

Package ‘bs4Dashkit’

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Type Package

Title Branding, Theme Application and Navigation Utilities for
'bs4Dash' Dashboards

Version 0.2.0

Description Provides branding, theme application, and navigation utilities for applications built with 'bs4Dash' and 'shiny'. Supports configurable sidebar brand display modes, hover-expand behavior, and theme customization using CSS variables. Includes standardized navigation components such as refresh and help controls, along with helpers for common navigation bar and footer layouts.

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URL <https://github.com/PrigasG/bs4Dashkit>

BugReports <https://github.com/PrigasG/bs4Dashkit/issues>

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bs4dashkit_demo_app *Interactive bs4Dashkit demo app*

Description

Returns a richer runnable shiny.appobj for testing sidebar brand states, hover-expand behavior, theme presets, navbar controls, and footer styling in one place.

Usage

```
bs4dashkit_demo_app()
```

Value

A shiny.appobj.

`bs4dashkit_example_app`*Minimal bs4Dashkit example app*

Description

Returns a tiny runnable shiny.appobj that demonstrates the recommended dash_titles() plus use_bs4Dashkit_core() flow.

Usage

```
bs4dashkit_example_app()
```

Value

A shiny.appobj.

`bs4dashkit_theme_presets`*Built-in bs4Dashkit theme presets*

Description

Returns the theme presets shipped with bs4Dashkit so they are easy to discover in code completion, validation errors, and documentation.

Usage

```
bs4dashkit_theme_presets(values = FALSE)
```

Arguments

values	Logical. If TRUE, also returns the preset theme values as a list-column named tokens.
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Value

A data frame with one row per preset and columns preset and description. If values = TRUE, the returned data frame also includes a tokens list-column.

dash_brand_ui *Create sidebar / navbar brand UI*

Description

Produces an icon + text block for bs4Dash brand slots with rich styling and optional visual effects. Supports Font Awesome icons or image logos.

Usage

```
dash_brand_ui(
  brand_text,
  icon = NULL,
  icon_img = NULL,
  icon_shape = c("circle", "rounded", "square"),
  icon_size = NULL,
  icon_color = NULL,
  weight = 700,
  spacing = "-0.02em",
  size = NULL,
  italic = FALSE,
  font_family = NULL,
  color = NULL,
  gradient = NULL,
  effect = c("none", "glow", "shimmer", "emboss"),
  glow_color = NULL
)
```

Arguments

brand_text	Visible brand label (character). May be NULL for icon-only brands.
icon	Font Awesome icon name e.g. "shield-halved", or a simple icon("shield-halved") tag. NULL for none.
icon_img	URL or www-relative path to an image logo. Overrides icon when both are supplied.
icon_shape	Shape mask for image icons: "circle", "rounded", "square". Ignored for FA icons. Default "circle".
icon_size	Size of icon/image as CSS string e.g. "20px", "1.3em". NULL = inherits sidebar default.
icon_color	CSS color for FA icon e.g. "#2f6f8f". NULL = inherit. For image icons, applies a CSS tint via mix-blend-mode (subtle).
weight	CSS font-weight: numeric or keyword. Default 700.
spacing	CSS letter-spacing. Default "-0.02em".
size	CSS font-size for label e.g. "13px". NULL = inherit.

<code>italic</code>	Logical. Italicise the label. Default FALSE.
<code>font_family</code>	CSS font-family string e.g. "'Inter', sans-serif".
<code>color</code>	Solid CSS color for label text. NULL = inherit. Ignored when gradient is set.
<code>gradient</code>	Character vector of 2 hex colors for gradient text effect e.g. <code>c("#2f6f8f", "#5ba3c9")</code> . Automatically enables <code>effect = "gradient"</code> .
<code>effect</code>	Visual effect on label: "none", "glow", "shimmer", "emboss". "gradient" is set automatically when gradient is supplied.
<code>glow_color</code>	CSS color for glow effect. Defaults to first gradient color or <code>color</code> or the package accent blue.

