Package: kpiwidget (via r-universe)

March 11, 2025

Title KPI Widgets for Quarto Dashboards with Crosstalk

Version 0.1.1.9000

Description Provides an easy way to create interactive KPI (key performance indicator) widgets for 'Quarto' dashboards using 'Crosstalk'. The package enables visualization of key metrics in a structured format, supporting interactive filtering and linking with other 'Crosstalk'-enabled components. Designed for use in 'Quarto' Dashboards.

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Encoding UTF-8

Roxygen list(markdown = TRUE)

RoxygenNote 7.3.2

Imports crosstalk, htmlwidgets

Suggests dplyr, DT, flexdashboard, htmltools, knitr, rmarkdown, testthat (>= 3.0.0)

VignetteBuilder knitr

URL https://arnold-kakas.github.io/kpiwidget/, https://github.com/Arnold-Kakas/kpiwidget

Config/testthat/edition 3

BugReports https://github.com/Arnold-Kakas/kpiwidget/issues

Config/pak/sysreqs make

Repository https://arnold-kakas.r-universe.dev

RemoteUrl https://github.com/arnold-kakas/kpiwidget

RemoteRef HEAD

RemoteSha e155f94270258e5eadb65e7a95d2be8d0df947ea

Contents

kpiwidget *Create an interactive KPI widget for Quarto dashboards with Crosstalk support.*

Description

This function computes and displays a key performance indicator (KPI) based on a variety of statistics. The data can be filtered using formulas. In addition, a comparison mode can be applied by specifying the `comparison` parameter as either `"ratio"` or `"share"`. For example, if `comparison = "ratio"` and `kpi = "sum"` (with a column indicating sales), the widget will calculate the ratio of sales between two groups defined by `group1` and `group2`.

Usage

```
kpiwidget(
  data,
  kpi = c("count", "distinctCount", "duplicates", "sum", "mean", "min", "max"),
  comparison = NULL,
  column = NULL,
  selection = NULL,
  group1 = NULL,
  group2 = NULL,
  decimals = 1,
  big_mark = " ",
  prefix = NULL,
  suffix = NULL,
  width = "auto",
  height = "auto",
  elementId = NULL,
  group = NULL
)
```

Arguments

`data`	A `crosstalk::SharedData` object.
`kpi`	A character string specifying the metric to compute. Options are: `"sum"`, `"mean"`, `"min"`, `"max"`, `"count"`, `"distinctCount"`, `"duplicates"`. The default is count.
`comparison`	Optional. A character string indicating a comparison mode. Options are `"ratio"` or `"share"`. If not provided (NULL), no comparison is performed.
`column`	A column name (as a string) to be used for numeric aggregation. In standard mode this is required. In comparison mode, if provided it is used for both groups; if omitted, counts are used.
`selection`	A one-sided formula to filter rows.
`group1`	For comparison mode: a one-sided formula defining group 1. This is required in comparison mode.

group2	For comparison mode: a one-sided formula defining group 2. For comparison = "ratio", if not provided, it defaults to the complement of group1. For comparison = "share", if not provided, it defaults to all rows.
decimals	Number of decimals to round the computed result. Default: 1.
big_mark	Character to be used as the thousands separator. Default: " ".
prefix	A string to be prepended to the displayed value.
suffix	A string to be appended to the displayed value.
width	Widget width (passed to htmlwidgets::createWidget). Default: "auto".
height	Widget height (passed to htmlwidgets::createWidget). Default: "auto".
elementId	Optional element ID for the widget.
group	crosstalk group name. Typically provided by the SharedData object.

Value

An object of class htmlwidget that will print itself into an HTML page.

Examples

```
# Standard KPI example:
mtcars_shared <- crosstalk::SharedData$new(mtcars, key = ~ 1:nrow(mtcars), group = "mtcars_group")
kpiwidget(mtcars_shared, kpi = "mean", column = "mpg", decimals = 1,
suffix = " mpg", height = "25px"
)

# Comparison (ratio) example: ratio of mean mpg between two groups.
kpiwidget(mtcars_shared, kpi = "mean", comparison = "ratio", column = "mpg",
  group1 = ~ cyl == 4, group2 = ~ cyl == 6,  height = "25px"
)
```

Index