

Package ‘ggrefine’

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Title Pretty 'ggplot2' Themes

Version 0.1.0

Description A set of complete 'ggplot2' themes and functions to refine these.

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URL <https://github.com/davidhodge931/ggrefine>,
<https://davidhodge931.github.io/ggrefine/>

BugReports <https://github.com/davidhodge931/ggrefine/issues>

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Suggests patchwork

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Contents

refine_classic	2
refine_fusion	3
refine_modern	4
refine_none	6
refine_void	7
theme_black	8
theme_oat	11
theme_stone	14
theme_white	17

refine_classic	<i>classic refine</i>
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Description

Removes gridlines and ticks from discrete axes.

Usage

```
refine_classic(x_type = "continuous", y_type = "continuous", focus = NULL, ...)
```

Arguments

<code>x_type</code>	Character. Type of x-axis: "continuous", "binned", or "discrete".
<code>y_type</code>	Character. Type of y-axis: "continuous", "binned", or "discrete".
<code>focus</code>	Character. The primary axis of interest: "x" or "y". Gridlines and axis elements are removed from the opposite axis. If NULL (default), focus is inferred from <code>x_type</code> and <code>y_type</code> : discrete x with continuous/binned y gives "x", continuous/binned x with discrete y gives "y", otherwise "x".
<code>...</code>	Additional arguments (currently unused).

Value

A ggplot2 theme object

Examples

```
library(ggplot2)

set_theme(new = theme_stone())

p_continuous <- mpg |>
  ggplot(aes(x = displ, y = hwy)) +
  geom_point(shape = 21, colour = blends::multiply("#357BA2FF"))

p_discrete_x <- mpg |>
  ggplot(aes(x = drv, y = hwy)) +
  geom_jitter(shape = 21, colour = blends::multiply("#357BA2FF"))

p_discrete_y <- mpg |>
  ggplot(aes(x = hwy, y = drv)) +
  geom_jitter(shape = 21, colour = blends::multiply("#357BA2FF"))

patchwork::wrap_plots(
  p_continuous + refine_modern() + labs(title = "refine_modern"),
  p_discrete_x + refine_modern(x_type = "discrete"),
  p_discrete_y + refine_modern(y_type = "discrete"),
```

```

p_continuous + refine_classic() + labs(title = "refine_classic"),
p_discrete_x + refine_classic(x_type = "discrete"),
p_discrete_y + refine_classic(y_type = "discrete"),
p_continuous + refine_fusion() + labs(title = "refine_fusion"),
p_discrete_x + refine_fusion(x_type = "discrete"),
p_discrete_y + refine_fusion(y_type = "discrete"),
p_continuous + refine_void() + labs(title = "refine_void"),
p_discrete_x + refine_void(x_type = "discrete"),
p_discrete_y + refine_void(y_type = "discrete"),
p_continuous + refine_none() + labs(title = "refine_none"),
p_discrete_x + refine_none(x_type = "discrete"),
p_discrete_y + refine_none(y_type = "discrete"),
ncol = 3
)

```

refine_fusion	<i>Fusion refine</i>
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Description

Similar to [refine_modern\(\)](#), but keeps gridlines on both axes when both are continuous or binned. A fusion between [refine_modern\(\)](#) and [refine_classic\(\)](#).

Usage

```
refine_fusion(x_type = "continuous", y_type = "continuous", focus = NULL, ...)
```

Arguments

<code>x_type</code>	Character. Type of x-axis: "continuous", "binned", or "discrete".
<code>y_type</code>	Character. Type of y-axis: "continuous", "binned", or "discrete".
<code>focus</code>	Character. The primary axis of interest: "x" or "y". Gridlines and axis elements are removed from the opposite axis. If NULL (default), focus is inferred from <code>x_type</code> and <code>y_type</code> : discrete x with continuous/binned y gives "x", continuous/binned x with discrete y gives "y", otherwise "x".
<code>...</code>	Additional arguments (currently unused).

