

Package ‘semantic.dashboard’

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Type Package

Title Dashboard with Semantic UI Support for 'shiny'

Version 0.1.1

Description Basic functions for creating semantic UI dashboard.

This package adds support for a powerful UI library semantic UI - <http://semantic-ui.com/> to your dashboard and enables you to stay compatible with 'shinydashboard' functionalities.

BugReports <https://github.com/Appsilon/semantic.dashboard/issues>

Encoding UTF-8

LazyData TRUE

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Imports utils, shiny (>= 0.12.1), shiny.semantic (>= 0.1.2)

Suggests testthat, linter, shinydashboard

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NeedsCompilation no

Author Michal Maj [aut],
Dominik Krzeminski [cre],
Appsilon Data Science [cph]

Maintainer Dominik Krzeminski <dominik@appsilondatascience.com>

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box	<i>Create a box.</i>
-----	----------------------

Description

Create a box with additional UI elements.

Usage

```
box(..., title = NULL, color = "", ribbon = TRUE,
     title_side = "top right", collapsible = TRUE, width = 8, id = NULL)
```

Arguments

...	UI elements to include within the box.
title	Label of the box.
color	Color of the box. One of c("", "red", "orange", "yellow", "olive", "green", "teal", "blue").
ribbon	Should label be presented as ribbon.
title_side	Side of a label. One of c("top", "bottom", "top left", "top right", "bottom left", "bottom right") if ribbon = FALSE, or one of c("top left", "top right") if ribbon = TRUE
collapsible	Should minimize button be added to label.
width	Width of the box.
id	ID of the box.

Value

A box that can be passed to [dashboardBody](#)

Examples

```
box(title = "Sample box", color = "blue", width = 11,
    "This is a box content"
)
```

column	<i>Create a column.</i>
--------	-------------------------

Description

Create a column with additional UI elements.

Usage

```
column(width, ...)
```

Arguments

width	Width of the column. Between 1 and 16.
...	UI elements to include within the column.

Value

A column that can be passed to [dashboardPage](#)

dashboard_body	<i>Create a body of a dashboard.</i>
----------------	--------------------------------------

Description

Create a body of a dashboard with tabs and other additional UI elements.

Usage

```
dashboard_body(...)
```

```
dashboardBody(...)
```

Arguments

...	UI elements to include within the body.
-----	-----------------------------------------

Value

A tab that can be passed to [dashboardPage](#)

Functions

- `dashboardBody`: Create a body of a dashboard (alias for `dashboard_body` for compatibility with `shinydashboard`)

Examples

```
if(interactive()){  
  
  library(shiny)  
  library(semantic.dashboard)  
  
  ui <- dashboardPage(  
    dashboardHeader(color = "blue"),  
    dashboardSidebar(side = "left", size = "thin", color = "teal",  
                     sidebarMenu(  
                       menuItem(tabName = "tab1", "Tab 1"),  
                       menuItem(tabName = "tab2", "Tab 2"))),  
    dashboardBody(tabItems(  
      tabItem(tabName = "tab1", p("Tab 1")),  
      tabItem(tabName = "tab2", p("Tab 2"))))  
  )  
  
  server <- function(input, output) {  
  }  
  
  shinyApp(ui, server)  
}
```

`dashboard_header`

Create a header of a dashboard.

Description

Create a header of a dashboard with other additional UI elements.

Usage

```
dashboard_header(..., color = "", inverted = FALSE, disable = FALSE)
```

```
dashboardHeader(..., color = "", inverted = FALSE, disable = FALSE)
```

Arguments

...	UI elements to include within the header.
color	Color of the sidebar / text / icons (depending on the value of 'inverted' parameter. \One of c("", "red", "orange", "yellow", "olive", "green", "teal", "blue", "violet",
inverted	If FALSE sidebar will be white and text will be colored. \ If TRUE text will be white and background will be colored. Default is FALSE.
disable	If TRUE, don't display the header.

Value

A header that can be passed to [dashboardPage](#)

Functions

- `dashboardHeader`: Create a header of a dashboard (alias for `dashboard_header` for compatibility with `shinydashboard`)

Examples

```
if(interactive()){

  library(shiny)
  library(semantic.dashboard)

  ui <- dashboardPage(
    dashboardHeader(color = "blue"),
    dashboardSidebar(side = "left", size = "thin", color = "teal",
      sidebarMenu(
        menuItem(tabName = "tab1", "Tab 1"),
        menuItem(tabName = "tab2", "Tab 2")),
    dashboardBody(tabItems(
      tabItem(tabName = "tab1", p("Tab 1")),
      tabItem(tabName = "tab2", p("Tab 2"))))
  )

  server <- function(input, output) {
  }

  shinyApp(ui, server)
}
```

dashboard_page

Create a dashboard.

