# Package 'stevethemes'

January 31, 2023

**Type** Package

**Title** Steve's 'ggplot2' Themes and Related Theme Elements

**Depends** R (>= 3.5.0)

**Version** 0.1.0

**Maintainer** Steve Miller <steven.v.miller@gmail.com>

**Description** This is a compilation of my preferred themes and
related theme elements for 'ggplot2'. I believe these themes
and theme elements are aesthetically pleasing, both for pedagogical
instruction and for the presentation of applied statistical research to a wide
audience. These themes imply routine use of easily obtained/free fonts, simple
forms of which are included in this package.

**URL** http://svmiller.com/stevethemes/

**BugReports** https://github.com/svmiller/stevethemes/issues

**License** MIT + file LICENSE

**Encoding** UTF-8

**LazyData** true

**RoxygenNote** 7.2.3

**Imports** ggplot2 (>= 3.3.0), rlang (>= 1.0.0), systemfonts

**NeedsCompilation** no

**Author** Steve Miller [aut, cre] (<https://orcid.org/0000-0003-4072-6263>),
Accademia di Belle Arti di Urbino [ctb] (Principal design of Titillium
Web font),
Steve Matteson [ctb] (Designer of Open Sans),
Erik Spiekermann [ctb] (Designer of Fira Sans),
Ralph du Carrois [ctb] (Designer of Fira Sans),
Sebastian Kosch [ctb] (Design initiator for Crimson Pro),
Jacques Le Bailly [ctb] (Designer of Crimson Pro)

**Repository** CRAN

**Date/Publication** 2023-01-31 16:50:02 UTC

# R **topics documented:**

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adj_font_size                 *Miscellaneous functions for fine-tuning* **ggplot2** *plots*

---

### Description

These are assorted functions that will fine-tune various things in a **ggplot2** plot.

### Usage

```
adj_font_size(x, ...)
```

### Arguments

| | |
|---|---|
| x | a numeric vector that will adjust the size of all fonts on the plot. Can take decimals and negative numbers. |
| ... | optional, called for side effects |

### Details

adj_font_size() is a simple wrapper for some basic **ggplot2** code that will allow you to adjust the font size on the plot by some number.

Right now, adj_font_size() assumes you are using theme_steve() because the font sizes initialized in the function are defaults from the theme.

### Value

adj_font_size() takes a plot made in **ggplot2** and changes the font size by some number requested by the user. It returns a plot with bigger or smaller fonts, per the user's request.

### Author(s)

Steven V. Miller

## Examples

```
library(ggplot2)

example_plot(type = "scatter") + adj_font_size(-2)

example_plot(type = "scatter") + adj_font_size(2)
```

---

| example_plot | *Create an example plot (in ggplot2) for experimenting with different styles* |
|---|---|

---

## Description

example_plot() allows you to experiment with some **ggplot2** themes, like those in this package, by seeing them applied to some example plots.

## Usage

```
example_plot(type = "bar")
```

## Arguments

type             a type

## Details

I'll add more here in a little bit.

## Value

example_plot() returns a plot made in **ggplot2**, allowing the user to experiment with different themes to see which ones they like the best.

## Author(s)

Steven V. Miller

## Examples

```
library(ggplot2)

example_plot()

example_plot(type = "faceted_line")

example_plot(type = "scatter")
```

---

g_c                                      *Get a Custom Color from* steve_hex

---

### Description

g_c() (i.e. *g*et *c*olor) is a simple function that interfaces with the steve_hex data frame to return a hex value associated with a named color.

### Usage

```
g_c(x)
```

### Arguments

x                        a label coinciding with a value in the color column of the steve_hex data frame

### Details

Check steve_hex in this same package for the custom colors included

### Value

g_c() returns a character vector, in particular, a hex triplet that coincides with the label supplied in the function. Use it for specifying a custom fill or color in a plot.

### Author(s)

Steven V. Miller

### Examples

```
g_c("su_blue")

g_c("martel_pink")
```

---

kwh_gdp                   *Kilowatt Hours per Capita and GDP per Capita, 2010*

---

### Description

This is a simple data frame of the GDP per capita and kilowatt hours consumed per capita of over 130 sovereign states in 2010.