Value

A ggplot2 theme object

Examples

```

library(ggplot2)

set_theme(new = theme_stone())

p_continuous <- mpg |>
  ggplot(aes(x = displ, y = hwy)) +
  geom_point(shape = 21, colour = blends::multiply("#357BA2FF"))

p_discrete_x <- mpg |>
  ggplot(aes(x = drv, y = hwy)) +
  geom_jitter(shape = 21, colour = blends::multiply("#357BA2FF"))

p_discrete_y <- mpg |>
  ggplot(aes(x = hwy, y = drv)) +
  geom_jitter(shape = 21, colour = blends::multiply("#357BA2FF"))

patchwork::wrap_plots(
  p_continuous + refine_modern() + labs(title = "refine_modern"),
  p_discrete_x + refine_modern(x_type = "discrete"),
  p_discrete_y + refine_modern(y_type = "discrete"),
  p_continuous + refine_classic() + labs(title = "refine_classic"),
  p_discrete_x + refine_classic(x_type = "discrete"),
  p_discrete_y + refine_classic(y_type = "discrete"),
  p_continuous + refine_fusion() + labs(title = "refine_fusion"),
  p_discrete_x + refine_fusion(x_type = "discrete"),
  p_discrete_y + refine_fusion(y_type = "discrete"),
  p_continuous + refine_void() + labs(title = "refine_void"),
  p_discrete_x + refine_void(x_type = "discrete"),
  p_discrete_y + refine_void(y_type = "discrete"),
  p_continuous + refine_none() + labs(title = "refine_none"),
  p_discrete_x + refine_none(x_type = "discrete"),
  p_discrete_y + refine_none(y_type = "discrete"),
  ncol = 3
)

```

refine_modern

Modern refine

Description

Removes gridlines and axis line/tick elements from the non-focused dimension. Also removes ticks on discrete axes.

Usage

```
refine_modern(x_type = "continuous", y_type = "continuous", focus = NULL, ...)
```

Arguments

<code>x_type</code>	Character. Type of x-axis: "continuous", "binned", or "discrete".
<code>y_type</code>	Character. Type of y-axis: "continuous", "binned", or "discrete".
<code>focus</code>	Character. The primary axis of interest: "x" or "y". Gridlines and axis elements are removed from the opposite axis. If NULL (default), focus is inferred from <code>x_type</code> and <code>y_type</code> : discrete x with continuous/binned y gives "x", continuous/binned x with discrete y gives "y", otherwise "x".
<code>...</code>	Additional arguments (currently unused).

Value

A `ggplot2` theme object

Examples

```
library(ggplot2)

set_theme(new = theme_stone())

p_continuous <- mpg |>
  ggplot(aes(x = displ, y = hwy)) +
  geom_point(shape = 21, colour = blends::multiply("#357BA2FF"))

p_discrete_x <- mpg |>
  ggplot(aes(x = drv, y = hwy)) +
  geom_jitter(shape = 21, colour = blends::multiply("#357BA2FF"))

p_discrete_y <- mpg |>
  ggplot(aes(x = hwy, y = drv)) +
  geom_jitter(shape = 21, colour = blends::multiply("#357BA2FF"))

patchwork::wrap_plots(
  p_continuous + refine_modern() + labs(title = "refine_modern"),
  p_discrete_x + refine_modern(x_type = "discrete"),
  p_discrete_y + refine_modern(y_type = "discrete"),
  p_continuous + refine_classic() + labs(title = "refine_classic"),
  p_discrete_x + refine_classic(x_type = "discrete"),
  p_discrete_y + refine_classic(y_type = "discrete"),
  p_continuous + refine_fusion() + labs(title = "refine_fusion"),
  p_discrete_x + refine_fusion(x_type = "discrete"),
  p_discrete_y + refine_fusion(y_type = "discrete"),
  p_continuous + refine_void() + labs(title = "refine_void"),
  p_discrete_x + refine_void(x_type = "discrete"),
  p_discrete_y + refine_void(y_type = "discrete"),
  p_continuous + refine_none() + labs(title = "refine_none"),
  p_discrete_x + refine_none(x_type = "discrete"),
  p_discrete_y + refine_none(y_type = "discrete"),
  ncol = 3
)
```

refine_none	<i>No refine</i>
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Description

Leaves the theme unchanged.

