

Package ‘bsplus’

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Type Package

Title Adds Functionality to the R Markdown + Shiny Bootstrap Framework

Version 0.1.4

Description The Bootstrap framework lets you add some JavaScript functionality to your web site by adding attributes to your HTML tags - Bootstrap takes care of the JavaScript <https://getbootstrap.com/docs/3.3/javascript/>. If you are using R Markdown or Shiny, you can use these functions to create collapsible sections, accordion panels, modals, tooltips, popovers, and an accordion sidebar framework (not described at Bootstrap site). Please note this package was designed for Bootstrap 3.3.

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Depends R (>= 3.3.0)

Imports htmltools, magrittr, purrr, lubridate, stringr, rmarkdown, glue, jsonlite, methods

URL <https://github.com/ijlyttle/bsplus>

BugReports <https://github.com/ijlyttle/bsplus/issues>

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|--------------|------------------------------|
| bs_accordion | <i>Accordion panel-group</i> |
|--------------|------------------------------|

Description

An accordion is a set of collapsible panels where, at most, one panel-body is visible.

Usage

```
bs_accordion(id)

## S3 method for class 'bsplus_accordion'
bs_append(tag, title, content, ...)

## S3 method for class 'bsplus_accordion'
bs_set_opts(tag, panel_type = "primary", use_heading_link = TRUE, ...)
```

Arguments

| | |
|---------|---|
| id | character, unique id for accordion <div/>, also serves as root id for panels appended using bs_append() |
| tag | htmltools::[tag][htmltools::tag], accordion <div/> to which to append a panel |
| title | character (HTML) or htmltools::[tagList][htmltools::tagList], title for the panel heading |
| content | character (HTML) or htmltools::[tagList][htmltools::tagList], content for the panel body |

... other arguments (not used)

panel_type character, one of the standard Bootstrap types c("default", "primary", "success", "info", "warning", "danger")

use_heading_link logical, indicates whether to make the entire panel heading clickable.

Details

All of these functions return a `bsplus_accordion` object (which is also an `htmltools::[tag][htmltools::tag]`, `<div/>`), so you can compose an accordion by piping. There are three parts to this system:

1. A constructor function for the accordion, `bs_accordion()`
2. A function to set options for subsequent panels, `bs_set_opts()`
3. A function to append a panel to the group, `bs_append()`

The verb *append* is used to signify that you can append an arbitrary number of panels to an accordion.

For the constructor, `bs_accordion()`, it is your responsibility to ensure that `id` is unique among HTML elements in your page. If you have non-unique `id`'s, strange things may happen to your page.

Value

`bsplus_accordion` object (`htmltools::[tag][htmltools::tag]`, `<div/>`)

See Also

<https://getbootstrap.com/docs/3.3/javascript/#collapse-example-accordion>

Examples

```
bs_accordion(id = "meet_the_beatles") %>%
  bs_set_opts(panel_type = "success", use_heading_link = TRUE) %>%
  bs_append(title = "John Lennon", content = "Rhythm guitar, vocals") %>%
  bs_set_opts(panel_type = "info") %>%
  bs_append(title = "Paul McCartney", content = "Bass guitar, vocals")
```

bs_accordion_sidebar *Accordion-sidebar panel-group*

Description

Combines Bootstrap accordion with the functionality of `shiny::[sidebarLayout][shiny::sidebarLayout]`, allowing you to add another dimension to your **shiny** apps.