Value

A named list with components:

ui A shiny.tag.list containing the generated brand UI.

dep A shiny.tag object containing scoped CSS dependencies for the brand styling.

<code>dash_footer</code>	<i>Standard footer for bs4Dash dashboards</i>
--------------------------	---

Description

Standard footer for bs4Dash dashboards

Usage

```
dash_footer(
  logo_src = NULL,
  left_text = NULL,
  right_text = NULL,
  right_date = NULL,
  date_format = "%B %d, %Y",
  logo_height = 20,
  logo_position = c("left", "right"),
  fixed = TRUE
)
```

Arguments

<code>logo_src</code>	Path under <code>www/</code> or an external URL.
<code>left_text</code>	Text rendered on the left side (optional).
<code>right_text</code>	Text rendered on the right side (optional).
<code>right_date</code>	Optional Date to render on the right. Ignored if <code>right_text</code> is set.
<code>date_format</code>	Format used when <code>right_date</code> is provided.
<code>logo_height</code>	Height in px for the logo image.
<code>logo_position</code>	Where the logo should appear: "left" or "right".
<code>fixed</code>	Logical. Fixed footer (TRUE/FALSE).

Value

A shiny.tag object representing a bs4DashFooter UI component.

dash_nav_help_button *Navbar help button (styled)*

Description

Navbar help button (styled)

Usage

```
dash_nav_help_button(
  id,
  label = "Help",
  icon = "circle-question",
  class = NULL,
  ...
)
```

Arguments

id	inputId for actionButton
label	Button label
icon	Font Awesome icon name
class	Additional classes
...	Passed to shiny::actionButton

Value

A shiny.tag object representing a styled navbar action button.

dash_nav_item *Wrap a navbar control in a list item (bs4Dash rightUi convention)*

Description

Wrap a navbar control in a list item (bs4Dash rightUi convention)

Usage

```
dash_nav_item(...)
```

Arguments

... UI elements

Value

A shiny.tag object containing an HTML list item for use in bs4Dash navbar UI.

dash_nav_refresh_button
Navbar refresh button (styled)

Description

Navbar refresh button (styled)

Usage

```
dash_nav_refresh_button(  
  id,  
  label = "Refresh",  
  icon = "rotate-right",  
  class = NULL,  
  ...  
)
```

Arguments

id	inputId for actionButton
label	Button label
icon	Font Awesome icon name
class	Additional classes
...	Passed to shiny::actionButton

Value

A shiny.tag object representing a styled navbar refresh button.

dash_nav_title	<i>Navbar title (center, right, or left)</i>
----------------	--

Description

Creates a consistent title block for bs4Dash navbars, with optional subtitle and icon. Alignment can be "center", "right", or "left".

Usage

```
dash_nav_title(  
    title,  
    subtitle = NULL,  
    icon = NULL,  
    align = c("center", "right", "left")  
)
```

Arguments

title	Main title (character or tag)
subtitle	Optional subtitle (character or tag)
icon	Optional Font Awesome icon name or simple icon("shield-halved") tag.
align	One of c("center","right","left")

Details

IMPORTANT:

- align = "left" is intended to be placed in dashboardHeader(leftUi = ...)
- align = "right" is intended to be placed in dashboardHeader(rightUi = ...)
- align = "center" can be placed anywhere (it is positioned by CSS/JS)

Value

A shiny.tag object representing the navbar title UI.

dash_titles	<i>Dashboard brand and sidebar configuration</i>
-------------	--

Description

Single entry point for branding and sidebar brand behavior. Creates a reusable object you place into `bs4DashPage()`, `bs4DashNavbar()`, and `bs4DashBody()`.

