Package 'flexdashboard'

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Description

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: http://rmarkdown.rstudio.com/flexdashboard/

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flex_dashboard

R Markdown Format for Flexible Dashboards

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",
  smart = TRUE,
  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,
)
```

Arguments

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

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> 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)

Produce typographically correct output, converting straight quotes to curly quotes, smart

--- to em-dashes, -- to en-dashes, and . . . to ellipses.

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", "googleplus", "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 Visual theme ("default", "bootstrap", "cerulean", "journal", "flatly", "readable",

"spacelab", "united", "cosmo", "lumen", "paper", "sandstone", "simplex", or

"yeti"). The "cosmo" theme is used when "default" is specified.

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highlight	Syntax highlighting style. Supported styles include "default", "tango", "pygments", "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_dependen	cies
	Additional function arguments to pass to the base R Markdown HTML output formatter $html_document_base$
css	One or more css files to include
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.
md_extensions	Markdown extensions to be added or removed from the default definition or 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.
	Unused

Details

See the flexdashboard website for additional documentation: http://rmarkdown.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)
```

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gauge

Create a gauge component for a dashboard.

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")
)
```

Arguments

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 -> 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").							

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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: http://rmarkdown.rstudio.com/flexdashboard/using.html#gauge:

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 for gauge

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)
```

Arguments

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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valueBox	Create a value box component for a dashboard.	

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.

An optional URL to link to. Note that this can be an anchor of another dashboard

page (e.g. "#details").

Details

href

See the flexdashboard website for additional documentation: http://rmarkdown.rstudio.com/flexdashboard/using.html#value_

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 Shiny bindings for valueBox

Description

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

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Usage

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

Arguments

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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