Usage

```
refine_none(x_type = "continuous", y_type = "continuous", focus = NULL, ...)
```

Arguments

x_type	Character. Type of x-axis: "continuous", "binned", or "discrete".
y_type	Character. Type of y-axis: "continuous", "binned", or "discrete".
focus	Character. The primary axis of interest: "x" or "y". Gridlines and axis elements are removed from the opposite axis. If NULL (default), focus is inferred from x_type and y_type: discrete x with continuous/binned y gives "x", continuous/binned x with discrete y gives "y", otherwise "x".
...	Additional arguments (currently unused).

Value

An empty ggplot2 theme object

Examples

```
library(ggplot2)

set_theme(new = theme_stone())

p_continuous <- mpg |>
  ggplot(aes(x = displ, y = hwy)) +
  geom_point(shape = 21, colour = blends::multiply("#357BA2FF"))

p_discrete_x <- mpg |>
  ggplot(aes(x = drv, y = hwy)) +
  geom_jitter(shape = 21, colour = blends::multiply("#357BA2FF"))

p_discrete_y <- mpg |>
  ggplot(aes(x = hwy, y = drv)) +
  geom_jitter(shape = 21, colour = blends::multiply("#357BA2FF"))

patchwork::wrap_plots(
  p_continuous + refine_modern() + labs(title = "refine_modern"),
  p_discrete_x + refine_modern(x_type = "discrete"),
  p_discrete_y + refine_modern(y_type = "discrete"),
  p_continuous + refine_classic() + labs(title = "refine_classic"),
```

```

p_discrete_x + refine_classic(x_type = "discrete"),
p_discrete_y + refine_classic(y_type = "discrete"),
p_continuous + refine_fusion() + labs(title = "refine_fusion"),
p_discrete_x + refine_fusion(x_type = "discrete"),
p_discrete_y + refine_fusion(y_type = "discrete"),
p_continuous + refine_void() + labs(title = "refine_void"),
p_discrete_x + refine_void(x_type = "discrete"),
p_discrete_y + refine_void(y_type = "discrete"),
p_continuous + refine_none() + labs(title = "refine_none"),
p_discrete_x + refine_none(x_type = "discrete"),
p_discrete_y + refine_none(y_type = "discrete"),
ncol = 3
)

```

refine_void

Void refine

Description

Removes axes and gridlines.

Usage

```
refine_void(x_type = "continuous", y_type = "continuous", focus = NULL, ...)
```

Arguments

<code>x_type</code>	Character. Type of x-axis: "continuous", "binned", or "discrete".
<code>y_type</code>	Character. Type of y-axis: "continuous", "binned", or "discrete".
<code>focus</code>	Character. The primary axis of interest: "x" or "y". Gridlines and axis elements are removed from the opposite axis. If NULL (default), focus is inferred from <code>x_type</code> and <code>y_type</code> : discrete x with continuous/binned y gives "x", continuous/binned x with discrete y gives "y", otherwise "x".
<code>...</code>	Additional arguments (currently unused).

Value

A ggplot2 theme object

Examples

```

library(ggplot2)

set_theme(new = theme_stone())

p_continuous <- mpg |>
  ggplot(aes(x = displ, y = hwy)) +

```

```

geom_point(shape = 21, colour = blends::multiply("#357BA2FF"))

p_discrete_x <- mpg |>
  ggplot(aes(x = drv, y = hwy)) +
  geom_jitter(shape = 21, colour = blends::multiply("#357BA2FF"))

p_discrete_y <- mpg |>
  ggplot(aes(x = hwy, y = drv)) +
  geom_jitter(shape = 21, colour = blends::multiply("#357BA2FF"))

patchwork::wrap_plots(
  p_continuous + refine_modern() + labs(title = "refine_modern"),
  p_discrete_x + refine_modern(x_type = "discrete"),
  p_discrete_y + refine_modern(y_type = "discrete"),
  p_continuous + refine_classic() + labs(title = "refine_classic"),
  p_discrete_x + refine_classic(x_type = "discrete"),
  p_discrete_y + refine_classic(y_type = "discrete"),
  p_continuous + refine_fusion() + labs(title = "refine_fusion"),
  p_discrete_x + refine_fusion(x_type = "discrete"),
  p_discrete_y + refine_fusion(y_type = "discrete"),
  p_continuous + refine_void() + labs(title = "refine_void"),
  p_discrete_x + refine_void(x_type = "discrete"),
  p_discrete_y + refine_void(y_type = "discrete"),
  p_continuous + refine_none() + labs(title = "refine_none"),
  p_discrete_x + refine_none(x_type = "discrete"),
  p_discrete_y + refine_none(y_type = "discrete"),
  ncol = 3
)

```

 theme_black

Black theme

Description

A complete theme for a dark panel background.

