

Package ‘sgplot’

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Title Graphic Styles and Colours for Scottish Government Plots

Version 0.5.0

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

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

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

Depends R (>= 2.10)

Imports cli, ggplot2 (>= 3.5.0), lifecycle, rlang, scales

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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](#) # nolint: line_length_linter.

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 *Check palettes and palette types*

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.value = "grey50",  
  guide = "colourbar",  
  ...,  
  na_colour = deprecated()  
)
```

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

```

palette_type = "sg",
reverse = FALSE,
na.value = "grey50",
guide = "colourbar",
...,
na_colour = deprecated()
)

```

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.value	Colour to set for missing values.
guide	A name or function used to create guide. Default is "colourbar".
...	Additional arguments passed to scale type.
na_colour	[Deprecated] Use the <code>na.value</code> argument instead.

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

palette	Name of palette to use; e.g. "main", "sequential", "focus". Default value is "main".
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.
...	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 *Scottish Government colours and palettes*

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](#) # nolint: line_length_linter.

sss_colour_values *Social Security Scotland colours and palettes*

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](#) # nolint: line_length_linter. 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

<code>base_size</code>	base font size, given in pts.
<code>base_line_size</code>	base size for line elements.
<code>base_rect_size</code>	base size for rect elements.
<code>grid, axis, ticks</code>	'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'.
<code>legend</code>	'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",
  quietly = FALSE,
  ...,
  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> .
quietly	Should the function run quietly? By default, <code>use_sgplot()</code> prints information messages to the console. Set <code>quietly = TRUE</code> to suppress these.
...	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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