

# Package ‘highcharter’

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**Type** Package

**Version** 0.9.5

**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/>> 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>

**License** MIT + file LICENSE

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highcharter-package    *An htmlwidget interface to the Highcharts javascript chart library*

---

**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)

**See Also**

Useful links:

- <https://jkunst.com/highcharter/>
- <https://github.com/jbkunst/highcharter>
- Report bugs at <https://github.com/jbkunst/highcharter/issues>

citytemp

*City temperatures from a year in wide format*

---

### 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

*City temperatures from a year in long format*

---

### 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.
- city: 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	<i>Helper to transform data frame for boxplot highcharts format</i>
-----------------	---

---

**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 *Helper to transform data frame for treemap/sunburst highcharts format*

---

### 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

*Helper to transform data frame for sankey highcharts format*

---

### 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 *Date to timestamps*

---

**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,  
  method = "curl"  
)
```

## Arguments

url	The map's url.
showinfo	Show the properties of the downloaded map to know how are the keys to add data in hcmmap.
quiet	Boolean parameter to turn off download messages (on by default).
method	A string value for the download method used by <a href="#">download.file</a> .

## See Also

[hcmmap](#)

## 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	<i>Function to export js file the configuration options</i>
-----------	---

---

### 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	<i>Marshall's Favorite Bars</i>
---------------	---------------------------------

---

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

---

### 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

```
## Not run:  
dta <- download_map_data("https://code.highcharts.com/mapdata/countries/us/us-ca-all.js")  
get_data_from_map(dta)  
  
## End(Not run)
```

---

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

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**

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

---

globaltemp	<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**

<https://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")
```

---

hcbboxplot	<i>Shortcut to make a boxplot</i>
------------	-----------------------------------

---

**Description**

Shortcut to make a boxplot

**Usage**

```
hcbboxplot(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 <a href="https://api.highcharts.com/highcharts/series">https://api.highcharts.com/highcharts/series</a> .

**Examples**

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

## End(Not run)
```

---

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="https://api.highcharts.com/highcharts/series">https://api.highcharts.com/highcharts/series</a> ).

**Details**

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

---

hchart.igraph	<i>Plot igraph objects using Highcharts</i>
---------------	---

---

**Description**

Plot igraph objects using Highcharts

**Usage**

```
## S3 method for class 'igraph'
hchart(object, ..., layout = NULL)
```

**Arguments**

object	An igraph object.
...	Additional arguments for the data series ( <a href="https://api.highcharts.com/highcharts/series">https://api.highcharts.com/highcharts/series</a> ).
layout	A layout from igraph package.

**Examples**

```

if(require("igraph")) {

  N <- 40
  net <- sample_gnp(N, p = 2 / N)
  wc <- cluster_walktrap(net)
  V(net)$label <- seq(N)
  V(net)$name <- paste("I'm #", seq(N))
  V(net)$page_rank <- round(page_rank(net)$vector, 2)
  V(net)$betweenness <- round(betweenness(net), 2)
  V(net)$degree <- degree(net)
  V(net)$size <- V(net)$degree
  V(net)$comm <- as.vector(membership(wc))
  V(net)$color <- colorize(membership(wc))
  hchart(net, layout = layout_with_fr)

}

```

---

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)
```

---

hconarray

*Shortcut to make icon arrays charts*


---

**Description**

Shortcut to make icon arrays charts

**Usage**

```
hconarray(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="https://api.highcharts.com/highcharts/series">https://api.highcharts.com/highcharts/series</a> .

---

hcmmap	<i>Shortcut for create map from <a href="https://code.highcharts.com/mapdata/">https://code.highcharts.com/mapdata/</a> collection.</i>
--------	---

---

**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 <a href="https://code.highcharts.com/mapdata/">https://code.highcharts.com/mapdata/</a> . 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 ( <a href="https://api.highcharts.com/highcharts/series">https://api.highcharts.com/highcharts/series</a> ).

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

```

hpcarcords

*Shortcut to create parallel coordinates***Description**

Shortcut to create parallel coordinates

**Usage**

```
hpcarcords(df, ...)
```

**Arguments**

**df** A data frame object.

**...** Additional shared arguments for the data series (<https://api.highcharts.com/highcharts/series>) for the `hchar.data.frame` function.

**Examples**

```

require(viridisLite)

n <- 15

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

require(dplyr)
data(iris)

```

```
set.seed(123)

iris <- sample_n(iris, 60)

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

---

hcpyx\_add\_point      *Add point to a series of a higchartProxy object*

---

### Description

Add point to a series of a higchartProxy object

### Usage

```
hcpyx_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 <a href="https://api.highcharts.com/highcharts/plotOptions.series">https://api.highcharts.com/highcharts/plotOptions.series</a> .

---

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

---

**Description**

Show or hide loading text for a higchartProxy object

**Usage**

```
hcpxy_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.

