Package ‘bs4Dashkit’

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Type Package

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

Version 0.1.0

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

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

`dash_footer` *Standard footer for bs4Dash dashboards*

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

`logo_src`	Path under `www/` or an external URL.
`left_text`	Text rendered on the left side (optional).
`right_text`	Text rendered on the right side (optional).
`right_date`	Optional Date to render on the right. Ignored if `right_text` is set.
`date_format`	Format used when `right_date` is provided.
`logo_height`	Height in px for the logo image.
`logo_position`	Where the logo should appear: "left" or "right".
`fixed`	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` *Navbar title (center, right, or left)*

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 fontawesome icon name, e.g. "shield-halved"
`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 *Dashboard brand and sidebar configuration*

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,
  brand_divider = NULL,
  debug = NULL
)
```

Arguments

`brand_text`	Visible brand label shown in the navbar/sidebar.
`app_name`	Browser tab title. If `NULL`, defaults to `brand_text`.
`icon`	Font Awesome icon name for the brand (e.g. `"project-diagram"`). Ignored when `icon_img` 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 bs4Dashkit.sidebar.collapsed.
expanded	Sidebar brand mode when the sidebar is expanded. One of "icon-only", "icon-text", "text-only". If NULL, uses option bs4Dashkit.sidebar.expanded.
collapsed_text	Short label used in collapsed mode (recommended <= 8 chars).
expanded_text	Label used in expanded mode (recommended <= 30 chars).
brand_divider	Logical. If TRUE, shows a divider under the brand block. If NULL, uses option bs4Dashkit.brand_divider.
debug	Logical. If TRUE, emits console warnings for missing icons, etc. If NULL, uses option bs4Dashkit.debug.

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 = ...) and, if desired, as sidebar title UI.

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

---

dash_user_menu *Standard wrapper for a navbar user menu*

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` *Load core CSS and JS for bs4Dashkit*

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().

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

`topbar_h`	Height in px for navbar and sidebar brand strip
`collapsed_w`	Width for icon-only sidebar (rem)
`expanded_w`	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

show	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,
  debug = FALSE
)
```

Arguments

`icon`	Font Awesome icon name used in the brand, e.g. "shield-halved". Required when any mode includes "icon".
`collapsed`	Display mode when sidebar is collapsed: "icon-only", "icon-text", or "text-only"
`expanded`	Display mode when sidebar is expanded: "icon-text", "icon-only", or "text-only"
`collapsed_text`	Short label for collapsed "icon-text" or "text-only" mode. Keep <= 8 chars. NULL falls back to original DOM text (CSS truncates).
`expanded_text`	Label for expanded "icon-text" or "text-only" mode. Keep <= 30 chars. NULL falls back to original DOM text.
`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` *Apply a theme via CSS variables*

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",
  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.
`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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