Usage

```

theme_black(
  ...,
  text_size = 10,
  text_family = "",
  text_colour = flexoki::flexoki$base["base200"],
  legend_place = "right",
  legend_axis_line_colour = plot_background_fill,
  legend_axis_line_linewidth = axis_line_linewidth,
  legend_background_fill = plot_background_fill,
  legend_key_fill = plot_background_fill,

```

```

legend_ticks_colour = legend_axis_line_colour,
legend_ticks_linewidth = legend_axis_line_linewidth,
legend_ticks_length = grid::unit(c(2.75, 0), "pt"),
axis_line_colour = flexoki::flexoki$base["base600"],
axis_line_linewidth = 0.25,
axis_ticks_colour = axis_line_colour,
axis_ticks_linewidth = axis_line_linewidth,
axis_ticks_length = grid::unit(3.66, "pt"),
panel_background_fill = flexoki::flexoki$base["base950"],
panel_grid_colour = "black",
panel_grid_linetype = 1,
panel_grid_linewidth = 1,
panel_grid_minor_linetype = 1,
panel_grid_minor_linewidth = 0.5,
plot_background_fill = "black",
geom_fill = "#357BA2FF",
geom_colour = geom_fill,
palette_fill_discrete = jumble::jumble,
palette_colour_discrete = palette_fill_discrete,
palette_fill_continuous = viridis::turbo(n = 256),
palette_colour_continuous = palette_fill_continuous,
panel_widths = NULL,
panel_heights = NULL
)

```

Arguments

...	Require named arguments (and support trailing commas).
text_size	The base size of the text theme element. Defaults to 10.
text_family	The base family of the text theme element. Defaults to "".
text_colour	The base colour of the text theme element.
legend_place	The place of the legend. Either "right", "top" or "bottom".
legend_axis_line_colour	The colour of the legend.axis.line theme element.
legend_axis_line_linewidth	The linewidth of the legend.axis.line theme element.
legend_background_fill	The fill (and colour) of the legend.background theme element.
legend_key_fill	The fill (and colour) of the legend.key theme element.
legend_ticks_colour	The colour of the legend.ticks theme element.
legend_ticks_linewidth	The linewidth of the legend.ticks theme element.
legend_ticks_length	The legend.ticks.length theme element.

axis_line_colour	The colour of the axis.line theme element.
axis_line_linewidth	The linewidth of the axis.line theme element.
axis_ticks_colour	The colour of the axis.ticks theme element.
axis_ticks_linewidth	The linewidth of the axis.ticks theme element.
axis_ticks_length	The length of the axis.ticks.length theme element.
panel_background_fill	The fill (and colour) of the panel.background theme element.
panel_grid_colour	The colour of the panel.grid theme element.
panel_grid_linetype	The linetype of the panel.grid.major theme element.
panel_grid_linewidth	The linewidth of the panel.grid.major theme element.
panel_grid_minor_linetype	The linetype of the panel.grid.minor theme element.
panel_grid_minor_linewidth	The linewidth of the panel.grid.minor theme element.
plot_background_fill	The fill (and colour) of the plot.background theme element.
geom_fill	The default fill colour of geom elements.
geom_colour	The default border colour of geom elements. Defaults to geom_fill.
palette_fill_discrete	The default discrete fill palette. A function or vector of colours.
palette_colour_discrete	The default discrete colour palette. Defaults to palette_fill_discrete.
palette_fill_continuous	The default continuous fill palette. A vector of colours.
palette_colour_continuous	The default continuous colour palette. Defaults to palette_fill_continuous.
panel_widths	The panel.widths theme element. A unit or unit vector setting the width of individual panels, or a single unit for the total panel area width. Overrides aspect ratio set by the theme, coord, or facets. Defaults to NULL.
panel_heights	The panel.heights theme element. A unit or unit vector setting the height of individual panels, or a single unit for the total panel area height. Overrides aspect ratio set by the theme, coord, or facets. Defaults to NULL.