Usage

```

bs_accordion_sidebar(
  id,
  spec_side = c(width = 4, offset = 0),
  spec_main = c(width = 8, offset = 0),
  position = c("left", "right")
)

use_bs_accordion_sidebar()

## S3 method for class 'bsplus_accordion_sidebar'
bs_append(tag, title_side, content_side, content_main, ...)

## S3 method for class 'bsplus_accordion_sidebar'
bs_set_opts(
  tag,
  panel_type_active = "success",
  panel_type_inactive = "primary",
  use_main_enclosure = TRUE,
  ...
)

```

Arguments

| | |
|---------------------|---|
| id | character, unique id for accordion-sidebar <div/>, also serves as root id for panels appended using bs_append() |
| spec_side | numeric, column specification for sidebar panels |
| spec_main | numeric, column specification for main panels |
| position | character, indicates where to put the sidebar panels with respect to the main panels |
| tag | htmltools::[tag][htmltools::tag], accordion-sidebar <div/> to which to append a panel |
| title_side | character (HTML) or htmltools::[tagList][htmltools::tagList], title for the sidebar panel |
| content_side | character (HTML) or htmltools::[tagList][htmltools::tagList], content for the sidebar panel |
| content_main | character (HTML) or htmltools::[tagList][htmltools::tagList], content for the main panel |
| ... | other arguments (not used) |
| panel_type_active | character, indicated bootstrap type for active-panel header, one of c("default", "primary", "success", "info", "warning", "danger") |
| panel_type_inactive | character, indicated bootstrap type for inactive-panel header, one of c("default", "primary", "success", "info", "warning", "danger") |
| use_main_enclosure | logical, indicates if main content is to be wrapped in a Bootstrap panel |

Details

If you use a `bs_accordion_sidebar()`, you will have to call the function `use_bs_accordion_sidebar()` somewhere in your UI. This attaches some JavaScript needed for your accordion sidebar to work properly.

All of these functions return a `bsplus_accsidebar` object, (which is also an `htmltools::[tag][htmltools::tag]`, `<div/>`), so you can compose an accordion sidebar by piping. There are three parts to this system:

1. A constructor function for the accordion-sidebar, `bs_accordion_sidebar()`
2. A function to set options for subsequent panels, `bs_set_opts()`
3. A function to append a panel-set to an accordion-sidebar, `bs_append()`

The verb *append* is used to signify that you can append an arbitrary number of panels-sets to an accordion-sidebar.

For the constructor, `bs_accordion_sidebar()`, it is your responsibility to ensure that `id` is unique among HTML elements in your page. If you have non-unique `id`'s, strange things may happen to your page.

Value

`bsplus_accsidebar` object (`htmltools::[tag][htmltools::tag]`, `<div/>`)

Examples

```
bs_accordion_sidebar(id = "meet_the_beatles") %>%
  bs_append(
    title_side = "John Lennon",
    content_side = "Rhythm guitar, vocals",
    content_main = "Dear Prudence"
  ) %>%
  bs_append(
    title_side = "Paul McCartney",
    content_side = "Bass guitar, vocals",
    content_main = "Blackbird"
  )
## Not run:
use_bs_accordion_sidebar()

## End(Not run)
```

`bs_append.bsplus_carousel`

Carousel

Description

A carousel is used to enclose a set of (typically) images, providing controls to move slides back-and-forth.

Usage

```
## S3 method for class 'bsplus_carousel'
bs_append(tag, content, caption = NULL, ...)

bs_carousel(id, use_indicators = FALSE, use_controls = TRUE)
```

Arguments

| | |
|----------------|---|
| tag | htmltools::[tag][htmltools::tag], carousel <div/> to which to append a panel |
| content | character (HTML) or htmltools::[tagList][htmltools::tagList], content for the slide |
| caption | character (HTML) or htmltools::[tagList][htmltools::tagList], caption for the slide |
| ... | other args (not used) |
| id | character, unique id for accordion <div/>, also serves as root id for slides appended using bs_append() |
| use_indicators | logical, denotes use of slide-position indicators (dots) |
| use_controls | logical, denotes use of controls (chevrons at sides) |

Details

All of these functions return a bsplus_carousel object (which is also an htmltools::[tag][htmltools::tag], <div/>), so you can compose a carousel by piping. There are two parts to this system:

1. A constructor function for the carousel, bs_carousel()
2. A function to append a slide to the carousel, bs_append()

The verb *append* is used to signify that you can append an arbitrary number of slides to a carousel.

