

Package ‘uvcharts’

March 2, 2017

Title uvcharts htmlwidget

Version 0.0.2.9000

Description uvcharts htmlwidget for R.

Depends R (>= 3.3.2)

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Encoding UTF-8

LazyData true

Imports htmlwidgets,
magrittr

RoxygenNote 5.0.1

URL <https://github.com/JohnCoene/uvcharts>

BugReports <https://github.com/JohnCoene/uvcharts/issues>

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uvcharts-shiny	<i>Shiny bindings for uvcharts</i>
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Description

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

Usage

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

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

Arguments

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

uv_add	<i>Add serie</i>
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Description

Add serie

Usage

```
uv_add(p, serie)
```

Arguments

p	a uvcharts object.
serie	values to plot.

Examples

```
mtcars %>%  
  uv_bar(mpg) %>%  
  uv_add(qsec) %>%  
  uv_add(drat)
```

uv_areaopt

Customise chart lines

Description

Customise the properties specific to line chart.

Usage

```
uv_areaopt(p, interpolation, opacity, offset)
```

Arguments

p	a uvcharts object.
interpolation	line interpolation. Defaults to linear see details for valid values.
opacity	oOpacity in the case of simple Area chart, defaults to 0.2.
offset	offset, defaults to zero. See details for valid values.

Details

Valid values for interpolation argument:

- linear
- basis
- cardinal
- monotone

Valid values for offset argument:

- zero
- wiggle
- silhouette
- expand

See Also

[Official docs](#)

Examples

```
mtcars %>%
  uv_area(qsec) %>%
  uv_add(mpg) %>%
  uv_areaopt(opacity = 0.9)
```

uv_axis

*Customise chart axis***Description**

Customise the chart axis.

Usage

```
uv_axis(p, opacity, ticks, subticks, padding, minor, strokecolor, fontfamily,
        fontsize, fontweight, showticks, showsubticks, showtext)
```

Arguments

p	a uvcharts object.
opacity	opacity of the axis lines drawn for reference, defaults to 1.
ticks	number of major ticks on the measure axis.
subticks	number of minor ticks on the measure axis.
padding	any CSS size.
minor	length of the minor ticks towards the label.
strokecolor	color of axis lines, any Color Code or Color String or none. defaults to #000000.
fontfamily	any font, defaults to Arial.
fontsize	font size. Defaults to 11.
fontweight	font weight, defaults to bold.
showticks	show ticks flag, TRUE or FALSE, defaults to the former.
showsubticks	show subticks flag, TRUE or FALSE, defaults to the former.
showtext	show text flag, TRUE or FALSE, defaults to the former.

See Also

[Official docs](#)

Examples

```
mtcars %>%
  uv_charts(qsec) %>%
  uv_add(mpg) %>%
  uv_axis(opacity = 0.6, ticks = 10, strokecolor = "blue", showtext = FALSE)
```

`uv_baropt`*Customise chart bar chart*

Description

Customise the chart bars.

Usage

```
uv_baropt(p, strokecolor, fontsize, fontweight, fontfamily, textcolor)
```

Arguments

<code>p</code>	a uvcharts object.
<code>strokecolor</code>	any Color Code or Color String or none. defaults to #000000.
<code>fontsize</code>	font size. Defaults to 11.
<code>fontweight</code>	font weight, defaults to bold.
<code>fontfamily</code>	any font, defaults to Arial.
<code>textcolor</code>	text color used for the numbers, defaults to #000000.

See Also

[Official docs](#)

Examples

```
mtcars %>%  
  uv_stackbar(qsec) %>%  
  uv_add(mpg) %>%  
  uv_add(drat) %>%  
  uv_baropt(fontsize = 7)
```

`uv_caption`*Customise chart caption*

Description

Customise the chart caption.

Customise the chart subcaption.

Usage

```
uv_caption(p, fontfamily, fontsize, fontweight, textdecoration, strokecolor,
  cursor)

uv_subcaption(p, fontfamily, fontsize, fontweight, textdecoration, strokecolor,
  cursor)
```

Arguments

- p a uvcharts object.
- fontfamily any font, defaults to Arial.
- fontsize font size. Defaults to 11.
- fontweight font weight, defaults to bold.
- textdecoration text decoration applied on the caption, defaults to none.
- strokecolor any Color Code or Color String or none. defaults to #000000.
- cursor precision on the labels in case of decimal values. Defaults to pointer.