Value

A ggplot theme.

Examples

```

library(ggplot2)
library(ggrefine)

p_light <- mpg |>
  ggplot(aes(x = hwy)) +
  geom_histogram(
    stat = "bin", shape = 21,
    colour = blends::multiply("#357BA2FF")
  ) +
  scale_y_continuous(expand = expansion(mult = c(0, 0.05)))

p_dark <- mpg |>
  ggplot(aes(x = hwy)) +
  geom_histogram(
    stat = "bin", shape = 21,
    colour = blends::screen("#357BA2FF")
  ) +
  scale_y_continuous(expand = expansion(mult = c(0, 0.05)))

p_white <- p_light + theme_white() + labs(title = "theme_white")
p_oat <- p_light + theme_oat() + labs(title = "theme_oat")
p_stone <- p_light + theme_stone() + labs(title = 'theme_stone')
p_black <- p_dark + theme_black() + labs(title = "theme_black")

patchwork::wrap_plots(
  p_white,
  p_black,
  p_oat,
  p_stone
)

```

 theme_oat

Oat theme

Description

A complete theme with a tinted panel on a white plot background. The panel grid colour is derived automatically by blending `panel_background_fill` with itself using `blends::multiply()`, producing a subtly darker tone that stays harmonious with the panel colour. Pass any colour to `panel_background_fill` to change the tint — the grid will adjust accordingly.

Usage

```

theme_oat(
  ...,
  text_size = 10,
  text_family = "",

```

```

text_colour = flexoki::flexoki$base["black"],
legend_place = "right",
legend_axis_line_colour = plot_background_fill,
legend_axis_line_linewidth = axis_line_linewidth,
legend_background_fill = plot_background_fill,
legend_key_fill = plot_background_fill,
legend_ticks_colour = legend_axis_line_colour,
legend_ticks_linewidth = legend_axis_line_linewidth,
legend_ticks_length = grid::unit(c(2.75, 0), "pt"),
axis_line_colour = flexoki::flexoki$base["base600"],
axis_line_linewidth = 0.25,
axis_ticks_colour = axis_line_colour,
axis_ticks_linewidth = axis_line_linewidth,
axis_ticks_length = grid::unit(3.66, "pt"),
panel_background_fill = flexoki::flexoki$base["base50"],
panel_grid_colour = blends::multiply(panel_background_fill),
panel_grid_linetype = 1,
panel_grid_linewidth = 1,
panel_grid_minor_linetype = 1,
panel_grid_minor_linewidth = 0.5,
plot_background_fill = "white",
geom_fill = "#357BA2FF",
geom_colour = geom_fill,
palette_fill_discrete = jumble::jumble,
palette_colour_discrete = palette_fill_discrete,
palette_fill_continuous = viridis::turbo(n = 256),
palette_colour_continuous = palette_fill_continuous,
panel_widths = NULL,
panel_heights = NULL
)

```

Arguments

...	Require named arguments (and support trailing commas).
text_size	The base size of the text theme element. Defaults to 10.
text_family	The base family of the text theme element. Defaults to "".
text_colour	The base colour of the text theme element.
legend_place	The place of the legend. Either "right", "top" or "bottom".
legend_axis_line_colour	The colour of the legend.axis.line theme element.
legend_axis_line_linewidth	The linewidth of the legend.axis.line theme element.
legend_background_fill	The fill (and colour) of the legend.background theme element.
legend_key_fill	The fill (and colour) of the legend.key theme element.