Usage

```
dash_titles(  
  brand_text,  
  app_name = NULL,  
  icon = NULL,  
  icon_img = NULL,  
  icon_shape = c("circle", "rounded", "square"),  
  icon_size = NULL,  
  icon_color = NULL,  
  weight = 700,  
  spacing = "-0.02em",  
  size = NULL,  
  italic = FALSE,  
  font_family = NULL,  
  color = NULL,  
  gradient = NULL,  
  effect = c("none", "glow", "shimmer", "emboss"),  
  glow_color = NULL,  
  collapsed = NULL,  
  expanded = NULL,  
  collapsed_text = NULL,  
  expanded_text = NULL,  
  collapsed_text_size = NULL,  
  expanded_text_size = NULL,  
  collapsed_text_weight = NULL,  
  expanded_text_weight = NULL,  
  brand_divider = NULL,  
  debug = NULL  
)
```

Arguments

<code>brand_text</code>	Visible brand label shown in the navbar/sidebar. May be NULL only when both sidebar modes are "icon-only" and an icon or image logo is supplied.
<code>app_name</code>	Browser tab title. If NULL, defaults to <code>brand_text</code> , or "bs4Dashkit" when <code>brand_text</code> is empty.
<code>icon</code>	Font Awesome icon name for the brand (for example "project-diagram") or a simple icon("project-diagram") tag. Ignored when <code>icon_img</code> is supplied.

icon_img	Path (www relative) or URL to an image logo. Overrides icon.
icon_shape	Shape mask for image logos. One of "circle", "rounded", "square".
icon_size	CSS size for the icon/image (e.g. "20px", "1.2em").
icon_color	CSS color for the Font Awesome icon. For image icons, a subtle tint may be applied.
weight	CSS font-weight for the brand text.
spacing	CSS letter-spacing for the brand text.
size	CSS font-size for the brand text (e.g. "14px").
italic	Logical. If TRUE, renders brand text in italics.
font_family	CSS font-family string (e.g. "'Inter', sans-serif").
color	Solid CSS text color for the brand label (ignored when gradient is set).
gradient	Character vector of length 2 giving gradient colors for the brand label. When set, gradient styling is applied.
effect	Visual effect for the brand label. One of "none", "glow", "shimmer", "emboss". If gradient is set, gradient styling is used.
glow_color	Color used for glow/shimmer effects (when applicable).
collapsed	Sidebar brand mode when the sidebar is collapsed. One of "icon-only", "icon-text", "text-only". If NULL, uses option <code>bs4Dashkit.sidebar.collapsed</code> .
expanded	Sidebar brand mode when the sidebar is expanded. One of "icon-only", "icon-text", "text-only". If NULL, uses option <code>bs4Dashkit.sidebar.expanded</code> .
collapsed_text	Short label used in collapsed mode (recommended \leq 8 chars).
expanded_text	Label used in expanded mode (recommended \leq 30 chars).
collapsed_text_size	Optional CSS font-size applied only to the sidebar brand label while collapsed (for example "11px" or "0.75rem").
expanded_text_size	Optional CSS font-size applied only to the sidebar brand label while expanded.
collapsed_text_weight	Optional CSS font-weight applied only to the sidebar brand label while collapsed.
expanded_text_weight	Optional CSS font-weight applied only to the sidebar brand label while expanded.
brand_divider	Logical. If TRUE, shows a divider under the brand block. If NULL, uses option <code>bs4Dashkit.brand_divider</code> .
debug	Logical. If TRUE, emits console warnings for missing icons, etc. If NULL, uses option <code>bs4Dashkit.debug</code> .

