

Package ‘gridstackeR’

May 8, 2026

Type Package

Title Wrapper for 'gridstack.js'

Version 0.1.0

Maintainer Peter Gandenberger <peter.gandenberger@gmail.com>

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

RoxygenNote 7.2.1

Depends R (>= 3.5.0)

Imports htmltools, shiny, shinyjs, checkmate

Suggests shinydashboard, shinytest2

NeedsCompilation no

Author Peter Gandenberger [cre],
Andreas Hofheinz [aut],
Alain Dumesny [cph] (Author of gridstack.js library)

Repository CRAN

Date/Publication 2022-08-26 07:50:06 UTC

Contents

gridstackeR_demo	2
grid_stack	2
grid_stack_item	4

Index	7
--------------	----------

gridstacker_demo *Demo*

Description

a short example of gridstackerR

Usage

```
gridstacker_demo()
```

Value

an example shiny shinyApp that uses the gridstackerR 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  
)
```

Arguments

...	content to include in the container
id	the id of the grid_stack container
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(
  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",
        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", style = "overflow:hidden",
        box(
          title = "Histogram", status = "primary", solidHeader = TRUE,
          width = 12, height = "100%",
          plotOutput("plot", height = "auto")
        )
      )
    )
  )
}
```

```

    )
  ),
  grid_stack_item(
    h = 3, w = 4, minH = 3, maxH = 3, id = "slider", style = "overflow:hidden",
    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) {

  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")

  },
  # set the height according to the container height (minus the margins)
  height = function() {max(input$plot_container_height - 80, 150)}
  )

  output$mytable <- DT::renderDataTable({
    DT::datatable(mtcars, options = list(
      # set the height according to the container height (minus the margins)
      scrollY = max(input$c_table_height, 200) - 110, paging = FALSE
    )
  )
  })
}

shinyApp(ui, server)

## End(Not run)

```

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.

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)
```

Index

grid_stack, 2, 5
grid_stack_item, 2, 4
gridstackerR_demo, 2