# Package 'flexdashboard'

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Type Package

Title R Markdown Format for Flexible Dashboards

Version 0.6.0

**Description** Format for converting an R Markdown document to a grid oriented dashboard. The dashboard flexibly adapts the size of it's components to the containing web page.

URL https://pkgs.rstudio.com/flexdashboard/,

https://github.com/rstudio/flexdashboard/

BugReports https://github.com/rstudio/flexdashboard/issues

**Encoding** UTF-8

**Depends** R (>= 3.0.2)

**Imports** grDevices, tools, utils, jsonlite, htmltools (>= 0.5.1), knitr (>= 1.13), htmlwidgets (>= 0.6), rmarkdown (>= 2.8), shiny (>= 0.13), scales, sass, bslib (>= 0.2.5)

Suggests testthat

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RoxygenNote 7.2.1

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#### NeedsCompilation no

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**Repository** CRAN

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flexdashboard-package *flexdashboard: Interactive dashboards for R* 

#### Description

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Create interactive dashboards using rmarkdown.

#### Details

- Use R Markdown to publish a group of related data visualizations as a dashboard.
- Ideal for publishing interactive JavaScript visualizations based on htmlwidgets (also works with standard base, lattice, and grid graphics).
- Flexible and easy to specify layouts. Charts are intelligently re-sized to fill the browser and adapted for display on mobile devices.
- Optionally use Shiny to drive visualizations dynamically.

See the flexdashboard website for additional documentation: https://pkgs.rstudio.com/flexdashboard/

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#### See Also

Useful links:

- https://pkgs.rstudio.com/flexdashboard/
- https://github.com/rstudio/flexdashboard/
- Report bugs at https://github.com/rstudio/flexdashboard/issues

flex\_dashboard

#### Description

Format for converting an R Markdown document to a grid oriented dashboard layout. The dashboard flexibly adapts the size of it's plots and htmlwidgets to its containing web page.

#### Usage

```
flex_dashboard(
  fig_width = 6,
  fig_height = 4.8,
  fig_retina = 2,
  fig_mobile = TRUE,
  dev = "png",
  self_contained = TRUE,
  favicon = NULL,
  logo = NULL,
  social = NULL,
  source_code = NULL,
  navbar = NULL,
 orientation = c("columns", "rows"),
  vertical_layout = c("fill", "scroll"),
  storyboard = FALSE,
  theme = "default",
 highlight = "default",
 mathjax = "default",
 extra_dependencies = NULL,
  css = NULL,
  includes = NULL,
  lib_dir = NULL,
 md_extensions = NULL,
 pandoc_args = NULL,
 devel = FALSE,
  resize_reload = TRUE,
  . . .
)
```

fig_width	Default width (in inches) for figures
fig_height	Default height (in inches) for figures
fig_retina	Scaling to perform for retina displays (defaults to 2). Note that for flexdashboard enabling retina scaling provides for both crisper graphics on retina screens but also much higher quality auto-scaling of R graphics within flexdashboard containers.