Value

A named list with components:

app_name A character string for use in `bs4DashPage(title = ...)`.

brand A `shiny.tag` object for use in `bs4DashNavbar(title = ...)`. In a standard `bs4DashPage()`, the sidebar brand mirrors the navbar brand automatically.

deps A `shiny.tag.list` containing CSS and JavaScript dependencies to include once in `bs4DashBody(...)`.

dash_user_menu	<i>Standard wrapper for a navbar user menu</i>
----------------	--

Description

Standard wrapper for a navbar user menu

Usage

```
dash_user_menu(ui)
```

Arguments

`ui` A UI object, typically a dropdown menu produced by the app

Value

A `shiny.tag` object representing the user menu UI for the navbar.

use_bs4Dashkit	<i>Load core CSS and JS for bs4Dashkit</i>
----------------	--

Description

Adds the package's bundled CSS (core, theme, sidebar) and optional JS helpers.

Usage

```
use_bs4Dashkit(include_center_js = TRUE)
```

Arguments

`include_center_js`

Logical. If TRUE (default), also includes the JavaScript helper that supports the centered navbar title layout.

Value

A `htmltools::tagList` containing an `htmltools::htmlDependency` for the package CSS and optional JavaScript helpers.

use_bs4Dashkit_core *Load bs4Dashkit core dependencies in one call*

Description

Recommended entry point for bs4Dashkit in bs4DashBody(). For most apps, this should be the first element inside bs4DashBody(...).

Usage

```
use_bs4Dashkit_core(  
  ttl,  
  preset = NULL,  
  accent = NULL,  
  ...,  
  topbar_h = 56,  
  collapsed_w = 4.2,  
  expanded_w = 250  
)
```

Arguments

ttl	Output from dash_titles()
preset	Optional theme preset name (e.g. "professional"). If NULL, uses option bs4Dashkit.theme_preset (if set).
accent	Optional accent override. If NULL, uses option bs4Dashkit.accent. If preset is used, this overrides the preset accent.
...	Optional overrides passed to use_dash_theme_preset() when preset is used.
topbar_h	Height (px) for topbar + brand strip
collapsed_w	Sidebar collapsed width (rem)
expanded_w	Sidebar expanded width (px)

Value

A shiny.tag.list containing core CSS and/or JavaScript dependencies for bs4Dashkit.

`use_dash_sidebar_behavior`*Sidebar behavior: icon-only collapse + hover expand + ellipsis labels*

Description

Sidebar behavior: icon-only collapse + hover expand + ellipsis labels

Usage

```
use_dash_sidebar_behavior(topbar_h = 56, collapsed_w = 4.2, expanded_w = 250)
```

Arguments

<code>topbar_h</code>	Height in px for navbar and sidebar brand strip
<code>collapsed_w</code>	Width for icon-only sidebar (rem)
<code>expanded_w</code>	Expanded sidebar width (px)

Value

A `shiny.tag` or `shiny.tag.list` containing sidebar behavior dependencies to include in the UI.

`use_dash_sidebar_brand_divider`*Toggle the sidebar header divider (line under the brand area)*

Description

Toggle the sidebar header divider (line under the brand area)

Usage

```
use_dash_sidebar_brand_divider(show = TRUE)
```

Arguments

<code>show</code>	Logical. TRUE keeps divider (default). FALSE hides it.
-------------------	--

Value

If `show` is TRUE, an empty `shiny.tag.list`. If `show` is FALSE, a `shiny.tag` object containing CSS that hides the sidebar brand divider.

```
use_dash_sidebar_brand_mode
```

Set sidebar brand display mode for expanded and collapsed states

Description

Controls icon visibility, text visibility, and text content in both collapsed and expanded sidebar states.

Usage

```
use_dash_sidebar_brand_mode(
  icon = NULL,
  collapsed = c("icon-only", "icon-text", "text-only"),
  expanded = c("icon-text", "icon-only", "text-only"),
  collapsed_text = NULL,
  expanded_text = NULL,
  collapsed_text_size = NULL,
  expanded_text_size = NULL,
  collapsed_text_weight = NULL,
  expanded_text_weight = NULL,
  debug = FALSE
)
```