For the constructor, bs_carousel(), it is your responsibility to ensure that id is unique among HTML elements in your page. If you have non-unique id's, strange things may happen to your page.

Value

bsplus_carousel object (htmltools::[tag][htmltools::tag], <div/>)

See Also

<https://getbootstrap.com/docs/3.3/javascript/#carousel>, bs_carousel_image(), bs_carousel_caption()

Examples

```
bs_carousel(id = "with_the_beatles") %>%
  bs_append(content = bs_carousel_image(src = "img/john.jpg")) %>%
  bs_append(content = bs_carousel_image(src = "img/paul.jpg")) %>%
  bs_append(content = bs_carousel_image(src = "img/george.jpg")) %>%
  bs_append(content = bs_carousel_image(src = "img/ringo.jpg"))
```

| | |
|-----------|---------------|
| bs_button | <i>Button</i> |
|-----------|---------------|

Description

This function makes it a little easier to make Bootstrap-friendly buttons; it wraps `htmltools::tags` for buttons.

Usage

```
bs_button(  
  label,  
  button_type = c("default", "primary", "success", "info", "warning", "danger"),  
  button_size = c("default", "large", "small", "extra-small"),  
  ...  
)
```

Arguments

| | |
|-------------|--|
| label | character (HTML), button label |
| button_type | character, one of the standard Bootstrap types |
| button_size | character, size of the button |
| ... | attributes (named arguments) and children (unnamed arguments) of the button, passed to |

Value

Object with S3 class, `shiny.tag`, `<button/>`.

See Also

<https://getbootstrap.com/docs/3.3/css/#buttons>

Examples

```
bs_button("Click me", button_type = "primary", button_size = "small")
```

bs_carousel_caption *Carousel caption*

Description

Helper function to generate HTML for a carousel caption.

Usage

```
bs_carousel_caption(title = NULL, body = NULL)
```

Arguments

| | |
|-------|--------------------------|
| title | character, caption title |
| body | character, caption body |

Value

htmltools::[tag][htmltools::tag] <div/> for carousel caption

See Also

[bs_carousel\(\)](#)

bs_carousel_image *Carousel image*

Description

Helper function to generate HTML for a carousel image.

Usage

```
bs_carousel_image(...)
```

Arguments

| | |
|-----|--|
| ... | additional arguments passed to htmltools::[tag][htmltools::tag]\$img, typically includes src |
|-----|--|

Details

This function wraps htmltools::[tag][htmltools::tag]\$img, but adding a class to center the image in the carousel.

Value

```
htmltools::[tag][htmltools::tag], </img>
```

See Also

[bs_carousel\(\)](#)

 bs_collapse

Collapsible element

Description

This is useful for content that you may wish to be hidden when the page is initialized, but that can be revealed (and subsequently hidden) by clicking a button or a link.

Usage

```
bs_collapse(id, content = NULL, show = FALSE)
```

```
bs_attach_collapse(tag, id_collapse)
```

Arguments

| | |
|-------------|--|
| id | character, unique id for the collapsible <div/> |
| content | character (HTML) or <code>htmltools::[tagList][htmltools::tagList]</code> , content for the collapsible <div/> |
| show | logical, indicates if collapsible <div/> is shown when page is initialized |
| tag | <code>htmltools::[tag][htmltools::tag]</code> , button or link to which to attach a collapsible <div/> |
| id_collapse | character, id of the collapsible <div/> to attach |

Details

There are two parts to this system:

1. A collapsible <div/>, created using `bs_collapse()`
2. At least one button (<button/>) or link (<a/>) to which the id of the collapsible <div/> is attached, using `bs_attach_collapse()`

The verb *attach* is used to signify that we are attaching the id of our collapsible <div/> to the tag in question (a button or a link). Note that you can attach the id of a collapsible <div/> to more than one button or link.

It is your responsibility to ensure that id is unique among HTML elements in your page. If you have non-unique id's, strange things may happen to your page.