---

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

---

**Description**

Redraw a higchartProxy object

**Usage**

```
hcpyx_redraw(proxy)
```

**Arguments**

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

---

hcpyx_remove_point	<i>Remove point to a series of a higchartProxy object</i>
--------------------	---

---

**Description**

Remove point to a series of a higchartProxy object

**Usage**

```
hcpyx_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.

---

hcpyx\_remove\_series     *Remove series to highchartProxy element*

---

### Description

Remove series to highchartProxy element

### Usage

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

### Arguments

proxy	A highchartProxy 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.

---

hcpyx\_set\_data     *Update data for a highchartProxy object*

---

### Description

Update data for a highchartProxy object

### Usage

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

### Arguments

proxy	A highchartProxy 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 hctxy_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.

---

hctxy\_update

*Update options for a higchartProxy object*


---

### Description

Update options for a higchartProxy object

### Usage

```
hctxy_update(proxy, ...)
```

### Arguments

proxy	A higchartProxy object.
...	Named options.

---

hctxy\_update\_point

*Update options series in a higchartProxy object*


---

### Description

Update options series in a higchartProxy object

### Usage

```
hctxy_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 <a href="https://api.highcharts.com/class-reference/Highcharts.Point">https://api.highcharts.com/class-reference/Highcharts.Point</a> . The arguments will be the same for each series. So if you want update data it is used this function sequentially for each point

---

hcpyx\_update\_series     *Update options series in a highchartProxy object*

---

### Description

Update options series in a highchartProxy object

### Usage

```
hcpyx_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 <a href="https://api.highcharts.com/highcharts/plotOptions.series">https://api.highcharts.com/highcharts/plotOptions.series</a> . The arguments will be the same for each series. So if you want update data it is used this function sequentially for each series.

---

hcspark     *Shortcut to make sparklines*

---

### Description

Shortcut to make sparklines

### Usage

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

### Arguments

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

### Examples

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

hcspark(x)
hcspark(x, "column")
hcspark(c(1, 4, 5), "pie")
hcspark(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

*Shortcut to create treemaps.*


---

### 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 ( <a href="https://api.highcharts.com/highcharts/series">https://api.highcharts.com/highcharts/series</a> ).

### 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 <a href="https://api.highcharts.com/highcharts/annotations">https://api.highcharts.com/highcharts/annotations</a> .
x	A list or a data.frame of annotations.

## Details

The x elements must have xValue and yValue elements

---

hc\_add\_dependency      *Add modules or plugin dependencies to highcharts objects*

---

### 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      *Helpers functions to get FontAwesome icons code*

---

### 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      *Helpers to use highcharter as input in shiny apps*

---

**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 <a href="https://api.highcharts.com/highcharts/plotOptions.area.splinerange.point.events.select">https://api.highcharts.com/highcharts/plotOptions.area.splinerange.point.events.select</a> 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      *Adding data to highchart objects*

---

**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 <a href="https://api.highcharts.com/highcharts/plotOptions.series">https://api.highcharts.com/highcharts/plotOptions.series</a> .

**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 <a href="https://api.highcharts.com/highcharts/plotOptions.series">https://api.highcharts.com/highcharts/plotOptions.series</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(), 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 <a href="https://api.highcharts.com/highcharts/chart">https://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="https://api.highcharts.com/highcharts/plotOptions.series">https://api.highcharts.com/highcharts/plotOptions.series</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,
  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 <a href="https://api.highcharts.com/highcharts/chart">https://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="https://api.highcharts.com/highcharts/plotOptions.series">https://api.highcharts.com/highcharts/plotOptions.series</a> .

---

hc\_add\_series.lm      *hc\_add\_series for lm and loess objects*

---

**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 <a href="https://api.highcharts.com/highcharts/chart">https://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="https://api.highcharts.com/highcharts/plotOptions.series">https://api.highcharts.com/highcharts/plotOptions.series</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="https://api.highcharts.com/highcharts/plotOptions.series">https://api.highcharts.com/highcharts/plotOptions.series</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 'ohlc'  
hc_add_series(hc, data, type = "candlestick", ...)
```

### Arguments

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

---

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 variable to chart.
joinBy	What property to join the map and df
...	Additional shared arguments for the data series ( <a href="https://api.highcharts.com/highcharts/series">https://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\_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 <a href="https://api.highcharts.com/highcharts/boost">https://api.highcharts.com/highcharts/boost</a> .