See Also

[Official docs](#)

Examples

```
mtcars %>%
  uv_charts(qsec) %>%
  uv_add(mpg) %>%
  uv_meta("Title") %>%
  uv_caption(fontsize = 30)
```

uv_charts	<i>Setup a uvchart</i>
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Description

Initiate a uvchart

Usage

```
uv_charts(data, x, type = "Line", width = "100%", height = "100%",
  elementId = NULL)

uv_bar(data, x, width = "100%", height = "100%", elementId = NULL)

uv_line(data, x, width = "100%", height = "100%", elementId = NULL)
```

```
uv_area(data, x, width = "100%", height = "100%", elementId = NULL)
uv_stackbar(data, x, width = "100%", height = "100%", elementId = NULL)
uv_stackarea(data, x, width = "100%", height = "100%", elementId = NULL)
uv_pie(data, x, width = "100%", height = "100%", elementId = NULL)
uv_donut(data, x, width = "100%", height = "100%", elementId = NULL)
uv_percentbar(data, x, width = "100%", height = "100%",
  elementId = NULL)
uv_percentarea(data, x, width = "100%", height = "100%",
  elementId = NULL)
uv_stepupbar(data, x, width = "100%", height = "100%", elementId = NULL)
uv_polar(data, x, width = "100%", height = "100%", elementId = NULL)
uv_waterfall(data, x, width = "100%", height = "100%", elementId = NULL)
```

Arguments

data	data.frame of data to plot.
x	x variable.
type	type of chart to plot, see details.
width, height	Must be a valid CSS unit (like '100%', '400px', 'auto') or a number, which will be coerced to a string and have 'px' appended.
elementId	id of div element containing chart.

Examples

```
mtcars %>%
  uv_charts(mpg, type = "Area") %>%
  uv_add(qsec)

mtcars %>%
  uv_bar(mpg) %>%
  uv_add(qsec)

mtcars %>%
  uv_line(mpg) %>%
  uv_add(qsec)

mtcars %>%
  uv_pie(mpg) %>%
  uv_add(qsec)
```

```
mtcars %>%  
  uv_stackbar(mpg) %>%  
  uv_add(qsec)  
  
mtcars %>%  
  uv_percentarea(mpg) %>%  
  uv_add(qsec)
```

uv_config*Configure the chart*

Description

Configure the chart.

Usage

```
uv_config(p, ...)
```

Arguments

<code>p</code>	a uvcharts object.
<code>...</code>	any argument to pass to config .

See Also

[Official docs](#)

Examples

```
mtcars %>%  
  uv_charts(qsec) %>%  
  uv_add(mpg) %>%  
  uv_config(legend = list(showlegends = FALSE))
```

uv_dimension	<i>Customise chart dimensions</i>
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Description

Customise the chart dimensions.

Usage

```
uv_dimension(p, width, height = 200, override = TRUE)
```

Arguments

p	a uvcharts object.
width, height	any CSS size.
override	if TRUE, will override the div's height and width, recommend.

See Also

[Official docs](#)

Examples

```
mtcars %>%  
  uv_charts(qsec) %>%  
  uv_add(mpg) %>%  
  uv_dimension(width = 200)
```

uv_frame	<i>Customise chart frame</i>
----------	------------------------------

Description

Customise the chart frame.

Usage

```
uv_frame(p, bgcolor)
```

Arguments

p	a uvcharts object.
bgcolor	any Color Code or Color String or none.

See Also

[Official docs](#)

Examples

```
mtcars %>%
  uv_charts(qsec) %>%
  uv_add(mpg) %>%
  uv_frame(bgcolor = "black")
```

uv_graph	<i>Customise chart caption</i>
----------	--------------------------------

Description

Customise the chart caption.

Usage

```
uv_graph(p, palette, bgcolor, orientation, custom.palette, opacity,
  responsive = TRUE)
```

Arguments

p	a uvcharts object.
palette	palette name, see details for valid values. Defaults to Brink.
bgcolor	background color used for the entire chart include the margin spaces.
orientation	orientation of the chart for a different layout based on requirements. Can take Horizontal or Vertical, defaults to the former.
custom.palette	override the palette with your own color palette by providing a non empty array of color codes. They are used in order for corresponding category in the categories array of the graph definition. Pass colors as list.
opacity	opacity of the entire chart to make it blend into any background of your choice. Defaults to 1.
responsive	TRUE for responsive sizing (default).

Details

Valid values for palette argument.

- Plain
- Simple
- Olive
- Candid

- Sulphide
- Soft
- Lint

See Also

[Official docs](#)

Examples

```
mtcars %>%
  uv_charts(qsec) %>%
  uv_add(mpg) %>%
  uv_graph(palette = "Plain")
```

uv_label

Customise chart labels

Description

Customise the chart labels.

Usage

```
uv_label(p, fontfamily, fontsize, fontweight, strokecolor, showlabel, precision,
  prefix, suffix)
```

Arguments

p	a uvcharts object.
fontfamily	any font, defaults to Arial.
fontsize	font size. Defaults to 11.
fontweight	font weight, defaults to bold.
strokecolor	any Color Code or Color String or none. defaults to #000000.
showlabel	show labels flag, TRUE or FALSE, defaults to the former.
precision	precision on the labels in case of decimal values. Defaults to 2.
prefix	any prefix which needs to be added to the label.
suffix	any suffix which needs to be added to the label.

