Package: ggrefine (via r-universe)

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Title Publication-Quality 'ggplot2' Themes

Version 0.4.0900

Description Complete themes for publication-quality 'ggplot2' visualisation. Also provides functions to modify these based on the positional axis scales and focus of a particular plot.

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

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

Depends R (>= 4.1.0)

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Contents

`classic` *classic refine*

Description

Removes gridlines and ticks from discrete axes.

Usage

```
classic(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

A ggplot2 theme object

Examples

```
library(ggplot2)

set_theme(new = ggrefine::theme_grey())

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 + ggrefine::classic() + labs(title = "ggrefine::classic"),
  p_discrete_x + ggrefine::classic(x_type = "discrete"),
  p_discrete_y + ggrefine::classic(y_type = "discrete"),
  p_continuous + ggrefine::modern() + labs(title = "ggrefine::modern"),
  p_discrete_x + ggrefine::modern(x_type = "discrete"),
  p_discrete_y + ggrefine::modern(y_type = "discrete"),
  p_continuous + ggrefine::hybrid() + labs(title = "ggrefine::hybrid"),
  p_discrete_x + ggrefine::hybrid(x_type = "discrete"),
  p_discrete_y + ggrefine::hybrid(y_type = "discrete"),
  p_continuous + ggrefine::minimal() + labs(title = "ggrefine::minimal"),
  p_discrete_x + ggrefine::minimal(x_type = "discrete"),
  p_discrete_y + ggrefine::minimal(y_type = "discrete"),
  p_continuous + ggrefine::void() + labs(title = "ggrefine::void"),
  p_discrete_x + ggrefine::void(x_type = "discrete"),
  p_discrete_y + ggrefine::void(y_type = "discrete"),
  p_continuous + ggrefine::none() + labs(title = "ggrefine::none"),
  p_discrete_x + ggrefine::none(x_type = "discrete"),
  p_discrete_y + ggrefine::none(y_type = "discrete"),
  ncol = 3
)
```

`hybrid` *Hybrid refine*

Description

Behaves like `classic()` when both axes are continuous or binned — leaving gridlines and axis elements untouched. When a discrete axis is present, behaves like `modern()`, removing gridlines and axis line/tick elements from the non-focused dimension and stripping ticks from the discrete axis.

Usage

```
hybrid(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

A ggplot2 theme object

Examples

```
library(ggplot2)

set_theme(new = ggrefine::theme_grey())

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 + ggrefine::classic() + labs(title = "ggrefine::classic"),
  p_discrete_x + ggrefine::classic(x_type = "discrete"),
  p_discrete_y + ggrefine::classic(y_type = "discrete"),
  p_continuous + ggrefine::modern() + labs(title = "ggrefine::modern"),
  p_discrete_x + ggrefine::modern(x_type = "discrete"),
  p_discrete_y + ggrefine::modern(y_type = "discrete"),
  p_continuous + ggrefine::hybrid() + labs(title = "ggrefine::hybrid"),
  p_discrete_x + ggrefine::hybrid(x_type = "discrete"),
  p_discrete_y + ggrefine::hybrid(y_type = "discrete"),
  p_continuous + ggrefine::minimal() + labs(title = "ggrefine::minimal"),
  p_discrete_x + ggrefine::minimal(x_type = "discrete"),
  p_discrete_y + ggrefine::minimal(y_type = "discrete"),
  p_continuous + ggrefine::void() + labs(title = "ggrefine::void"),
  p_discrete_x + ggrefine::void(x_type = "discrete"),
  p_discrete_y + ggrefine::void(y_type = "discrete"),
  p_continuous + ggrefine::none() + labs(title = "ggrefine::none"),
  p_discrete_x + ggrefine::none(x_type = "discrete"),
  p_discrete_y + ggrefine::none(y_type = "discrete"),
  ncol = 3
)
```

`minimal` *Minimal refine*

Description

Behaves like `hybrid()` but additionally removes axis lines and ticks from both axes. When both axes are continuous or binned, only axis lines and ticks are removed, leaving gridlines untouched. When a discrete axis is present, also removes gridlines and axis elements from the non-focused dimension, as in `modern()`.