Description

Create a page with menu item sidebar and body containing tabs and other additional elements.

Usage

```
dashboard_page(header, sidebar, body, title = "", suppress_bootstrap = TRUE,
  theme = NULL)
```

```
dashboardPage(header, sidebar, body, title = "", suppress_bootstrap = TRUE,
  theme = NULL)
```

Arguments

header	Header of a dashboard.
sidebar	Sidebar of a dashboard.
body	Body of a dashboard.
title	Title of a dashboard.
suppress_bootstrap	There are some conflicts in CSS styles between SemanticUI and Bootstrap. For the time being it's better to suppress Bootstrap. If TRUE bootstrap dependency from shiny will be disabled.
theme	Theme name or path TODO list of themes

Value

Dashboard.

Functions

- dashboardPage: Create a dashboard (alias for dashboard_page for compatibility with shinydashboard)

Examples

```
if(interactive()){

  library(shiny)
  library(semantic.dashboard)

  ui <- dashboardPage(
    dashboardHeader(color = "blue"),
    dashboardSidebar(side = "left", size = "thin", color = "teal",
      sidebarMenu(
        menuItem(tabName = "tab1", "Tab 1"),
        menuItem(tabName = "tab2", "Tab 2"))),
    dashboardBody(tabItems(
      tabItem(tabName = "tab1", p("Tab 1")),
      tabItem(tabName = "tab2", p("Tab 2")))))
  )

  server <- function(input, output) {
  }

  shinyApp(ui, server)
}
```

dashboard_sidebar *Create a sidebar of a dashboard.*

Description

Create a pushable sidebar of a dashboard with menu items and other additional UI elements.

Usage

```
dashboard_sidebar(..., side = "left", size = "thin", color = "",
  inverted = FALSE, center = FALSE, visible = TRUE, disable = FALSE)
```

```
dashboardSidebar(..., side = "left", size = "thin", color = "",
  inverted = FALSE, center = FALSE, visible = TRUE, disable = FALSE)
```

Arguments

...	UI elements to include within the sidebar.
side	Placement of the sidebar. One of c("left", "right", "top", "bottom")
size	Size of the sidebar. One of c("", "thin", "very thin", "wide", "very wide")
color	Color of the sidebar / text / icons (depending on the value of 'inverted' parameter. \One of c("", "red", "orange", "yellow", "olive", "green", "teal", "blue", "violet",
inverted	If FALSE sidebar will be white and text will be colored. \ If TRUE text will be white and background will be colored. Default is FALSE.
center	Should label and icon be centered on menu items. Default to FALSE
visible	Should sidebar be visible on start. Default to TRUE
disable	If TRUE, don't display the sidebar.

Value

A sidebar that can be passed to [dashboardPage](#)

Functions

- dashboardSidebar: Create a sidebar of a dashboard (alias for dashboard_sidebar for compatibility with shinydashboard)

Examples

```
if(interactive()){
  library(shiny)
  library(semantic.dashboard)

  ui <- dashboardPage(
    dashboardHeader(color = "blue"),
```

```

dashboardSidebar(side = "left", size = "thin", color = "teal",
  sidebarMenu(
    menuItem(tabName = "tab1", "Tab 1"),
    menuItem(tabName = "tab2", "Tab 2")),
  dashboardBody(tabItems(
    tabItem(tabName = "tab1", p("Tab 1")),
    tabItem(tabName = "tab2", p("Tab 2"))))
)

server <- function(input, output) {
}

shinyApp(ui, server)
}

```

dropdown_menu

Create a dropdown menu.

Description

Create a dropdown menu with additional UI elements.

Usage

```
dropdown_menu(..., type = "messages", icon = NULL, show_counter = TRUE)
```

```
dropdownMenu(..., type = "messages", icon = NULL, show_counter = TRUE)
```

Arguments

...	UI elements to include within the dropdown menu.
type	Type of the displayed items.
icon	Icon of the dropdown menu. If not specified created based on type argument.
show_counter	If true circular label with counter is going to be shown for dropdown.