### Usage

```
kwh_gdp
```

## Format

A data frame the following 7 variables.

country  the name of the country

iso3c  the three-character ISO code of the country

year  the year of observation (2010)

kwhpc  the electric power consumption (kilowatt hours) per capita of the country

gdppc  the GDP per capita of the country in current USD

ln_kwhpc  the (log-transformed) electric power consumption (kilowatt hours) per capita of the country

ln_gdppc  the (log-transformed) GDP per capita of the country in current USD

## Details

Data come from a use of the WDI() function in the **WDI** package. The GDP per capita data come from a combination of the World Bank and OECD. The energy consumption data come from the International Energy Agency. Data exist to be used in a simple scatterplot.

---

martel_ratings  *CAGEMATCH Ratings of Rick Martel*

---

## Description

This is a simple data frame of ratings (on a 1-10 scale) of Rick Martel.

## Usage

```
martel_ratings
```

## Format

A data frame the following 2 variables.

date  a date vector for when the rating was posted on CAGEMATCH

value  an individual person's rating of Rick Martel (on a 1-10 scale)

## Details

Data exist to be used an example bar chart. CAGEMATCH (stylized in all caps) is an internet wrestling database, for which these ratings are fan submissions. Rick Martel is an objective 10/10.

| no_gridlines | *Miscellaneous functions to make your* **ggplot2** *plot "print-ready"* |
|---|---|

**Description**

These are assorted functions that will make your plot "print-ready" by removing gridlines and giving hard-line axes to the plot. These are typically changes requested by publishes for the printing process.

**Usage**

```
no_gridlines(...)

make_classic(...)
```

**Arguments**

| | |
|---|---|
| ... | optional, called for side effects |

**Details**

no_gridlines() is a simple wrapper for some basic **ggplot2** code that will allow you to remove gridlines from the plot. make_classic() removes gridlines, removes the default gray background, \*and\* imposes a black, solid line on both axes. It will also hard code the axis text to be black. Using the latter with the former is likely redundant.

You will want to put these functions after a theme you've declared. If you run this before adding a theme over it, the theme you add will probably overwrite this function.

**Value**

no_gridlines() takes a plot made in **ggplot2** and removes the gridlines from the plot before returning it to the user. make_classic() takes a plot made in **ggplot2** and removes the gridlines, gray background, and adds solid axes to the plot.

**Author(s)**

Steven V. Miller

**Examples**

```
library(ggplot2)

example_plot(type = "scatter")

example_plot(type='scatter') + no_gridlines()

example_plot(type='scatter') + make_classic()
```

---

se_counties_gdppc *GDP per Capita of Swedish Counties, 2001-2020*

---

### Description

This is a simple data frame of the GDP per capita of Swedish counties from 2001 to 2020.

### Usage

```
se_counties_gdppc
```

### Format

A data frame the following 4 variables.

nuts  the Nomenclature of Territorial Units for Statistics (NUTS) code for the county

county  the name of the county

year  the year of observation

value  the GDP per capita of the county in nominal SEK

### Details

Data come from the OECD and exist to be used as a faceted line chart.

---

steve_hex *Some Hex Triplets I Find Useful/Interesting/Fun*

---

### Description

This is a simple data frame with labels corresponding to hex triplets (i.e. web colors) that I find useful, interesting, or fun.

### Usage

```
steve_hex
```

### Format

A data frame the following 2 variables.

color  a character vector describing the color in question

hex  a hex triplet (with preceding hashtag) of the color

### Details

Data exist to be used by g_c() in this same package.

---

theme_steve                     *Steve's Preferred* **ggplot2** *Themes and Assorted Stuff*

---

### Description

theme_steve() is my default theme framework for graphs I make with **ggplot2**. It starts theme_bw(),
which is available in **ggplot2**, but adjusts the margins and axes a bit to my liking. The end result is,
I think, a lovely template for graphs I make in R.

### Usage

```
theme_steve(style = "web", font, ...)
```

### Arguments

style           various styles/adjustments to make to the base theme. Must be one of the fol-
                lowing: "web" (default), "ms", "fira", "custom", or "generic". The "custom"
                style is a fancy way of saying "supply your own fonts". Where "custom" is used
                in this argument, something must be supplied to the font argument in this same
                function.

font            a character vector corresponding with a font that the user ideally has installed
                on their operating system.

...             optional, called for side effects

### Details

The best use of this function may involve the fonts you have installed on your system. The user
should experiment with various options to see what they like. The "generic" style will use default
**ggplot2** fonts.

### Value

No return value. Function is used for its side effect, which is to format a plot made in the **ggplot2**
package.

### Examples

```
library(ggplot2)

# Experiment with options, those this depends on fonts you have installed.
example_plot() + theme_steve(style='generic')
```

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