Package 'gridstackeR'

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Type Package		
Title Wrapper for 'gridstack.js'		
Version 0.1.0		
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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/gridstack.js .		
License GPL-3		
Encoding UTF-8		
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Imports htmltools, shiny, shinyjs, checkmate		
Suggests shinydashboard, shinytest2		
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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

Grid Stack Container

Description

This acts as a container for the grid_stack_item's.

Usage

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

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Arguments

```
content to include in the container
. . .
id
                  the id of the grid_stack container
opts
                  grid options: check gridstack documentation for more details
                  number of columns for the grid (If you need > 12 columns you need to generate
ncols
                  the CSS manually)
                  number of rows for the grid
nrows
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, style = "overflow:hidden",
          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", style = "overflow:hidden",
          title = "Histogram", status = "primary", solidHeader = TRUE,
          width = 12, height = "100%",
          plotOutput("plot", height = "auto")
```

grid_stack_item

```
)
      ),
      grid_stack_item(
       h = 3, w = 4, minH = 3, maxH = 3, id = "slider", style = "overflow:hidden",
          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$plot <- renderPlot({</pre>
   x <- faithful$waiting
   bins <- seq(min(x), max(x), length.out = input$slider + 1)
   hist(x, breaks = bins, col = "#75AADB", border = "white",
         xlab = "Waiting time to next eruption (in mins)",
         main = "Histogram of waiting times")
 },
 # set the height according to the container height (minus the margins)
 height = function() {max(input$plot_container_height - 80, 150)}
 )
 output$mytable <- DT::renderDataTable({</pre>
   DT::datatable(mtcars, options = list(
      # set the height according to the container height (minus the margins)
      scrollY = max(input$c_table_height, 200) - 110, paging = FALSE
   )
   )
 })
shinyApp(ui, server)
## End(Not run)
```

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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,
 autoPosition = NULL,
 x = NULL
 y = NULL,
 w = NULL,
 h = NULL,
 maxW = NULL,
 minW = NULL,
 maxH = NULL,
 minH = NULL,
 locked = NULL,
  noResize = NULL,
 noMove = NULL,
  resizeHandles = NULL
)
```

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	
autoPosition	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	
x, y	element position in columns/rows. Note: if one is missing this will autoPosition the item $ \\$	
w, h	element size in columns/rows	
maxW, minW, maxH, minH		
	element constraints in column/row (default none)	
locked	means another widget wouldn't be able to move it during dragging or resizing. The widget can still be dragged or resized by the user. You need to add noResize and noMove attributes to completely lock the widget.	
noResize	if set to TRUE it disables element resizing	
noMove	if set to TRUE it disables element moving	
resizeHandles	- widgets can have their own custom resize handles. For example 'e,w' will make that particular widget only resize east and west.	

grid_stack_item

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, style = "overflow:hidden",
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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