Value

bs_collapse() htmltools::[tag][htmltools::tag], <div/>
 bs_attach_collapse() htmltools::[tag][htmltools::tag], modified copy of tag (button or link)

See Also

<https://getbootstrap.com/docs/3.3/javascript/#collapse>

Examples

```
library("htmltools")

bs_collapse(id = "id_yeah", "Yeah Yeah Yeah")

bs_button("She Loves You", button_type = "primary") %>%
  bs_attach_collapse("id_yeah")
```

| | |
|------------------|----------------|
| bs_embed_popover | <i>Popover</i> |
|------------------|----------------|

Description

A popover can be a useful way to add a somewhat-verbose explanation to a tag.

Usage

```
bs_embed_popover(tag, title = NULL, content = NULL, placement = "top", ...)

use_bs_popover()
```

Arguments

| | |
|-----------|--|
| tag | htmltools::[tag][htmltools::tag], generally <button/> or <a/>, into which to embed the popover |
| title | character, title for the popover, generally text |
| content | character, content for the popover body, can be HTML |
| placement | character, placement of the popover with respect to tag |
| ... | other named arguments, passed to bs_set_data() |

Details

To activate the use of popovers in your page, you will need to call the use_bs_popover() function somewhere.

The verb *embed* is used to signify that you are embedding information into a tag. This implies that you can embed, at most, one "thing" into a particular tag. You should not, for example, expect to embed both a tooltip and a popover into a tag.

Value

htmltools::[tag][htmltools::tag], modified copy of tag

See Also

[bs_embed_tooltip\(\)](https://getbootstrap.com/docs/3.3/javascript/#popovers), <https://getbootstrap.com/docs/3.3/javascript/#popovers>

Examples

```
library("htmltools")

bs_button("A button") %>%
  bs_embed_popover(title = "I'm a popover", content = "Really!")
```

| | |
|------------------|----------------|
| bs_embed_tooltip | <i>Tooltip</i> |
|------------------|----------------|

Description

A tooltip can be a useful way to add a few words of explanation to a tag.

Usage

```
bs_embed_tooltip(tag, title = "", placement = "top", ...)

use_bs_tooltip()
```

Arguments

| | |
|-----------|--|
| tag | htmltools::[tag][htmltools::tag], generally <button/> or <a/>, into which to embed the tooltip |
| title | character, title for the tooltip |
| placement | character, placement of the tooltip with respect to tag |
| ... | other named arguments, passed to bs_set_data() |

Details

To activate the use of tooltips in your page, you will need to call the use_bs_tooltip() function somewhere.

The verb *embed* is used to signify that you are embedding information into a tag. This implies that you can embed, at most, one "thing" into a particular tag. You should not, for example, expect to embed both a tooltip and a popover into a tag.

Value

htmltools::[tag][htmltools::tag], modified copy of tag

See Also

`bs_embed_popover()`, <https://getbootstrap.com/docs/3.3/javascript/#tooltips>

Examples

```
library("htmltools")
bs_button("I'm a button") %>%
  bs_embed_tooltip(title = "I'm a tooltip")
```

 bs_modal

Modal window

Description

Modal windows are useful to make detailed explanations, and are typically attached to buttons or links. Thus, there are two parts to this system:

Usage

```
bs_modal(
  id,
  title,
  body,
  footer = bs_modal_closebutton(label = "Close"),
  size = c("medium", "large", "small")
)
```

```
bs_modal_closebutton(label = "Close", title)
```

```
bs_attach_modal(tag, id_modal)
```

Arguments

| | |
|----------|--|
| id | character, unique id for the modal window |
| title | character, title for the modal window (this argument is deprecated for <code>bs_modal_closebutton</code> , use <code>label</code> instead) |
| body | character (HTML) or <code>htmltools::[tagList][htmltools::tagList]</code> , content for the body of the modal window |
| footer | character (HTML) or <code>htmltools::[tagList][htmltools::tagList]</code> , content for the footer of the modal window |
| size | character, size of the modal window |
| label | character (HTML), label for the close-button |
| tag | <code>htmltools::[tag][htmltools::tag]</code> , button or link to which to attach the modal window |
| id_modal | character, unique id of modal window to attach |

Details

1. A modal window, created using `bs_modal()`
2. At least one button or link to which the `id` of the modal window is attached, using `bs_attach_modal()`

The verb *attach* is used to signify that we are attaching the `id` of our modal window to the `tag` in question (generally a button or a link). This implies that you can attach the `id` of a modal window to more than one button or link.