legend_ticks_colour	The colour of the legend.ticks theme element.
legend_ticks_linewidth	The linewidth of the legend.ticks theme element.
legend_ticks_length	The legend.ticks.length theme element.
axis_line_colour	The colour of the axis.line theme element.
axis_line_linewidth	The linewidth of the axis.line theme element.
axis_ticks_colour	The colour of the axis.ticks theme element.
axis_ticks_linewidth	The linewidth of the axis.ticks theme element.
axis_ticks_length	The length of the axis.ticks.length theme element.
panel_background_fill	The fill (and colour) of the panel.background theme element.
panel_grid_colour	The colour of the panel.grid theme element.
panel_grid_linetype	The linetype of the panel.grid.major theme element.
panel_grid_linewidth	The linewidth of the panel.grid.major theme element.
panel_grid_minor_linetype	The linetype of the panel.grid.minor theme element.
panel_grid_minor_linewidth	The linewidth of the panel.grid.minor theme element.
plot_background_fill	The fill (and colour) of the plot.background theme element.
geom_fill	The default fill colour of geom elements.
geom_colour	The default border colour of geom elements. Defaults to geom_fill.
palette_fill_discrete	The default discrete fill palette. A function or vector of colours.
palette_colour_discrete	The default discrete colour palette. Defaults to palette_fill_discrete.
palette_fill_continuous	The default continuous fill palette. A vector of colours.
palette_colour_continuous	The default continuous colour palette. Defaults to palette_fill_continuous.
panel_widths	The panel.widths theme element. A unit or unit vector setting the width of individual panels, or a single unit for the total panel area width. Overrides aspect ratio set by the theme, coord, or facets. Defaults to NULL.
panel_heights	The panel.heights theme element. A unit or unit vector setting the height of individual panels, or a single unit for the total panel area height. Overrides aspect ratio set by the theme, coord, or facets. Defaults to NULL.

Value

A ggplot theme.

Examples

```
library(ggplot2)

p1 <- penguins |>
  ggplot(aes(x = species, y = body_mass, colour = species, fill = species)) +
  geom_jitter(shape = 21) +
  scale_colour_discrete(palette = blends::multiply(scales::pal_hue()))

# Default: flexoki base50 oat panel
p1 + theme_oat()

# Cool grey panel
p1 + theme_oat(panel_background_fill = "#f2f2f2ff")
```

 theme_stone

Stone theme

Description

A complete theme with a stone grey panel on a white plot background. The panel grid colour is derived automatically by blending `panel_background_fill` with itself using `blends::multiply()`, producing a subtly darker tone that stays harmonious with the panel colour.

Usage

```
theme_stone(
  ...,
  text_size = 10,
  text_family = "",
  text_colour = flexoki::flexoki$base["black"],
  legend_place = "right",
  legend_axis_line_colour = plot_background_fill,
  legend_axis_line_linewidth = axis_line_linewidth,
  legend_background_fill = plot_background_fill,
  legend_key_fill = plot_background_fill,
  legend_ticks_colour = legend_axis_line_colour,
  legend_ticks_linewidth = legend_axis_line_linewidth,
  legend_ticks_length = grid::unit(c(2.75, 0), "pt"),
  axis_line_colour = flexoki::flexoki$base["base600"],
  axis_line_linewidth = 0.25,
  axis_ticks_colour = axis_line_colour,
  axis_ticks_linewidth = axis_line_linewidth,
  axis_ticks_length = grid::unit(3.66, "pt"),
```

```

panel_background_fill = "#EBEBEBFF",
panel_grid_colour = blends::multiply(panel_background_fill),
panel_grid_linetype = 1,
panel_grid_linewidth = 1,
panel_grid_minor_linetype = 1,
panel_grid_minor_linewidth = 0.5,
plot_background_fill = "white",
geom_fill = "#357BA2FF",
geom_colour = geom_fill,
palette_fill_discrete = jumble::jumble,
palette_colour_discrete = palette_fill_discrete,
palette_fill_continuous = viridis::turbo(n = 256),
palette_colour_continuous = palette_fill_continuous,
panel_widths = NULL,
panel_heights = NULL
)

```

Arguments

... Require named arguments (and support trailing commas).

text_size The base size of the text theme element. Defaults to 10.

text_family The base family of the text theme element. Defaults to "".

text_colour The base colour of the text theme element.

legend_place The place of the legend. Either "right", "top" or "bottom".

legend_axis_line_colour
The colour of the legend.axis.line theme element.

legend_axis_line_linewidth
The linewidth of the legend.axis.line theme element.

legend_background_fill
The fill (and colour) of the legend.background theme element.

legend_key_fill
The fill (and colour) of the legend.key theme element.

legend_ticks_colour
The colour of the legend.ticks theme element.

legend_ticks_linewidth
The linewidth of the legend.ticks theme element.

legend_ticks_length
The legend.ticks.length theme element.

axis_line_colour
The colour of the axis.line theme element.

axis_line_linewidth
The linewidth of the axis.line theme element.

axis_ticks_colour
The colour of the axis.ticks theme element.

axis_ticks_linewidth
The linewidth of the axis.ticks theme element.

