# Package 'reportR'

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Type Package

Title Miscellaneous tools to stylize reports

Version 1.0	
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<b>Description</b> This package consists of of small m cess of compiling attractive and consistently	•
Imports ggplot2, grid, RColorBrewer	
License GPL-2	
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Description	
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Description: This package consists of of small miscellaneous functions to streamline the process of compiling attractive

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reportR-package Miscellaneous tools to stylize reports

This package consists of of small miscellaneous functions to streamline the process of compiling attractive and consistently formatted knitr reports, including a ggplot2 theme (custom\_theme), a CSS file to sylize knitr documents (sink\_css), and a function to stylize the headers of knitr documents print\_header.

#### Author(s)

Erica Wozniak

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#### See Also

custom\_theme print\_header sink\_css

#### **Description**

This function makes presentation-ready ggplot2 plots when added as a theme to a ggplot2 function call.

## Usage

```
custom_theme(base_size, base_family)
```

### **Arguments**

base\_size Base font size for the plot. Optional; defaults to 18.
base\_family Font family for the plot. Optional; defaults to "serif".

#### Value

Returns a theme to stylize a ggplot2 graph.

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#### Note

At present, an extra line space is needed after the plot title and before the x- and y-axis labels to make the plot look right. This is weird and needs fixing. See the example.

#### Author(s)

Erica Wozniak

#### See Also

reportR

#### **Examples**

```
library(ggplot2)

# Custom theme with defaults
ggplot(dat = cars, aes(x = speed, y = dist)) +
    geom_point() +
    getitle("Vehicle stopping distance vs speed\n") +
    xlab("\nSpeed (mph)") +
    ylab("\nStopping distance (ft)") +
    custom_theme()

# Custom theme with smaller labels and monospace font
ggplot(dat = cars, aes(x = speed, y = dist)) +
    geom_point() +
    geom_point() +
    gtitle("Vehicle stopping distance vs speed\n") +
    xlab("\nSpeed (mph)") +
    ylab("\nStopping distance (ft)") +
    custom_theme(base_size = 14, base_family = "mono")
```

print\_header

Customized knitr header

## Description

This function prints a knitr header to the console, which can be copied and pasted to the top of an Rmd file. The header includes a ruled line underneath the document information followed by vertical whitespace.

#### Usage

```
print_header(title, author, date)
```

## Arguments

title Character string for document title. Required.

author Character string for document author. Required.

date Character string for document date. Optional; defaults to current date formatted as DD Month YYYY.

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#### Value

Returns a knitr header printed to the console.

#### Note

This function assumes the document will be styled with "style.css"."

#### Author(s)

Erica Wozniak

#### See Also

```
reportR
```

## Examples

sink\_css

Customized knitr CSS

## Description

This function sinks a Cascading Style Sheet (CSS) to the working directory (default) or a specified directory to stylize a knitr HTML document.

## Usage

```
sink_css(dir, font_body, font_table, font_header, font_size, max_width)
```

## **Arguments**

dir	Directory location to sink CSS file. Optional; defaults to current working directory.
font_body	Font used for the body of the document. Optional; defaults to Palatino Linotype.
font_table	Font used for table contents. Optiona; defaults to Palatino Linotype.
font_header	Font used for table headers. Optional; defaults to Palatino Linotype.
font_size	Font size for the body of the document. Optional; defaults to 11pt.
max_width	Maximum text width for the document body. Optional; defaults to 45em.

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#### Value

Returns a file called style.css to the working directory or other specified directory.

#### Note

This function has no required inputs. <br/> Only the base font size can be altered at present. Other font sizes in the document are calculated relative to the specified size for the document body.

## Author(s)

Erica Wozniak

#### See Also

reportR

## **Examples**

## **Index**

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