It is your responsibility to ensure that `id` is unique among HTML elements in your page. If you have non-unique `id`'s, strange things may happen to your page.

Your code may be cleaner if you can import the content for the modal body from an external source. Here, the function `shiny::[includeMarkdown][shiny::includeMarkdown]` be useful.

If you want to compose your own footer for the modal window, the function `bs_modal_closebutton()` can be useful.

Value

`bs_modal()` `htmltools::[tag][htmltools::tag], <div/>`
`bs_attach_modal()` `htmltools::[tag][htmltools::tag], modified copy of tag`
`bs_modal_closebutton()` `htmltools::[tag][htmltools::tag], <button/>`

See Also

`shiny::[includeMarkdown][shiny::includeMarkdown]`

Examples

```
library("htmltools") # also needs `markdown` package
library("shiny")

bs_modal(id = "modal", title = "I'm a modal", body = "Yes, I am.")
bs_button("Click for modal") %>%
  bs_attach_modal(id_modal = "modal")

bs_modal(
  id = "modal_large",
  title = "I'm a modal",
  size = "large",
  body = includeMarkdown(system.file("markdown", "modal.md", package = "bsplus"))
)
bs_button("Click for modal") %>%
  bs_attach_modal(id_modal = "modal_large")
```

| | |
|----------|--------------|
| bs_panel | <i>Panel</i> |
|----------|--------------|

Description

This function makes it a little easier to make Bootstrap-friendly panels; it wraps `htmltools::tags` for panels

Usage

```
bs_panel(  
  id = NULL,  
  panel_type = c("default", "primary", "success", "info", "warning", "danger"),  
  heading = NULL,  
  body = NULL,  
  ...,  
  footer = NULL  
)
```

Arguments

| | |
|-------------------------|---|
| <code>id</code> | character, unique identifier |
| <code>panel_type</code> | character, one of the standard Bootstrap types |
| <code>heading</code> | character (HTML) or <code>htmltools::tagList()</code> , content for the heading |
| <code>body</code> | character (HTML) or <code>htmltools::tagList()</code> , content for the body |
| <code>...</code> | character (HTML) or <code>htmltools::tagList()</code> , other content |
| <code>footer</code> | character (HTML) or <code>htmltools::tagList()</code> , content for the footer |

Value

Object with S3 class, `shiny.tag`, `<div/>`

See Also

<https://getbootstrap.com/docs/3.3/css/#panels>

Examples

```
library("htmltools")  
  
bs_panel(  
  panel_type = "primary",  
  heading = tags$h3("title"),  
  body = tags$p("Some very important content")  
)
```

| | |
|-------------|---|
| bs_set_data | <i>Sets Bootstrap data- and aria- attributes.</i> |
|-------------|---|

Description

Helper function to manage attributes for Bootstrap's JavaScript components.

Usage

```
bs_set_data(tag, ...)
```

```
bs_set_aria(tag, ...)
```

Arguments

| | |
|-----|---|
| tag | htmltools::[tag][htmltools::tag] |
| ... | named arguments used to set the attributes of tag |

Details

One of the mechanisms used by the API for Bootstrap JavaScript-components is an html elements' attributes. These attribute names are prefixed with "data-" or "aria-", depending on the function.

When expressed in html, attributes themselves have the properties:

- Logical values are expressed as "true" or "false".
- Time durations are expressed as number of milliseconds.
- Vector (non scalar) values are expressed in a space-delimited list.