<code>axis_ticks_length</code>	The length of the <code>axis.ticks.length</code> theme element.
<code>panel_background_fill</code>	The fill (and colour) of the <code>panel.background</code> theme element.
<code>panel_grid_colour</code>	The colour of the <code>panel.grid</code> theme element.
<code>panel_grid_linetype</code>	The linetype of the <code>panel.grid.major</code> theme element.
<code>panel_grid_linewidth</code>	The linewidth of the <code>panel.grid.major</code> theme element.
<code>panel_grid_minor_linetype</code>	The linetype of the <code>panel.grid.minor</code> theme element.
<code>panel_grid_minor_linewidth</code>	The linewidth of the <code>panel.grid.minor</code> theme element.
<code>plot_background_fill</code>	The fill (and colour) of the <code>plot.background</code> theme element.
<code>geom_fill</code>	The default fill colour of geom elements.
<code>geom_colour</code>	The default border colour of geom elements. Defaults to <code>geom_fill</code> .
<code>palette_fill_discrete</code>	The default discrete fill palette. A function or vector of colours.
<code>palette_colour_discrete</code>	The default discrete colour palette. Defaults to <code>palette_fill_discrete</code> .
<code>palette_fill_continuous</code>	The default continuous fill palette. A vector of colours.
<code>palette_colour_continuous</code>	The default continuous colour palette. Defaults to <code>palette_fill_continuous</code> .
<code>panel_widths</code>	The <code>panel.widths</code> theme element. A unit or unit vector setting the width of individual panels, or a single unit for the total panel area width. Overrides aspect ratio set by the theme, <code>coord</code> , or <code>facets</code> . Defaults to <code>NULL</code> .
<code>panel_heights</code>	The <code>panel.heights</code> theme element. A unit or unit vector setting the height of individual panels, or a single unit for the total panel area height. Overrides aspect ratio set by the theme, <code>coord</code> , or <code>facets</code> . Defaults to <code>NULL</code> .

Value

A ggplot theme.

Examples

```
library(ggplot2)

p1 <- penguins |>
  ggplot(aes(x = species, y = body_mass, colour = species, fill = species)) +
  geom_jitter(shape = 21) +
  scale_colour_discrete(palette = blends::multiply(scales::pal_hue()))
```

```
# Default: flexoki base50 oat panel
p1 + theme_oat()

# Cool grey panel
p1 + theme_oat(panel_background_fill = "#f2f2ff")
```

 theme_white

White theme

Description

A complete theme for a white panel background.

Usage

```
theme_white(
  ...,
  text_size = 10,
  text_family = "",
  text_colour = flexoki::flexoki$base["black"],
  legend_place = "right",
  legend_axis_line_colour = NULL,
  legend_axis_line_linewidth = NULL,
  legend_background_fill = NULL,
  legend_key_fill = NULL,
  legend_ticks_colour = NULL,
  legend_ticks_linewidth = NULL,
  legend_ticks_length = grid::unit(c(2.75, 0), "pt"),
  axis_line_colour = flexoki::flexoki$base["base600"],
  axis_line_linewidth = 0.25,
  axis_ticks_colour = NULL,
  axis_ticks_linewidth = NULL,
  axis_ticks_length = grid::unit(3.66, "pt"),
  panel_background_fill = "white",
  panel_grid_colour = flexoki::flexoki$base["base50"],
  panel_grid_linetype = 1,
  panel_grid_linewidth = 1,
  panel_grid_minor_linetype = 1,
  panel_grid_minor_linewidth = 0.5,
  plot_background_fill = "white",
  geom_fill = "#357BA2FF",
  geom_colour = geom_fill,
  palette_fill_discrete = jumble::jumble,
  palette_colour_discrete = palette_fill_discrete,
  palette_fill_continuous = viridis::turbo(n = 256),
  palette_colour_continuous = palette_fill_continuous,
```

```

    panel_widths = NULL,
    panel_heights = NULL
)