**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](http://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 <a href="https://api.highcharts.com/highcharts/exporting">https://api.highcharts.com/highcharts/exporting</a> .

**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 the Highcharts labels API.

**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 <a href="https://api.highcharts.com/highcharts/loading">https://api.highcharts.com/highcharts/loading</a> .

**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 <a href="https://api.highcharts.com/highmaps/mapNavigation">https://api.highcharts.com/highmaps/mapNavigation</a> .

**Examples**

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

hc\_motion

*Setting Motion options to highcharts objects*

---

**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 <a href="https://github.com/TorsteinHonsi/Motion-Highcharts-Plugin/wiki">https://github.com/TorsteinHonsi/Motion-Highcharts-Plugin/wiki</a> .

---

hc\_navigator*Navigator options for highcharter objects*

---

**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 <a href="https://api.highcharts.com/highstock/navigator">https://api.highcharts.com/highstock/navigator</a> .

**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      *Range selector options for highcharter objects*

---

### 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      *Responsive options for highcharter objects*

---

### 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	<i>Series options for highcharter objects</i>
-----------	---

---

**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 <a href="https://api.highcharts.com/highcharts/series">https://api.highcharts.com/highcharts/series</a> .

**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 <- 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 <a href="https://api.highcharts.com/highcharts/subtitle">https://api.highcharts.com/highcharts/subtitle</a> .

**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)
```

## 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      *Dark Unica theme for highcharts*

---

**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              *Dotabuff theme for highcharts*

---

**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     *Economist theme for highcharts*

---

### **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     *Elementary (OS) theme for highcharts*

---

### **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://brand.mozilla.com/all-brands>.

**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      *Flatdark theme for highcharts*

---

**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              *Financial Times theme for highcharts*

---

**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      *ggplot2 theme for highcharts*

---

**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      *Google theme for highcharts*

---

**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      *Grid Light theme for highcharts*

---

### **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      *Hand Drawn theme for highcharts*

---

### **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 *Sand Signika theme for highcharts*

---

**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 *Simple theme for highcharts*

---

**Description**

Theme smpl design is inspired by hrbrmisc by hrbrmstr. 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     *Sparkline theme for highcharts*

---

**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     *Superheroes theme for highcharts*

---

**Description**

The superheroes theme is inspired by <https://public.tableau.com/app/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 <a href="https://api.highcharts.com/highcharts/tooltip">https://api.highcharts.com/highcharts/tooltip</a> .
sort	Logical value to implement sort according this.point <a href="https://stackoverflow.com/a/16954666/829971">https://stackoverflow.com/a/16954666/829971</a> .
table	Logical value to implement table in tooltip: <a href="https://stackoverflow.com/a/22327749/829971">https://stackoverflow.com/a/22327749/829971</a> .

**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

<code>hc</code>	A highchart htmlwidget object.
<code>...</code>	Arguments defined in <a href="https://api.highcharts.com/highcharts/xAxis">https://api.highcharts.com/highcharts/xAxis</a> .

### 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 axes.

### 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

<code>hc</code>	A highchart htmlwidget object.
<code>...</code>	Arguments defined in <a href="https://api.highcharts.com/highcharts/yAxis">https://api.highcharts.com/highcharts/yAxis</a> .

## 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      *Creating multiples yAxis t use with highcharts*

---

### 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 <a href="https://api.highcharts.com/highcharts/yAxis">https://api.highcharts.com/highcharts/yAxis</a> .
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 <a href="https://api.highcharts.com/highcharts/zAxis">https://api.highcharts.com/highcharts/zAxis</a> .

## 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	<i>Create a Highcharts chart widget</i>
-----------	---

---

### 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 <a href="https://api.highcharts.com/highcharts/">https://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.
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 <a href="https://fonts.googleapis.com">https://fonts.googleapis.com</a> . Set to FALSE if you load your own fonts using CSS. This option as default is controlled by "highcharter.google_fonts" option.

---

highchart2	<i>Create a Highcharts chart widget</i>
------------	---

---

### 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 <a href="https://api.highcharts.com/highcharts/">https://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.
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 <a href="https://fonts.googleapis.com">https://fonts.googleapis.com</a> . 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-exports    *highcharter exported operators and S3 methods*

---

**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 htmlgrid.css 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	<i>stars</i>
-------	--------------

---

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

---

### 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(accessor = NULL, hc_opts = NULL, width = 250, height = 150)
```

### Arguments

accessor	A string indicating the name of the column where the data is.
hc_opts	A list of options using the <a href="https://api.highcharts.com/highcharts/">https://api.highcharts.com/highcharts/</a> 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 an 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(acesor = "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	<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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