fig_mobile	Create an additional rendering of each R graphics figure optimized for rendering on mobile devices oriented in portrait mode. If TRUE, creates a figure which is 3.75 x 4.80 inches wide; if FALSE, create no additional figure for mobile devices; if a numeric vector of length 2, creates a mobile figure with the specified width and height.
dev	Graphics device to use for figure output (defaults to png)
self_contained	Produce a standalone HTML file with no external dependencies, using data: URIs to incorporate the contents of linked scripts, stylesheets, images, and videos. Note that even for self contained documents MathJax is still loaded externally (this is necessary because of its size).
favicon	Path to graphic to be used as a favicon for the dashboard. Pass NULL to use no favicon.
logo	Path to graphic to be used as a logo for the dashboard. Pass NULL to not in- clude a logo. Note that no scaling is performed on the logo image, so it should fit exactly within the dimensions of the navigation bar (48 pixels high for the default "cosmo" theme, other themes may have slightly different navigation bar heights).
social	Specify a character vector of social sharing services to automatically add sharing links for them on the navbar. Valid values are "twitter", "facebook", "linkedin", and "pinterest" (more than one service can be specified).
source_code	URL for source code of dashboard (used primarily for publishing flexdashboard examples). Automatically creates a navbar item which links to the source code.
navbar	Optional list of elements to be placed on the flexdashboard navigation bar. Each element should be a list containing a title and/or icon field, an href field. Optional fields target (e.g. "_blank") and align ("left" or "right") are also supported.
orientation	Determines whether level 2 headings are treated as dashboard rows or dashboard columns.
vertical_layout	
	Vertical layout behavior: "fill" to vertically resize charts so they completely fill the page; "scroll" to layout charts at their natural height, scrolling the page if necessary.
storyboard	TRUE to use a storyboard layout scheme that places each dashboard compo- nent in a navigable storyboard frame. When a storyboard layout is used the orientation and vertical_layout arguments are ignored. When creating a dashbaord with multiple pages you should apply the '.storyboard' attribute to individual pages rather than using the global storyboard option.
theme	One of the following: * A [bslib::bs_theme()] object (or a list of [bslib::bs_theme()] argument values) * Use this option to choose any [Bootstrap version](https://rstudio.github.io/bslib/article versions), [Bootswatch theme](https://rstudio.github.io/bslib/articles/bslib.html#bootswatch- themes), or implement a [custom theme](https://rstudio.github.io/bslib/articles/bslib.html#custom- themes). * In this case, any '.scss'/'.sass' files provided to the 'css' parameter may utilize the 'theme''s underlying Sass utilities (e.g., variables, mixins, etc). * A character string specifying a [Bootswatch 3](https://bootswatch.com/3/) theme name (for backwards-compatibility). The "cosmo" theme is used when "default" is specified.

highlight	Syntax highlighting style. Supported styles include "default", "tango", "pyg- ments", "kate", "monochrome", "espresso", "zenburn", and "haddock". Pass NULL to prevent syntax highlighting.
mathjax	Include mathjax. The "default" option uses an https URL from a MathJax CDN. The "local" option uses a local version of MathJax (which is copied into the output directory). You can pass an alternate URL or pass NULL to exclude MathJax entirely.
extra_dependenc	ries
	Extra dependencies as a list of the html_dependency class objects typically generated by htmltools::htmlDependency().
CSS	CSS and/or Sass files to include. Files with an extension of .sass or .scss are compiled to CSS via sass::sass(). Also, if theme is a <pre>bslib::bs_theme()</pre> object, Sass code may reference the relevant Bootstrap Sass variables, functions, mixins, etc.
includes	Named list of additional content to include within the document (typically created using the includes function).
lib_dir	Directory to copy dependent HTML libraries (e.g. jquery, bootstrap, etc.) into. By default this will be the name of the document with _files appended to it.
<pre>md_extensions</pre>	Markdown extensions to be added or removed from the default definition of R Markdown. See the rmarkdown_format for additional details.
pandoc_args	Additional command line options to pass to pandoc
devel	Enable development mode (used for development of the format itself, not useful for users of the format).
resize_reload	Disable the auto-reloading behavior when the window is resized. Useful when debugging large flexdashboard applications and this functionality is not needed.
	Other arguments to [rmarkdown::html_document_base()].

# Details

See the flexdashboard website for additional documentation: https://pkgs.rstudio.com/flexdashboard/

# Examples

```
## Not run:
library(rmarkdown)
library(flexdashboard)
# simple invocation
render("dashboard.Rmd", flex_dashboard())
# specify the theme option
render("pres.Rmd", flex_dashboard(theme = "yeti"))
## End(Not run)
```

gauge

# Description

A gauge displays a numeric value on a meter that runs between specified minimum and maximum values.