```

Arguments

```

...           Require named arguments (and support trailing commas).
text_size     The base size of the text theme element. Defaults to 10.
text_family   The base family of the text theme element. Defaults to "".
text_colour   The base colour of the text theme element.
legend_place  The place of the legend. Either "right", "top" or "bottom".
legend_axis_line_colour
              The colour of the legend.axis.line theme element.
legend_axis_line_linewidth
              The linewidth of the legend.axis.line theme element.
legend_background_fill
              The fill (and colour) of the legend.background theme element.
legend_key_fill
              The fill (and colour) of the legend.key theme element.
legend_ticks_colour
              The colour of the legend.ticks theme element.
legend_ticks_linewidth
              The linewidth of the legend.ticks theme element.
legend_ticks_length
              The legend.ticks.length theme element.
axis_line_colour
              The colour of the axis.line theme element.
axis_line_linewidth
              The linewidth of the axis.line theme element.
axis_ticks_colour
              The colour of the axis.ticks theme element.
axis_ticks_linewidth
              The linewidth of the axis.ticks theme element.
axis_ticks_length
              The length of the axis.ticks.length theme element.
panel_background_fill
              The fill (and colour) of the panel.background theme element.
panel_grid_colour
              The colour of the panel.grid theme element.
panel_grid_linetype
              The linetype of the panel.grid.major theme element.
panel_grid_linewidth
              The linewidth of the panel.grid.major theme element.
panel_grid_minor_linetype
              The linetype of the panel.grid.minor theme element.

```

panel_grid_minor_linewidth	The linewidth of the panel.grid.minor theme element.
plot_background_fill	The fill (and colour) of the plot.background theme element.
geom_fill	The default fill colour of geom elements.
geom_colour	The default border colour of geom elements. Defaults to geom_fill.
palette_fill_discrete	The default discrete fill palette. A function or vector of colours.
palette_colour_discrete	The default discrete colour palette. Defaults to palette_fill_discrete.
palette_fill_continuous	The default continuous fill palette. A vector of colours.
palette_colour_continuous	The default continuous colour palette. Defaults to palette_fill_continuous.
panel_widths	The panel.widths theme element. A unit or unit vector setting the width of individual panels, or a single unit for the total panel area width. Overrides aspect ratio set by the theme, coord, or facets. Defaults to NULL.
panel_heights	The panel.heights theme element. A unit or unit vector setting the height of individual panels, or a single unit for the total panel area height. Overrides aspect ratio set by the theme, coord, or facets. Defaults to NULL.

Value

A ggplot theme.

Examples

```
library(ggplot2)
library(ggrefine)

p_light <- mpg |>
  ggplot(aes(x = hwy)) +
  geom_histogram(
    stat = "bin", shape = 21,
    colour = blends::multiply("#357BA2FF")
  ) +
  scale_y_continuous(expand = expansion(mult = c(0, 0.05)))

p_dark <- mpg |>
  ggplot(aes(x = hwy)) +
  geom_histogram(
    stat = "bin", shape = 21,
    colour = blends::screen("#357BA2FF")
  ) +
  scale_y_continuous(expand = expansion(mult = c(0, 0.05)))

p_white <- p_light + theme_white() + labs(title = "theme_white")
p_oat <- p_light + theme_oat() + labs(title = "theme_oat")
p_stone <- p_light + theme_stone() + labs(title = 'theme_stone')
```

```
p_black <- p_dark + theme_black() + labs(title = "theme_black")

patchwork::wrap_plots(
  p_white,
  p_black,
  p_oat,
  p_stone
)
```

Index

refine_classic, [2](#)
refine_classic(), [3](#)
refine_fusion, [3](#)
refine_modern, [4](#)
refine_modern(), [3](#)
refine_none, [6](#)
refine_void, [7](#)

theme_black, [8](#)
theme_oat, [11](#)
theme_stone, [14](#)
theme_white, [17](#)