Arguments

<code>icon</code>	Font Awesome icon name used in the brand, e.g. "shield-halved", or a simple <code>icon("shield-halved")</code> tag. Required when any mode includes "icon".
<code>collapsed</code>	Display mode when sidebar is collapsed: "icon-only", "icon-text", or "text-only"
<code>expanded</code>	Display mode when sidebar is expanded: "icon-text", "icon-only", or "text-only"
<code>collapsed_text</code>	Short label for collapsed "icon-text" or "text-only" mode. Keep ≤ 8 chars. NULL falls back to the current brand label already present in the DOM. When using <code>dash_titles()</code> , the higher-level helper usually resolves this to <code>brand_text</code> for visible text modes.
<code>expanded_text</code>	Label for expanded "icon-text" or "text-only" mode. Keep ≤ 30 chars. NULL falls back to the current brand label already present in the DOM. When using <code>dash_titles()</code> , the higher-level helper usually resolves this to <code>brand_text</code> for visible text modes.
<code>collapsed_text_size</code>	Optional CSS font-size applied to the sidebar brand label while collapsed.
<code>expanded_text_size</code>	Optional CSS font-size applied to the sidebar brand label while expanded.
<code>collapsed_text_weight</code>	Optional CSS font-weight applied to the sidebar brand label while collapsed.

expanded_text_weight	Optional CSS font-weight applied to the sidebar brand label while expanded.
debug	Logical. If TRUE, prints helpful messages to the browser console for diagnosing missing icons or brand label elements.

Details

Modes:

- "icon-only" : icon shown, label hidden — requires icon
- "text-only" : label shown, icon hidden — collapsed_text / expanded_text optional
- "icon-text" : both shown — requires icon; text args optional

Value

A shiny.tag or shiny.tag.list containing sidebar brand mode styling or dependencies.

use_dash_theme	<i>Apply a theme via CSS variables</i>
----------------	--

Description

Sets bs4Dashkit CSS custom properties (variables) for background, surfaces, borders, text, and accent color.

Usage

```
use_dash_theme(
  bg = "#f5f6f8",
  surface = "#ffffff",
  border = "#e2e3e7",
  text = "#1d1f23",
  muted = "#6b6f76",
  accent = "#2f6f8f",
  accent_soft = "#e8f1f5",
  navbar_bg = "#ffffff",
  navbar_text = "#1d1f23",
  sidebar_bg = "#ffffff",
  sidebar_text = "#1d1f23",
  sidebar_hover = "#eef4f7",
  footer_bg = "#ffffff",
  footer_text = "#6b6f76",
  success = "#2d8a56",
  warning = "#c37a14",
  danger = "#b94a48",
  radius = 12,
  shadow = "0 1px 3px rgba(0,0,0,0.07)"
)
```

Arguments

bg	Page background color.
surface	Card and panel background color.
border	Border color used on cards, separators, and outlines.
text	Primary text color.
muted	Muted text color.
accent	Accent color used for highlights and emphasis.
accent_soft	Softer accent tone used for subtle fills, hover states, and focus treatments.
navbar_bg	Navbar background color.
navbar_text	Navbar text color.
sidebar_bg	Sidebar background color.
sidebar_text	Sidebar text color.
sidebar_hover	Sidebar hover and active background color.
footer_bg	Footer background color.
footer_text	Footer text color.
success	Success accent color.
warning	Warning accent color.
danger	Danger accent color.
radius	Corner radius in pixels.
shadow	Box shadow CSS string used for cards and surfaces.

Value

A shiny.tag.list containing stylesheet dependencies and inline CSS variables for the app theme.

use_dash_theme_preset *Apply a theme preset*

Description

Apply a theme preset

Usage

```
use_dash_theme_preset(preset = c("professional", "modern", "dark-lite"), ...)
```

Arguments

preset	One of: "professional", "modern", "dark-lite"
...	Passed to use_dash_theme() to override preset values

Value

A shiny.tag or shiny.tag.list containing theme preset CSS and related UI dependencies.

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