See Also

[Official docs](#)

Examples

```
mtcars %>%  
  uv_charts(qsec) %>%  
  uv_add(mpg) %>%  
  uv_label(fontsize = 6, strokecolor = "red")
```

uv_legend

Configure the chart

Description

Configure the chart.

Usage

```
uv_legend(p, showlegends, position)
```

Arguments

p	a uvcharts object.
showlegends	boolean.
position	legend position, i.e.:right.

See Also

[Official docs](#)

Examples

```
mtcars %>%  
  uv_charts(qsec) %>%  
  uv_add(mpg) %>%  
  uv_legend(position = "right")
```

uv_lineopt	<i>Customise chart lines</i>
------------	------------------------------

Description

Customise the properties affecting Bar, Stacked Bar and Step Up Bar Chart.

Usage

```
uv_lineopt(p, interpolation)
```

Arguments

p a uvcharts object.

interpolation line interpolation. Defaults to linear see details for valid values.

Details

Valid values for interpolation argument:

- linear
- basis
- cardinal
- monotone

See Also

[Official docs](#)

Examples

```
mtcars %>%  
  uv_charts(qsec) %>%  
  uv_add(mpg) %>%  
  uv_lineopt(interpolation = "cardinal")
```

uv_margin	<i>Customise chart margin</i>
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Description

Customise the chart margin.

Usage

```
uv_margin(p, top, bottom, left, right)
```

Arguments

p a uvcharts object.
top, bottom, left, right any CSS size.

See Also

[Official docs](#)

Examples

```
mtcars %>%  
  uv_charts(qsec) %>%  
  uv_add(mpg) %>%  
  uv_margin(20, 20, 20, 20)
```

uv_meta	<i>Customise chart meta properties</i>
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Description

Customise the chart meta properties.

Usage

```
uv_meta(p, caption, subcaption, hlabel, vlabel, hsulabel, vsulabel,  
  isDownloadable, downloadLabel)
```

Arguments

p	a uvcharts object.
caption	caption for the graph.
subcaption	subcaption of the graph.
hlabel	label for the horizontal axis.
vlabel	label for the vertical axis.
hsulabel	sub-label for the horizontal axis.
vsulabel	sub-label for the vertical axis.
isDownloadable	whether or not to display the download link for the chart, defaults to FALSE.
downloadLabel	text to be displayed in the download link, defaults to Download.

See Also

[Official docs](#)

Examples

```
mtcars %>%
  uv_charts(qsec) %>%
  uv_add(mpg) %>%
  uv_meta("Title", "Subtitle", "x axis", "y axis")
```

uv_pieopt	<i>Customise chart lines</i>
-----------	------------------------------

Description

Customise the properties specific to Pie Chart.

Customise the properties specific to Donut Chart.

Usage

```
uv_pieopt(p, fontfamily, fontsize, fontweight, fontvariant, fontfill,
  strokecolor, strokewidth)

uv_donutopt(p, fontfamily, fontsize, fontweight, fontvariant, fontfill,
  strokecolor, strokewidth, factor)
```

Arguments

p	a uvcharts object.
fontfamily	any font, defaults to Arial.
fontsize	font size. Defaults to 11.
fontweight	font weight, defaults to bold.
fontvariant	font variant used on the text, defaults to small-caps, can also take normal.
fontfill	text color on the measure, defaults to #000000.
strokecolor	any Color Code or Color String or none. defaults to #000000.
strokewidth	stroke width on each arc. Defaults to 1.
factor	radius of the cropped part in terms of the bigger pie. Defaults to 0.4.

See Also

- [Official docs](#)
- [Official docs](#)

Examples

```
mtcars %>%
  uv_pie(qsec) %>%
  uv_add(mpg) %>%
  uv_pieopt(fontfill = "white")
```

uv_scale	<i>Customise chart scale</i>
----------	------------------------------

Description

Customise the chart scale.

Usage

```
uv_scale(p, type, ordinality)
```

Arguments

p	a uvcharts object.
type	scale used to represent values on the chart, see details for valid values.
ordinality	defines the gap between 2 consecutive labels, defaults to 0.2.

Details

Valid values for type argument, defaults to linear:

- linear
- log
- pow
- sqrt

See Also

[Official docs](#)

Examples

```
mtcars %>%  
  uv_charts(qsec) %>%  
  uv_add(mpg) %>%  
  uv_scale(type = "log")
```

uv_tooltip

Customise chart tooltip

Description

Customise the chart tooltip.

Usage

```
uv_tooltip(p, show, format)
```

Arguments

p	a uvcharts object.
show	flag to enable or disable tooltip functionality, defaults to TRUE.
format	defines custom format for tooltip, character string. defaults to %c [%1] : %v

See Also

[Official docs](#)

Examples

```
mtcars %>%  
  uv_charts(qsec) %>%  
  uv_add(mpg) %>%  
  uv_tooltip(format = "%v")
```

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