# Usage

```
gauge(
  value,
 min,
 max,
  sectors = gaugeSectors(),
  symbol = NULL,
  label = NULL,
  abbreviate = TRUE,
  abbreviateDecimals = 1,
  href = NULL
)
gaugeSectors(
  success = NULL,
 warning = NULL,
 danger = NULL,
  colors = c("success", "warning", "danger")
)
```

value	Numeric value to display
min	Minimum numeric value
max	Maximum numeric value
sectors	Custom colored sectors (e.g. "success", "warning", "danger"). By default all values are colored using the "success" theme color
symbol	Optional symbol to show next to value (e.g. 'kg')
label	Optional label to display beneath the value
abbreviate	Abbreviate large numbers for min, max, and value (e.g. $1234567 \rightarrow 1.23M$ ). Defaults to TRUE.
abbreviateDecimals	
	Number of decimal places for abbreviated numbers to contain (defaults to 1).
href	An optional URL to link to. Note that this can be an anchor of another dashboard page (e.g. "#details").

success	Two-element numeric vector defining the range of values to color as "success" (specific color provided by theme or custom colors)
warning	Two-element numeric vector defining the range of values to color as "warning" (specific color provided by theme or custom colors)
danger	Two-element numeric vector defining the range of values to color as "danger" (specific color provided by theme or custom colors)
colors	Vector of colors to use for the success, warning, and danger ranges. Colors can be standard theme colors ("success", "warning", "danger", "primary", and "info") or any other valid CSS color specifier. Note that if no custom sector ranges are defined, this parameter can be a single color value rather than a vector of three values

#### Details

See the flexdashboard website for additional documentation: <https://pkgs.rstudio.com/flexdashboard/articles/using.html#gatestashboard/articles/using.html#g

#### Examples

library(flexdashboard)

```
gauge(42, min = 0, max = 100, symbol = '%', gaugeSectors(
   success = c(80, 100), warning = c(40, 79), danger = c(0, 39)
))
```

gauge-shiny Shiny bindings
----------------------------

#### Description

Output and render functions for using gauge within Shiny applications and interactive Rmd documents.

#### Usage

```
gaugeOutput(outputId, width = "100%", height = "200px")
```

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

outputId	output variable to read from
width, height	Must be a valid CSS unit (like '100%', '400px', 'auto') or a number, which will be coerced to a string and have 'px' appended.
expr	An expression that generates a gauge
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.

valueBox

#### Description

A value box displays a value (usually a number) in large text, with a smaller caption beneath, and a large icon on the right side.

#### Usage

```
valueBox(value, caption = NULL, icon = NULL, color = NULL, href = NULL)
```

#### Arguments

value	The value to display in the box. Usually a number or short text.
caption	The caption to display beneath the value.
icon	An icon for the box (e.g. "fa-comments")
color	Background color for the box. This can be one of the built-in background colors ("primary", "info", "success", "warning", "danger") or any valid CSS color value.
href	An optional URL to link to. Note that this can be an anchor of another dashboard page (e.g. "#details").

#### Details

See the flexdashboard website for additional documentation: <https://pkgs.rstudio.com/flexdashboard/articles/using.html#valboxes-1>

#### Examples

library(flexdashboard)

```
valueBox(42, caption = "Errors", icon="fa-thumbs-down")
valueBox(107, caption = "Trials", icon="fa-tag")
valueBox(247, caption = "Connections", icon="fa-random")
```

valueBox-shiny

# Description

Output and render functions for using valueBox within Shiny applications and interactive Rmd documents.

#### Usage

```
valueBoxOutput(outputId, width = "100%", height = "160px")
renderValueBox(expr, env = parent.frame(), quoted = FALSE)
```

outputId	output variable to read from
width, height	Must be a valid CSS unit (like '100%', '400px', 'auto') or a number, which will be coerced to a string and have 'px' appended.
expr	An expression that generates a gauge
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.

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