Package: gridstackeR (via r-universe)

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Type Package

Title Wrapper for 'gridstack.js'

Version 0.1.1

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Description An easy way to create responsive layouts with just a few lines of code. You can create boxes that are draggable and resizable and load predefined Layouts. The package serves as a wrapper to allow for easy integration of the 'gridstack.js' functionalities https://github.com/gridstack.js

License GPL-3

Encoding UTF-8

LazyData true

RoxygenNote 7.2.3

Depends R (>= 3.5.0)

Imports htmltools, shiny, shinyjs, checkmate

Suggests shinydashboard, shinytest2

Repository https://petergandenberger.r-universe.dev

RemoteUrl https://github.com/petergandenberger/gridstacker

RemoteRef HEAD

RemoteSha 6b7dff430b16fccf82740a69166f8dada1e1aac7

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check_grid_stack_item_list

Checks that all given arguments are grid_stack_items

Description

Checks that all given arguments are grid_stack_items

Usage

```
check_grid_stack_item_list(...)
```

Arguments

... arguments to be checked

Value

TRUE if arguments are valid grid_stack_items, FALSE otherwise

gridstackeR_demo Demo

Description

a short example of gridstackeR

Usage

gridstackeR_demo()

Value

an example shiny shinyApp that uses the gridstackeR package to create a responsive layout with resizable and draggable boxes.

Examples

Not run:
gridstackeR_demo()

End(Not run)

grid_stack

Description

This acts as a container for the grid_stack_item's.

Usage

```
grid_stack(
   ...,
   id = "",
   opts = "{cellHeight: 70}",
   ncols = 12,
   nrows = 12,
   dynamic_full_window_height = FALSE,
   height_offset = 0
)
```

Arguments

	all grid_stack_items contained in this grid. No arguments other than grid_stack_items are allowed here.		
id	the id of the grid_stack container used for multi-grid layouts. (if no id is pro- vided, a random id is generated)		
opts	grid options: check gridstack documentation for more details		
ncols	number of columns for the grid (If you need > 12 columns you need to generate the CSS manually)		
nrows	number of rows for the grid		
dynamic_full_window_height			
	if TRUE, the grid will change dynamically to fit the window size minus the height_offset		
height_offset	margin for the grid height, see dynamic_full_window_height		

Value

a grid_stack that can contain resizable and draggable grid_stack_items

Examples

```
## Not run:
library(gridstackeR)
library(shiny)
library(shinydashboard)
library(shinyjs)
```

```
ui <- dashboardPage(</pre>
  title = "gridstackeR Demo",
  dashboardHeader(),
  dashboardSidebar(disable = TRUE),
  dashboardBody(
    useShinyjs(),
    # make sure the content fills the given height
    tags$style(".grid-stack-item-content {height:100%;}"),
    grid_stack(
      dynamic_full_window_height = TRUE,
      grid_stack_item(
        h = 2, w = 2,
        box(
          title = "gridstackeR", status = "success", solidHeader = TRUE,
          width = 12, height = "100%",
          div("Drag and scale the Boxes as desired")
        )
      ),
      grid_stack_item(
        h = 4, w = 4, id = "plot_container",
        box(
          title = "Histogram", status = "primary", solidHeader = TRUE,
          width = 12, height = "100%",
          plotOutput("plot", height = "auto")
        )
      ),
      grid_stack_item(
       h = 3, w = 4, min_h = 3, max_h = 3, id = "slider",
        box(
          title = "Inputs", status = "warning", solidHeader = TRUE,
          width = 12, height = "100%",
          sliderInput("slider", "Slider input:", 1, 100, 50)
        )
      ),
      grid_stack_item(
        w = 4, h = 10, x = 0, y = 0, id = "c_table",
        DT::dataTableOutput("mytable")
      )
   )
 )
)
server <- function(input, output, session) {</pre>
```

```
output$plot <- renderPlot({
  x <- faithful$waiting
  bins <- seq(min(x), max(x), length.out = input$slider + 1)
  hist(x, breaks = bins, col = "#75AADB", border = "white",
        xlab = "Waiting time to next eruption (in mins)",
        main = "Histogram of waiting times")</pre>
```

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grid_stack_item Grid Stack Item

Description

This is a wrapper for the individual items to be displayed in the grid_stack Check the gridstack documentation for more information.

The default for all parameters is an empty string, this will make them disappear for gridstackjs

Usage

```
grid_stack_item(
  ...,
  id = NULL,
 auto_position = NULL,
 x = NULL,
 y = NULL,
 w = NULL,
 h = NULL,
 max_w = NULL,
 min_w = NULL,
 max_h = NULL,
 min_h = NULL,
 locked = NULL.
 no_resize = NULL,
 no_move = NULL,
  resize_handles = NULL,
 hide_overflow = TRUE
)
```

Arguments

	content to include in the grid stack item		
id	the id of the item, used for save and load functions, this param is propagated through to lower levels. If the id is provided, changes made to the item by the user will trigger reactive inputs for width, height (both in pixels), x, y, w, h (all 4 in number of columns/rows) (see Documentation for more information)		
auto_position	if set to TRUE x and y attributes are ignored and the element is placed to the first available position. Having either x or y missing will also do that		
х, у	element position in columns/rows. Note: if one is missing this will auto_position the item		
w, h	element size in columns/rows		
<pre>max_w, min_w, max_h, min_h</pre>			
	element constraints in column/row (default none)		
locked	means another widget wouldn't be able to move it during dragging or resiz- ing. The widget can still be dragged or resized by the user. You need to add no_resize and no_move attributes to completely lock the widget.		
no_resize	if set to TRUE it disables element resizing		
no_move	if set to TRUE it disables element moving		
resize_handles	- widgets can have their own custom resize handles.		
hide_overflow	hides the overflow of the item-content by default (i.e adds "overflow:hidden;" to the style) For example 'e,w' will make that particular widget only resize east and west.		

Value

a grid_stack_item to be placed inside a grid_stack. This item is resizable and draggable by default.

Examples

```
## Not run:
grid_stack_item(
h = 2, w = 2,
box(
   title = "gridstackeR", status = "success", solidHeader = TRUE, width = 12, height = "100%",
   div("Drag and scale the Boxes as desired")
)
)
```

End(Not run)

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