

Package ‘sgplot’

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Title Graphic Styles and Colours for Scottish Government Plots

Version 0.4.0

Description A 'ggplot2' theme and colour palettes to create accessible data visualisations in the Scottish Government.

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URL <https://github.com/ScotGovAnalysis/sgplot/>,
<https://ScotGovAnalysis.github.io/sgplot/>

BugReports <https://github.com/ScotGovAnalysis/sgplot/issues>

Depends R (>= 2.10)

Imports cli, ggplot2, lifecycle, rlang, scales

Suggests dplyr, gapminder, glue, gt, knitr, plotly, purrr, rmarkdown,
stringr, testthat (>= 2.1.0), tibble, tidyr

VignetteBuilder knitr

Encoding UTF-8

LazyData true

RoxygenNote 7.3.2

NeedsCompilation no

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af_colour_values	<i>Government Analysis Function colours and palettes</i>
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Description

- af_colour_values is a vector containing colour names and their corresponding hex codes.
- af_colour_palettes is a list grouping colours into palettes.

Usage

```
af_colour_values  
  
af_colour_palettes
```

Format

An object of class character of length 9.
An object of class list of length 5.

Source

[Government Analysis Function Colours Guidance](#)

available_palettes	<i>Available palettes and palette types</i>
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Description

Available palettes and palette types

Usage

```
available_palettes(palette_type, error_call = rlang::caller_env())  
  
available_palette_types()
```

Arguments

palette_type String.
error_call Environment to reference in error messages.

Value

A character vector of available palettes or palette types.

Examples

```
available_palette_types()  
available_palettes("sg")
```

check_palette	<i>Check palettes and palette types</i>
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Description

Checks values against those available in available_palette_types() and available_palettes().

Usage

```
check_palette(palette_type, palette, error_call = rlang::caller_env())  
check_palette_type(palette_type, error_call = rlang::caller_env())
```

Arguments

palette_type, palette
 String.
error_call Environment to reference in error messages.

Value

The value being checked is returned invisibly if the check is successful. Otherwise the function will return an error.

Examples

```
check_palette_type("sg")  
check_palette("sg", "main")
```

`mm_to_inch`*Convert millimetres to inches*

Description

Convert millimetres to inches

Usage

```
mm_to_inch(x)
```

Arguments

`x` Numeric value in millimetres

Value

A numerical value in inches

Examples

```
mm_to_inch(100)
```

`scale_colour_continuous_sg`*Continuous colour/fill scales for Scottish Government plots*

Description

Continuous colour/fill scales for Scottish Government plots

Usage

```
scale_colour_continuous_sg(  
  palette = "sequential",  
  palette_type = "sg",  
  reverse = FALSE,  
  na_colour = "grey50",  
  guide = "colourbar",  
  ...  
)
```

```
scale_fill_continuous_sg(  
  palette = "sequential",  
  palette_type = "sg",
```

```

    reverse = FALSE,
    na_colour = "grey50",
    guide = "colourbar",
    ...
  )

```

Arguments

palette	Name of palette to use; e.g. "main", "sequential", "focus". Default value is "sequential".
palette_type	Name of palette type to use. Defaults to "sg". For all available palette types, run <code>available_palette_types()</code> .
reverse	Boolean value to indicate whether the palette should be reversed.
na_colour	Colour to set for missing values.
guide	A name or function used to create guide. Default is "colourbar".
...	Additional arguments passed to scale type.

Value

ggplot2 continuous colour/fill scale

Examples

```

library(ggplot2)

ggplot(mtcars, aes(x = mpg, y = wt, colour = cyl)) +
  geom_point() +
  scale_colour_continuous_sg()

ggplot(faithfuld, aes(x = waiting, y = eruptions, fill = density)) +
  geom_raster() +
  scale_fill_continuous_sg()

```

scale_colour_discrete_sg

Discrete colour/fill scales for Scottish Government plots

Description

Discrete colour/fill scales for Scottish Government plots

Usage

```
scale_colour_discrete_sg(
  palette = "main",
  palette_type = "sg",
  reverse = FALSE,
  ...
)

scale_fill_discrete_sg(
  palette = "main",
  palette_type = "sg",
  reverse = FALSE,
  ...
)
```

Arguments

<code>palette</code>	Name of palette to use; e.g. "main", "sequential", "focus". Default value is "main".
<code>palette_type</code>	Name of palette type to use. Defaults to "sg". For all available palette types, run <code>available_palette_types()</code> .
<code>reverse</code>	Boolean value to indicate whether the palette should be reversed.
<code>...</code>	Additional arguments passed to scale type.

