the Axis class for programmatic access to the axis.

Usage

```
hc_zAxis(hc, ...)
```

Arguments

hc	A highchart htmlwidget object.
...	Arguments defined in https://api.highcharts.com/highcharts/zAxis .

Examples

```

df <- data.frame(
  x = sample(1:5),
  y = sample(1:5),
  z = sample(1:5)
)

```

```
# Note the 3d requiere highchart2() due have the 3d module
highchart2() %>%
  hc_add_series(data = df, "scatter3d", hcaes(x = x, y = y, z = z)) %>%
  hc_chart(
    type = "scatter3d",
    options3d = list(
      enabled = TRUE,
      alpha = 20,
      beta = 30,
      depth = 200,
      viewDistance = 5,
      frame = list(
        bottom = list(
          size = 1,
          color = "rgba(0,0,0,0.05)"
        )
      )
    )
  ) %>%
  hc_zAxis(
    title = list(text = "Z axis is here"),
    startOnTick = FALSE,
    tickInterval = 2,
    tickLength = 4,
    tickWidth = 1,
    gridLineColor = "red",
    gridLineDashStyle = "dot"
  )
```

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"))
```

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,
  google_fonts = getOption("highcharter.google_fonts")
)
```

Arguments

hc_opts	A list object containing options defined as https://api.highcharts.com/highcharts/ .
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.
google_fonts	A boolean value. If TRUE (default), adds a reference to the Google Fonts API to the HTML head, downloading CSS for the font families defined in the Highcharts theme from https://fonts.googleapis.com . Set to FALSE if you load your own fonts using CSS. This option as default is controlled by "highcharter.google_fonts" option.

highchart2	Create a Highcharts chart widget
------------	----------------------------------

Description

This widgets don't support options yet.

Usage

```

highchart2(
  hc_opts = list(),
  theme = getOption("highcharter.theme"),
  type = "chart",
  width = NULL,
  height = NULL,
  elementId = NULL,
  google_fonts = getOption("highcharter.google_fonts")
)

highchartzero(
  hc_opts = list(),
  theme = NULL,
  width = NULL,
  height = NULL,
  elementId = NULL
)

```

Arguments

hc_opts	A list object containing options defined as https://api.highcharts.com/highcharts/ .
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.
google_fonts	A boolean value. If TRUE (default), adds a reference to the Google Fonts API to the HTML head, downloading CSS for the font families defined in the Highcharts theme from https://fonts.googleapis.com . Set to FALSE if you load your own fonts using CSS.

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.

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

Description

Highcharts <https://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 highcharter.

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

Arguments

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

highchartProxy	<i>Send commands to a Highcharts instance in a Shiny app</i>
----------------	--

Description

Send commands to a Highcharts instance in a Shiny app

Usage

```
highchartProxy(shinyId, session = shiny::getDefaultReactiveDomain())
```

Arguments

shinyId	Single-element character vector indicating the output ID of the chart to modify
session	The Shiny session object to which the map belongs; usually the default value will suffice.

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,
  add_htmlgrid_css = TRUE,
  browsable = TRUE
)
```

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.
add_htmlgrid_css	A logical value to add or not <code>htmlgrid.css</code> as dependency.
browsable	Logical value indicating if the returned object is converted to an HTML object browsable using <code>htmltools::browsable</code> .

Examples

```
charts <- lapply(1:9, function(x) {
  hchart(ts(cumsum(rnorm(100))))
})

if (interactive()) {
  hw_grid(charts, rowheight = 300)
}
```

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 similar to `rlist::list.parse` but this removes names. NAs are removed for compatibility with `rjson::toJSON`.

Usage

```
list_parse(df)

list_parse2(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)
```

mountains_panorama	<i>Visual comparison of Mountains Panorama</i>
--------------------	--

Description

This data comes from the <https://www.highcharts.com/> examples: <https://www.highcharts.com/demo/3d-area-multiple>

Usage