Value

A dropdown menu that can be passed to [dashboardHeader](#)

Functions

- dropdownMenu: Create a dropdown menu (alias for dropdown_menu for compatibility with shinydashboard)

Examples

```

dropdownMenu(icon = icon("warning sign"), taskItem("Project progress...", 50.777, color = "red"))
dropdownMenu(type = "notifications", notificationItem("This is notification!", color = "red"))

```

dropdown_menu_output *Create a dropdown menu output.*

Description

UI-side function for dynamic dropdownMenu.

Usage

```
dropdown_menu_output(outputId)
```

```
dropdownMenuOutput(outputId)
```

Arguments

outputId Id of the output.

Value

A dropdown menu that can be passed to [dashboardHeader](#)

Functions

- dropdownMenuOutput: Create a dropdown menu output (alias for dropdown_menu_output for compatibility with shinydashboard)

Examples

```
dropdownMenuOutput("dropdown")

output$dropdown <- renderDropdownMenu({
  dropdownMenu(messageItem("Michał", "Test message", color = "teal"),
    messageItem("Marek", "Another test!", icon = "warning", color = "red"))
})
```

icon *Create Semantic UI icon tag (alias for uiicon for compatibility with shinydashboard)*

Description

This creates an icon tag using Semantic UI styles.

Usage

```
icon(type = "", ...)
```

Arguments

type	A name of an icon. Look at http://semantic-ui.com/elements/icon.html for all possibilities.
...	Other arguments to be added as attributes of the tag (e.g. style, class etc.)

```
light_semantic_palette
```

Semantic light colors <https://github.com/Semantic-Org/Semantic-UI/blob/master/src/themes/default/globals/site.variables>

Description

Semantic light colors <https://github.com/Semantic-Org/Semantic-UI/blob/master/src/themes/default/globals/site.variables>

Usage

```
light_semantic_palette
```

Format

An object of class character of length 13.

```
menu_item
```

Create a menu item.

Description

Create a menu item corresponding to a tab.

Usage

```
menu_item(text, ..., icon = NULL, tabName = NULL, href = NULL,
  newtab = TRUE)
```

```
menuItem(text, ..., icon = NULL, tabName = NULL, href = NULL,
  newtab = TRUE)
```

```
menuSubItem(text, ..., icon = NULL, tabName = NULL, href = NULL,
  newtab = TRUE)
```

Arguments

text	Text to show for the menu item.
...	This may consist of menuSubItems.
icon	Icon of the menu item. (Optional)
tabName	Id of the tab. Not compatible with href.
href	A link address. Not compatible with tabName.
newtab	If href is supplied, should the link open in a new browser tab?

Value

A menu item that can be passed [sidebarMenu](#)

Functions

- menuItem: Create a menu item (alias for manu_item for compatibility with shinydashboard)
- menuItem: Create a menu item (alias for manu_item for compatibility with shinydashboard)

Examples

```
menuItem(tabName = "plot_tab", text = "My plot", icon = icon("home"))
```

menu_item_output	<i>Create a menu item output.</i>
------------------	-----------------------------------

Description

UI-side function for dynamic menuItem.

Usage

```
menu_item_output(outputId)
```

```
menuItemOutput(outputId)
```

Arguments

outputId	Id of the output.
----------	-------------------

Value

A menu item that can be passed to [sidebarMenu](#)

Functions

- menuItemOutput: Create a menu item output (alias for menu_item_output for compatibility with shinydashboard)

message_item	<i>Create a message item.</i>
--------------	-------------------------------

Description

Create a message item.

Usage

```
message_item(from, message, ..., icon = "user")
```

```
messageItem(from, message, ..., icon = "user")
```

Arguments

from	Who the message is from.
message	Text of the message.
...	Additional UI elements to include within the dropdown menu.
icon	Additional icon.

Value

A message item that can be passed to [dropdownMenu](#)

Functions

- `messageItem`: Create a message item (alias for `message_item` for compatibility with shinydashboard)

Examples

```
messageItem("Marek", "Another test!", icon = "warning")
```

notification_item	<i>Create a notification item.</i>
-------------------	------------------------------------

Description

Create a notification item.

Usage

```
notification_item(text, icon = "warning", color = "")
```

```
notificationItem(text, icon = "warning", color = "")
```

Arguments

text	Text of the notification.
icon	Additional icon.
color	Color of the notification item. One of c("", "red", "orange", "yellow", "olive", "green", "tea

Value

A notification item that can be passed to `dropdownMenu`

Functions

- `notificationItem`: Create a notification item (alias for `notification_item` for compatibility with `shinydashboard`)

Examples

```
notificationItem("This is notification!", color = "red")
```

`render_dropdown_menu` *Create a dropdown menu output.*

Description

Server-side function for dynamic `dropdownMenu`.