Value

ggplot2 discrete colour/fill scale

Examples

```
library(ggplot2)
library(dplyr)

economics_long %>%
  filter(variable %in% c("psavert", "uempmed")) %>%
  ggplot(aes(x = date, y = value, colour = variable)) +
  geom_line(linewidth = 1) +
  scale_colour_discrete_sg()

d <- subset(mpg, manufacturer == "ford")

ggplot(d, aes(x = class, fill = class)) +
  geom_bar() +
  scale_fill_discrete_sg()
```

sg_colour_values	<i>Scottish Government colours and palettes</i>
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Description

- sg_colour_values is a vector containing colour names and their corresponding hex codes.
- sg_colour_palettes is a list grouping colours into palettes.

Usage

```
sg_colour_values
```

```
sg_colour_palettes
```

Format

An object of class character of length 11.

An object of class list of length 4.

Source

[Scottish Government Design System](#)

sss_colour_values	<i>Social Security Scotland colours and palettes</i>
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Description

- sss_colour_values is a vector containing colour names and their corresponding hex codes.
- sss_colour_palettes is a list grouping colours into palettes.

Usage

```
sss_colour_values
```

```
sss_colour_palettes
```

Format

An object of class character of length 12.

An object of class list of length 4.

Source

Contact the [Social Security Scotland Statistics mailbox](#) with any queries about these colours and palettes.

 theme_sg

Scottish Government theme for ggplot2 charts.

Description

ggplot2 theme for Scottish Government plots.

Usage

```
theme_sg(
  base_size = 12,
  base_line_size = base_size/24,
  base_rect_size = base_size/24,
  grid = c("y", "x", "xy", "none"),
  axis = c("x", "y", "xy", "none"),
  ticks = c("xy", "x", "y", "none"),
  legend = c("right", "left", "top", "bottom", "none")
)
```

Arguments

base_size	base font size, given in pts.
base_line_size	base size for line elements.
base_rect_size	base size for rect elements.
grid, axis, ticks	'x', 'y', 'xy' or 'none' to determine for which axes the attribute should be drawn. Grid defaults to 'y', axis to 'x', and ticks to 'xy'.
legend	'right', 'left', 'top', 'bottom', or 'none' to determine the position of the legend. Defaults to 'right'.

Value

ggplot2 theme

Examples

```
library(ggplot2)

p <- ggplot(mpg, aes(x = class)) + geom_bar()

p
p + theme_sg()
```

use_sgplot	<i>Use sgplot defaults.</i>
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Description

Set sgplot theme, colour palette and geom aesthetic defaults for ggplot2 charts.

Usage

```
use_sgplot(palette_type = "sg", ..., default_colour = deprecated())
```

Arguments

palette_type	Name of palette type to use. Defaults to "sg". For all available palette types, run <code>available_palette_types()</code> .
...	Arguments passed to <code>sgplot::theme_sg()</code> .
default_colour	[Deprecated] Use the <code>palette_type</code> argument instead.

Value

NULL. Function is used for side effects of setting default ggplot2 theme, colour palette and geom aesthetics.

Examples

```
library(ggplot2)

d <- subset(mpg, manufacturer == "ford")

# ggplot2 defaults
ggplot(d, aes(x = model)) + geom_bar()
ggplot(d, aes(x = model, fill = class)) + geom_bar()

# Use sgplot defaults
use_sgplot()
ggplot(d, aes(x = model)) + geom_bar()
ggplot(d, aes(x = model, fill = class, colour = class)) + geom_bar()

# Use sgplot defaults and Social Security Scotland colour palettes
use_sgplot(palette_type = "sss")
ggplot(d, aes(x = model)) + geom_bar()
ggplot(d, aes(x = model, fill = class, colour = class)) + geom_bar()
```

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