Usage

```
minimal(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

A ggplot2 theme object

Examples

```
library(ggplot2)

set_theme(new = ggrefine::theme_grey())

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 + ggrefine::classic() + labs(title = "ggrefine::classic"),
  p_discrete_x + ggrefine::classic(x_type = "discrete"),
  p_discrete_y + ggrefine::classic(y_type = "discrete"),
  p_continuous + ggrefine::modern() + labs(title = "ggrefine::modern"),
  p_discrete_x + ggrefine::modern(x_type = "discrete"),
  p_discrete_y + ggrefine::modern(y_type = "discrete"),
  p_continuous + ggrefine::hybrid() + labs(title = "ggrefine::hybrid"),
```

```
  p_discrete_x + ggrefine::hybrid(x_type = "discrete"),
  p_discrete_y + ggrefine::hybrid(y_type = "discrete"),
  p_continuous + ggrefine::minimal() + labs(title = "ggrefine::minimal"),
  p_discrete_x + ggrefine::minimal(x_type = "discrete"),
  p_discrete_y + ggrefine::minimal(y_type = "discrete"),
  p_continuous + ggrefine::void() + labs(title = "ggrefine::void"),
  p_discrete_x + ggrefine::void(x_type = "discrete"),
  p_discrete_y + ggrefine::void(y_type = "discrete"),
  p_continuous + ggrefine::none() + labs(title = "ggrefine::none"),
  p_discrete_x + ggrefine::none(x_type = "discrete"),
  p_discrete_y + ggrefine::none(y_type = "discrete"),
  ncol = 3
)
```

`modern` *Modern refine*

Description

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

Usage

```
modern(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

A ggplot2 theme object

Examples

```
library(ggplot2)

set_theme(new = ggrefine::theme_grey())

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 + ggrefine::classic() + labs(title = "ggrefine::classic"),
  p_discrete_x + ggrefine::classic(x_type = "discrete"),
  p_discrete_y + ggrefine::classic(y_type = "discrete"),
  p_continuous + ggrefine::modern() + labs(title = "ggrefine::modern"),
  p_discrete_x + ggrefine::modern(x_type = "discrete"),
  p_discrete_y + ggrefine::modern(y_type = "discrete"),
  p_continuous + ggrefine::hybrid() + labs(title = "ggrefine::hybrid"),
  p_discrete_x + ggrefine::hybrid(x_type = "discrete"),
  p_discrete_y + ggrefine::hybrid(y_type = "discrete"),
  p_continuous + ggrefine::minimal() + labs(title = "ggrefine::minimal"),
  p_discrete_x + ggrefine::minimal(x_type = "discrete"),
  p_discrete_y + ggrefine::minimal(y_type = "discrete"),
  p_continuous + ggrefine::void() + labs(title = "ggrefine::void"),
  p_discrete_x + ggrefine::void(x_type = "discrete"),
  p_discrete_y + ggrefine::void(y_type = "discrete"),
  p_continuous + ggrefine::none() + labs(title = "ggrefine::none"),
  p_discrete_x + ggrefine::none(x_type = "discrete"),
  p_discrete_y + ggrefine::none(y_type = "discrete"),
  ncol = 3
)
```

---

none *No refine*

Description

Leaves the theme unchanged.

Usage

```
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 = ggrefine::theme_grey())

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 + ggrefine::classic() + labs(title = "ggrefine::classic"),
  p_discrete_x + ggrefine::classic(x_type = "discrete"),
  p_discrete_y + ggrefine::classic(y_type = "discrete"),
  p_continuous + ggrefine::modern() + labs(title = "ggrefine::modern"),
  p_discrete_x + ggrefine::modern(x_type = "discrete"),
  p_discrete_y + ggrefine::modern(y_type = "discrete"),
  p_continuous + ggrefine::hybrid() + labs(title = "ggrefine::hybrid"),
  p_discrete_x + ggrefine::hybrid(x_type = "discrete"),
  p_discrete_y + ggrefine::hybrid(y_type = "discrete"),
  p_continuous + ggrefine::minimal() + labs(title = "ggrefine::minimal"),
  p_discrete_x + ggrefine::minimal(x_type = "discrete"),
  p_discrete_y + ggrefine::minimal(y_type = "discrete"),
  p_continuous + ggrefine::void() + labs(title = "ggrefine::void"),
  p_discrete_x + ggrefine::void(x_type = "discrete"),
  p_discrete_y + ggrefine::void(y_type = "discrete"),
  p_continuous + ggrefine::none() + labs(title = "ggrefine::none"),
  p_discrete_x + ggrefine::none(x_type = "discrete"),
  p_discrete_y + ggrefine::none(y_type = "discrete"),
  ncol = 3
)
```

theme_dark *Dark theme*

Description

A complete theme for a dark plot and panel background. The plot background and panel grid default to "black".