Usage

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

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

Arguments

expr	<code>dropdownMenu</code> .
env	The environment in which to evaluate <code>expr</code> .
quoted	Is <code>expr</code> a quoted expression (with <code>quote()</code>)? This is useful if you want to save an expression in a variable.

Value

A dynamic dropdown menu that can be assigned to output.

Functions

- `renderDropdownMenu`: Create a dropdown menu output (alias for `render_dropdown_menu` for compatibility with `shinydashboard`)

Examples

```
dropdownMenuOutput("dropdown")

output$dropdown <- renderDropdownMenu({
  dropdownMenu(messageItem("Michał", "Test message", color = "teal"),
               messageItem("Marek", "Another test!", icon = "warning", color = "red"))
})
```

render_menu	<i>Create a menu output.</i>
-------------	------------------------------

Description

Server-side function for dynamic sidebarMenu.

Usage

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

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

Arguments

expr	menu.
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.

Value

A dynamic menu that can be assigned to output.

Functions

- renderMenu: Create a menu output (alias for render_menu for compatibility with shinydashboard)

render_value_box	<i>Create a value box output.</i>
------------------	-----------------------------------

Description

Server-side function for dynamic valueBox.

Usage

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

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

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

Arguments

expr	ValueBox.
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.

Value

A dynamic valueBox that can be assigned to output.

Functions

- renderValueBox: Create a value box output (alias for render_value_box for compatibility with shinydashboard)
- renderInfoBox: Create a value box output (alias for render_value_box for compatibility with shinydashboard)

Examples

```
valueBoxOutput("value_box")

output$value_box <- renderValueBox({
  valueBox(
    value = 33.45,
    subtitle = "Simple valuebox",
    icon = icon("bar chart"),
    color = "purple",
    width = 5)
})
```

semantic_palette	<i>Semantic colors</i>	https://github.com/Semantic-Org/Semantic-UI/blob/master/src/themes/default/globals/site.variables
------------------	------------------------	-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------

Description

Semantic colors <https://github.com/Semantic-Org/Semantic-UI/blob/master/src/themes/default/globals/site.variables>

Usage

```
semantic_palette
```

Format

An object of class character of length 13.

sidebar_menu	<i>Create a sidebar menu.</i>
--------------	-------------------------------

Description

Create a sidebar menu with menu items.

Usage

```
sidebar_menu(...)
```

```
sidebarMenu(...)
```

Arguments

... Menu items.

Value

A sidebar menu that can be passed [dashboardSidebar](#)

Functions

- sidebarMenu: Create a sidebar menu (alias for sidebar_menu for compatibility with shinydashboard)

Examples

```
sidebarMenu(
  menuItem(tabName = "plot_tab", text = "My plot", icon = icon("home")),
  menuItem(tabName = "table_tab", text = "My table", icon = icon("smile"))
)
```

sidebar_menu_output *Create a sidebar menu output.*

Description

UI-side function for dynamic sidebarMenu.

Usage

```
sidebar_menu_output(outputId)
```

```
sidebarMenuOutput(outputId)
```

Arguments

outputId Id of the output.

Value

A sidebar menu that can be passed to [dashboardSidebar](#)

Functions

- sidebarMenuOutput: Create a sidebar menu output (alias for sidebar_menu_output for compatibility with shinydashboard)

tab_box *Create a tab box.*

Description

Create a tab box with additional UI elements.

Usage

```
tab_box(tabs, title = NULL, color = "", ribbon = TRUE,  
        title_side = "top right", collapsible = TRUE, width = 8, id = NULL)
```

```
tabBox(tabs, title = NULL, color = "", ribbon = TRUE,  
        title_side = "top right", collapsible = TRUE, width = 8, id = NULL)
```

Arguments

tabs	Tabs to include within the box.
title	Label of the box.
color	Color of the box. One of c("", "red", "orange", "yellow", "olive", "green", "teal", "blue").
ribbon	Should label be presented as ribbon.
title_side	Side of a label. One of c("top", "bottom", "top left", "top right", "bottom left", "bottom right") if ribbon = FALSE, or one of c("top left", "top right") if ribbon = TRUE
collapsible	Should minimize button be added to label.
width	Width of the box.
id	ID of the box.