```
mountains_panorama
```

Format

A data frame with 91 observations and 3 variables.

Variables

- place: The place.
- name: Name.
- heigth: Heigth.

mutate_mapping	<i>Modify data frame according to mapping</i>
----------------	---

Description

Modify data frame according to mapping

Usage

```
mutate_mapping(data, mapping, drop = FALSE)
```

Arguments

data	A data frame object.
mapping	A mapping from hcaes function.
drop	A logical argument to you drop variables or not. Default is FALSE

Examples

```
df <- head(mtcars)
mutate_mapping(data = df, mapping = hcaes(x = cyl, y = wt + cyl, group = gear))
mutate_mapping(data = df, mapping = hcaes(x = cyl, y = wt), drop = TRUE)
```

pokemon	<i>pokemon</i>
---------	----------------

Description

Information about 898 pokemon.

Usage

```
pokemon
```

Format

A data frame with 898 observations and 24 variables.

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

Arguments

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

stars

stars

Description

A sample using by Nadieh 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

String to 'id' format

Description

Turn a string to id format used in treemaps.

Usage

```
str_to_id(x)
```

```
str_to_id_vec(x)
```

Arguments

x A vector string.

Examples

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

tooltip_chart	<i>Helper to create charts in tooltips.</i>
---------------	---

Description

Helper to create charts in tooltips.

Usage

```
tooltip_chart(accesor = NULL, hc_opts = NULL, width = 250, height = 150)
```

Arguments

accesor	A string indicating the name of the column where the data is.
hc_opts	A list of options using the https://api.highcharts.com/highcharts/ syntax.
width	A numeric input in pixels indicating the width of the tooltip.
height	A numeric input in pixels indicating the height of the tooltip.

Details

This function needs to be used in the pointFormatter argument inside of hc_tooltip function and useHTML = TRUE option.

Examples

```
require(dplyr)
require(purrr)
require(tidyr)
require(gapminder)
data(gapminder, package = "gapminder")

gp <- gapminder %>%
  arrange(desc(year)) %>%
  distinct(country, .keep_all = TRUE)

gp2 <- gapminder %>%
  nest(-country) %>%
  mutate(
    data = map(data, mutate_mapping, hcaes(x = lifeExp, y = gdpPercap), drop = TRUE),
    data = map(data, list_parse)
  ) %>%
  rename(ttdata = data)

gptot <- left_join(gp, gp2)

hc <- hchart(
  gptot,
```

```

    "point",
    hcaes(
      lifeExp,
      gdpPercap,
      name = country,
      size = pop,
      group = continent
    )
  ) %>%
  hc_yAxis(type = "logarithmic")

hc %>%
  hc_tooltip(useHTML = TRUE, pointFormatter = tooltip_chart(accesor = "ttdata"))

hc %>%
  hc_tooltip(useHTML = TRUE, pointFormatter = tooltip_chart(
    accesor = "ttdata",
    hc_opts = list(chart = list(type = "column"))
  ))

hc %>%
  hc_tooltip(
    useHTML = TRUE,
    positioner = JS("function () { return { x: this.chart.plotLeft + 10, y: 10}; }"),
    pointFormatter = tooltip_chart(
      accesor = "ttdata",
      hc_opts = list(
        title = list(text = "point.country"),
        xAxis = list(title = list(text = "lifeExp")),
        yAxis = list(title = list(text = "gdpPercap"))
      )
    )
  )

hc %>%
  hc_tooltip(
    useHTML = TRUE,
    pointFormatter = tooltip_chart(
      accesor = "ttdata",
      hc_opts = list(
        legend = list(enabled = TRUE),
        series = list(list(color = "gray", name = "point.name"))
      )
    )
  )

```

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 example: point.series.name, point.x
title	A title tag with accessors or string
img	Image 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 highcharts 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.

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

Vaccines

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

Weather

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	<i>World map in Geojson format (list)</i>
--------------	---

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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