

# Package: bs4Dashkit (via r-universe)

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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. |
|--------|---|

**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. |

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

|                       |  |
|-----------------------|--|
| icon                  | Font Awesome icon name used in the brand, e.g. "shield-halved", or a simple icon("shield-halved") tag. 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 the current brand label already present in the DOM. When using dash_titles(), the higher-level helper usually resolves this to brand_text for visible text modes. |
| expanded_text         | 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 dash_titles(), the higher-level helper usually resolves this to brand_text for visible text modes.       |
| collapsed_text_size   | Optional CSS font-size applied to the sidebar brand label while collapsed.   |
| expanded_text_size    | Optional CSS font-size applied to the sidebar brand label while expanded.  |
| collapsed_text_weight | 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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