Value

A box that can be passed to [dashboardBody](#)

Functions

- `tabBox`: Create a tab box (alias for `tab_box` for compatibility with `shinydashboard`)

Examples

```
tabBox(title = "Sample tab box", color = "blue", width = 5,
       tabs = list(
         list(menu = "First Tab", content = "This is first tab"),
         list(menu = "Second Tab", content = "This is second tab")
       ))
```

tab_item

Create a tab.

Description

Create a tab panel with additional UI elements.

Usage

```
tab_item(tabName, ...)
```

```
tabItem(tabName, ...)
```

Arguments

tabName	Id of the tab.
...	UI elements to include within the tab.

Value

A tab that can be passed to [dashboardBody](#)

Functions

- `tabItem`: Create a tab (alias for `tab_item` for compatibility with shinydashboard)

Examples

```
tabItem(tabName = "tab1", "Tab 1")
```

tab_items	<i>Create a panel with tabs.</i>
-----------	----------------------------------

Description

Create a panel with tabs.

Usage

```
tab_items(..., selected = 1)
```

```
tabItems(..., selected = 1)
```

Arguments

...	Tabs.
selected	Which tab should be active on start.

Value

A panel with tabs that can be passed to [dashboardBody](#)

Functions

- `tabItems`: Create a panel with tabs (alias for `tab_items` for compatibility with shinydashboard)

Examples

```
tabItems(  
  tabItem(tabName = "tab1", "Tab 1"),  
  tabItem(tabName = "tab2", "Tab 2"))
```

task_item	<i>Create a task item.</i>
-----------	----------------------------

Description

Create a task item.

Usage

```
task_item(text, value, color = "")
```

```
taskItem(text, value, color = "")
```

Arguments

text	Progress bar label.
------	---------------------

value	Progress bar value.
-------	---------------------

color	Color of the task item. One of c("", "red", "orange", "yellow", "olive", "green", "teal", "b
-------	----------------------------------------------------------------------------------------------

Value

A task item that can be passed to [dropdownMenu](#)

Functions

- `taskItem`: Create a task item (alias for `taks_item` for compatibility with `shinydashboard`)

Examples

```
taskItem("Project progress...", 50.777, color = "red")
```

validate_tab_name	<i>Valid tab name should not contain dot character `.`.</i>
-------------------	-------------------------------------------------------------

Description

Valid tab name should not contain dot character `.`.

Usage

```
validate_tab_name(name)
```

Arguments

name	Tab name to validate.
------	-----------------------

value_box	<i>Create a valueBox.</i>
-----------	---------------------------

Description

Create a valueBox with additional UI elements.

Usage

```
value_box(subtitle, value, icon = NULL, color = "blue", width = 5,  
          size = "")
```

```
valueBox(subtitle, value, icon = NULL, color = "blue", width = 5,  
         size = "")
```

```
infoBox(subtitle, value, icon = NULL, color = "blue", width = 5,  
        size = "")
```

Arguments

subtitle	Label of the valueBox.
value	Value of the valueBox.
icon	Icon of the valueBox.
color	Color of the valueBox. One of <code>c("", "red", "orange", "yellow", "olive", "green", "teal", "b</code>
width	Width of the valueBox.
size	Size of value. One of <code>c("mini", "tiny", "small", "", "large", "huge")</code> . Default is "".

Value

A valueBox that can be passed to [dashboardBody](#)

Functions

- `valueBox`: Create a valueBox (alias for `value_box` for compatibility with shinydashboard)
- `infoBox`: Create a valueBox (alias for `value_box` for compatibility with shinydashboard)

Examples

```
valueBox("Unread Mail", 44, icon("mail"), color = "blue", width = 5, size = "tiny")
```

value_box_output	Create a value box output.
------------------	----------------------------

Description

UI-side function for dynamic valueBox.

Usage

```
value_box_output(outputId, width = 5)
```

```
valueBoxOutput(outputId, width = 5)
```

```
infoBoxOutput(outputId, width = 5)
```

Arguments

outputId	Id of the output.
width	Width of the valueBox.

Value

A value box that can be passed to [dashboardBody](#)

Functions

- `valueBoxOutput`: Create a valueBox output (alias for `value_box_output` for compatibility with shinydashboard)
- `infoBoxOutput`: Create a valueBox output (alias for `value_box_output` for compatibility with shinydashboard)

Examples

```
valueBoxOutput("value_box")

output$value_box <- renderValueBox({
  valueBox(
    value = 33.45,
    subtitle = "Simple valuebox",
    icon = icon("bar chart"),
    color = "purple",
    width = 5)
})
```

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