Package 'sgplot'

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Title Graphic Styles and Colours for Scottish Government Plots
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Description A 'ggplot2' theme and colour palettes to create accessible data visualisations in the Scottish Government.
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<pre>BugReports https://github.com/ScotGovAnalysis/sgplot/issues</pre>
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af_colour_values

Government Analysis Function colours and palettes

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

Available palettes and palette types

Description

Available palettes and palette types

Usage

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

check_palette 3

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.

```
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

Χ

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",
```

```
scale_colour_discrete_sg
```

```
5
```

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

Arguments

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

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 available_palette_types().

reverse
Boolean value to indicate whether the palette should be reversed.
...
Additional arguments passed to scale type.

Value

ggplot2 discrete colour/fill scale

```
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()</pre>
```

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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

sss_colour_values

Social Security Scotland colours and palettes

Description

- sss_colour_values is a vector containing colour names and their corresponding hex codes.
- \bullet ${\tt sss_colour_palettes}$ 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.

8 theme_sg

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

```
library(ggplot2)
p <- ggplot(mpg, aes(x = class)) + geom_bar()</pre>
p + theme_sg()
```

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use_sgplot

Use sgplot defaults.

Description

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

Usage

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

Arguments

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

Value

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

```
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()</pre>
```

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