Usage

```
theme_dark(
  ...,
  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",
  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 length of 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.

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)

p_base_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_base_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_light  <- p_base_light + ggrefine::theme_light() + labs(title = "ggrefine::theme_light")
p_dark   <- p_base_dark  + ggrefine::theme_dark() + labs(title = "ggrefine::theme_dark")
p_grey <- p_base_light + ggrefine::theme_grey() + labs(title = "ggrefine::theme_grey")
p_oat <- p_base_light + ggrefine::theme_oat() + labs(title = "ggrefine::theme_oat")

patchwork::wrap_plots(
  p_light,
  p_dark,
  p_grey,
  p_oat
)
```

---

theme_grey *Grey theme*

Description

A complete theme for a grey panel background on a white plot background. The panel background fill defaults to `"grey92"`. The default panel grid colour is derived automatically by blending the `panel_background_fill` with itself using `blends::multiply()` to produce a darker tone that stays harmonious with the panel background.

Usage

```
theme_grey(
  ...,
  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 = "grey92",
  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",
  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 length of 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.

`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)

p_base_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_base_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_light  <- p_base_light + ggrefine::theme_light() + labs(title = "ggrefine::theme_light")
p_dark   <- p_base_dark  + ggrefine::theme_dark() + labs(title = "ggrefine::theme_dark")
p_grey <- p_base_light + ggrefine::theme_grey() + labs(title = "ggrefine::theme_grey")
p_oat <- p_base_light + ggrefine::theme_oat() + labs(title = "ggrefine::theme_oat")

patchwork::wrap_plots(
  p_light,
  p_dark,
  p_grey,
  p_oat
)
```

`theme_light` *Light theme*

Description

A complete theme for a white plot and panel background.

Usage

```
theme_light(
  ...,
  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",
  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 length of 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.

`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)

p_base_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_base_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_light  <- p_base_light + ggrefine::theme_light() + labs(title = "ggrefine::theme_light")
p_dark  <- p_base_dark  + ggrefine::theme_dark() + labs(title = "ggrefine::theme_dark")
```

```
p_grey <- p_base_light + ggrefine::theme_grey() + labs(title = "ggrefine::theme_grey")
p_oat <- p_base_light + ggrefine::theme_oat() + labs(title = "ggrefine::theme_oat")

patchwork::wrap_plots(
  p_light,
  p_dark,
  p_grey,
  p_oat
)
```

---

theme_oat *Oat theme*

Description

A complete theme for a oat panel background on a white plot background. The panel background fill defaults so `flexoki::flexoki$base["base50"]`. The default panel grid colour is derived automatically by blending the `panel_background_fill` with itself using `blends::multiply()` to produce a darker tone that stays harmonious with the panel background.

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",
```

```
  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 length of 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.

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)

p_base_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_base_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_light  <- p_base_light + ggrefine::theme_light() + labs(title = "ggrefine::theme_light")
p_dark  <- p_base_dark  + ggrefine::theme_dark() + labs(title = "ggrefine::theme_dark")
p_grey <- p_base_light + ggrefine::theme_grey() + labs(title = "ggrefine::theme_grey")
p_oat <- p_base_light + ggrefine::theme_oat() + labs(title = "ggrefine::theme_oat")

patchwork::wrap_plots(
  p_light,
  p_dark,
  p_grey,
  p_oat
)
```

`void` *Void refine*

Description

Removes axes and gridlines.

Usage

```
void(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

A ggplot2 theme object

Examples

```
library(ggplot2)

set_theme(new = ggrefine::theme_grey())

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 + ggrefine::classic() + labs(title = "ggrefine::classic"),
  p_discrete_x + ggrefine::classic(x_type = "discrete"),
  p_discrete_y + ggrefine::classic(y_type = "discrete"),
  p_continuous + ggrefine::modern() + labs(title = "ggrefine::modern"),
```

```
  p_discrete_x + ggrefine::modern(x_type = "discrete"),
  p_discrete_y + ggrefine::modern(y_type = "discrete"),
  p_continuous + ggrefine::hybrid() + labs(title = "ggrefine::hybrid"),
  p_discrete_x + ggrefine::hybrid(x_type = "discrete"),
  p_discrete_y + ggrefine::hybrid(y_type = "discrete"),
  p_continuous + ggrefine::minimal() + labs(title = "ggrefine::minimal"),
  p_discrete_x + ggrefine::minimal(x_type = "discrete"),
  p_discrete_y + ggrefine::minimal(y_type = "discrete"),
  p_continuous + ggrefine::void() + labs(title = "ggrefine::void"),
  p_discrete_x + ggrefine::void(x_type = "discrete"),
  p_discrete_y + ggrefine::void(y_type = "discrete"),
  p_continuous + ggrefine::none() + labs(title = "ggrefine::none"),
  p_discrete_x + ggrefine::none(x_type = "discrete"),
  p_discrete_y + ggrefine::none(y_type = "discrete"),
  ncol = 3
)
```

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