The purpose of this function is to let you express these values in ways familiar to you as an R user. For example:

- Logical values can be expressed as logicals: TRUE or FALSE.
- Time durations can be expressed using lubridate durations.
- Vector (non scalar) values can be expressed as vectors.

Note that this returns a modified copy of the tag sent to it, so it is pipeable.

Value

htmltools::[tag][htmltools::tag], modified copy of tag

See Also

[Bootstrap JavaScript Components](#)

Examples

```
library("htmltools")
library("lubridate")

tags$div() %>%
  bs_set_data(
    target = "#foobar",
    delay = dseconds(1),
    placement = c("right", "auto")
  ) %>%
  bs_set_aria(expanded = FALSE)
```

render_html_fragment *Renders and returns an HTML fragment*

Description

This is a wrapper around the `rmarkdown::[render][rmarkdown::render]` function. The principal difference is that the function is designed to return an HTML fragment (rather than writing to a file). This function is useful to populate the content of a modal window.

Usage

```
render_html_fragment(input, output_format = rmarkdown::html_fragment(), ...)
```

Arguments

| | |
|----------------------------|---|
| <code>input</code> | character, path to input file |
| <code>output_format</code> | rmarkdown output format, provided so you can specify arguments |
| <code>...</code> | other arguments passed to <code>rmarkdown::[render][rmarkdown::render]</code> |

Details

This function is being deprecated in favor of `shiny::[includeMarkdown][shiny::includeMarkdown]`

Value

```
htmltools::[tag][htmltools::tag]
```

Examples

```
## Not run:
my_file <- system.file("markdown", "modal.md", package = "bsplus")
render_html_fragment(my_file)

## End(Not run)
```

`shinyInput_label_embed`*Embed an element into the label of a Shiny-input tag*

Description

The element embedded into the Shiny input will be pulled to the right edge of the label.

Usage

```
shinyInput_label_embed(tag, element)
```

Arguments

| | |
|----------------------|--|
| <code>tag</code> | Shiny input, such as <code>shiny::[numericInput][shiny::numericInput]</code> |
| <code>element</code> | <code>htmltools::[tag][htmltools::tag]</code> to be embedded into label of tag |

Details

To promote consistency, the following convention is proposed:

For links (activated by clicking), embed a `shiny::icon("info-circle")`; this is the default for [shiny_iconlink\(\)](#). For elements activated by hovering, embed a `shiny::icon("info")`.

Value

Shiny input, modified copy of tag

See Also

[shiny_iconlink\(\)](#)

Examples

```
library("shiny")

numericInput(inputId = "foo", label = "Enter a number", value = 0) %>%
  shinyInput_label_embed(
    shiny_iconlink() %>%
      bs_embed_popover(title = "Number", content = "Not a complex number")
  )
```

| | |
|----------------|--|
| shiny_iconlink | <i>Create link containing Shiny icon</i> |
|----------------|--|

Description

You can use this helper function to wrap link element around a `shiny::icon`[`shiny::icon`]. It may be useful to attach a modal window to (or embed a popover into) into such a link.

Usage

```
shiny_iconlink(name = "info-circle", id = NULL, ...)
```

Arguments

| | |
|------|--|
| name | character, name of the icon, passed to <code>shiny::icon</code> [<code>shiny::icon</code>] |
| id | character, option ID for the link |
| ... | other arguments passed to <code>shiny::icon</code> [<code>shiny::icon</code>] |

Value

```
htmltools::tag[htmltools::tag], <a/>
```

See Also

[shinyInput_label_embed\(\)](#), [shiny::icon](#)[`shiny::icon`], [bs_attach_modal\(\)](#), [bs_embed_popover\(\)](#), [bs_embed_tooltip\(\)](#)

Examples

```
shiny_iconlink()

shiny_iconlink() %>%
  bs_embed_popover(title = "Help!", content = "I need somebody")
```

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